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## BS-1000 Series Monocular Zoom Microscope

### 1. BS-1010 Monocular Zoom Microscope



BS-1010A



BS-1010B



BS-1010C



BS-1010D



BS-1010E

### Introduction

BS-1010 Series Monocular Zoom microscopes are precise optical system providing high resolution and sharp stereoscopic images. BS-1010A and BS-1010B can be flexibly equipped with a microscope stand, they also can be integrated in a semi-conductor and integrate circuit board production line. BS-1010B comes with a C-mount, it can work with various digital cameras.

### Features

1. High quality zoom optical system 1:6.5.
2. Compact structure makes it occupy less working Space.
3. Various Digital cameras can be used with the microscope for image capture and analysis.

### Application

BS-1010 series Monocular Zoom Microscope are widely used in educational demonstration, agriculture research, industrial material, semi-conductor and integrated circuit inspection area and so on.

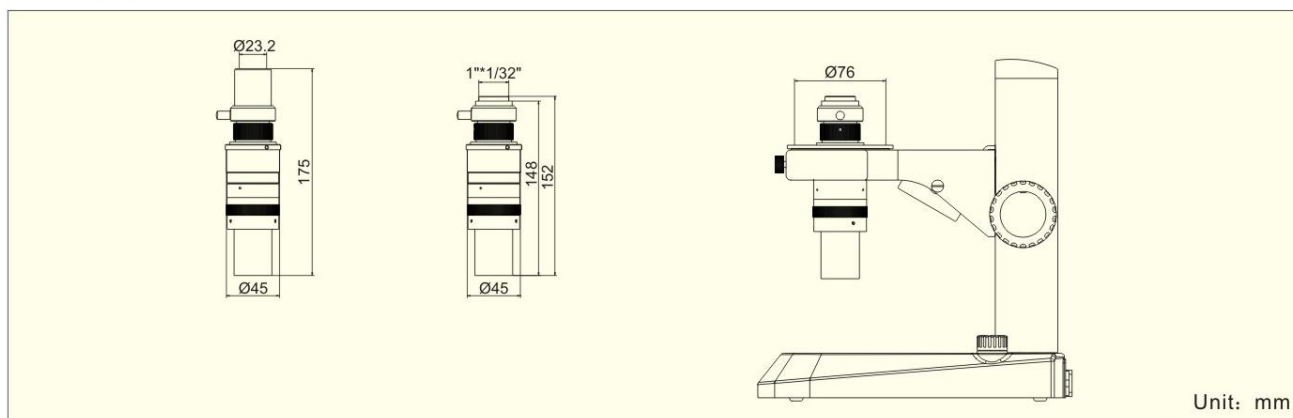


### Specification

Item	Specification	BS-1010A	BS-1010B	BS-1010C	BS-1010D	BS-1010E
Body (Mount Diameter: 45mm)	Eyepiece WF10×/18	●	●	●	●	●
	Zoom Ratio: 1: 6.5 (0.7×-4.5×)	●	●	●	●	●
	Total Magnification: 7×-45×	●	●	●	●	●
	Working Distance: 90mm	●	●	●	●	●
Video System	C-mount Adapter 1×		●	●	●	●
	C-mount Adapter 0.5×		○	○	○	○
	Various Digital Cameras		○	○	○	○
Optional Accessories	Auxiliary Objective	0.3×	○	○	○	○
		0.5×	○	○	○	○
		2×	○	○	○	○
Illumination	1W Reflected and 3W transmitted LED illumination			●		
	6V/15W Reflected and 6V/20W transmitted halogen illumination				●	
	Fluorescent ring light					●
	LED ring light					○
	Cold light illumination	○	○	○	○	○
Stand	BSZ-F23 stand with LED illumination	○	○	●		
	BSZ-F12 stand with halogen illumination	○	○		●	
	BSZ-F8 stand with fluorescent ring light	○	○			●

Note: ●Standard Outfit, ○Optional

### Dimension



## 2. BS-1080 Monocular Zoom Microscope



BS-1080A



BS-1080B



BS-1080C

### Introduction

BS-1080 Series Monocular Zoom microscopes adopt apochromatic parallel optical imaging system and provide high resolution and sharp stereoscopic images. This series microscopes are designed for the applications in the fields of machine vision, industrial inspection and scientific research. Modularization product portfolio and excellent optical performance make them a better choice in these areas.

### Features

1. Adopt apochromatic parallel optical imaging system, use advanced multi-layer coating technology, excellently correct the imaging on the edge of field of view. Get high-resolution and high contrast images, naturally restore the true colors of observed objects.
2. Compact design, so that all functions are concentrated in a tube, it is very suitable for the small installation space in modern equipment.
3. Zoom ratio 1:8.3, zoom range 0.6×-5×, standard working distance 88mm, can meet the requirement of machine vision conventional imaging.
4. There are a variety of auxiliary lens and C-mount eyepiece adapter for option, make the system's optical magnification range 0.054×-1500×, working distance 2mm-270mm, object field of view 0.004mm-20mm.
5. LED Ring light, Polarizing illumination, Coaxial illumination system are optional, Coaxial illumination adopts single high brightness 3W LED, color temperature 5500K, uniform lighting, suitable for high reflectivity surface precision detection and limited exterior lighting occasions.
6. Adopt modular design, various additional accessories are optional to make the microscope a powerful device for your jobs.

### Application

BS-1080 series Monocular Zoom Microscope are widely used in educational demonstration, agriculture research, industrial material, semi-conductor, integrated circuit board inspection area and so on.

### Specification

Item	Specification	BS-1080A	BS-1080B	BS-1080C
Optical System	Infinite apochromatic parallel optical system	●	●	●

Zoom Lens	Optical zoom magnification: 0.6x-5.0x	●	●	●
Zoom ratio	1:8.3	●	●	●
Viewing head	Monocular Viewing head with 10x/18mm, 15x/12mm, 20x/11mm eyepiece, $\Phi$ 23.2mm	○	○	○
90° Prism	Used to turn the angle of camera or objective, so as to short the size	○	○	○
Mounting Size	$\Phi$ 40mm	●	●	●
Mounting Adapter	Mounting Adapter (39.6 to 45mm), used to connect the BS-1080A to 45mm focus arm	○	○	○
	Mounting Adapter (39.6 to 50mm), used to connect the BS-1080A to 50mm focus arm	○	○	○
LCD Digital Camera	BLC-520 digital camera with HDMI and WIFI output, can capture 2.0MP pictures, videos and do measurement, control with mouse; 11.6 inch LCD screen, resolution 1920*1080	○	○	○
	BLC-520AF Auto focus digital camera with HDMI and WIFI output, can capture 2.0MP pictures, videos and do measurement, control with mouse; 11.6 inch LCD screen, resolution 1920*1080	○	○	○
	BLC-550 digital camera with HDMI and WIFI output, can capture 5.0MP pictures, videos and do measurement, control with mouse; 11.6 inch LCD screen, resolution 1920*1080.	○	○	○
	BLC-550AF Auto focus digital camera with HDMI and WIFI output, can capture 5.0MP pictures, videos and do measurement, control with mouse; 11.6 inch LCD screen, resolution 1920*1080.	○	○	○
C-mount Adapter	0.3x C-mount adapter	○	○	○
	0.4x C-mount adapter	○	○	○
	0.5x C-mount adapter	●	●	●
	0.67x C-mount adapter	○	○	○
	1x C-mount adapter	○	○	○
	1.5x C-mount adapter	○	○	○
	2x C-mount adapter	○	○	○
Auxiliary Lens	0.3x /WD: 270mm	○	○	○
	0.5x / WD: 160mm	○	○	○
	0.6x / WD: 130mm	○	○	○
	1x / WD: 88mm	●	●	●
	1.5x / WD: 52mm	○	○	○
	2x / WD: 39mm	○	○	○
Infinite LWD Plan Achromatic Metallurgical Objective Lens	5x, NA: 0.12, WD: 26.1mm	○	○	○
	10x, NA: 0.25, WD: 20.2mm	○	○	○
	20x, NA: 0.40, WD: 8.8mm	○	○	○
	40x, NA: 0.6, WD: 3.98mm	○	○	○
	50x, NA: 0.70, WD: 3.68mm	○	○	○
	60x, NA: 0.75, WD: 1.22mm	○	○	○
	80x, NA: 0.80, WD: 1.25mm	○	○	○

	100x, NA: 0.85, WD: 0.4mm	○	○	○
Infinite LWD Plan	5x, NA: 0.13, WD: 44.5mm	○	○	○
Apochromatic	10x, NA: 0.28, WD: 34mm	○	○	○
Metallurgical	20x, NA: 0.29, WD: 31mm	○	○	○
Objective	50x, NA: 0.42, WD: 20.1mm	○	○	○
Coaxial light Device	Coaxial Device, light input port $\Phi$ 11mm (does not include light source)	○	○	○
	Coaxial point light source: 3W LED, 5500K, brightness adjustable	○	○	○
	Polarized Coaxial Device, light input port $\Phi$ 11mm (does not include light source)	○	○	○
Ring Light	BAL-48A LED Ring light, brightness adjustable	○	●	●
	Polarized LED Ring light, brightness adjustable	○	○	○
Other Accessories	Metallurgical objective adapter (used to connect metallurgical objectives onto the zoom body)	○	○	○
	Triple Nosepiece for metallurgical objectives	○	○	○
	Quadruple Nosepiece for metallurgical objectives	○	○	○
	BSL-3B LED light source with dual goose neck light guide, 6.5W	○	○	○
	BMS-302 X-Y moving stage	○	○	○
	BSL2-150A-1 Cold light source with Single Light Guide, 150W	○	○	○
	BSL2-150A-2 Cold light source with Dual Light Guide, 150W	○	○	○
Stand and focus arm	BSL2-150A-O Cold light source with Annular Ring Light Guide, 150W	○	○	○
	BA1 Pillar type column plain stand with coarse focus arm	○	●	○
	BA2 Pillar type column plain stand with coarse and fine focus arm	○	○	●
	BA3 Square type column plain stand with coarse and fine focus arm	○	○	○
	BA4 Square type column plain stand with coarse and fine focus arm, transmitted 10W LED illumination	○	○	○
	BA5 multi-angle column plain stand with coarse focus arm	○	○	○

Note: ●Standard Outfit, ○Optional

## Optical Parameter

Auxiliary Objectives	CCD C-mount Adapter								
		0.3x	0.4x	0.5x	0.67x	1.0x	1.5x	2.0x	3.0x
Standard 1.0x/ WD:86mm	Total Mag.	0.18x-1.5x	0.24x-2.0x	0.3x-2.5x	0.4x-3.35x	0.6-5.0x	0.9x-7.5x	1.2x-10.0x	1.8x-15x
	FOV (mm)	26x20-3x2.0	20x15-2x1.8	16x12-1.9x1.4	12x9-1.43x1.07	8x6-0.9x0.7	5x4-0.6x0.5	4x3-0.5x0.36	2.6x2-0.3x0.2
0.3x/ WD:270mm	Total Mag.	0.05x-0.45x	0.07x-0.6x	0.09x-0.75x	0.12x-1.0x	0.18x-1.5x	0.27x-2.25x	0.36x-3x	0.54x-4.5x
	FOV (mm)	96x72-10.6x8	68x51-8x6	53x40-6.4x4.8	40x30-4.8x3.6	26x20-3.2x2.4	18x13-2x1.6	13x10-1.6x1.2	9x6.6-1.1x0.8
0.5x /WD:160mm	Total Mag.	0.09x-0.75x	0.12x-1x	0.15x-1.25x	0.201x-1.68x	0.3x-2.5x	0.45x-3.75x	0.6x-5x	0.9x-7.5x
	FOV (mm)	53x40-6.4x4.8	40x30-4.8x3.6	32x24-3.8x2.8	23.88x17.9-9	16x12-1.9x1.4	11x8-1.3x0.9	8x6-0.9x0.7	5x4-0.6x0.5

					2.85×2.14				
0.6×/ WD:130mm	Total Mag.	0.22×-0.9×	0.144×-1.2×	0.18×-1.5×	0.24×-2.0×	0.36×-3×	0.54×-4.5×	0.72×-6×	1.08×-9×
	FOV (mm)	22×16- .3 ×4	33×25- 4×3	26×20- 3×2	20×15- 2.4×1.8	13×10- 1.6×1.2	9×6.6- 1.1×0.8	6.6×51- 0.8×0.6	4.4×3- 0.5×0.4
1.5×/ WD:50mm	Total Mag.	0.27×-2.25×	0.36×-3×	0.45×-3.75×	0.6×-5.0×	0.9×-7.5×	1.35×-11.25×	1.8×-15×	2.7×-22.5×
	FOV (mm)	18×13- 2×1.6	13×10- 1.6×1.2	11×8- 1.3×0.9	8×6- 0.9×0.7	5×4- 0.6×0.5	3.5×2.6- 0.4×0.3	2.6×2- 0.3×0.24	1.7×1.3- 0.2×0.1
2.0×/ WD:39mm	Total Mag.	0.36×-3×	0.48×-4×	0.6×-5.0×	0.8×-6.7×	1.2×-10×	1.8×-15×	2.4×-20×	3.6×-30×
	FOV (mm)	13×10- 1.6×1.2	10×7.5- 1.2×0.9	8×6- 0.9×0.7	6×4.5- 0.7×0.54	4×3- 0.5×0.36	2.6×2- 0.3×0.2	2×1.5- 0.2×0.18	1.3×1- 0.16×0.12

**Remark:** Total magnification of lens = Magnification of zoom body × CCD adaptor magnification × Objective magnification, The range of Field of View is based on 1/3"CCD Camera (Sensor Width 4.8mm, Height 3.6mm), FOV= the size of camera sensor / total Optical Magnification.

### Accessories

#### System diagram





CCD C-mount adapter



BS-1080A with coaxial device and triple nosepiece



Eyepiece head



90° Prism



BS-1080A with coaxial device



BS-1080LCD1/2/3/4



Auxiliary Objective



BAL-48A LED ring light



Polarized LED ring light(back)



Polarized LED ring light



Polarized Coaxial Device



Coaxial Device



LED point light for Coaxial Device



BMS-302 X-Y stage





BS-1080B with LCD screen holder



LCD screen holder



90° Prism on C-mount



90° Prism on objective



Focus arm with camera holder(Up)



Focus arm with camera holder(Down)



BSL-3B



BSL2-150A



Double Rigid Fiber



Single Rigid Fiber



Ring Flexible Fiber



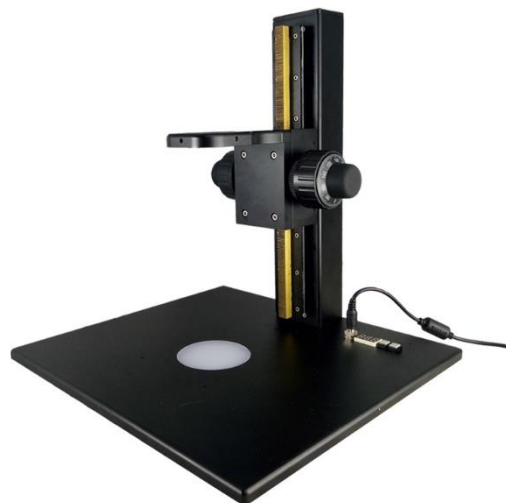
BA1 Stand



BA2 Stand



BA3 Stand



BA4 Stand



BA5 Stand(left)

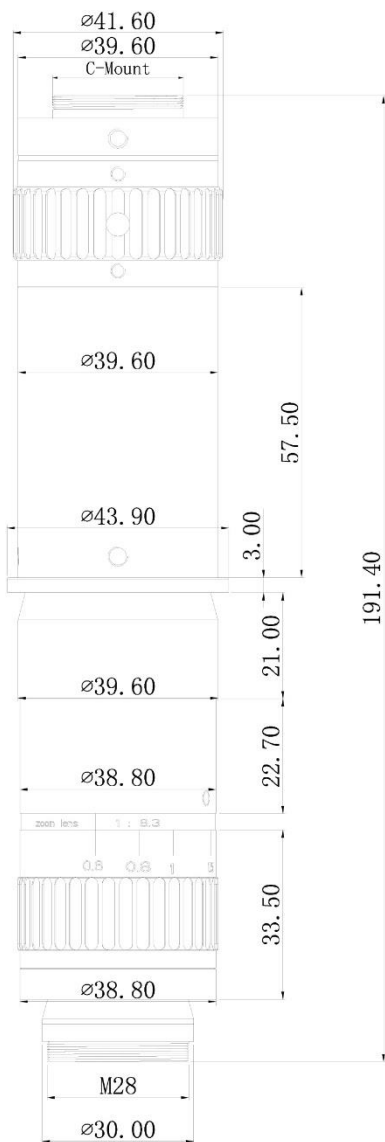


BA5 Stand(horizontal)

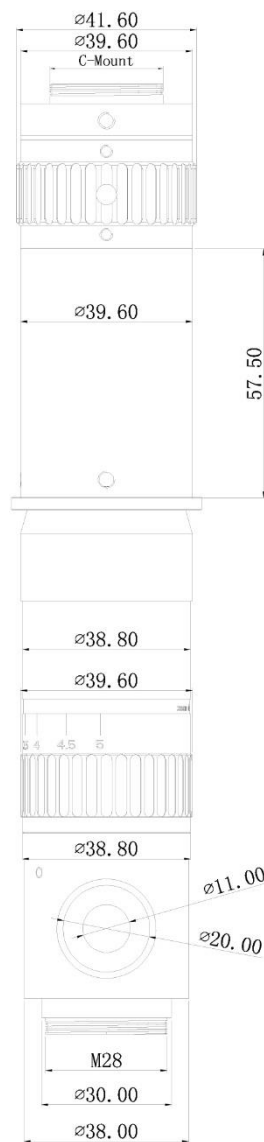


BA5 Stand(right)

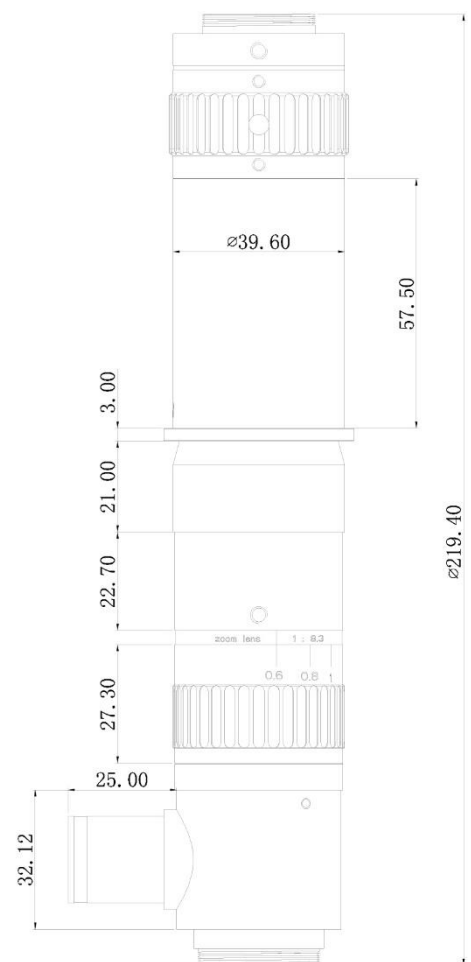
**Dimension**

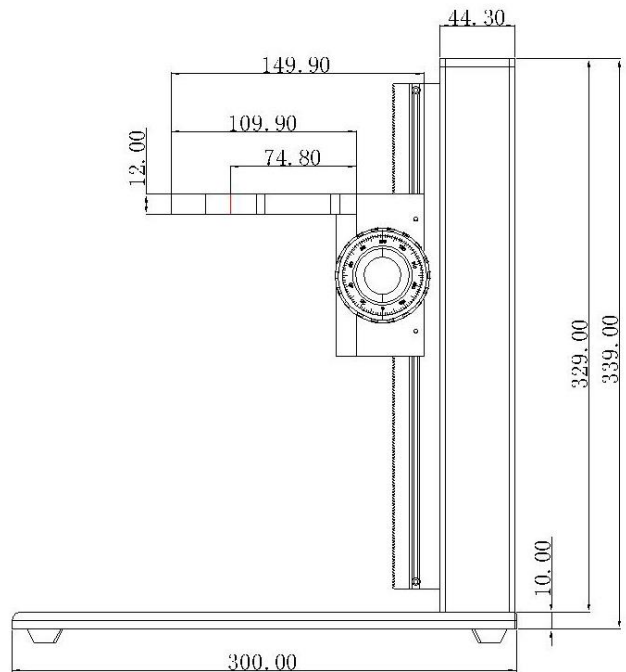
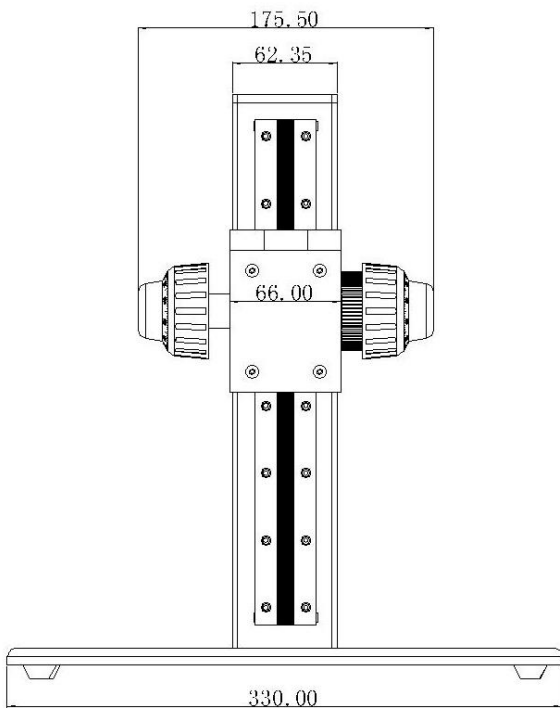
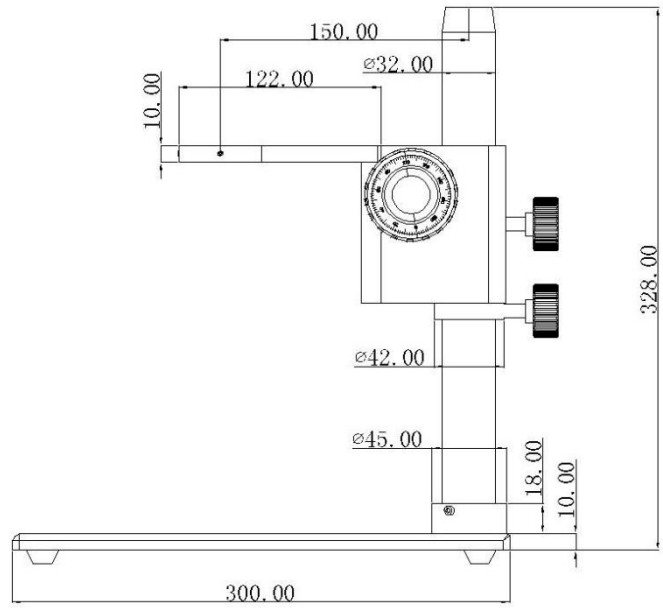
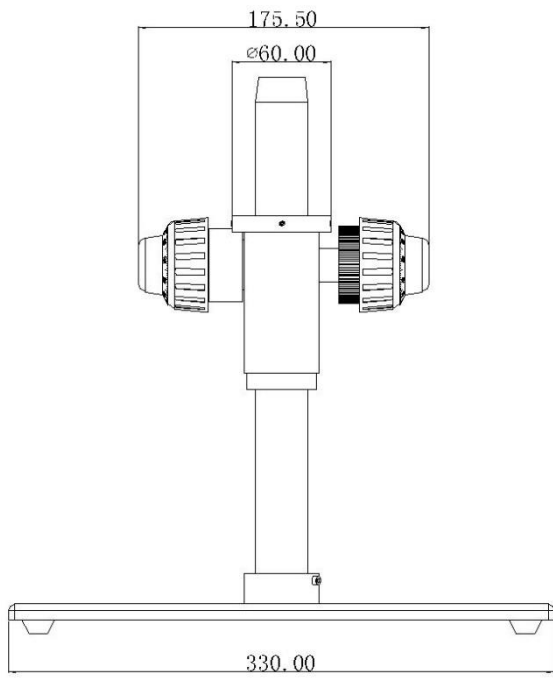


BS-1080A Dimension



BS-1080A with coaxial device Dimension





Unit: mm

### 3. BS-1080LCD Digital Monocular Zoom Microscope



BS-1080LCD1/2/3/4

#### Introduction

BS-1080LCD Series LCD Digital Monocular Zoom microscopes adopt apochromatic parallel optical imaging system and provide high resolution and sharp stereoscopic images. The camera system comes with a HDMI, WIFI camera and 11.6" retina LCD screen. The camera can be controlled with mouse to take pictures, take videos and make measurement, it can work without PC. This series microscopes are designed for the applications in the fields of machine vision, industrial inspection and scientific research. Modularization product portfolio and excellent performance make them a better choice in these areas.

#### Features

1. Adopt apochromatic parallel optical imaging system, use advanced multi-layer coating technology. Get high-resolution and high contrast images, naturally restore the true colors of observed objects.
2. Compact design, it is very suitable for the small installation space.
3. Zoom ratio 1:8.3, zoom range 0.6×-5×, standard working distance 88mm, can meet the requirement of circuit board, electronics, semi-conductor and other industrial inspections.
4. There are a variety of auxiliary lens and C-mount eyepiece adapter for option, make the system's total magnification range 1.65×-1050×, working distance 0.4mm-270mm, object field of view 0.12mm-72mm.
5. BAL-48A LED Ring light is standard, Polarizing illumination, Coaxial illumination system are optional, Coaxial illumination adopts single high brightness 3W LED, color temperature 5500K, uniform lighting, suitable for high reflectivity surface precision detection and limited exterior lighting occasions.
6. Adopt modular design, various additional accessories are optional to make the microscope a powerful device for your jobs.
7. The camera system comes with a HDMI, WIFI camera and 11.6" retina LCD screen, controlled by mouse.

## Application

BS-1080LCD series LCD Digital Monocular Zoom Microscope are widely used in educational demonstration, agriculture research, industrial material, semi-conductor, integrated circuit board inspection area and so on.

## Specification

Item	Specification	BS-1080 LCD1	BS-1080 LCD2	BS-1080 LCD3	BS-1080 LCD3
Optical System	Infinite apochromatic parallel optical system	●	●	●	●
Zoom Lens	Optical zoom magnification: 0.6-5.0×	●	●	●	●
Zoom ratio	1:8.3	●	●	●	●
Mounting Size	Φ40mm	●	●	●	●
LCD Digital Camera	BLC-520 digital camera with HDMI and WIFI output, can capture 2.0MP pictures, videos and do measurement, control with mouse; 11.6 inch LCD screen, resolution 1920*1080	●			
	BLC-520AF Auto focus digital camera with HDMI and WIFI output, can capture 2.0MP pictures, videos and do measurement, control with mouse; 11.6 inch LCD screen, resolution 1920*1080		●		
	BLC-550 digital camera with HDMI and WIFI output, can capture 5.0MP pictures, videos and do measurement, control with mouse; 11.6 inch LCD screen, resolution 1920*1080.			●	
	BLC-550AF Auto focus digital camera with HDMI and WIFI output, can capture 5.0MP pictures, videos and do measurement, control with mouse; 11.6 inch LCD screen, resolution 1920*1080				●
C-mount Adapter	0.3× C-mount adapter	○	○	○	○
	0.4× C-mount adapter	○	○	○	○
	0.5× C-mount adapter	●	●	●	●
	0.67× C-mount adapter	○	○	○	○
	1× C-mount adapter	○	○	○	○
	1.5× C-mount adapter	○	○	○	○
	2× C-mount adapter	○	○	○	○
Auxiliary Lens	0.3× /WD: 270mm	○	○	○	○
	0.5× / WD: 160mm	○	○	○	○
	0.6× / WD: 130mm	○	○	○	○
	1× / WD: 88mm	●	●	●	●
	1.5× / WD: 52mm	○	○	○	○
	2× / WD: 39mm	○	○	○	○
Infinite LWD Plan Achromatic Metallurgical Objective Lens	5×, NA: 0.12, WD: 26.1mm	○	○	○	○
	10×, NA: 0.25, WD: 20.2mm	○	○	○	○
	20×, NA: 0.40, WD: 8.8mm	○	○	○	○
	40×, NA: 0.6, WD: 3.98mm	○	○	○	○
	50×, NA: 0.70, WD: 3.68mm	○	○	○	○

	60x, NA: 0.75, WD: 1.22mm	○	○	○	○
	80x, NA: 0.80, WD: 1.25mm	○	○	○	○
	100x, NA: 0.85, WD: 0.4mm	○	○	○	○
Infinite LWD Plan	5x, NA: 0.13, WD: 44.5mm	○	○	○	○
Apochromatic	10x, NA: 0.28, WD: 34mm	○	○	○	○
	20x, NA: 0.29, WD: 31mm	○	○	○	○
Metallurgical	50x, NA: 0.42, WD: 20.1mm	○	○	○	○
Coaxial light Device	Coaxial Device, light input port $\Phi$ 11mm (does not include light source)	○	○	○	○
	Coaxial point light source: 3W LED, 5500K, brightness adjustable	○	○	○	○
	Polarized Coaxial Device, light input port $\Phi$ 11mm (does not include light source)	○	○	○	○
Ring Light	BAL-48A LED Ring light, brightness adjustable	●	●	●	●
	Polarized LED Ring light, brightness adjustable	○	○	○	○
Other Accessories	Metallurgical objective adapter (used to connect metallurgical objectives onto the zoom body)	○	○	○	○
	Triple Nosepiece for metallurgical objectives	○	○	○	○
	BSL-3B LED light source with dual goose neck light guide, 6.5W	○	○	○	○
	BMS-302 X-Y moving stage	○	○	○	○
Stand and focus arm	BA1 Pillar type column plain stand with coarse focus arm, base size 330x300x10mm	●	●	●	●
	BA2 Pillar type column plain stand with coarse and fine focus arm, base size 330x300x10mm	○	○	○	○
	BA3 Square type column plain stand with coarse and fine focus arm, base size 330x300x10mm	○	○	○	○
	BA4 Square type column plain stand with coarse and fine focus arm, transmitted 10W LED illumination, base size 330x300x10mm	○	○	○	○

Note: ●Standard Outfit, ○Optional

## Optical Parameter

Auxiliary Objectives	CCD C-mount Adapter								
		0.3x	0.4x	0.5x	0.67x	1.0x	1.5x	2.0x	3.0x
Standard 1.0x/ WD:86mm	Total Mag.	0.18x-1.5x	0.24x-2.0x	0.3x-2.5x	0.4x-3.35x	0.6-5.0x	0.9x-7.5x	1.2x -10.0x	1.8x-15x
	FOV (mm)	26x20-3x2.0	20x15-2x1.8	16x12-1.9x1.4	12x9-1.43x1.07	8x6-0.9x0.7	5x4-0.6x0.5	4x3-0.5x0.36	2.6x2-0.3x0.2
0.3x/ WD:270mm	Total Mag.	0.05x-0.45x	0.07x-0.6x	0.09x-0.75x	0.12x-1.0x	0.18x-1.5x	0.27x-2.25x	0.36x-3x	0.54x-4.5x
	FOV (mm)	96x72-10.6x8	68x51-8x6	53x40-6.4x4.8	40x30-4.8x3.6	26x20-3.2x2.4	18x13-2x1.6	13x10-1.6x1.2	9x6.6-1.1x0.8
0.5x /WD:160mm	Total Mag.	0.09x-0.75x	0.12x-1x	0.15x-1.25x	0.201x-1.68x	0.3x-2.5x	0.45x-3.75x	0.6x-5x	0.9x-7.5x



	FOV (mm)	53×40-6.4×4.8	40×30-4.8×3.6	32×24-3.8×2.8	23.88×17.9-2.85×2.14	16×12-1.9×1.4	11×8-1.3×0.9	8×6-0.9×0.7	5×4-0.6×0.5
0.6×/ WD:130mm	Total Mag.	0.22×-0.9×	0.144×-1.2×	0.18×-1.5×	0.24×-2.0×	0.36×-3×	0.54×-4.5×	0.72×-6×	1.08×-9×
	FOV (mm)	22×16-.3×4	33×25-4×3	26×20-3×2	20×15-2.4×1.8	13×10-1.6×1.2	9×6.6-1.1×0.8	6.6×5.1-0.8×0.6	4.4×3-0.5×0.4
1.5×/ WD:50mm	Total Mag.	0.27×-2.25×	0.36×-3×	0.45×-3.75×	0.6×-5.0×	0.9×-7.5×	1.35×-11.25×	1.8×-15×	2.7×-22.5×
	FOV (mm)	18×13-2×1.6	13×10-1.6×1.2	11×8-1.3×0.9	8×6-0.9×0.7	5×4-0.6×0.5	3.5×2.6-0.4×0.3	2.6×2-0.3×0.24	1.7×1.3-0.2×0.1
2.0×/ WD:39mm	Total Mag.	0.36×-3×	0.48×-4×	0.6×-5.0×	0.8×-6.7×	1.2×-10×	1.8×-15×	2.4×-20×	3.6×-30×
	FOV (mm)	13×10-1.6×1.2	10×7.5-1.2×0.9	8×6-0.9×0.7	6×4.5-0.7×0.54	4×3-0.5×0.36	2.6×2-0.3×0.2	2×1.5-0.2×0.18	1.3×1-0.16×0.12
<b>Remark:</b> Total magnification of lens = Magnification of zoom body × CCD adapter magnification × Objective magnification, The range of Field of View is based on 1/3" CCD Camera (Sensor Width 4.8mm, Height 3.6mm), FOV= the size of camera sensor / total Optical Magnification.									

## Accessories



CCD C-mount adapter



BS-1080A with coaxial device



Auxiliary Objective



BAL-48A LED ring light



LED point light for Coaxial Device



BMS-302 X-Y stage



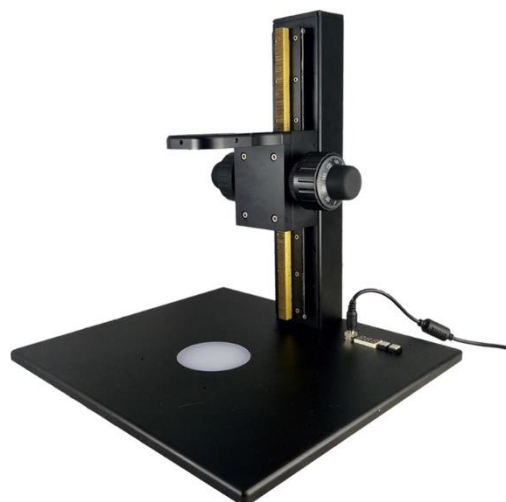
BA1 Stand



BA2 Stand

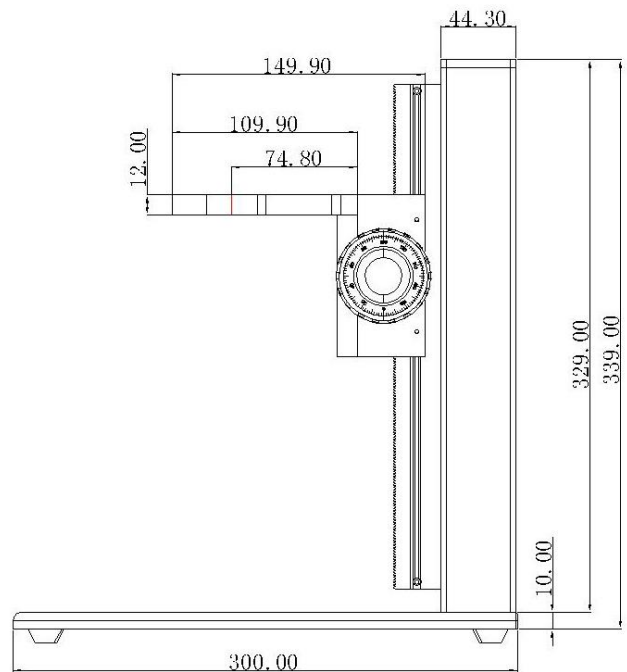
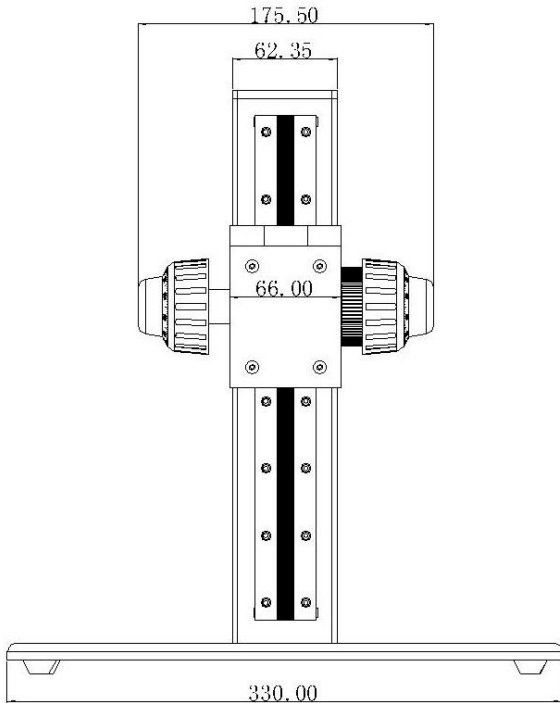
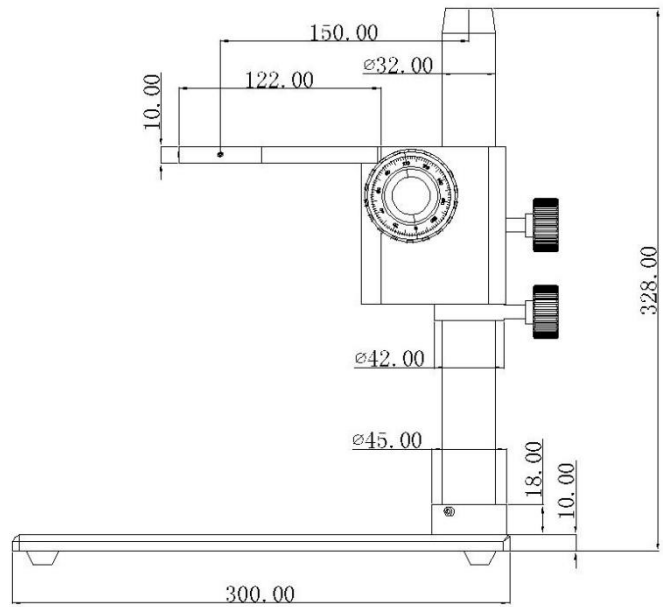
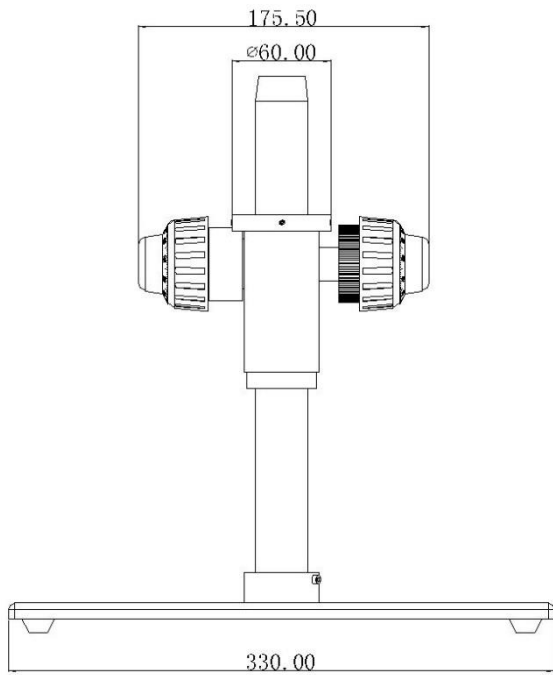


BA3 Stand



BA4 Stand

Dimension



Unit: mm

## 4. BS-1080BLHD1 LCD Digital Zoom Video Microscope



BS-1080BLHD1

### Introduction

BS-1080BLHD1 LCD Digital Zoom Video microscope adopts apochromatic parallel optical imaging system and provide high resolution and sharp stereoscopic images. The camera system comes with a HDMI, WIFI camera and 12.5" retina LCD screen. The camera can be controlled with mouse to take pictures, take videos and make measurement, it can work without PC. This microscope has been designed for the applications in the fields of industrial inspection and scientific research. Modularization product portfolio and excellent performance make them a better choice in these areas.

### Features

1. Adopt apochromatic parallel optical imaging system, use advanced multi-layer coating technology. Get high-resolution and high contrast images, naturally restore the true colors of observed objects.
2. Compact design, it is very suitable for the small installation space.
3. Zoom ratio 1:8.3, zoom range 0.6×-5×, standard working distance 88mm, can meet the requirement of circuit board, electronics, semi-conductor and other industrial inspections.
4. There are a variety of auxiliary lens and C-mount eyepiece adapter for option, make the system's total magnification range 1.65×-1050×, working distance 0.4mm-270mm, object field of view 0.12mm-72mm.
5. LED Ring light is standard, Polarizing illumination, Coaxial illumination system are optional, Coaxial illumination adopts single high brightness 3W LED, color temperature 5500K, uniform lighting, suitable for high reflectivity surface precision detection and limited exterior lighting occasions.
6. Adopt modular design, various additional accessories are optional to make the microscope a powerful device for your jobs.
7. The camera system comes with a HDMI, WIFI camera and 12.5" retina LCD screen, controlled by mouse.

## Application

BS-1080BLHD1 LCD Digital Zoom Video Microscope is widely used in educational demonstration, agriculture research, industrial material, semi-conductor, integrated circuit board, electronics inspection area and so on.

## Specification

Item	Specification	BS-1080 BLHD1
Optical System	Infinite apochromatic parallel optical system	●
Zoom Lens	Optical zoom magnification: 0.6-5.0×	●
Zoom ratio	1:8.3	●
Mounting Size	Φ40mm	●
Digital Camera	BWHC-1080B digital camera with HDMI and WIFI output, can capture 5.0MP pictures, 1080P videos and do measurement, control with mouse	●
	BWHC-1080BAF autofocus digital camera with HDMI and WIFI output, can capture 5.0MP pictures, 1080P videos and do measurement, control with mouse	○
	BWHC-1080D digital camera with HDMI and WIFI output, can capture 2.0MP pictures, 1080P videos and do measurement, control with mouse	○
	BWHC-1080DAF autofocus digital camera with HDMI and WIFI output, can capture 2.0MP pictures, 1080P videos and do measurement, control with mouse	○
	BWHC-4K8MPA digital camera with HDMI, GigE and WIFI output, can capture 8.0MP pictures, 4K videos and do measurement, control with mouse	○
LCD Monitor	12.5 inches LCD screen, resolution: 1920×1080.	●
	Color display: 16.7m	●
	Brightness: 300Nit	●
	Contrast: 800:1	●
	Visible angle: 170° horizontal & vertical	●
	Power supply: input AC100-240V, output: DC12V/5A/60W	●
	Input interface: HDMI1, HDMI2	●
C-mount Adapter	Output interface: 3 units of DC5V/2A	●
	0.3× C-mount adapter	○
	0.4× C-mount adapter	○
	0.5× C-mount adapter	●
	0.67× C-mount adapter	○
	1× C-mount adapter	○
	1.5× C-mount adapter	○
	2× C-mount adapter	○
3× C-mount adapter	○	
Auxiliary Lens	0.3× /WD: 270mm	○
	0.5× / WD: 160mm	○
	0.6× / WD: 130mm	○
	1× / WD: 88mm	●
	1.5× / WD: 52mm	○

	2x / WD: 39mm	○
Infinite LWD Plan Achromatic Metallurgical Objective Lens	5x, NA: 0.12, WD: 26.1mm	○
	10x, NA: 0.25, WD: 20.2mm	○
	20x, NA: 0.40, WD: 8.8mm	○
	40x, NA: 0.6, WD: 3.98mm	○
	50x, NA: 0.70, WD: 3.68mm	○
	60x, NA: 0.75, WD: 1.22mm	○
	80x, NA: 0.80, WD: 1.25mm	○
Infinite LWD Plan Apochromatic Metallurgical Objective	5x, NA: 0.13, WD: 44.5mm	○
	10x, NA: 0.28, WD: 34mm	○
	20x, NA: 0.29, WD: 31mm	○
	50x, NA: 0.42, WD: 20.1mm	○
Coaxial light Device	Coaxial Device, light input port $\Phi$ 11mm (does not include light source)	○
	Coaxial point light source: 3W LED, 5500K, brightness adjustable	○
	Polarized Coaxial Device, light input port $\Phi$ 11mm (does not include light source)	○
Ring Light	LED Ring light, brightness adjustable	●
	Polarized LED Ring light, brightness adjustable	○
Other Accessories	Metallurgical objective adapter (used to connect metallurgical objectives onto the zoom body)	○
	Triple Nosepiece for metallurgical objectives	○
	BSL-3B LED light source with dual goose neck light guide, 6.5W	○
	BMS-302 X-Y moving stage	○
Stand and focus arm	BA1 Pillar type plain stand with coarse focus arm	●
	BA2 Pillar type plain stand with coarse and fine focus arm	○

Note: ●Standard Outfit, ○Optional

## Optical Parameter

Auxiliary Objectives	CCD C-mount Adapter								
		0.3x	0.4x	0.5x	0.67x	1.0x	1.5x	2.0x	3.0x
Standard 1.0x/ WD:86mm	Total Mag.	0.18x-1.5x	0.24x- 2.0x	0.3x-2.5x	0.4x- 3.35x	0.6-5.0x	0.9x-7.5x	1.2x - 10.0x	1.8x-15x
	FOV (mm)	26x20- 3x2.0	20x15- 2x1.8	16x12- 1.9x1.4	12x9- 1.43x1.07	8x6- 0.9x0.7	5x4- 0.6x0.5	4x3- 0.5x0.36	2.6x2- 0.3x0.2
0.3x/ WD:270mm	Total Mag.	0.05x-0.45x	0.07x- 0.6x	0.09x- 0.75x	0.12x- 1.0x	0.18x- 1.5x	0.27x- 2.25x	0.36x-3x	0.54x-4.5x
	FOV (mm)	96x72- 10.6x8	68x51- 8x6	53x40- 6.4x4.8	40x30- 4.8x3.6	26x20- 3.2x2.4	18x13- 2x1.6	13x10- 1.6x1.2	9x6.6- 1.1x0.8
0.5x /WD:160mm	Total Mag.	0.09x-0.75x	0.12x-1x	0.15x- 1.25x	0.201x- 1.68x	0.3x-2.5x	0.45x- 3.75x	0.6x-5x	0.9x-7.5x
	FOV (mm)	53x40- 6.4x4.8	40x30- 4.8x3.6	32x24- 3.8x2.8	23.88x17. 9- 2.85x2.14	16x12- 1.9x1.4	11x8- 1.3x0.9	8x6- 0.9x0.7	5x4- 0.6x0.5

0.6x/ WD:130mm	Total Mag.	0.22x-0.9x	0.144x-1.2x	0.18x-1.5x	0.24x-2.0x	0.36x-3x	0.54x-4.5x	0.72x-6x	1.08x-9x
	FOV (mm)	22x16-3x4	33x25-4x3	26x20-3x2	20x15-2.4x1.8	13x10-1.6x1.2	9x6.6-1.1x0.8	6.6x5.1-0.8x0.6	4.4x3-0.5x0.4
1.5x/ WD:50mm	Total Mag.	0.27x-2.25x	0.36x-3x	0.45x-3.75x	0.6x-5.0x	0.9x-7.5x	1.35x-11.25x	1.8x-15x	2.7x-22.5x
	FOV (mm)	18x13-2x1.6	13x10-1.6x1.2	11x8-1.3x0.9	8x6-0.9x0.7	5x4-0.6x0.5	3.5x2.6-0.4x0.3	2.6x2-0.3x0.24	1.7x1.3-0.2x0.1
2.0x/ WD:39mm	Total Mag.	0.36x-3x	0.48x-4x	0.6x-5.0x	0.8x-6.7x	1.2x-10x	1.8x-15x	2.4x-20x	3.6x-30x
	FOV (mm)	13x10-1.6x1.2	10x7.5-1.2x0.9	8x6-0.9x0.7	6x4.5-0.7x0.54	4x3-0.5x0.36	2.6x2-0.3x0.2	2x1.5-0.2x0.18	1.3x1-0.16x0.12
<p><b>Remark:</b> Total magnification of lens = Magnification of zoom body × CCD adapter magnification × Objective magnification, The range of Field of View is based on 1/3" CCD Camera (Sensor Width 4.8mm, Height 3.6mm), FOV= the size of camera sensor / total Optical Magnification.</p>									

### Accessories



CCD C-mount adapter



BS-1080A with coaxial device



Auxiliary Objective



BAL-48A LED ring light





LED point light for Coaxial Device



BMS-302 X-Y stage

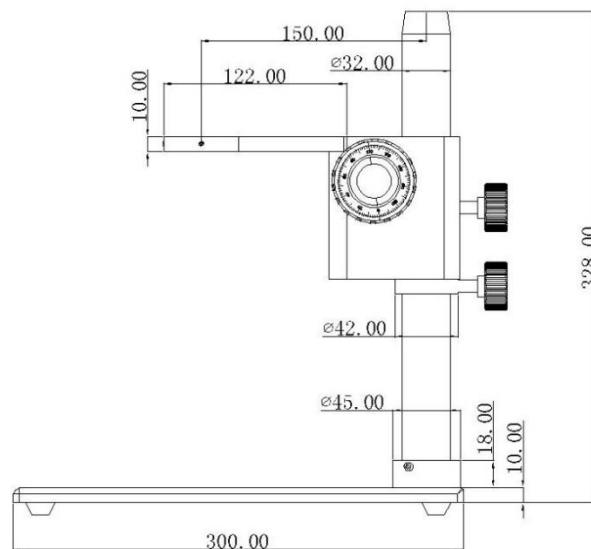
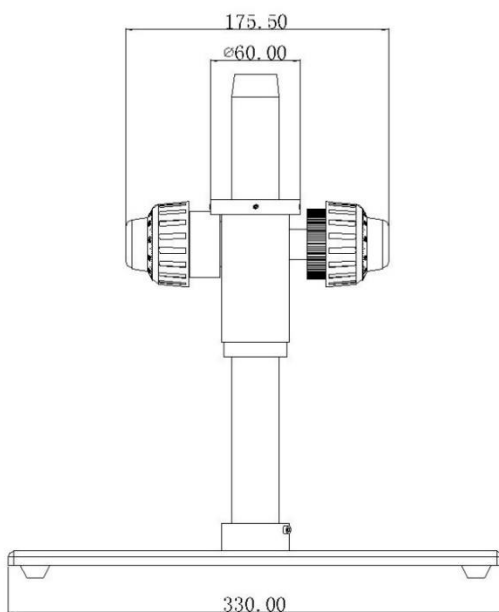


BA1 Stand



BA2 Stand

**Dimension**



Unit: mm

## 5. BS-1080BL3DHD1 LCD Digital 3D Video Microscope



BS-1080BL3DHD1

### Introduction

BS-1080BL3DHD1 LCD Digital Zoom Video microscope adopts apochromatic parallel optical imaging system and provide high resolution and sharp stereoscopic images. The zoom ratio is 1:8.3 with high quality LED ring light and 3D attachment. The camera system comes with a HDMI, WIFI camera and 12.5" retina LCD screen. The camera can be controlled with mouse to take pictures, take videos and make measurement, it can work without PC. This microscope has been designed for the applications in the fields of industrial inspection and scientific research. Modularization product portfolio and excellent performance make them a better choice in these areas.

### Features

1. Adopt apochromatic parallel optical imaging system, use advanced multi-layer coating technology. Get high-resolution and high contrast images, naturally restore the true colors of observed objects.
2. Compact design, it is very suitable for the small installation space.
3. Zoom ratio 1:8.3, zoom range 0.6×-5×, standard working distance 88mm, can meet the requirement of circuit board, electronics, semi-conductor and other industrial inspections.
4. 0.3×, 0.5×, 1× C-mount eyepiece adapter are available to provide more magnification.
5. LED Ring light has 4 zones, can be controlled separately, the uniform light is suitable for high reflectivity surface precision detection and limited exterior lighting occasions.
6. The 3D attachment can be used to see the different side of samples(side view 3D microscope), very convenient for inspection.
7. The camera system comes with a HDMI, WIFI camera and 12.5" retina LCD screen, controlled by mouse.

## Application

BS-1080BL3DHD1 LCD Digital 3D Zoom Video Microscope is widely used in educational demonstration, agriculture research, industrial material, semi-conductor, integrated circuit board, electronics inspection area and so on.

## Specification

Item	Specification	BS-1080 BL3DHD1
Optical System	Infinite apochromatic parallel optical system	●
Zoom Lens	Optical zoom magnification: 0.6-5.0×	●
Zoom ratio	1:8.3	●
Mounting Size	Φ40mm	●
Digital Camera	BWHC-1080B digital camera with HDMI and WIFI output, can capture 5.0MP pictures, videos and do measurement, control with mouse, also can be connected to PC to tablet PC, smart phone via WIFI interface.	●
LCD Monitor	12.5 inches LCD screen, resolution: 1920×1080.	●
	Color display: 16.7m	●
	Brightness: 300Nit	●
	Contrast: 800:1	●
	Visible angle: 170° horizontal & vertical	●
	Power supply: input AC100-240V, output: DC12V/5A/60W	●
	Input interface: HDMI1, HDMI2	●
	Output interface: 3 units of DC5V/2A	●
C-mount Adapter	0.3× C-mount adapter	○
	0.4× C-mount adapter	○
	0.5× C-mount adapter	●
	0.67× C-mount adapter	○
	1× C-mount adapter	○
	1.5× C-mount adapter	○
	2× C-mount adapter	○
	3× C-mount adapter	○
Objective Lens	1× / WD: 88mm	●
Ring Light	Four-Zone LED Ring light, brightness adjustable	●
3D Attachment	Can be used to see the different side of samples (side view)	●
Other Accessories	BSL-3B LED light source with dual goose neck light guide, 6.5W	○
	BMS-302 X-Y moving stage	○
Stand and focus arm	BA1 Pillar type plain stand with coarse focus arm	●
	BA2 Pillar type plain stand with coarse and fine focus arm	○
	BA3 Square type plain stand with coarse and fine focus arm	○
	BA4 Square type plain stand with coarse and fine focus arm, transmitted 10W LED illumination	○

Note: ●Standard Outfit, ○Optional

Accessories



CCD C-mount adapter



BMS-302 X-Y stage

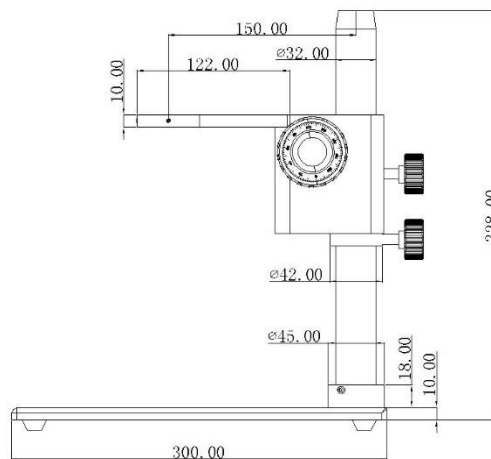
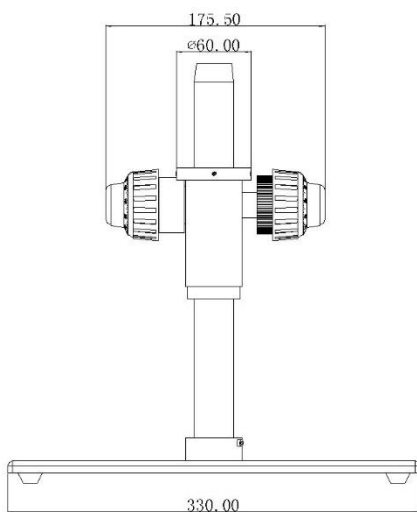


BA1 Stand



BA2 Stand

Dimension



Unit: mm

## 6. BS-1080CUHD Digital Video Microscope with 4K Camera



BS-1080CUHD

### Introduction

BS-1080CUHD Digital Monocular Zoom microscopes adopts apochromatic parallel optical imaging system and provide high resolution and sharp stereoscopic images, 4K HDMI digital camera with measurement function can work without PC. This microscope is designed for the applications of circuit board, electronics, semi-conductor and related industrial inspection and scientific research areas. Modularization product portfolio and excellent optical performance make it a better choice in these areas.

### Features

1. Adopt apochromatic parallel optical imaging system, use advanced multi-layer coating technology, excellently correct the imaging on the edge of field of view. Get high-resolution and high contrast images, naturally restore the true colors of observed objects.
2. Compact design, it is very suitable for the small installation space in modern equipment.
3. Adopt 4K UHD digital camera, can take 4K high resolution uncompressed images and do measurement.
4. Zoom ratio 1:8.3, zoom range 0.6×-5×, standard working distance 88mm, can meet the requirement of conventional inspection.
5. There are a variety of auxiliary lens and C-mount eyepiece adapter for option, make the system's optical magnification range 0.054×-1500×, working distance 2mm-270mm, object field of view 0.004mm-20mm.
6. LED Ring light, Polarizing illumination, Coaxial illumination system are optional, Coaxial illumination adopts single high brightness 3W LED, color temperature 5500K, uniform lighting, suitable for high reflectivity surface precision detection and limited exterior lighting occasions.
7. Adopt modular design, various additional accessories are optional to make the microscope a powerful device for your jobs.

### Application

BS-1080 series Monocular Zoom Microscope are widely used in educational demonstration, agriculture research, industrial material, semi-conductor, integrated circuit board inspection area and so on.

**Specification**

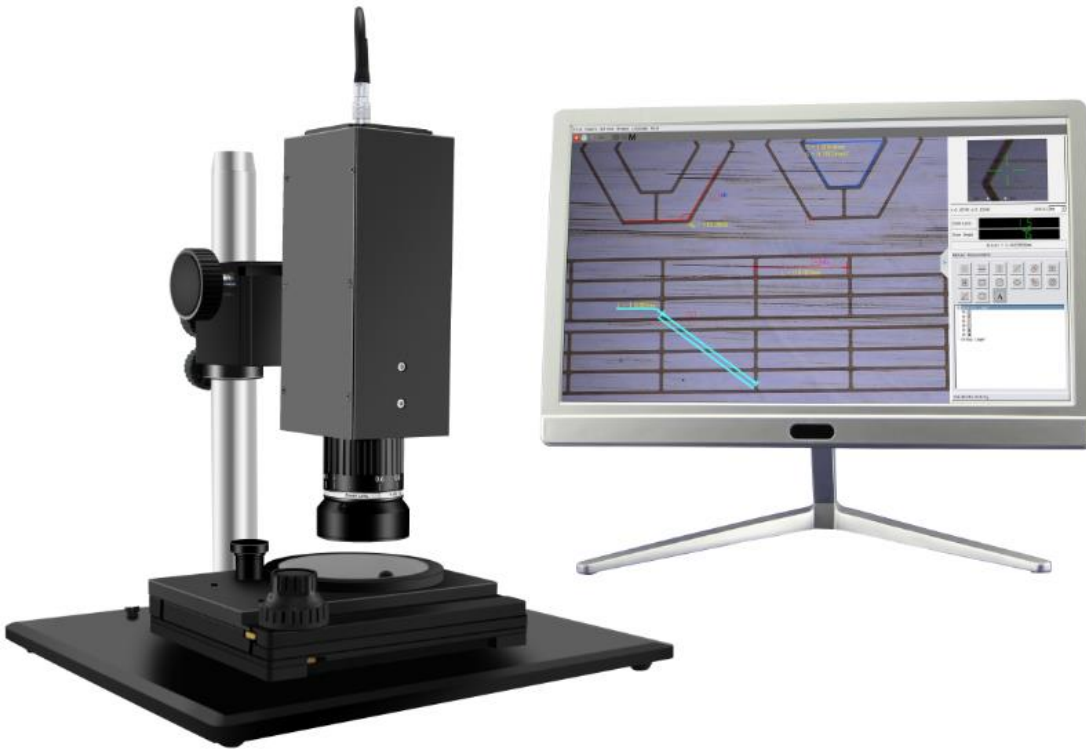
Item	Specification	BS-1080 CUHD
Optical System	Infinite apochromatic parallel optical system	●
Zoom Lens	Optical zoom magnification: 0.6-5.0x	●
Zoom ratio	1:8.3	●
Viewing head	Monocular Viewing head with 10x/18mm, 15x/12mm, 20x/11mm eyepiece, $\Phi$ 23.2mm	○
90° Prism	Used to turn the angle of camera or objective, so as to short the size	○
Mounting Size	$\Phi$ 40mm	●
4K UHD Digital Camera	HDS800C PLUS 4K UHD digital camera with HDMI output, built-in memory is 4G, images can be saved in USB flash drive(upto 32G). Can capture 4K(3840x2160) pictures and do measurement without PC, control with mouse	●
C-mount Adapter	0.3x C-mount adapter	○
	0.4x C-mount adapter	○
	0.5x C-mount adapter	○
	0.67x C-mount adapter	○
	1x C-mount adapter	●
	1.5x C-mount adapter	○
	2x C-mount adapter	○
	3x C-mount adapter	○
Auxiliary Lens	0.3x /WD: 270mm	○
	0.5x / WD: 160mm	○
	0.6x / WD: 130mm	○
	1x / WD: 88mm	●
	1.5x / WD: 52mm	○
	2x / WD: 39mm	○
Infinite LWD Plan Achromatic Metallurgical Objective Lens	5x, NA: 0.12, WD: 26.1mm	○
	10x, NA: 0.25, WD: 20.2mm	○
	20x, NA: 0.40, WD: 8.8mm	○
	40x, NA: 0.6, WD: 3.98mm	○
	50x, NA: 0.70, WD: 3.68mm	○
	60x, NA: 0.75, WD: 1.22mm	○
	80x, NA: 0.80, WD: 1.25mm	○
	100x, NA: 0.85, WD: 0.4mm	○
Infinite LWD Plan Apochromatic Metallurgical Objective	5x, NA: 0.13, WD: 44.5mm	○
	10x, NA: 0.28, WD: 34mm	○
	20x, NA: 0.29, WD: 31mm	○
	50x, NA: 0.42, WD: 20.1mm	○
Coaxial light Device	Coaxial Device, light input port $\Phi$ 11mm (does not include light source)	●
	Coaxial point light source: 3W LED, 5500K, brightness adjustable	●
	Polarized Coaxial Device, light input port $\Phi$ 11mm (does not include light source)	○

Ring Light	BAL-48A LED Ring light, brightness adjustable	○
	Polarized LED Ring light, brightness adjustable	○
Other Accessories	Metallurgical objective adapter (used to connect metallurgical objectives onto the zoom body)	○
	Triple Nosepiece for metallurgical objectives	○
	BSL-3B LED light source with dual goose neck light guide, 6.5W	○
	BMS-302 X-Y moving stage	○
Stand and focus arm	BA1 Pillar type plain stand with coarse focus arm	○
	BA2 Pillar type plain stand with coarse and fine focus arm	○
	BA3 Square type plain stand with coarse and fine focus arm	●
	BA4 Square type plain stand with coarse and fine focus arm, transmitted 10W LED illumination	○

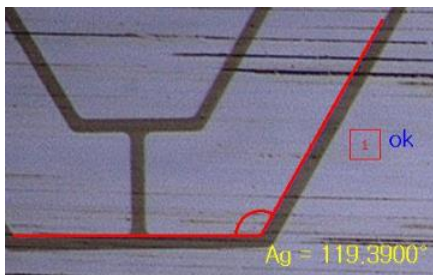
Note: ●Standard Outfit, ○Optional



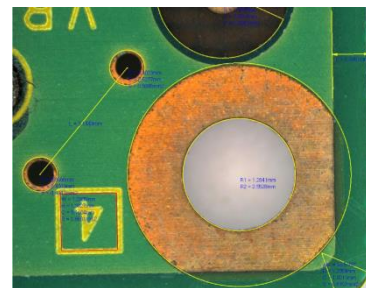
## 7. BS-1080FC Free Calibration Smart Measuring Microscope



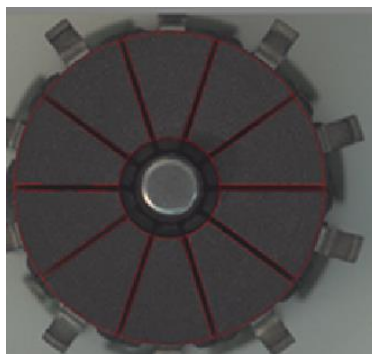
The BMS-303 X-Y stage is optional



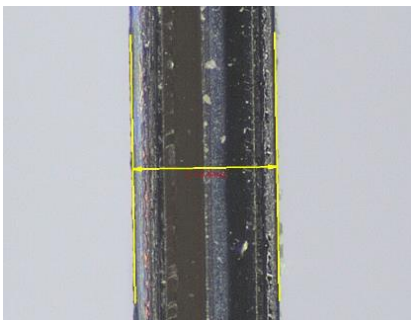
High resolution  
1:8.3 Big Zoom Ratio  
No Need Computer  
No Need Calibration



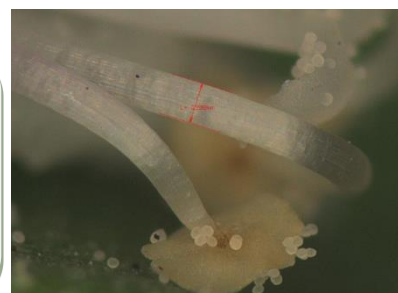
Smart measure Function  
Ruler line, Angle Gauge  
High Measure accuracy



1/2 inch SONY CMOS  
Full HDMI 1080P 60FPS  
Save Image to U Disk  
with BMP or JPG



Real time display  
optical magnification  
and total magnification



## Features

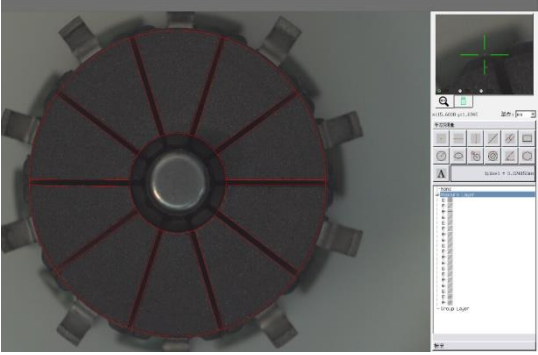
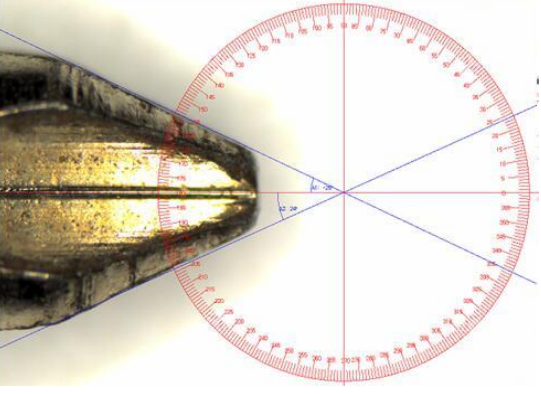
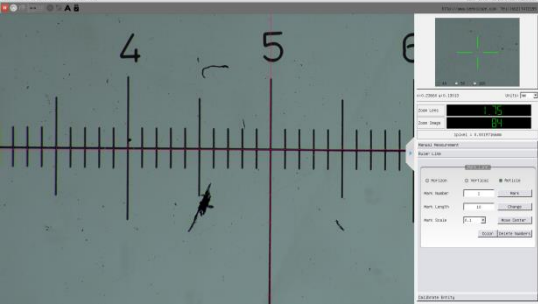
1. Parallel Infinite Optical System. Whole focus, uniform illumination, 0.3-2.5X or 0.6-5.0X optical zoom magnification optional.
2. 60fps, Full HDMI display, 1920x1080 high resolution image.
3. Real time Display optical magnification and total magnification.
4. Built in smart measuring software system. PC-Free, Smart calibration. Calibration Free. After factory setting. User don't need to calibrate again.
5. Screen printing drawing function. For Special irregular parts, can draw a variety of graphics and support the secondary editing of the drawing diagram.
6. Automatic tracing-edge Function has greatly Improved Measurement Precision.
7. Measuring Function: support line, circle, fan-shaped, concentric circles, center distance of circle, Angle, arbitrary polygon measuring, etc. Measurement data can be saved with picture or Excel formate.
8. Windows software interface, Wireless mouse control, BMP or JPG photo storage, online preview.

## Operation windows

User can choose "observe mode" and "measurement mode". Camera settings and measurement tools are easily



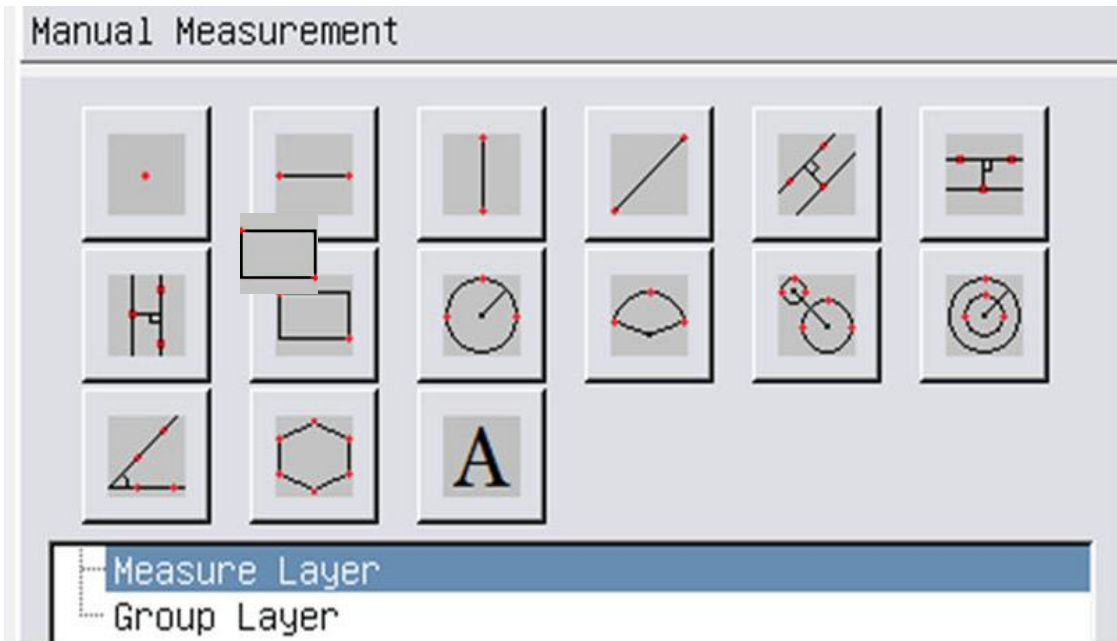
<table border="1"> <tr> <td>Zoom Lens</td> <td>0.6</td> </tr> <tr> <td>Zoom Image</td> <td>30</td> </tr> <tr> <td colspan="2">1pixel = 1.0000mm</td> </tr> </table>	Zoom Lens	0.6	Zoom Image	30	1pixel = 1.0000mm		<p><b>Real time display zoom optical magnification and total magnification.</b></p> <p>Real-time monitoring of magnification changes and automatic switching of the corresponding calibration value for measurement.</p>
Zoom Lens	0.6						
Zoom Image	30						
1pixel = 1.0000mm							

<p><b>Screen printing drawing function.</b> For Special irregular parts, can draw a variety of graphics and support the secondary editing of the drawing diagram. Graph can be added with new group, new group unlimited, can be used at any time.</p>	
	<p><b>Gauge and crosshair</b> Built-in Angle gauge screen printing and crosshair. Can add any angle. Adjust Angle freely. Can Move the center of angle gauge.</p>
<p><b>Ruler line. Zoom in or zoom out with magnification. Like put a real ruler on display.</b></p>	

**No need computer, No need calibration, Smart measuring.**

The measuring accuracy of the system can reach within 3 microns, and the repeated measuring accuracy is also within 5 microns.

Support point, line, circle, fan-shaped, concentric circles, center distance of circle, Angle, arbitrary polygon. ect measuring. Measurement data can be saved with picture or Excel. Numerical units can be freely selected (mm, UN, inch, mil)



All supported measurement elements are shown in the following figure: mark the measurement object, and the mark result is the coordinate information of the current mark point.



Measurement of horizontal line segment



Measurement of vertical line segment



The measurement of any angle line segment



Angle measurement



Measurement of distance between horizontal parallel lines



Measurement of the distance between vertical parallel lines



Measurement of the distance between parallel lines at any angle



Measurement of rectangles



For polygon measurement, in polygon measurement, right-click the last edge, and the software will automatically complete the drawing work



The sector measurement adopts the method of three-point calibration



The measurement of circle adopts the method of three-point circle determination



Center distance measurement



Measurement of concentric circles



Text mark.

## Application

BS-1080FC Free Calibration Smart Measuring Microscope is widely used in educational demonstration, agriculture research, industrial material, semi-conductor, integrated circuit board, electronics inspection area and so on.

## Specification

Model	BS-1080FCA	BS-1080FCB
Zoom Body	0.3-2.5X zoom body (standard)	0.6-5.0X zoom body optional
FOV (mm)	24mmx13.7mm - 2.88mmx1.64mm	12mmx6.8mm - 1.44mmx0.81mm
Total magnification	15-120X	30-240X
Zoom ratio	1:8.3	
Working distance	86mm	
Smart platform	EPGA+ARM architecture embedded System, Dual-core A9 Processor	
Photo Resolution	1920*1080	
Output format	Full HDMI	
LCD monitor	15.6-inch HDMI LCD monitor with resolution of 1920*1080	
Sensor	1/2" Sony sensor	



Frame Rate	60 fps
Pixel Size	3.75μm×3.75μm
Calibrate-Free	Software already set the calibration, So Calibration-Free
Measurement function	Can measure lines, parallel lines, circles, arcs, angles, concentric circles, center distance of circles, rectangles, polygons and other plane graphics (support customized measurement mode)
Storage	Photos (with measurement data or pure photo) and excel data files can be saved in the USB flash drive
Light Source	12V 5W ring LED light source
Configuration	Microscope with coarse focus pole column stand, LED ring light, 15.6-inch LCD monitor, HDMI digital camera
<p>Remark: Can select the objective and the auxiliary objective which will change total magnification and working distance for your requirements, collocate the accessories to total magnification range: min 2.7 X, Max 10000 X. If select the high magnification objective, the objective above 4X, Suggest you to select the BS-1080FCB body for best image.</p>	

### Optional Accessory

LR65-R	12V 5W ring LED light source for Circular column of stand, the installation diameter is 32mm
LL65	Bar LED illumination, large lighting, suitable for low range, good uniformity
LC6511P	3W Coaxial light source with polarizer
LC6511	3W Coaxial light source
LR65P	12V 5W Polarized ring LED light source
Stand	Quadrate column stand, coarse&fine focus stand and transmitted light stand are optional
BMS-303	BMS-303 X-Y stage with 360 degree rotatable surface layer





BMS-303 X-Y stage, the knob with white surface is used to rotate the round layer.

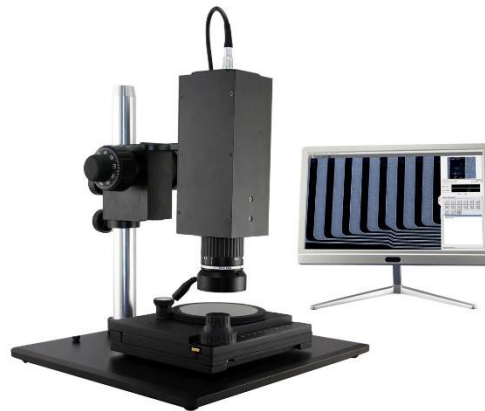
**Product Details**



Product Pictures



BS-1080FC with Quadrate column stand(coarse focus)



BS-1080FC with fine focus and X-Y stage



BS-1080FC with Quadrate column stand(coarse&fine focus), X-Y stage



BS-1080FC with pole column stand(coarse&fine focus), X-Y stage, coaxial illumination and LED ring light, Plan APO metallurgical objective



## BS-2000 Series Biological Microscope

### 1. BS-2000A, B, C Biological Microscope



BS-2000A

BS-2000B

BS-2000C

### Introduction

With sharp image, competitive and reasonable unit price, BS-2000A, B, C series microscopes are ideal instruments for student use. These microscopes are mainly used in elementary schools.

### Specification

Item	Specification	BS-2000A	BS-2000B	BS-2000C
Eyepiece	Huygens Eyepiece H5×, H10×	●	●	●
	Huygens Eyepiece H12.5×	●		
	Huygens Eyepiece H16×		●	●
Objective	Achromatic Objective 10×, 40×	●	●	●
	Achromatic Objective 4×, 60×	○	○	○
	Achromatic Objective 100×	○	○	●
Nosepiece	Triple Nosepiece	●	●	●
Stage	Plain Stage with Slide Clips 110×120mm	●	●	
	Attachable Mechanical Stage 110×120mm/ 60×30mm	○	○	●
Condenser	Single Lens with Disc Diaphragm	●		
	Single Lens with Iris Diaphragm		●	
	Abbe Condenser with Iris Diaphragm and Filter			●
Illumination system	Plan-concave Mirror	●	●	●
	Attachable Illuminator	○	○	○
Filter	Blue Filter			●
	Green Filter			●

Note: ● Standard Outfit, ○ Optional

## 2. BS-2005 Biological Microscope



BS-2005M



BS-2005B

### Introduction

BS-2005 series biological microscopes are economical microscopes with basic features for educational applications in elementary and middle school. With the high quality material and optics, the microscopes can ensure you get high definition images. They are perfect for individual or classroom application. An incident illumination is available for non-transparent specimens.

### Features

1. Monocular head, 360° Rotatable, users can view from any angles.
2. Maximum magnification can be up to 2500x with optional eyepiece and objectives.
3. Battery compartment comes with the microscope, 3pcs AA battery can be used as the power supply, easy for out door work.



### Applications

BS-2005 series biological microscopes can be used for educational applications in elementary and middle schools. They also can be used as hobby for biological applications and small items identification.

### Specification

Item	Specification	BS-2005M	BS-2005B
Viewing Head	Monocular viewing head, Inclined at 45°, 360° Rotatable	●	
	Binocular viewing head, Inclined at 45°, 360° Rotatable, Interpupillary distance 54-77mm		●
Eyepiece	WF10×/16mm	●	●
	WF16×/11mm	○	○
	WF20×/9.5mm	○	○
	WF25×/6.5mm	●	●
Nosepiece	Triple Nosepiece	●	●
Objective	Achromatic Objective 4×(185)	●	●
	Achromatic Objective 10×(185)	●	●
	Achromatic Objective 40×(185)	●	●
	Achromatic Objective 60×(185) (The performance is not good, not recommend)	○	○
	Achromatic Objective 100×(185) (The performance is not good, not recommend)	○	○
Stage	Plain Stage with Slide Clips 95×95mm	●	●
	Plain Stage with Mechanical ruler 95×95mm/60×30mm	○	○
Focusing	Coaxial Coarse and Fine Adjustment	●	●
Condenser	Single Lens NA 0.65 with Disc Diaphragm	●	●
Illumination	0.1W LED Illumination, Brightness Adjustable	●	●
Spare Parts	Dust Cover	●	●
Power Supply	AC100-220V power adapter, microscope input voltage DC5V	●	●
	Battery compartment (can use 3pcs AA batteries as the power supply)	●	●
Package	Styrofoam & Carton, Dimension 28×19×40 cm, 3kg	●	●

Note: ● Standard Outfit, ○ Optional

### Sample Images



### 3. BS-2010 Biological Microscope



BS-2010D



BS-2010E

#### Introduction

BS-2010 series biological microscopes are more comfortable and reliable operation with modern design. These microscopes are economical microscope with all basic features for educational use in elementary and middle school.

#### Features

1. More comfortable and reliable operation with modern design.
2. Affordable price with reliable performance, long working life.
3. Smart and occupy small space.

#### Applications

These microscopes are economical microscope with all basic features for educational use in elementary and middle schools.

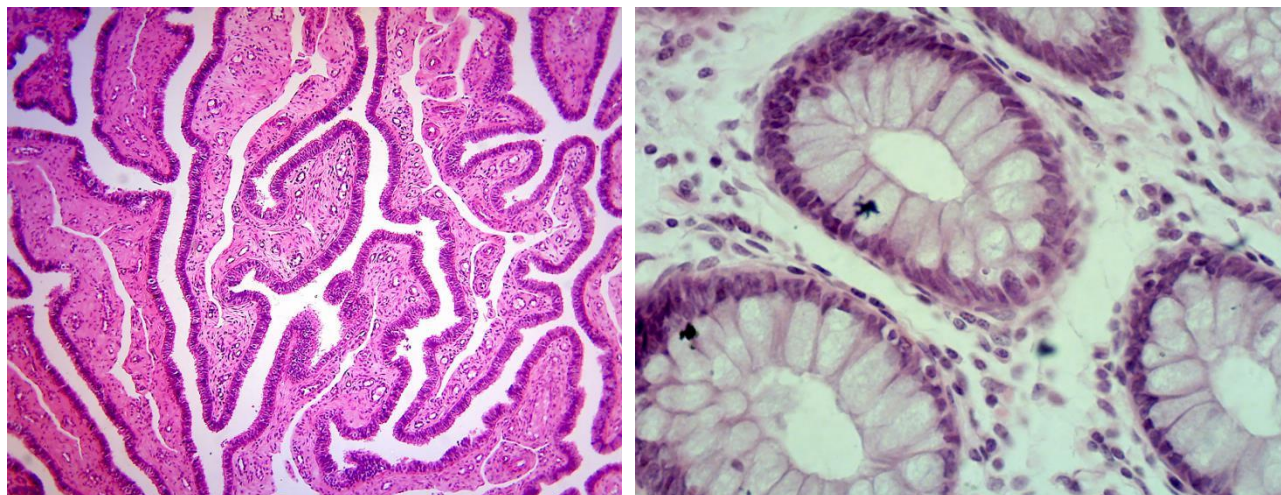
#### Specifications

Item	Specification	BS-2010B	BS-2010C	BS-2010D	BS-2010E
Viewing Head	Monocular, Inclined at 45°, 360° Rotatable	●	●	●	
	Sliding Binocular Head, Inclined at 45°, 360° Rotatable, 55-75mm				●
Eyepiece	WF10×/18mm	●	●	●	●
	WF5×/20mm, WF16×/11mm, WF25×/8mm	○	○	○	○
	WF10×/18mm with Pointer	○	○	○	○
Nosepiece	Triple Nosepiece	●	●	●	

	Quadruple Nosepiece				•
Objective	Achromatic Objective 4x, 10x, 40x(S)	•	•	•	•
	Achromatic Objective 20x, 60x	○	○	○	○
	Achromatic Objective 100x	○	○	○	•
Stage	Plain Stage with Slide Clips 110×120mm	•			
	Plain Stage with Attachable Mechanical ruler 110×120mm/ 60×30mm		•		
	Double Layers Mechanical Stage 110×120mm/ 70×20mm			•	•
Focusing	Coaxial Coarse and Fine Adjustment, Moving Range 10mm	•	•	•	•
Condenser	Single Lens NA 0.65 with Iris Diaphragm	•			
	Abbe NA 1.2 with Iris Diaphragm & Blue Filter, Spiral Adjustment for Condenser		•		
	Abbe NA 1.2 with Iris Diaphragm & Blue Filter, Rack and Pinion Adjustment for Condenser			•	•
Illumination	1W LED Illumination, Brightness Adjustable	•	•	•	•
	Mirror	○	○	○	○
Spare Parts	Dust Cover	•	•	•	•
Package	Styrofoam & Carton, Dimension 28×20×40 cm, 4kg	•	•	•	•
	Wooden Case & Carton, Aluminum Case & Carton	○	○	○	○
Power Supply	AC100-220V power adapter, microscope input voltage 5V	•	•	•	•

Note: • Standard Outfit, ○ Optional

## Sample Images





## 4. BS-2010MD/BD Digital Microscope



BS-2010MD



BS-2010BD

### Introduction

BS-2010MD/BD digital microscope feature a built-in 1.3MP Digital Camera and professional software offering high resolution and user friendly operation. This combination of microscope, digital imaging system and software is easy to operate and offers outstanding performance. It can preview, take photos, videos and do measurement. LED illumination saves energy and has long working life.

### Feature

1. Built-in 1.3 Mega Pixel CMOS camera, vivid images and real color reproduction.
2. High definition images and videos, high frame rate.
3. Professional image analyze software supports Windows Vista / Win 7/8/10 32bit & 64 bit Operation System.
4. Support Multi-language (Arabic, Chinese, English, French, German, Japanese, Polish and etc.).
5. Compact and flexible, ideally suited for desktop, laboratory worktable.

### Application

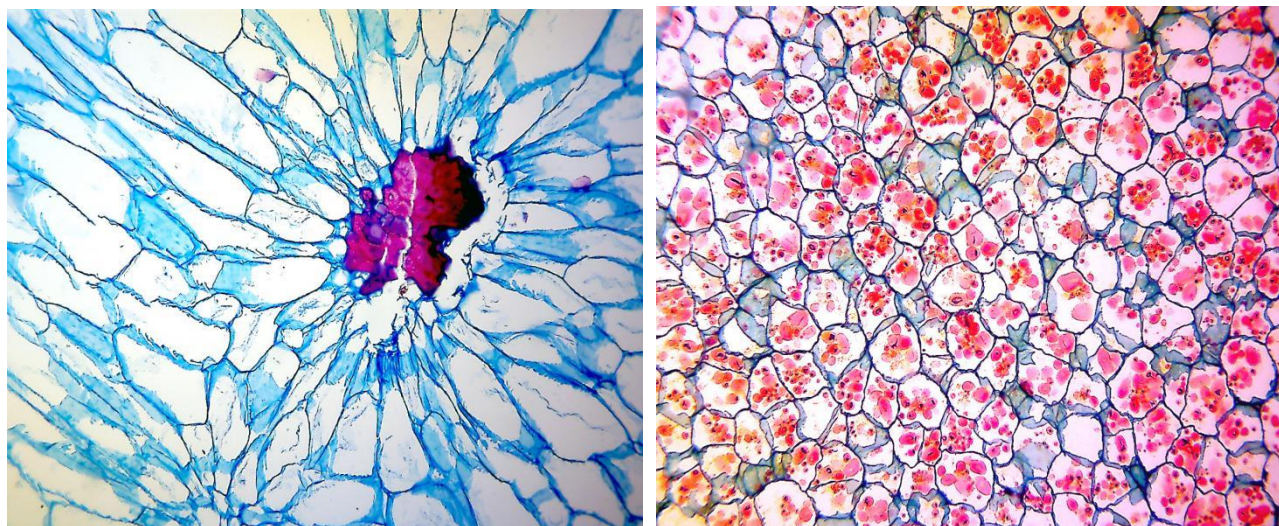
BS-2010MD/BD digital microscopes are primarily designed for school students to do image analysis and distant sharing. The microscopes also provide a superior cost effective solution for computer interactive laboratory, clinical environments and individuals as hobby etc.

### Specification

Item	Specification	BS-2010MD	BS-2010BD
Viewing Head	Monocular head, Inclined at 45°, 360° Rotatable	●	
	Binocular head, Inclined at 45°, 360° Rotatable, 55-75mm		●
Camera System	Resolution: 1280×1024(1.3MP)	●	●
	Output: USB2.0	●	●
	Operation System: Windows 2000/XP/VISTA/Win 7/8/10	●	●
	Software: Scopelimage 9.0	●	●
Eyepiece	Wide Field Eyepiece: WF10×/18mm	●	●
	WF5×/20mm, WF16×/11mm, WF25×/8mm	○	○
Objective	Achromatic Objective: 4×, 10×, 40×(S), 100×(S, Oil)	●	●
	Achromatic Objective: 20×, 60×	○	○
Stage	Double Layers Mechanical Stage: 110×120mm, Moving Range X-Y: 70×20mm	●	●
Condenser	Abbe NA 1.25 Condenser with Iris Diaphragm (Φ2-Φ28mm)	●	●
Focusing	Coaxial Coarse and Fine Adjustment, Moving Range 10mm	●	●
Illumination	1W LED illumination, brightness adjustable	●	●
Accessories	Operation manual, dust cover, AC adapter and USB cable	●	●
Package	1pc/carton, 28cm×22cm×40cm, 5kg	●	●

Note: ● Standard Outfit, ○ Optional

### Sample Image



## 5. BS-2020 Biological microscope



BS-2020M



BS-2020B



BS-2020T

### Introduction

BS-2020 series microscopes are economic, practical and easy to operate. These microscopes adopt LED illumination, which saves energy, has long working life and also comfortable for observation. These microscopes are widely used in educational, academic, agricultural and study field. With a microscope adapter, a digital camera (or digital eyepiece) can be plug into the trinocular tube or the eyepiece tube. Built-in rechargeable battery is optional for outdoors operation or places that power supply is not stable.

### Feature

1. Comfortable operation with updated and ergonomic design;
2. LED light illumination, save energy and long working life;
3. Compact and flexible, ideally suited for desktop, laboratory worktable.

### Application

BS-2020 series microscopes are ideally suited for school biological education and medical analyses area to observe all kinds of slides. They can be widely used in clinics, hospitals, schools, academic labs and scientific research department.

### Specification

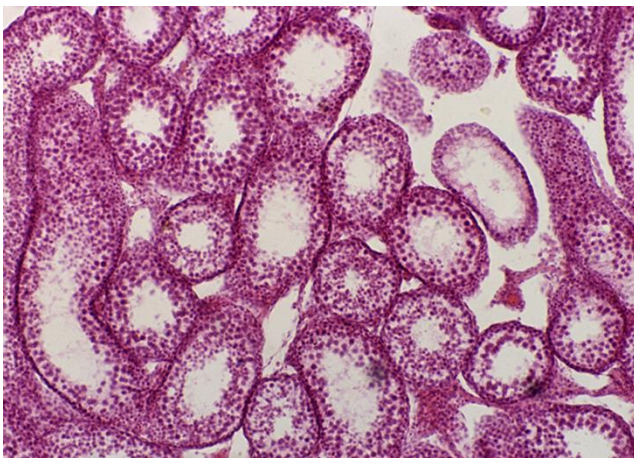
Item	Specification	BS-2020M	BS-2020B	BS-2020T
Viewing Head	Monocular Head, Inclined at 30°, 360° Rotatable	•		
	Seidentopf Binocular Head, Inclined at 30°, 360° Rotatable, Interpupillary Distance 48-75mm		•	
	Seidentopf Trinocular Head, Inclined at 30°, 360° Rotatable, Interpupillary Distance 55-75mm			•
Eyepiece	WF10×/18mm	•	•	•
	WF16×/11mm	○	○	○



	WF25×/8mm	○	○	○
Objective	Achromatic Objective 4×, 10×, 40×, 100×(Oil)	●	●	●
	Achromatic Objective 20×, 60×	○	○	○
Nosepiece	Backward Quadruple Nosepiece	●	●	●
Stage	Double Layer Mechanical Stage 132×142mm/ 75×40mm	●	●	●
Focusing	Coaxial Coarse & Fine Adjustment, Fine Division 0.004mm, Coarse Stroke 37.7mm per Rotation, Fine Stroke 0.4mm per Rotation, Moving Range 24mm	●	●	●
Condenser	Abbe NA 1.20 with Iris Diaphragm and Filter	●	●	●
Illumination	1W S-LED illumination, Brightness Adjustable	●	●	●
	Halogen Lamp 6V/ 20W, Brightness Adjustable	○	○	○
Immersion oil	5ml Immersion oil	●	●	●
Optional Accessories	Phase Contrast Kit	○	○	○
	Dark Field Attachment	○	○	○
	Polarization Attachment	○	○	○
	Rechargeable battery	○	○	○
Package	1pc/carton, 39.5cm*26.5cm*50cm, 7kg	●	●	●

Note: ● Standard Outfit, ○ Optional

### Sample Images



## 6. BS-2020MD/BD Digital Microscope



BS-2020MD



BS-2020BD

### Introduction

With 1.3MP colorful digital camera, competitive price and easy to operate features, the BS-2020MD/BD monocular/binocular digital microscopes are widely used in educational, academic, agricultural and study field. They are connected to a computer via a USB cable. The software is powerful and easy to operate, it can preview, take photos, videos and do measurement.

### Feature

1. Built-in 1.3 Mega Pixel CMOS camera, vivid images and real color reproduction.
2. High definition images and videos, high frame rate.
3. Professional image analyze software supports Windows Vista / Win 7/8/10 32&64bit Operation System.
4. Support Multi-language (Arabic, Chinese, English, French, German, Japanese, Polish and etc.).
5. Compact and flexible, ideally suited for desktop, laboratory worktable.

### Application

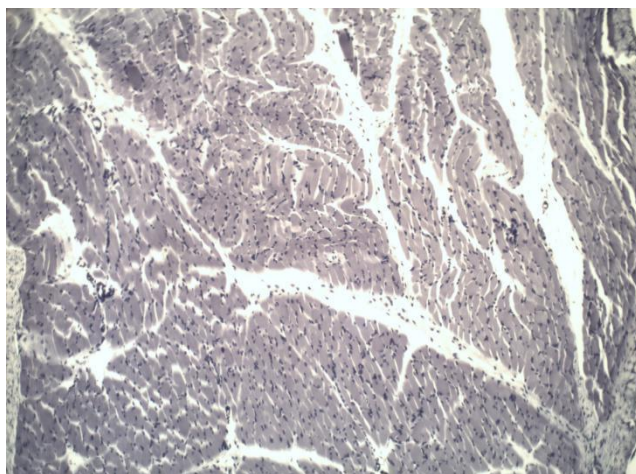
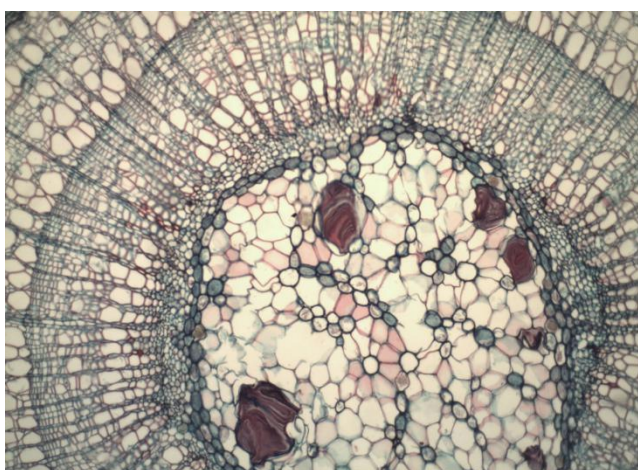
These microscopes are ideally suited for school biological education and medical analyses area. They can be widely used in clinics, hospitals, schools, academic labs and scientific research department.

### Specification

Item	Specification	BS-2020MD	BS-2020BD	
Viewing Head	Monocular Head with digital camera, Inclined at 30°, 360° Rotatable	●		
	Seidentopf Binocular Head with digital camera, Inclined at 30°, 360° Rotatable, Interpupillary Distance 48-75mm		●	
	Camera System	Resolution	1280×1024 (1.3Mega Pixel)	●
		Output Mode	USB2.0	●
		Operation System	Window 2000/ XP/ Vista/ Win 7	●
		Software	ScopelImage 9.0	●
Range of Viewing Field	90%	●		
Eyepiece	WF10×/18mm	●	●	
	WF16×/11mm, WF25×/8mm	○	○	
Nosepiece	Backward Quadruple Nosepiece	●	●	
Objective	Achromatic Objective 4×, 10×, 40×, 100×	●	●	
	Achromatic Objective 20×, 60×	○	○	
Stage	Double Layers Mechanical Stage 132×142mm/ 75×40mm	●	●	
Condenser	Abbe NA1.20 with Iris Diaphragm & Fliter	●	●	
Focusing	Coaxial Coarse & Fine Adjustment, Fine Division 0.004mm, Coarse Stroke 32.7mm per Rotation, Fine Stroke 0.4mm per Rotation, Moving Range 24mm	●	●	
Illumination	1W S-LED illumination, Brightness Adjustable	●	●	
	Halogen Lamp 6V/ 20W, Brightness Adjustable	○	○	
Optional accessories	Phase Contrast Kit	○	○	
	Dark-Field Attachment	○	○	
	Polarization Attachment	○	○	
	Rechargeable battery	○	○	
Package	1pcs/carton, 39.5cm*26.5cm*50cm, 8kg	●	●	

Note: ● Standard Outfit, ○ Optional

### Sample Image





## 7. BS-2022 Biological Microscope



BS-2022B



BS-2022T



BS-2022BD

### Introduction

BS-2022 series microscopes are economic, practical and easy to operate. These microscopes adopt LED illumination, which save energy and have long working life, it is also very comfortable for observation. These microscopes are widely used in educational, academic, agricultural and study field. With a microscope adapter, a digital camera (or digital eyepiece) can be plug into the trinocular tube or the eyepiece tube. Rechargeable battery is optional for outdoors operation or places that power supply is not stable.

### Feature

1. New machining facility and advanced alignment technology;
2. Comfortable operation with updated and ergonomic design;
3. LED light illumination, save energy and long working life;
4. Compact and flexible, ideally suited for desktop, laboratory worktable;
5. Eyepoint height and interpupillary distance can be adjusted to fit for observation.

### Application

BS-2022 series microscopes are ideally suited for school biological education and medical analyses area to observe all kinds of slides. They can be widely used in clinics, hospitals, schools, academic labs and scientific research department.

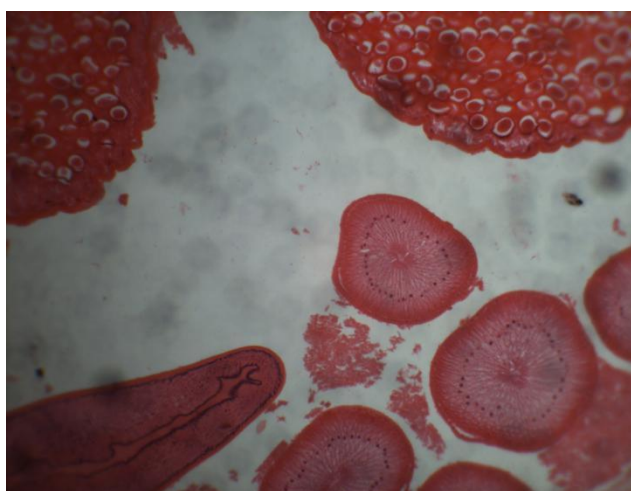
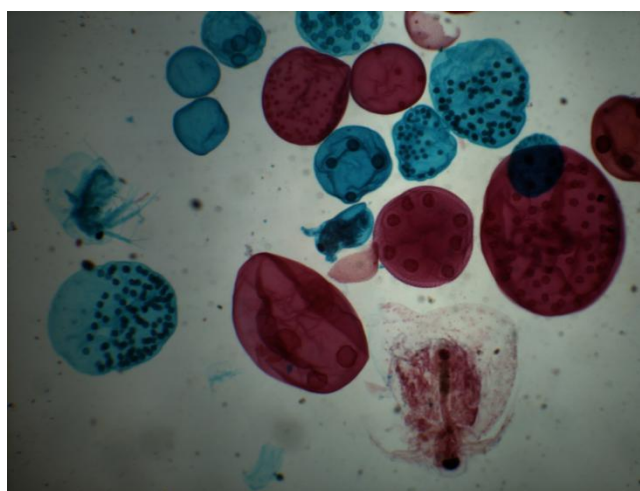
### Specification

Item	Specification	BS-2022M	BS-2022B	BS-2022T	BS-2022BD
Viewing Head	Seidentopf Monocular Head, Inclined at 30°, 360° Rotatable	•			
	Seidentopf Binocular Head, Inclined at 30°, 360° Rotatable, Interpupillary Distance 48-75mm,		•		
	Seidentopf Trinocular Head, Inclined at 30°, 360° Rotatable, Interpupillary Distance 48-75mm			•	

	Seidentopf Binocular Head with 3.2MP digital camera, Inclined at 30°, 360° Rotatable, Interpupillary Distance 48-75mm, the software is ScopeImage 9.0				●
Eyepiece	WF10×/18mm	●	●	●	●
	WF16×/11mm	○	○	○	○
Objective	Achromatic Objective 4×, 10×, 40×, 100×(Oil)	●	●	●	●
	Plan Achromatic Objective 4×, 10×, 40×, 100×(Oil)	○	○	○	○
	Infinite Plan Achromatic Objective 4×, 10×, 20×, 40×, 60×, 100×(Oil)	○	○	○	○
Nosepiece	Backward Quadruple Nosepiece	●	●	●	●
Stage	Double Layer Mechanical Stage 132×142mm/ 75×40mm	●	●	●	●
Focusing	Coaxial Coarse & Fine Adjustment, Fine Division 0.002mm, Coarse Stroke 37.7mm per Rotation, Fine Stroke 0.2mm per Rotation, Moving Range 20mm	●	●	●	●
Condenser	Abbe NA 1.25 with Iris Diaphragm and Filter	●	●	●	●
Illumination	1W S-LED illumination, Brightness Adjustable	●	●	●	●
	12V/ 20W Halogen Lamp, Brightness Adjustable	○	○	○	○
	Kohler illumination	○	○	○	○
Optional Accessories	Phase Contrast Kit	○	○	○	○
	Dark Field Attachment	○	○	○	○
	Polarization Attachment	○	○	○	○
	Rechargeable battery	○	○	○	○
	Photo Adapter: used for Nikon or Canon DSLR camera	○	○	○	○
	Video Adapter: 1X or 0.5X C-mount adapter	○	○	○	○
Package	1pc/carton, 32cm*26cm*44cm, 6kg	●	●	●	●

Note: ● Standard Outfit, ○ Optional

### Sample Images



## 8. BS-2023 Biological Microscope



BS-2023B



BS-2023T

### Introduction

BS-2023 series microscopes are economic, practical and easy to operate. These microscopes adopt LED illumination, which save energy and have long working life, it is also very comfortable for observation. These microscopes are widely used in educational, academic, agricultural and study field. With a microscope adapter, a digital camera (or digital eyepiece) can be plug into the trinocular tube or the eyepiece tube. Rechargeable battery is optional for outdoors operation or places that power supply is not stable.

### Feature

1. Infinite optical system.
2. New machining facility and advanced alignment technology.
3. Comfortable operation with updated and ergonomic design.
4. LED light illumination, save energy and long working life.
5. Compact and flexible, ideally suited for desktop, laboratory worktable.
6. Eyepoint height and interpupillary distance can be adjusted to fit for observation.

### Application

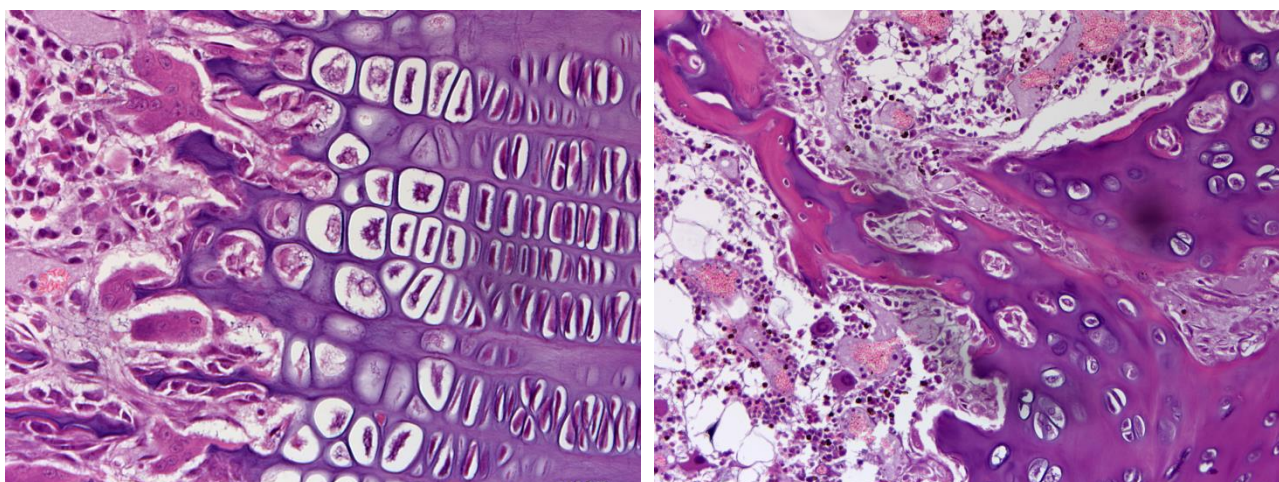
BS-2023 series microscopes are ideally suited for school biological education and medical analyses area to observe all kinds of slides. They can be widely used in clinics, hospitals, schools, academic labs and scientific research department.

## Specification

Item	Specification	BS-2023B	BS-2023T
Optical System	Infinite Optical System	●	●
Viewing Head	Seidentopf Binocular Head, Inclined at 30°, 360° Rotatable, Interpupillary Distance 48-75mm,	●	
	Seidentopf Trinocular Head, Inclined at 30°, 360° Rotatable, Interpupillary Distance 48-75mm		●
Eyepiece	WF10×/18mm	●	●
Objective	Infinite Plan Achromatic Objective 4×, 10×, 40×, 100×(Oil)	●	●
	Infinite Plan Achromatic Objective 20×, 60×	○	○
Nosepiece	Quadruple Nosepiece	●	●
Stage	Double Layer Mechanical Stage 132×142mm/ 75×40mm	●	●
Focusing	Coaxial Coarse & Fine Adjustment, Fine Division 0.002mm, Coarse Stroke 37.7mm per Rotation, Fine Stroke 0.2mm per Rotation, Moving Range 20mm	●	●
Condenser	Abbe NA 1.25 with Iris Diaphragm	●	●
Illumination	1W S-LED illumination, Brightness Adjustable	●	●
	12V/ 20W Halogen Lamp, Brightness Adjustable	○	○
	Kohler illumination	○	○
Optional Accessories	Phase Contrast Kit	○	○
	Dark Field Condenser	○	○
	Polarization Attachment	○	○
	Rechargeable battery	○	○
	Photo adapter for Nikon or Canon DSLR camera	○	○
	Video adapter: 1X or 0.5X C-mount adapter	○	○
Package	1pc/carton, 32cm*26cm*44cm, 6kg	●	●

Note: ● Standard Outfit, ○ Optional

## Sample Images





## 9. BS-2025 Biological Microscope



BS-2025M



BS-2025B



BS-2025T

### Introduction

BS-2025 series microscopes are economic, practical and easy to operate. These microscopes adopt LED illumination, which saves energy and have long working life, it is also very comfortable for observation. These microscopes are widely used in educational, academic, agricultural and study field. Rechargeable battery is optional for outdoors operation or places that power supply is not stable.

### Feature

1. New machining facility and advanced alignment technology.
2. Comfortable operation with ergonomic design.
3. LED light illumination, save energy and long working life.
4. Compact and flexible, ideally suited for desktop, laboratory worktable.

### Application

BS-2025 series microscopes are ideally suited for school biological education and medical analyses area to observe all kinds of slides. They can be widely used in schools, clinics, hospitals, academic labs and scientific research department.

### Specification

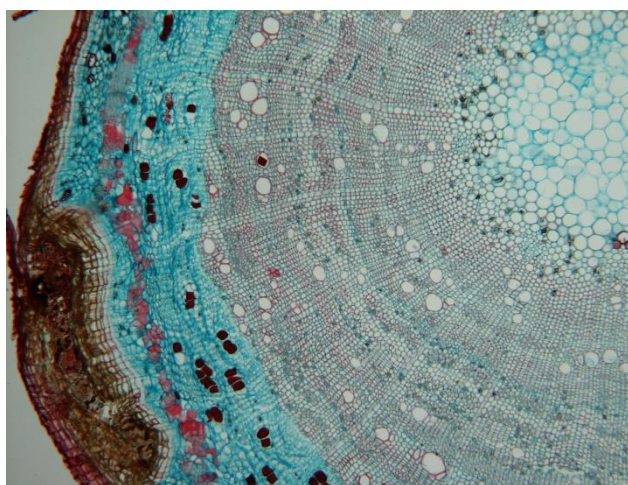
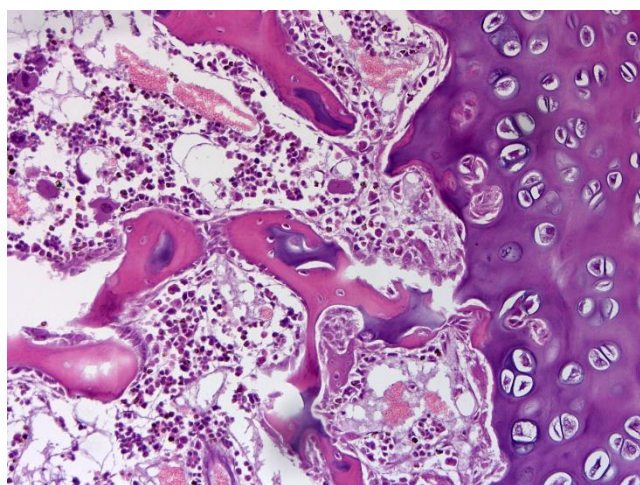
Item	Specification	BS-2025M	BS-2025B	BS-2025T
Optical System	Finite Optical System	●	●	●
Viewing Head	Seidentopf Monocular Head, Inclined at 30°, 360° Rotatable	●		
	Seidentopf Binocular Head, Inclined at 30°, 360° Rotatable, Interpupillary Distance 48-75mm,		●	
	Seidentopf Trinocular Head, Inclined at 30°, 360° Rotatable, Interpupillary Distance 48-75mm, Light Distribution 20:80			●
Eyepiece	WF10×/18mm	●	●	●
	WF16×/13mm	○	○	○
Objective	Achromatic Objective 4×, 10×, 40×(S), 100×(Oil)(S)	●	●	●



	Achromatic Objective 20x, 60x(S)	○	○	○
	Plan Achromatic Objective 4x, 10x, 40x, 100x(Oil)	○	○	○
Nosepiece	Quadruple Nosepiece	●	●	●
Stage	Double Layer Mechanical Stage 125x115mm/ 75x35mm	●	●	●
Focusing	Coaxial Coarse & Fine Adjustment, Fine Division 0.002mm, Moving Range 22mm	●	●	●
Condenser	Abbe NA 1.25 with Iris Diaphragm	●	●	●
Illumination	3W LED illumination, Brightness Adjustable	●	●	●
	3W LED illumination with rechargeable battery, Brightness Adjustable	○	○	○
	12V/20W Halogen Lamp, Wide Voltage: 100V-240V, Brightness Adjustable	○	○	○
Mirror	Plano-concave mirror	○	○	○
Polarizing Kit	Analyzer and Polarizer	○	○	○
Dark Field Kit	Dry Dark Field ring for 4x-40x objective	○	○	○
C-mount	1x C-mount(not Adjustable)			○
Adapter	0.5x C-mount(Adjustable)			●
Package	1pc/carton, 34cm*25cm*42cm, GW:6.5kgs, NW: 5kgs	●	●	●

Note: ● Standard Outfit, ○ Optional

### Sample Images



## 10. BS-2030 Biological Microscope



BS-2030B



BS-2030T



BS-2030BD

### Introduction

With precision machining equipment and advanced alignment technology, BS-2030 series microscopes are classical biological microscopes. These microscopes are widely used in educational, academic, agricultural and study field. With a microscope adapter, a digital camera (or digital eyepiece) can be plug in to the trinocular tube or the eyepiece tube. Rechargeable battery(only for LED illumination) is optional for outdoors operation or places that power supply is not stable.

### Feature

1. New machining facility and advanced alignment technology.
2. Comfortable operation with updated and ergonomic design;
3. Compact and flexible, ideally suited for desktop, laboratory worktable;
4. Interpupillary distance can be adjusted to fit for observation;
5. Support Windows Vista / Win 7 / Win8 / Win 10 / Mac Operation System. The software can preview, take photos and video, do image processing and measurement;
6. Support Multi-language (Arabic, Chinese, English, French, German, Japanese, Polish etc.).

### Application

This binocular microscope is an ideal instrument in biological, histological, pathological field and can be widely used in medical and sanitary establishments, laboratories, institutes, academic laboratories, colleges and universities.

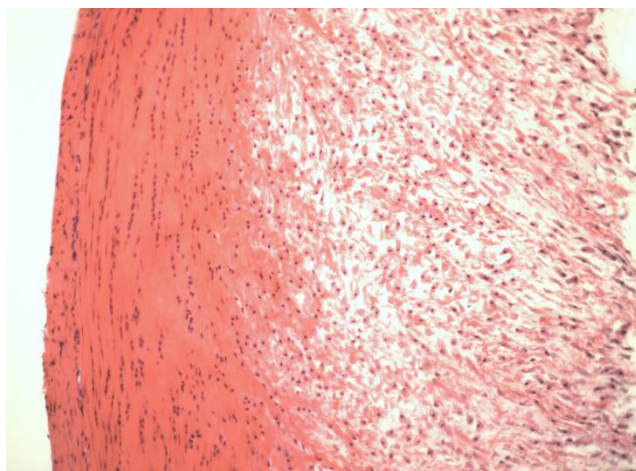
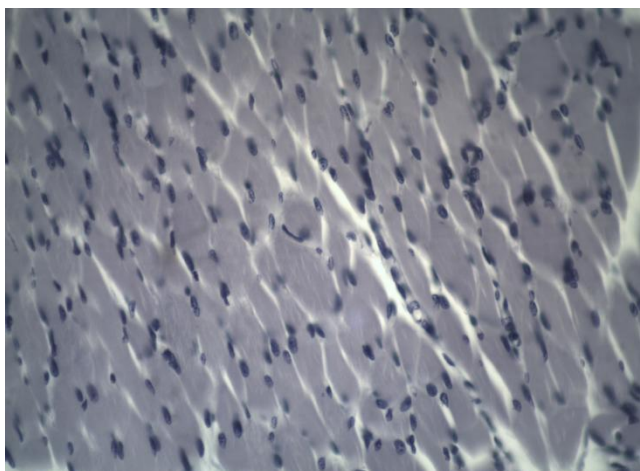
### Specification

Item	Specification	BS-2030M	BS-2030B	BS-2030T	BS-2030BD
Viewing Head	Monocular Head Inclined at 45°, 360° Rotatable	•			

	Sliding Binocular Head Inclined at 45°, 360° Rotatable; interpupillary distance 55-75mm.		●		
	Sliding Trinocular Head, inclined at 45° and 360° Rotatable, interpupillary distance 55-75mm			●	
	Seidentopf Binocular Head Inclined at 45°, 360° Rotatable; interpupillary distance 48-75mm.		○		
	Sliding Binocular Head with 1.3MP digital camera, Inclined at 45°, 360° Rotatable; interpupillary distance 55-75mm.				●
	Anti-mould.	○	○	○	○
Eyepiece	Wide Field Eyepiece WF10×/ 18mm	●	●	●	●
	Wide Field Eyepiece WF16×/ 11mm	○	○	○	○
Nosepiece	Quadruple Nosepiece	●	●	●	●
	Quintuple Nosepiece	○	○	○	○
Objective	Achromatic Objective 4×, 10×, 40×, 100×	●	●	●	●
	Achromatic Objective 20×, 60×	○	○	○	○
	Semi-Plan Achromatic Objective 4×, 10×, 20×, 40×, 60×, 100×	○	○	○	○
	Plan Achromatic Objective 4×, 10×, 20×, 40×, 60×, 100×	○	○	○	○
Total magnifications	With 10x eyepiece: 40×, 100×, 400×, 1000×	●	●	●	●
	With 16x eyepiece: 64×, 160×, 640×, 1600×	○	○	○	○
Stage	Double Layer Mechanical Stage 140×140mm/ 75×50mm	●	●	●	●
	Left hand operation Double Layer Mechanical Stage 140×140mm/ 75×50mm	○	○	○	○
Focus	Coaxial Coarse & Fine Adjustment, Fine Division 0.002mm, Coarse Stroke 37.7mm per Rotation, Fine Stroke 0.2mm per Rotation, Moving Range 28mm	●	●	●	●
Condenser	Abbe NA 1.25 with Iris Diaphragm & Filter	●	●	●	●
Illumination	1W S-LED Illumination, Brightness Adjustable	●	●	●	●
	6V/20W Halogen light, Brightness Adjustable	○	○	○	○
	Plan-concave Mirror	●	●	●	●
Body / Energy	Firm Aluminum Body and built in power supply 110-240V	●	●	●	●
Supplied with	Dust cover, immersion oil and user manual	●	●	●	●
Polarization Set	Simple Polarization Set	○	○	○	○
Phase Contrast Kit	Simple phase contrast kit	○	○	○	○
	Sliding phase contrast kit	○	○	○	○
	Turret phase contrast kit	○	○	○	○
Dark Field Attachment	Dark Field Attachment (Dry) NA0.9	○	○	○	○
	Dark Field Attachment (Oil) NA1.25-1.36	○	○	○	○
Fluorescent Attachment	YX-2B Fluorescent Attachment	○	○	○	○
Battery	Rechargeable battery (only for LED illumination)	○	○	○	○
Package	1pc/carton, 33cm×28cm×44cm×, 7kg	●	●	●	●

Note: ●Standard Outfit, ○ Optional

**Sample Image**





## 11. BS-2030F Fluorescent Biological Microscope



BS-2030FB



BS-2030FT

### Introduction

BS-2030F series fluorescent microscopes are basic level microscopes which are specially designed for college education, medical and laboratory study. They have beautiful structure and ergonomic design. The excellent optical performance will make your works enjoyable.

### Feature

1. Excellent fluorescent image with high resolution fluorescent objectives.
2. Protect the light leak with advanced lamp housing.
3. Perfect image with fluorescent objectives.
4. More stable power supply, digital display and timer.

### Application

BS-2030F series fluorescent microscopes are ideal instrument in biological, histological, pathological, bacteriology, immunizations and pharmacy field and can be widely used in medical and sanitary establishments, clinics, hospitals, laboratories, institutes, academic laboratories, colleges and universities.

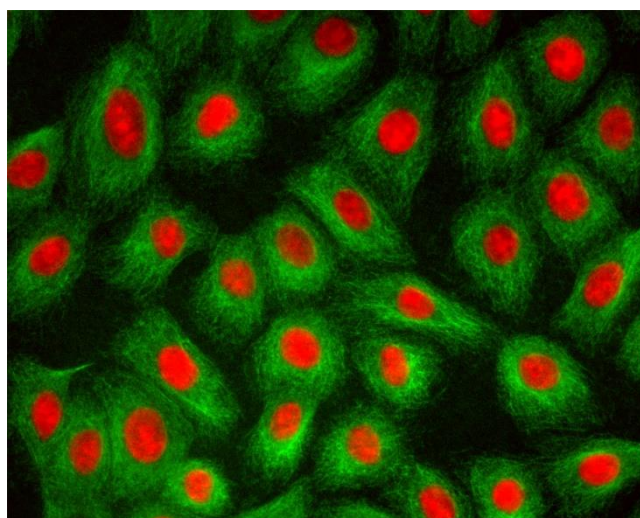
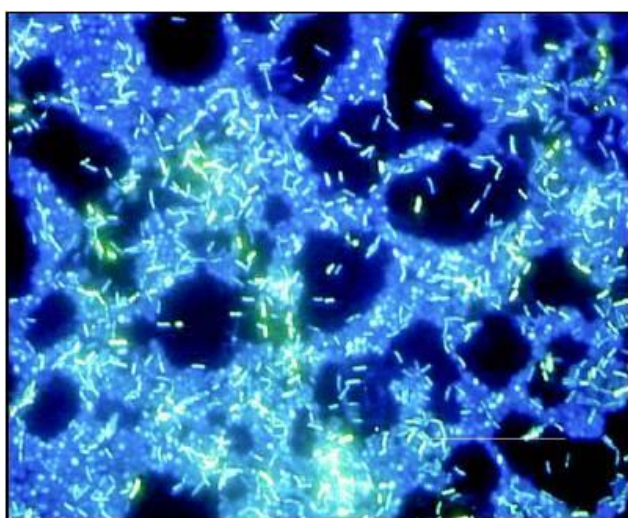
### Specification

Item	Specification	BS-2030FB	BS-2030FT
Viewing Head	Sliding Binocular Viewing Head, Inclined at 45°, 360° Rotatable, Interpupillary distance 55-75mm, Anti-mould	●	
	Sliding Trinocular Viewing Head, Inclined at 45°, 360° Rotatable, Interpupillary 55-75mm, Anti-mould		●
Eyepiece	Wide Field Eyepiece WF10×/18mm, Eyepiece Tube Diameter 23.2mm	●	●
	Wide Field Eyepiece WF16×/11mm	○	○

Objective	Achromatic Objective 4×, 10×, 40×, 100×			●	●	
	Fluorescent Achromatic Objective 4×, 10×, 40×, 100×			●	●	
	Achromatic Objective 20×, 60×			○	○	
	Plan Achromatic Objective 4×,10×,20×,40×, 60×, 100×			○	○	
Nosepiece	Quadruple Nosepiece			●	●	
	Quintuple Nosepiece			○	○	
Focusing	Coaxial Coarse & Fine Adjustment, Fine Division 0.002mm, Coarse Stroke 37.7mm per Rotation, Fine Stroke 0.2mm per Rotation, Moving Range 28mm			●	●	
Stage	Double Layer Mechanical Stage 140×140mm, Cross Travel 75×50mm, Can Hold Two Sides			●	●	
Condenser	Abbe Condenser NA1.25 with Iris Diaphragm & Filter			●	●	
Reflected Light Source		Excitation	Dichroic Mirror	Barrier Filter		
	Blue Excitation	BP460~490	DM500	BA520	●	●
	Green Excitation	BP510~550	DM570	BA590	●	●
	Ultraviolet Excitation	BP330~385	DM400	BA420	○	○
	Violet Excitation	BP400~410	DM455	BA455	○	○
Lamp	100W HBO Ultra Hi-voltage Spherical Mercury Lamp			●	●	
Power Box	Power box NFP-1, 220V/ 110V Interchangeable, Digital Display			●	●	
Transmitted Illumination	1W S-LED illumination, Brightness Adjustable			●	●	
	6V/20W Halogen Lamp, Brightness Adjustable			○	○	
	Plan-concave Mirror			○	○	
Optional Accessories	Photo Attachment, Video Attachment, Polarization Set, Phase Contrast Kit, Dark Field Attachment			○	○	
Package	2cartons/set, 33cm*28cm*44cm, 7kg; 38*45*26cm, 5kg			●	●	

Note: ●Standard Outfit, ○Optional

## Sample Image



## 12. BS-2035 Biological Microscope



BS-2035B



BS-2035T

### Introduction

BS-2035 series microscopes are classical biological microscopes, which feature ingenious stand, backward nosepiece and flexible structure. Nice shape, excellent optical system and flexible outfit make you enjoy the job.

### Feature

1. Convenient and Comfortable Observing with High Point and Wide Field Eyepiece EW10×/ 20mm.
2. Sharp and Bright Image with Semi-plan Objectives.
3. Suitable for Different Region Power, supply with 100V-240V wide range input voltage.

### Application

BS-2035 series microscopes are ideal instrument for biology field, bacteriology field, immunology field, pharmacology field and so on. They widely used in academic, medical and clinical areas for biological, pathological, bacterial, histological, immune and genetic applications.

### Specification

Item	Specification	BS-2035B	BS-2035T
Viewing Head	Seidentopf Binocular Head, Inclined at 30°, 360° Rotatable, interpupillary distance 55-75mm	●	
	Seidentopf Trinocular Head, Inclined at 30°, 360° Rotatable, interpupillary distance 55-75mm		●
Eyepiece	Wide Field Eyepiece EW10×/ 20mm	●	●
	Wide Field Eyepiece P16×/ 11mm	○	○
Objective	Semi-plan Achromatic Objective 4×, 10×, 40×, 100×	●	●
	Plan Achromatic Objective 4×, 10×, 20×, 40×, 60×, 100×	○	○
	Infinite Plan Achromatic Objective 4×, 10×, 20×, 40×, 60×, 100×	○	○
Nosepiece	Backward Quadruple Nosepiece	●	●
	Backward Quintuple Nosepiece	○	○
Stage	Double Layers Mechanical Stage 140×140mm/ 75×50mm	●	●
Focus	Coaxial Coarse & Fine Adjustment, Fine Division 0.002mm, Coarse Stroke	●	●

	37.7mm per Rotation, Fine Stroke 0.2mm per Rotation, Moving Range 20mm		
Condenser	NA 1.25 Abbe Condenser with Iris Diaphragm and Filter	●	●
Illumination	1W S-LED Illumination, Brightness Adjustable	●	●
	6V/ 20W Halogen Lamp, Brightness Adjustable	○	○
	Kohler Illumination	○	○
Photo Adapter	Used to connect Nikon or Olympus DSLR camera to microscope		○
Video Adapter	C-Mount 1× & 0.5×		○
Filter	Blue, Green Filter	●	●
Polarization Set	Simple Polarization Set	○	○
Phase Contrast Kit	Simple Phase Contrast Kit	○	○
	Sliding Phase Contrast Kit	○	○
	Turret Phase Contrast Kit	○	○
Dark Field Attachment	Dark Field Condenser (Dry) NA 0.7-0.9	○	○
	Dark Field Condenser (Oil) NA 1.25-1.36	○	○
Fluorescent Attachment	YX-2 Epi-fluorescent Attachment	○	○
Pointer	Green LED Pointer System	○	○
Dimension& G.W.	35cm*31cm*57cm, 9.5kg	●	●

Note: ●Standard Outfit, ○Optional

## Accessories



Epi-fluorescent Attachment

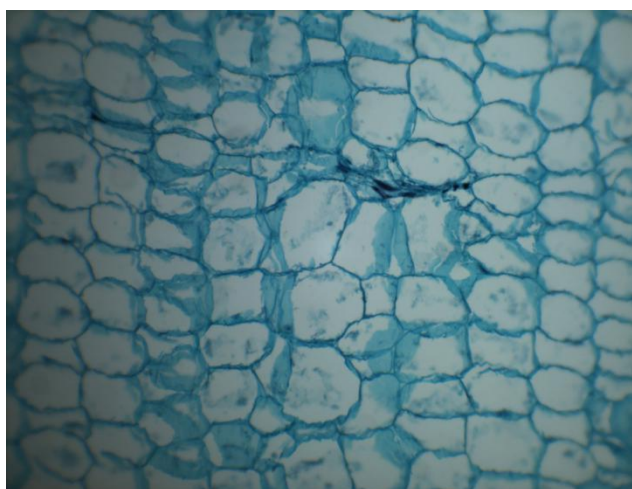
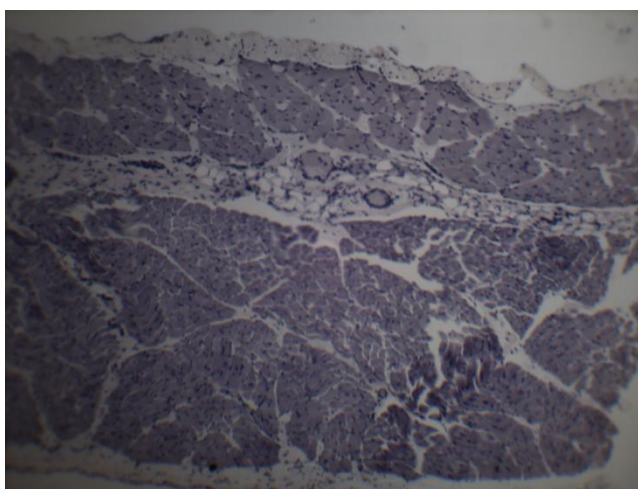


Turret Phase Contrast Kit



Dry, Oil Dark Field Condenser

## Sample Image





### 13. BS-2035DA Digital Microscope



BS-2035DA1



BS-2035DA2

#### Introduction

BS-2035DA series digital microscopes are classical, the microscopes feature ingenious stand, sharp image, comfortable operation and high-resolution camera, which make your work much enjoyable.

#### Feature

1. With built-in 1.3MP digital camera, 2.0MP, 3.2MP, 5.0MP cameras are optional.
2. Sharpe Image with Semi-plan Achromatic Objectives.
3. Easy to replace lamp.
4. Professional and powerful micro-image process and analysis software.

#### Application

BS-2035DA series digital microscopes are widely used in hospitals, clinics, medical academies, morphology and related research centers for biological, pathological, bacterial, histological, immune, pharmacological and genetic applications.

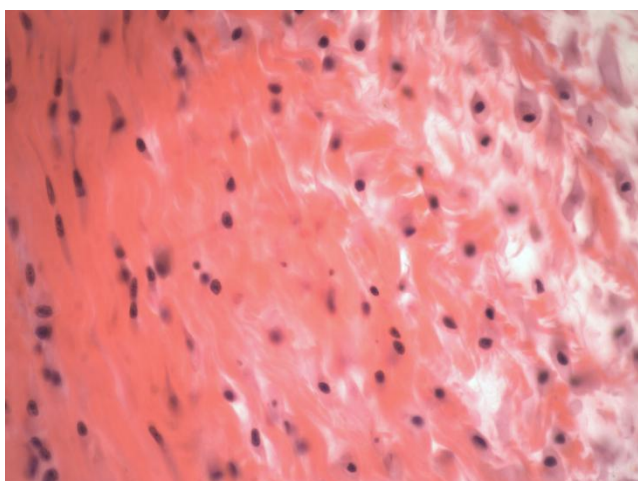
#### Specification

Item	Specification	BS-2035DA1	BS-2035DA2
Digital System	1.3MP CMOS digital camera with high-resolution, 1280×1024, USB2.0 output	●	●
	2.0MP CMOS digital camera with high-resolution, 1600×1200, USB2.0 output	○	○
	3.0MP CMOS digital camera with high-resolution, 2048×1536, USB2.0 output	○	○
	5.0MP CMOS digital camera with high-resolution, 2592×1944, USB2.0 output	○	○
Viewing Head	Seidentopf type Binocular Head at 30°, Interpupillary Distance 55-75mm	●	
	Seidentopf type Binocular Head at 30°, Interpupillary Distance 48-75mm		●
Eyepiece	Extra Wide Field EW10×/20mm	●	●
Nosepiece	Backward Quadruple Nosepiece	●	●
	Backward Quintuple Nosepiece	○	○

Objective	Semi-plan Achromatic Objective 4×, 10×, 40×, 100×	●	●
	Plan Achromatic Objective 4×, 10×, 20×, 40×, 60×, 100×	○	○
	Infinite Plan Achromatic Objective 4×, 10×, 20×, 40×, 60×, 100×	○	○
Condenser	NA1.25 Abbe Condenser with iris diaphragm and filter, rack & pinion adjustment	●	●
Stage	Double Layers Mechanical Stage 140×140mm/ 75×50mm	●	●
Illumination	1W S-LED Illumination, Brightness Adjustable	●	●
	6V/20W Halogen Lamp, Brightness Adjustable	○	○
	Kohler Illumination	○	○
Filter	Blue and Green Filter	●	●
Phase Contrast Kit	Turret Phase Contrast Kit	○	○
Polarization Set	Simple Polarization Attachment	○	○
Dark-field Attachment	Dark-field Condenser(Dry)	○	○
	Dark-field Condenser(Oil)	○	○
Pointer	LED Pointer	○	○
Software	ScopelImage 9.0	●	●

Note: ●Standard Outfit, ○Optional

### Sample Image



## 14. BS-2036 Biological Microscope



BS-2036A/B/C/D



BS-2036AT/BT/CT/DT

### Introduction

BS-2036 series microscopes are middle level microscopes which are specially designed for college education, medical and laboratory study. They adopt high quality optical system, beautiful structure and ergonomic design. With an innovative optical and structure design idea, excellent optical performance and easy to operate system, these biological microscopes make your works enjoyable.

### Feature

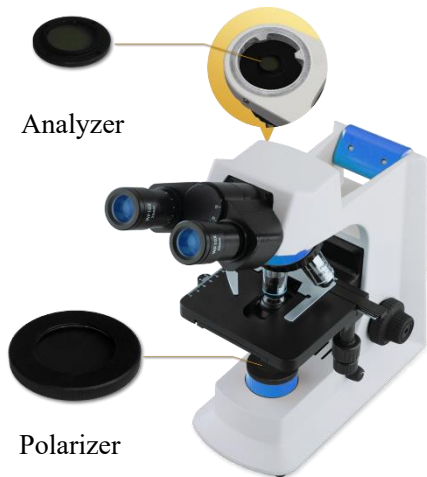
1. Excellent optical system, outstanding image quality with high resolution and definition.
  2. Comfortable operating with ergonomic design.
  3. Unique aspheric illumination system, provide bright and comfortable lighting.
  4. White color is standard, blue color is optional for lively environment and happy mood.
  5. Back handle and observing hole convenient for carry and operation.
  6. Various accessories for upgrading.
- (1) Wire winding device convenient for carry and storage (optional).



- (2) Phase contrast unit, Independent phase contrast unit (optional, apply to infinite optical system).



(3) Simple polarizing unit with polarizer and analyzer (optional).



(4) Dry / Oil Dark Field Condenser (optional).



Dry DF Condenser



Oil DF Condenser

(5) Mirror(optional).



(6) Fluorescent attachment(optional, with LED or mercury light source)



BS-2036FB(LED)

BS-2036FB

## Application

BS-2036 series microscopes are ideal instrument in biological, histological, pathological, bacteriology, immunizations and pharmacy field and can be widely used in medical and sanitary establishments, laboratories, institutes, academic laboratories, colleges and universities.

## Specification

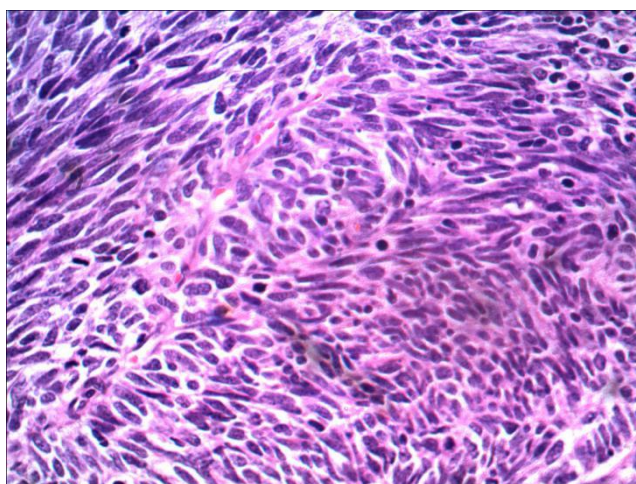
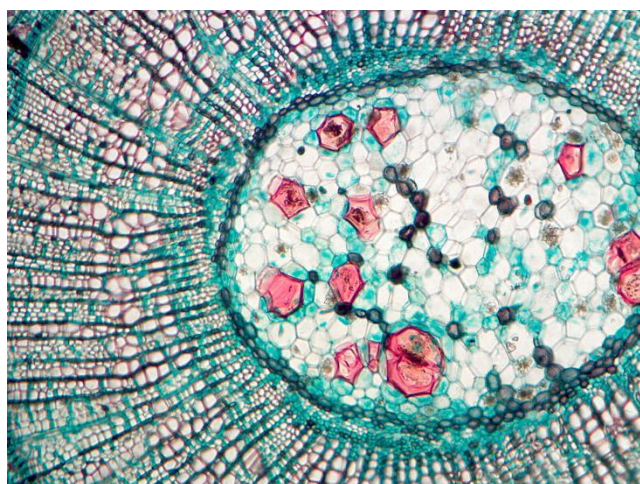
Item	Specification	BS-2036A	BS-2036B	BS-2036C	BS-2036D
Optical System	Finite Optical System	●	●		
	Infinite Optical System			●	●
Viewing Head	Seidentopf Binocular Viewing Head, Inclined at 30°, 360° Rotatable, Interpupillary 48-75mm	●	●	●	●
	Seidentopf Trinocular Viewing Head, Inclined at 30°, 360° Rotatable, Interpupillary 48-75mm, Light Distribution: 20:80 (eyepiece: trinocular tube)	○	○	○	○
Eyepiece	WF10×/18mm	●			
	WF10×/20mm		●	●	●
	WF16×/13mm	○	○	○	○
	Reticule Eyepiece WF10×/18mm (0.1mm)	○	○	○	○
	Reticule Eyepiece WF10×/20mm (0.1mm)		○	○	○
Achromatic Objective	4×, 10×, 40×(S), 100×/1.25 (Oil) (S)	●			
	20×, 60× (S)	○			
Plan Achromatic Objective	4×, 10×, 40×/0.65 (S), 100×/1.25 (Oil) (S)		●		
	20×, 60× (S)		○		
Infinite Achromatic Objective	E-Plan 4×, 10×, 40× (S), 100× (Oil) (S)			●	
	Plan 4×, 10×, 40× (S), 100× (Oil) (S)			○	●
	Plan 20×, 60× (S)			○	○
Nosepiece	Backward Quadruple Nosepiece	●	●	●	●
	Backward Quintuple Nosepiece	○	○	○	○
Focusing	Coaxial Coarse & Fine Focusing knobs, Travel Range: 26mm, Scale:2um	●	●	●	●
Stage	Double Layers Mechanical Stage, Size: 145×140mm, Cross Travel 76×52mm, Scale 0.1mm, Two Slide Holder	●	●	●	●
	Rackless Double Layers Mechanical Stage, Size: 140×135mm, Cross Travel 75×35mm, Scale 0.1mm, Two Slide Holder	○	○	○	○
Condenser	Abbe Condenser NA1.25 with Iris Diaphragm	●	●	●	●
Illumination	3W LED Illumination Systems, Brightness Adjustable	●	●	●	●
	6V/20W Halogen Lamp, Brightness Adjustable	○	○	○	○
	6V/30W Halogen Lamp, Brightness Adjustable	○	○	○	○
Field Diaphragm		○	○	○	○
Dark Field Condenser	N.A.0.9 (Dry) Dark Field Condenser(For 10×-40× objective)	○	○	○	○



	N.A.1.3 (Oil) Dark Field Condenser(For 100× objective)	○	○	○	○
Polarizing Set	Analyzer and Polarizer	○	○	○	○
Phase contrast unit	With Infinite Plan Objectives 10× /20× /40× /100×			○	○
Fluorescence Attachment	Epi-fluorescence unit ( six-hole disc media which can be fixed with Uv /V/B/G and another filters) ,100W mercury lamp.			○	○
	Epi fluorescence unit ( six-hole disc media which can be fixed with Uv /V/B/G), 5W LED fluorescence lamp.			○	○
Filter	Blue	○	○	○	○
	Green	○	○	○	○
	Yellow	○	○	○	○
Photo Adapter	Used to Connect Nikon/Canon/Sony/Olympus DSLR camera to the microscope	○	○	○	○
Video Adapter	0.5X C-Mount (Focus adjustable)	○	○	○	○
	1X C-Mount	○	○	○	○
Mirror	Reflect Mirror	○	○	○	○
Cable Winding Device	Used to wind cable on back of the microscope	○	○	○	○
Rechargeable Battery	3pcs AA rechargeable Nickel-metal hydride battery	○	○	○	○
Package	1pc/carton, 42cm*28cm*45cm, Gross Weight 8kg, Net Weight 6.5kg	○	○	○	○

Note: ●Standard Outfit, ○Optional

## Sample Images





## 15. BS-2036F(LED) Fluorescent Biological Microscope



### Introduction

BS-2036F(LED) Series LED fluorescence microscopes are newly developed microscopes, the microscopes use LED as the light source, the life span of the LED lamp is much longer than mercury lamp. It has 6 turret positions for filter cubes, more filter cubes can be used together.

### Features

1. Excellent fluorescent image with infinite optical system.
2. LED illumination with 50,000 hours life span.
3. Convenient to use, no need warm-up.
4. No need for cooling due to LED cold light source.
5. 6 positions for filter cubes.

### Application

BS-2036F(LED) series LED Fluorescence microscopes are used to study the absorbing, transportation, chemicals distribution and positioning in cells. They are widely used in disease examination, immune diagnosis and life science areas.

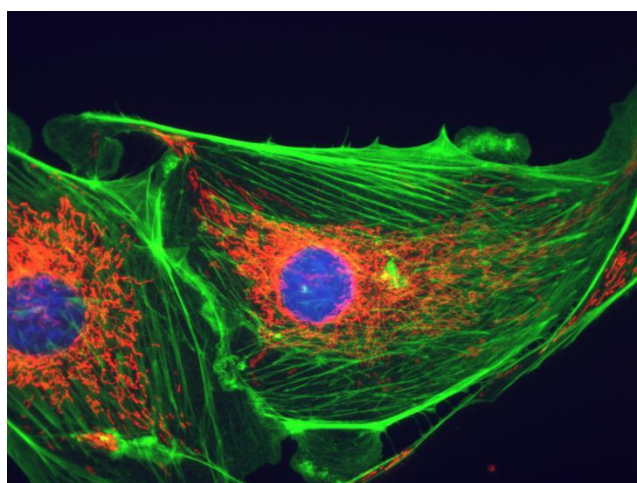
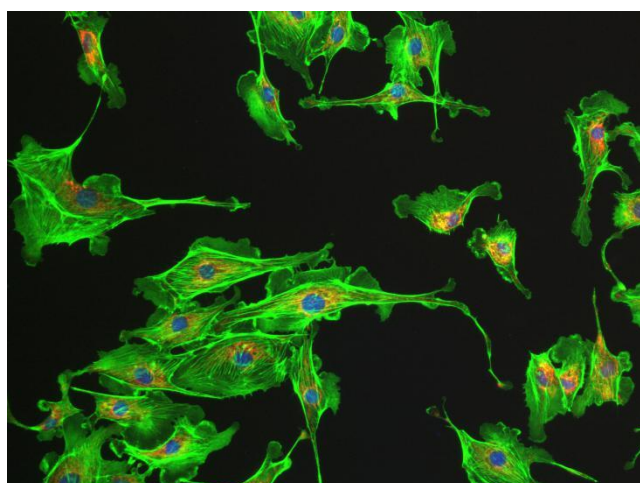
### Specifications

Item	Specification	BS-2036 FB(LED)	BS-2036 FT(LED)
Optical System	Infinite Optical System	•	•
Viewing Head	Seidentopf Binocular Viewing Head, Inclined at 30°, 360° Rotatable, Interpupillary 48-75mm	•	
	Seidentopf Trinocular Viewing Head, Inclined at 30°, 360° Rotatable, Interpupillary 48-75mm, Light Distribution: 20:80 (eyepiece: trinocular tube)		•

Eyepiece	WF10×/20mm				●	●
	WF16×/13mm				○	○
	Reticule Eyepiece WF10×/20mm (0.1mm)				○	○
Objective	Infinite E-Plan Achromatic Objective 4×, 10×, 40×, 100×(Oil)				●	●
	Infinite Plan Achromatic Objective 4×, 10×, 20×, 40× (S), 60× (S), 100× (Oil) (S)				○	○
Nosepiece	Backward Quadruple Nosepiece				●	●
	Backward Quintuple Nosepiece				○	○
Focusing	Coaxial Coarse & Fine Focusing knobs, Travel Range: 26mm, Scale:2um				●	●
Stage	Stage Size: 145×140mm, Cross Travel 76×52mm, Two Slide Holder				●	●
	Rackless Double Layers Mechanical Stage, Size: 140×135mm, Cross Travel 75×35mm, Scale 0.1mm, Two Slide Holder				○	○
Condenser	Abbe Condenser NA1.25 with Iris Diaphragm				●	●
Transmitted Illumination	3W-LED Illumination Systems, Brightness Adjustable				●	●
	6V/20W Halogen Lamp, Brightness Adjustable					
	6V/30W Halogen Lamp, Brightness Adjustable				○	○
Optional Accessories	Field Diaphragm, Photo adapters(for DSLR cameras), Video adapters(1X, 0.5X), Polarization set, Phase contrast kit, filters, mirror, Cable Winding Device				○	○
Reflected Light Source		Excitation	Dichroic Mirror	Barrier Filter		
	Blue excitation	420-490	505	520	●	●
	Green excitation	500-550	575	590	●	●
	Uv excitation	330-380	400	435	○	○
	V excitation	380-420	430	460	○	○
Fluorescent Lamp	5W LED Lamp				●	●
Package	42cm*28cm*45cm, 40cm*20cm*40cm, 12kg				●	●

Note: ●Standard Outfit, ○Optional

## Sample Images



## 16. BS-2038 Series Biological Microscope



BS-2038B1/B2



BS-2038T1/T2

### Introduction

BS-2038 series microscopes are specially designed for college education, medical and laboratory study. They adopt Infinite optical system, beautiful structure and ergonomic design. With an innovative optical and structure design, excellent optical performance and easy to operate system, these biological microscopes make your works enjoyable.

### Feature

1. Excellent infinite optical system with High resolution and perfect definition.
2. Comfortable operating with ergonomic design.
3. 100X water objective is available for convenient viewing.
4. Unique LED illumination system, provide bright and comfortable lighting.
5. Winding device for cable, easy to move and storage.
6. Various accessories for upgrading.



Wire Winding Device



Rackless(Integrated) Stage



100× Water objective



Simple polarizing unit  
Polarizer & analyzer



Dark filed unit available  
for 4×- 60× objective

## Application

BS-2038 series microscopes are ideal instrument in biological, histological, pathological, bacteriology, immunizations and pharmacy field and can be widely used in medical and sanitary establishments, laboratories, institutes, academic laboratories, colleges and universities.

## Specification

Item	Specification	BS-2038B1	BS-2038B2
Optical System	Color Corrected Infinite Optical System	●	●
Viewing Head	Seidentopf Binocular Head, Inclined 30°, Rotatable 360°, Interpupillary Distance: 48-75mm	●	●
	Seidentopf Trinocular Head, Inclined 30°, Rotatable 360°, Interpupillary Distance: 48-75mm, Light Distribution: 20:80	○	○
Eyepiece	WF10×/20mm (High eyepoint)	●	●
	WF16×/13mm	○	○
	WF10X/20mm(High eyepoint, Focus non-adjustable, Reticule 0.1mm)	○	○
	WF10X/20mm(High eyepoint, Focus adjustable, Reticule 0.1mm)	○	○
Infinite Objective	E-Plan 4×/0.10	●	○
	E-Plan 10×/0.25	●	○
	E-Plan 40×/0.65(S)	●	○
	E-Plan100×/1.25(S, Oil)	●	○
	Plan 4×/0.10	○	●
	Plan 10×/0.25	○	●
	Plan 20×/0.40(S)	○	○
	Plan 40×/0.66(S)	○	●
	Plan 60×/0.80(S)	○	○
	Plan 100×/1.25(S, Oil)	○	●
	Plan 100×/1.15(S, Water)	○	○
Nosepiece	Backward Quadruple Nosepiece	●	●
Mechanical Stage	Size 145mm×140mm, Travel Range:76mm×52mm, Scale: 0.1mm, Two Slide Holder	●	●
	Rackless(integrated) Stage, Size 140mm×135mm, Travel Range: 75mm×35mm, Scale: 0.1mm, Two Slide Holder	○	○
Abbe Condenser	N.A.1.25, With iris Diaphragm	●	●
Focusing	Coaxial Coarse and Fine Focusing Knob, Coarse Focusing Travel Range: 25mm, Fine division: 2μm	●	●
Illumination	3W LED Illumination, Voltage: 100V-240V	●	●
Dark Field Unit	Dark Field Ring (Dry, N.A.0.9), used for 4X, 10X, 20X, 40X, 60X objective	○	○
Polarizing Unit	Analyzer, Polarizer	○	○
C-mount	1× C-mount	○	○

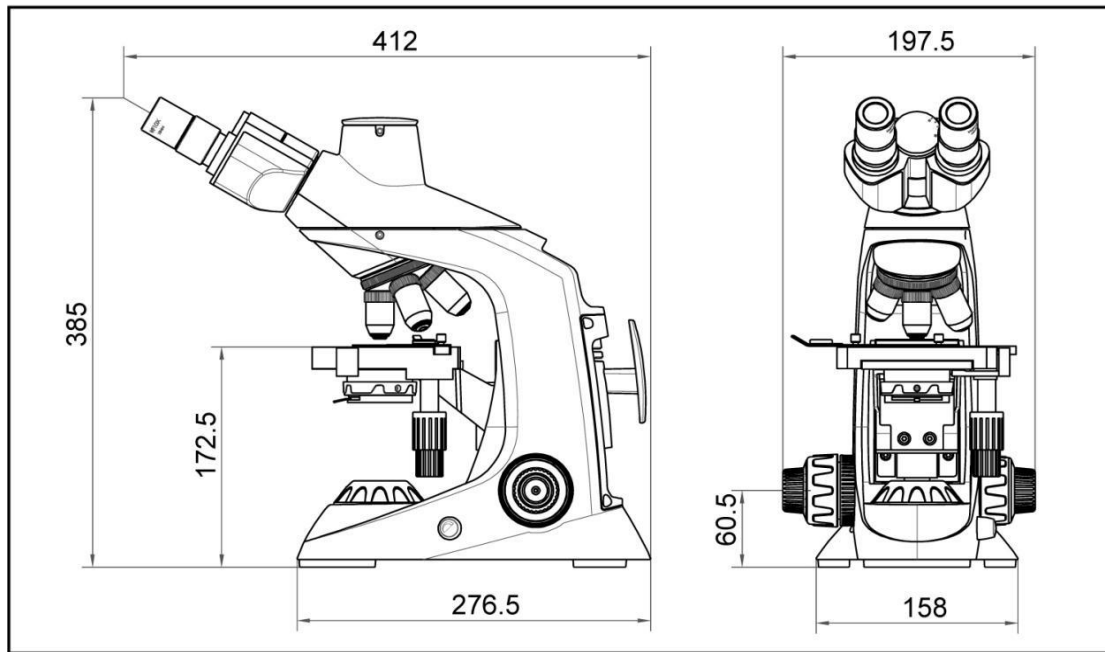
	0.5× C-mount (Focus adjustable)	○	○
Wire Winding Device	Wind cable on back of the microscope	●	●
Filter	Blue/ Green/ Yellow	○	○

Note: ●Standard Outfit, ○Optional

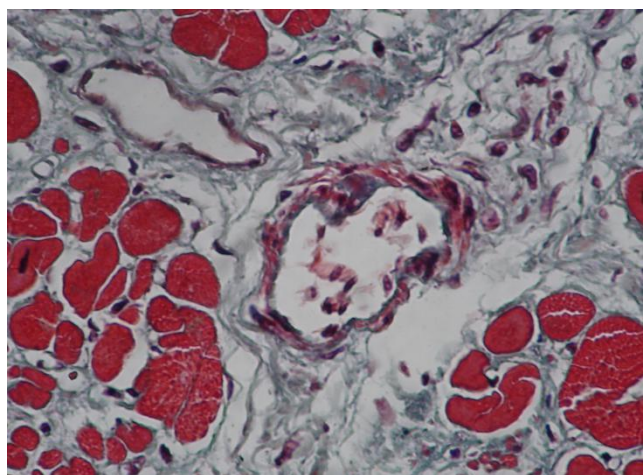
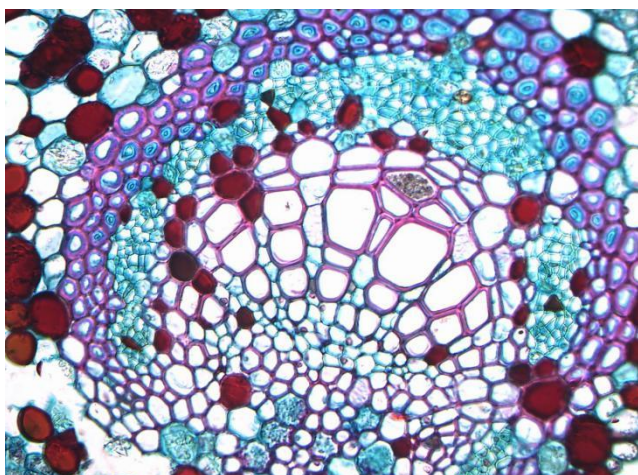
Packing Size: 350mm×270mm×470mm, Gross Weight: 6.7 kgs, Net Weight: 5.3 kgs

### Dimension

Unit: mm



### Sample Image





## 17. BS-2040 Biological Microscope



BS-2040B



BS-2040T



BS-2040BD

### Introduction

BS-2040 series microscopes are classical biological microscopes with ingenious stand, high definition infinite optical system, sharp image and comfortable operation, which make your work much enjoyable.

### Feature

1. Infinite Optical System.
2. Extra Wide Field Eyepiece EW10×/20 with Diopter Adjustment is optional.
3. Sliding-in Centerable Condenser.
4. Easy carrying Handle.
5. BS-2040BD support Multi-language (Arabic, Chinese, English, French, German, Japanese, Polish).
6. BS-2040BD support Windows Vista / Win 7 / Win8 / Win 10 Operation System. The software can preview, take photos and video, do image processing and measurement.

### Application

BS-2040 series microscopes are ideal instruments in biological, pathological, histological, bacterial, immune, pharmacological and genetic fields. They can be widely used in medical and sanitary establishments, such as hospitals, clinics, laboratories, medical academies, colleges, universities and related research centers.

### Specification

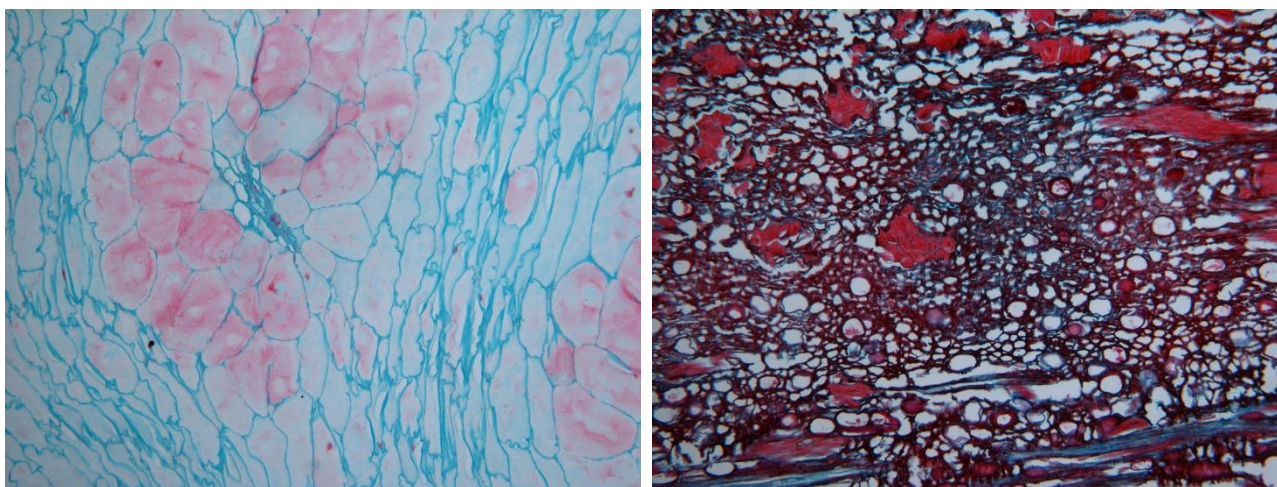
Item	Specification	BS-2040B	BS-2040T	BS-2040BD
Optical System	Infinite Optical System	●	●	●
Viewing Head	Seidentopf binocular head, 30° inclined, Interpupillary 48-75mm	●		
	Seidentopf trinocular head, 30° inclined, Interpupillary 48-75mm		●	
	Built-in 3.0MP digital camera with ScopelImage 9.0 Software; Binocular Head, Inclined at 30°, Interpupillary Distance 48-75mm			●
Eyepiece	Wide Field Eyepiece WF 10×/18mm	●	●	●
	Extra Wide Field Eyepiece EW10×/20 with Diopter Adjustment	○	○	○



Objective	Infinite Semi-plan Achromatic Objectives 4×, 10×, 40×, 100×	●	●	●
	Infinite Plan Achromatic Objectives 2×, 4×, 10×, 20×, 40×, 60×, 100×	○	○	○
Nosepiece	Backward Quadruple Nosepiece	●	●	●
	Backward Quintuple Nosepiece	○	○	○
Stage	Double Layers Mechanical Stage 140mm×140mm/ 75mm×50mm	●	●	●
	Left hand operation Double Layers Mechanical Stage 140mm×140mm/ 75mm×50mm	○	○	○
Condenser	Sliding-in Centerable Condenser NA1.25	●	●	●
Focusing	Coaxial Coarse & Fine Adjustment, Fine Division 0.002mm, Coarse Stroke 37.7mm per Rotation, Fine Stroke 0.2mm per Rotation, Moving Range 20mm	●	●	●
Illumination	1W S-LED Lamp, Brightness Adjustable	●	●	●
	6V/20W Halogen Lamp, Brightness Adjustable	○	○	○
Optional accessories	Phase Contrast Kit	○	○	○
	Dark Field Attachment	○	○	○
	YX-2 Epi-fluorescent Attachment	○	○	○
	FL-LED Epi-fluorescent Attachment	○	○	○
Package	1pc/carton, 35cm*35.5cm*55.5cm, gross weight: 12kg	●	●	●

Note: ● Standard Outfit, ○ Optional

## Sample Image



## 18. BS-2040F(LED) Fluorescent Biological Microscope



BS-2040FB(LED)



BS-2040FT(LED)

### Introduction

BS-2040F(LED) Series LED fluorescence microscopes are newly developed microscopes, the microscopes use LED as the light source, the life span of the LED lamp is much longer than mercury lamp, the performance is also better.

### Feature

1. Excellent fluorescent image with infinite optical system.
2. LED illumination with 50,000 hours life span.
3. No need for cooling system and protection device due to LED cold light source.
4. 465-476nm excited wavelength with high SNR.
5. Convenient to use, no need warm-up.
6. More fluorescent filters are available for different applications.

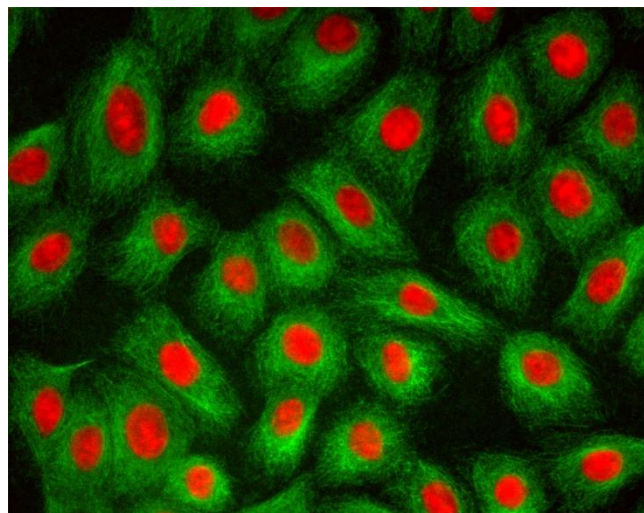
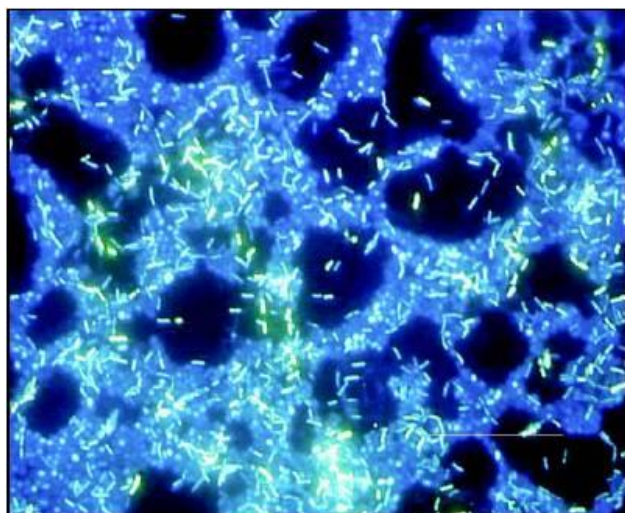
### Application

BS-2040F(LED) LED Fluorescence microscopes are used to study the absorbing, transportation, chemicals distribution and positioning in cells. They are widely used in laboratories, clinics, hospitals, medical colleagues and universities for disease examination, immune diagnosis and life science research.

**Specification**

Item	Specification	BS-2040 FB (LED)	BS-2040 FT (LED)		
Optical System	Infinite Optical System	●	●		
Viewing Head	Seidentopf Binocular Head, Inclined at 30°, Interpupillary 48-75mm	●			
	Seidentopf Trinocular Head, Inclined at 30°, Interpupillary 48-75mm		●		
Eyepiece	Wide Field Eyepiece WF10×/18mm	●	●		
Nosepiece	Backward Quadruple Nosepiece	●	●		
	Backward Quintuple Nosepiece	○	○		
Objective	Infinite Semi-plan Achromatic Objective: 4×, 10×, 40×, 100×	●	●		
	Infinite Plan Achromatic Objective: 4×, 10×, 20×, 40×, 60×, 100×	○	○		
	Infinite Plan Fluorescent Objective: 4×, 10×, 20×, 40×, 100×	○	○		
Condenser	Sliding-in Centerable Condenser NA 1.25	●	●		
Focusing	Coaxial Coarse&Fine Adjustment, Fine Division 0.002mm, Coarse Stroke 37.7mm/Rotation, Fine Stroke 0.2mm/Rotation, Moving Range 20mm	●	●		
Stage	Double Layers Mechanical Stage 140×140/ 75×50 mm	●	●		
Photo Adapter	Used to connect Nikon or Canon DSLR camera to the microscope	○	○		
Video Adapter	1×, 0.5× C-mount	○	○		
Transmitted Illumination	3W S-LED Illumination, Brightness Adjustable	●	●		
	Halogen Lamp 6V/20W, Brightness Adjustable	○	○		
Reflected Light Source					
	Excitation	Dichroic Mirror	Barrier Filter		
	Blue excitation	BP460~490	DM505	BA515	●
Green excitation	BP510~550	DM570	BA590	●	●
Lamp	3W LED Lamp(465-476nm)	●	●		
	3W LED Lamp(525-530nm)	●	●		
Immersion Oil	Fluorescent Free Oil	●	●		

Note: ●Standard Outfit, ○Optional

**Sample Image**


## 19. BS-2040F(LED, TB) Fluorescent Biological Microscope



BS-2040FB(LED, TB)



BS-2040FT(LED, TB)

### Introduction

BS-2040F(LED,TB) Series LED Fluorescence Microscopes are professional solution for tuberculosis test applications with LED fluorescence excitation and transmitted-light brightfield illumination. The life span of the LED lamp is much longer than mercury lamp, the performance is also better.

### Feature

1. Excellent fluorescent image with infinite optical system.
2. LED illumination with 50,000 hours life span. Convenient to use, no need warm-up.
3. No need for cooling system and protection device due to LED cold light source.
4. 450nm excited wavelength with high SNR.
5. More fluorescent filters are available for different applications.

### Application

BS-2040F(LED, TB) LED Fluorescence microscopes are used to study the absorbing, transportation, chemicals distribution and positioning in cells. They are widely used in laboratories, clinics, hospitals, medical colleagues and universities for disease examination, immune diagnosis and life science research.

### Specification

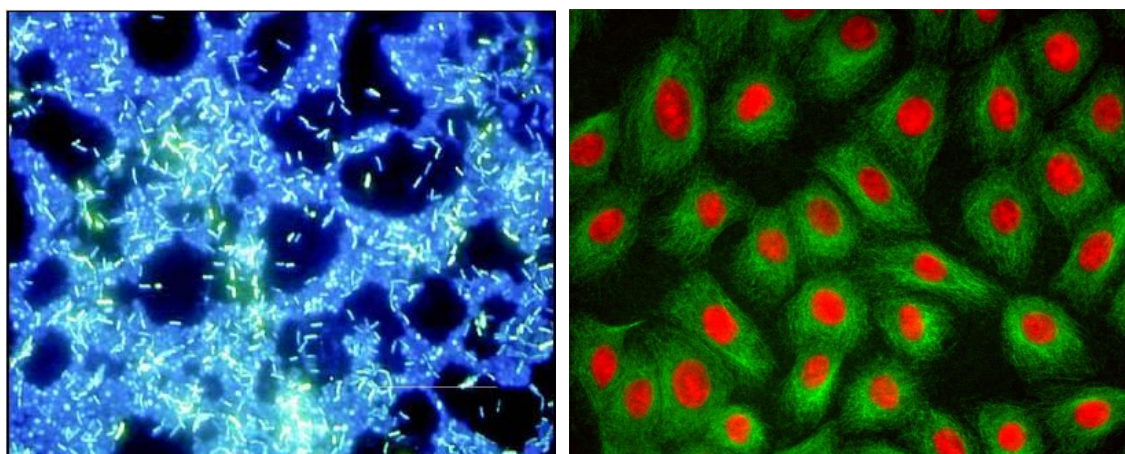
Model	Specification	BS-2040FB (LED, TB)	BS-2040FT (LED, TB)
Optical System	Infinite Optical System	●	●
Viewing Head	Seidentopf Binocular Head, Inclined at 30°, Interpupillary 48-75mm	●	
	Seidentopf Trinocular Head, Inclined at 30°, Interpupillary 48-75mm		●
Eyepiece	Wide Field Eyepiece WF10×/18	●	●
	Wide Field Eyepiece WF10×/20	○	○
	Wide Field Eyepiece WF10×/22(with 30mm eyepiece tube)	○	○
Nosepiece	Backward Quadruple Nosepiece	●	●
Objective	Infinite Semi-plan Achromatic Objective: 4×, 10×, 40×, 100×	●	●



	Infinite Plan Achromatic Objective: 4×, 10×, 20×, 40×, 60×, 100×	○	○			
	Infinite Plan Fluorescent Objective: 4×, 10×, 20×, 40×, 100×	○	○			
Condenser	Sliding-in Centerable Condenser NA 1.25	●	●			
	Swing-out Condenser NA0.9/0.25	○	○			
Focusing	Coaxial Coarse&Fine Adjustment, Fine Division 0.002mm, Coarse Stroke 37.7mm/Rotation, Fine Stroke 0.2mm/Rotation, Moving Range 20mm	●	●			
Stage	Double Layers Mechanical Stage 140×140/ 75×50 mm	●	●			
	Rackless Double Layers Mechanical Stage 150mm×139mm, Moving Range 75mm×52mm	○	○			
Photo Adapter	Used to connect Nikon or Canon DSLR camera to the microscope	○	○			
Video Adapter	1× C-mount	○	○			
	0.5× C-mount	○	○			
Transmitted Illumination	3W S-LED Illumination, Brightness Adjustable	●	●			
	Halogen Lamp 6V/20W, Brightness Adjustable	○	○			
Fluorescent Filter	Item	Excitation	Dichroic Mirror	Barrier Filter		
	FL-Auramine	BP470	DM480	BA485	●	●
	Blue excitation	BP460~490	DM505	BA515	○	○
	Green excitation	BP510~550	DM570	BA590	○	○
Reflected Light Source	3W LED Lamp(450nm)	●	●			
	3W LED Lamp(465-476nm)	○	○			
	3W LED Lamp(525-530nm)	○	○			
Rechargeable Battery	Lithium Rechargeable battery for both reflected and transmitted illumination, can work more than 8 hours after one charge	○	○			
Immersion Oil	Fluorescent Free Oil	●	●			
Optional accessories	BPHE-1 Turret Phase Contrast Kit	○	○			
	Simple Polarizing Set	○	○			
	Dry Darkfield Condenser (used for 4×, 10×, 20×, 40×, 60× objectives)	○	○			
	Oil Darkfield Condenser (used for 100× objective)	○	○			
	Dust Cover	●	●			

Note: ●Standard Outfit, ○Optional

## Sample Image



## 20. BS-2041 Biological Microscope



BS-2041B



BS-2041T

### Introduction

BS-2041 series microscopes are classical biological microscopes with ingenious stand, high definition infinite optical system, sharp image and comfortable operation, which make your work much enjoyable.

### Feature

1. Infinite Optical System.
2. WF10×/22mm eyepiece with diopter adjustment.
3. Sliding-in Centerable Condenser.
4. Easy carrying handle.
5. Fluorescent attachment, Dark field condenser, phase contrast attachment, simple polarizing kit are optional.

### Application

BS-2041 series microscopes are ideal instruments in biological, pathological, histological, bacterial, immune, pharmacological and genetic fields. They can be widely used in medical and sanitary establishments, such as hospitals, clinics, laboratories, medical academies, colleges, universities and related research centers.

### Specification

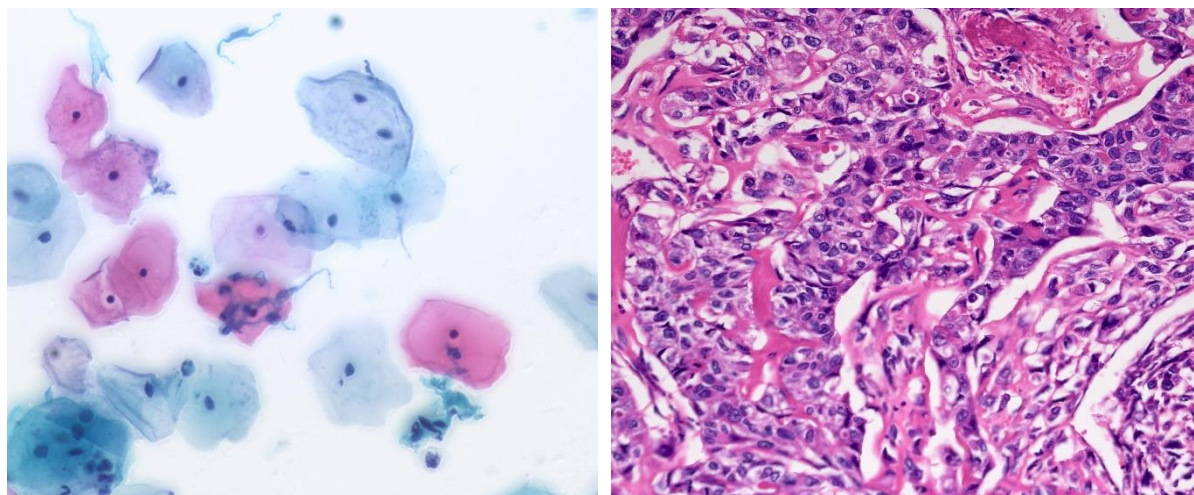
Item	Specification	BS-2041B	BS-2041T
Optical System	Infinite Optical System	●	●
Viewing Head	Seidentopf binocular head, 30° inclined, Interpupillary 48-75mm, eyepiece tube: Φ30mm	●	
	Seidentopf trinocular head, 30° inclined, Interpupillary 48-75mm, eyepiece tube: Φ30mm, Light distribution: 100: 0 and 50:50(eyepiece: trinocular tube)		●
Eyepiece	Wide Field Eyepiece WF 10×/22mm with Diopter Adjustment	●	●
	WF15×/16mm Eyepiece	○	○
	WF20×/12mm Eyepiece	○	○
	Eyepiece micrometer 0.1mm	○	○



Objective	Infinite Plan Achromatic Objectives 4×, 10×, 40×(S), 100×(S, Oil)	●	●
	Infinite Plan Achromatic Objectives 2×, 20×, 60×(S)	○	○
	Infinite Semi-Plan Achromatic Objectives 4×, 10×, 40×(S), 100×(S, Oil)	○	○
	Infinite Plan Fluorescent Achromatic Objectives 4×, 10×, 20×, 40×(S), 100×(S, Oil)	○	○
Nosepiece	Backward Quadruple Nosepiece	●	●
	Backward Quintuple Nosepiece	○	○
Stage	Double Layers Mechanical Stage 140mm×140mm/ 75mm×50mm	●	●
	Rackless Double Layers Mechanical Stage 150mm×139mm, Moving Range 75mm×52mm	○	○
Condenser	Sliding-in Centerable Condenser NA1.25	●	●
	Swing-out Condenser NA 0.9/ 0.25	○	○
	Dark Field Condenser NA 0.7-0.9 (Dry, used for objectives except 100×)	○	○
	Dark Field Condenser NA 1.25-1.36 (Oil, used for 100× objectives)	○	○
Focusing	Coaxial Coarse & Fine Adjustment, Fine Division 0.002mm, Coarse Stroke 37.7mm per Rotation, Fine Stroke 0.2mm per Rotation, Moving Range 20mm	●	●
Illumination	3W LED Lamp, Brightness Adjustable	●	●
	6V/20W Halogen Lamp, Brightness Adjustable	○	○
	Kohler Illumination	○	○
Optional accessories	Simple Polarizing Set (Polarizer and Analyzer)	○	○
	Phase Contrast Kit BPHE-1 (Infinite 10×, 20×, 40×, 100× phase contrast objective)	○	○
	YX-2 Epi-fluorescent Attachment (Mercury lamp)	○	○
	FL-LED Epi-fluorescent Attachment (LED lamp, B, G, UV, V, R fluorescent filters are available)	○	○
Video Adapter	1× C-mount (Used for large format microscope camera)		○
	0.5× C-mount (Used for microscope camera)		●
Photo Adapter	BDPL-1(Nikon), Used for Nikon DSLR cameras		○
	BDPL-2(Canon), Used for Canon DSLR cameras		○
Packing	1pc/carton, 35cm*35.5cm*55.5cm, gross weight: 12kg	●	●

Note: ● Standard Outfit, ○ Optional

## Sample Image



## 21. BS-2042 Biological Microscope



BS-2042B



BS-2042T

### Introduction

BS-2042 series microscopes are classical biological microscopes with ingenious stand, high definition infinite optical system, sharp image and comfortable operation, which make your work much enjoyable.

### Feature

1. Infinite Color Corrected Optical System.
2. Sensitive dimming system
3. Koehler illumination.
4. Easy carrying Handle.

### Application

BS-2042 series microscopes are ideal instruments in biological, pathological, histological, bacterial, immune, pharmacological and genetic fields. They can be widely used in medical and sanitary establishments, such as hospitals, clinics, laboratories, medical academies, colleges, universities and related research centers.

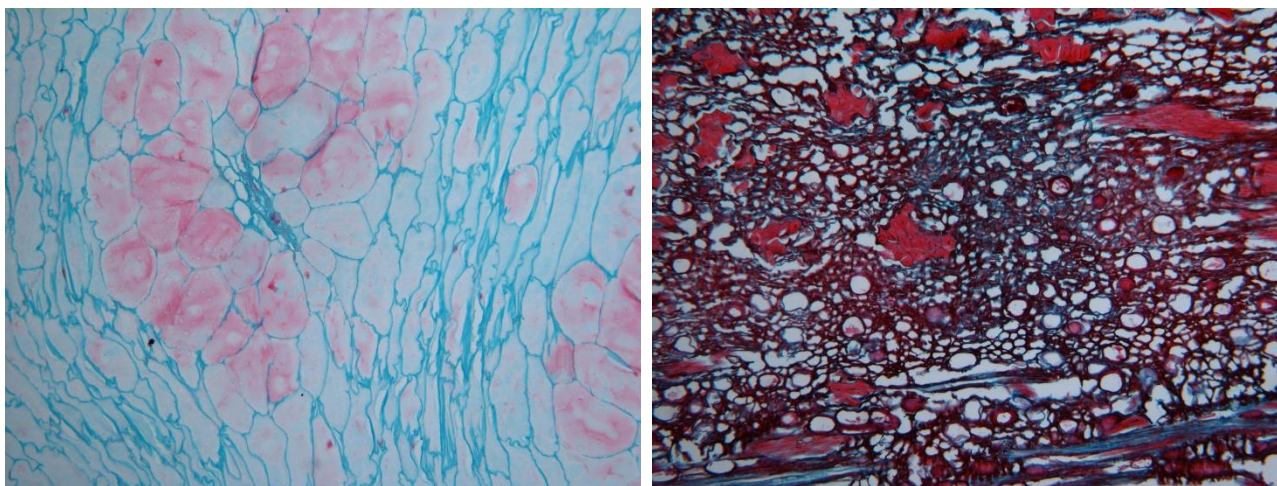
### Specification

Item	Specification	BS-2042B	BS-2042T
Optical System	Infinite Color Corrected Optical System	●	●
Viewing Head	Seidentopf binocular head, 30° inclined, Interpupillary 48-75mm	●	
	Seidentopf trinocular head, 30° inclined, Interpupillary 48-75mm, Light splitting ratio: Eyepiece:Trinocular=8:2		●
Eyepiece	Plan 10×/18mm with adjustable diopter	●	●
	Plan 10×/20mm with adjustable diopter	○	○
Objective	Infinite plan Achromatic Objectives 4×, 10×, 40×, 100×	●	●
Nosepiece	Reversed Quadruple Nosepiece	●	●
	Reversed Quintuple Nosepiece	○	○

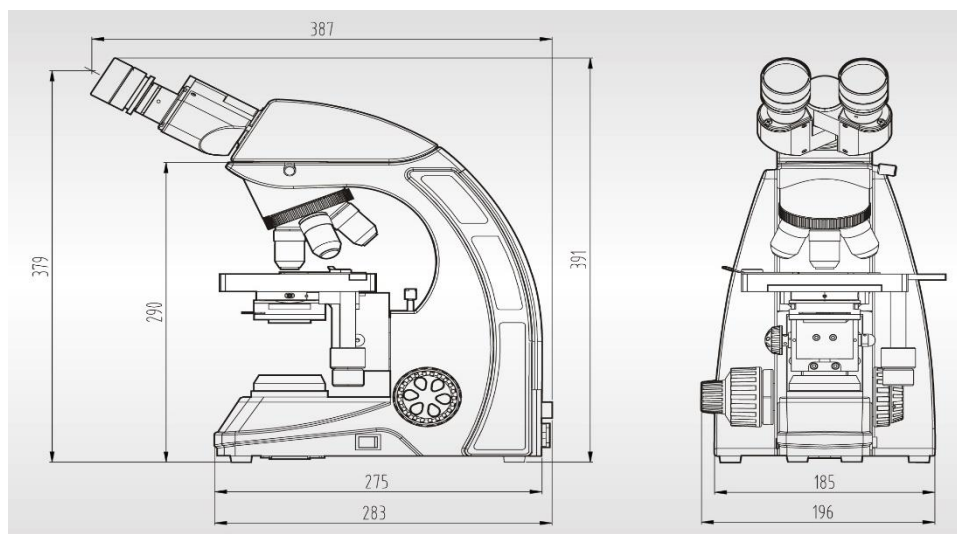
Stage	Double Layers Mechanical Stage 140mm×132mm, moving range 76mm×50mm	●	●
Condenser	NA1.25 Condenser (with slot for phase contrast and darkfield accessories)	●	●
Focusing	Coaxial focusing system with tension adjustable, coarse:25mm per rotation, with upper limit and tightness adjustment, Fine Division 0.002mm	●	●
Illumination	100V-240V, single high brightness 3W LED Koehler illumination, intensity adjustable	●	●
	100V-240V, Philips 6V/20W halogen Koehler illumination, intensity adjustable	○	○
Optional accessories	Phase Contrast Kit	○	○
	Dark Field Attachment	○	○
	Polarizing attachment	○	○
	Video & photo accessories (1/3×, 1/2×, 1× C-mount)		○
	Various filters (Blue, Green, Yellow and frosted)	○	○

Note: ● Standard Outfit, ○ Optional

### Sample Image



### Dimension



Unit:mm

## 22. BS-2052 Biological Microscope



BS-2052A



BS-2052A(ECO)



BS-2052B



BS-2052BT(ECO)

### Introduction

BS-2052 series microscopes are classical biological microscopes with ingenious stand, high definition optical system, sharp image and comfortable operation, which make your work much enjoyable.

### Feature

1. High contrast and sharp image with high quality optical system.
2. Low environment requirement with Anti-mould technology.
3. Comfortable operation with low position coarse and fine adjustment knobs.
4. ECO function is optional, automatically turn off after 15 mins of no use.
5. With cord rest on the back, making the working table clean and tidy.



### Application

BS-2052 series microscopes are ideal instruments in biological, pathological, histological, bacterial, immune, pharmacological and genetic fields. They can be widely used in medical and sanitary establishments, such as hospitals, clinics, laboratories, medical academies, colleges, universities and related research centers.

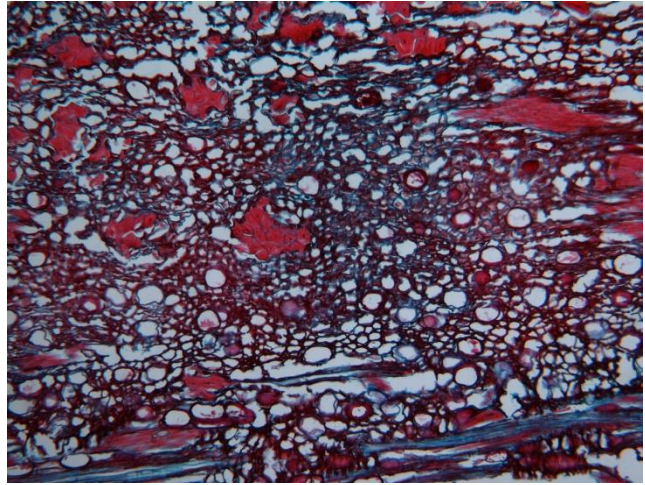
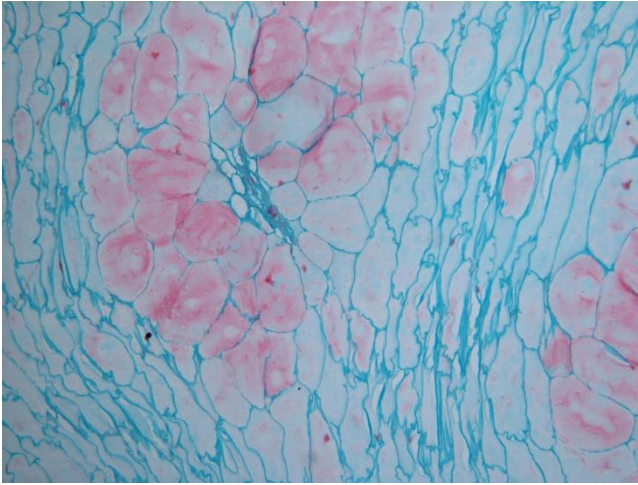


**Specification**

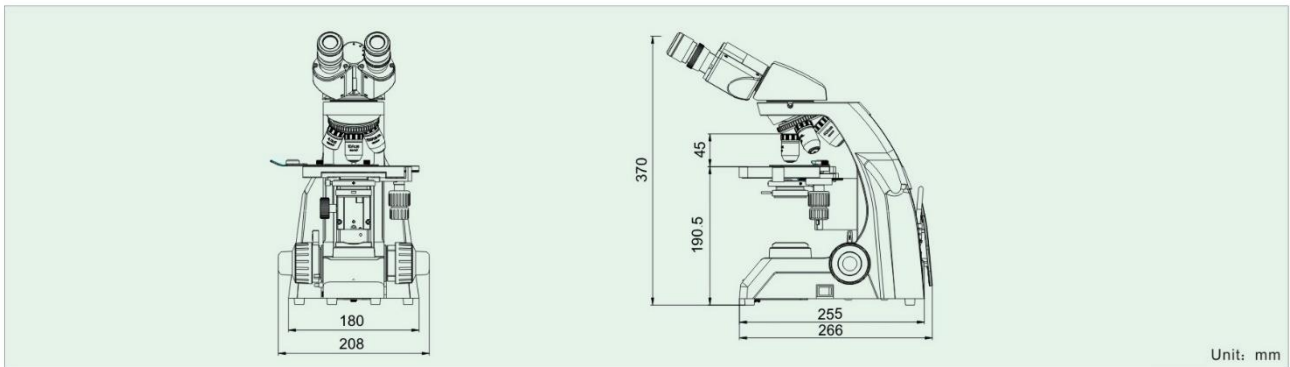
Item	Specification	BS-2052A	BS-2052B
Optical System	Finite Optical System	●	
	Infinite Optical System		●
Eyepiece	WF10×/18mm	●	
	WF10×/20mm		●
Viewing Head	Monocular Head, inclined at 30°	○	
	Seidentopf Binocular Head, inclined at 30°, Interpupillary 47-78mm	●	●
	Seidentopf Trinocular Head, inclined at 30°, Interpupillary 47-78mm	○	○
	Digital Binocular Head with built-in camera, Inclined at 30°, Interpupillary Distance 47-78mm, 5.0MP, Support Wifi	○	○
	Digital Binocular Head with Tablet camera, Inclined at 30°, Interpupillary Distance 47-78mm, 5.0MP, 8" LCD, Android OS	○	○
Objective	Finite Achromatic Objectives 4×, 10×, 40×, 100×	●	
	Finite Achromatic Objectives 20×, 60×	○	
	Finite Semi-Plan Achromatic Objectives 2×, 4×, 10×, 20×, 40×, 60×, 100×	○	
	Finite Plan Achromatic Objectives 4×, 10×, 20×, 40×, 60×, 100×	○	
	Infinite Semi-Plan Achromatic Objectives 4×, 10×, 40×, 100×		●
	Infinite Plan Achromatic Objectives 2×, 4×, 10×, 20×, 40×, 60×, 100×		○
	Infinite Plan Fluorescent Objective 4×, 10×, 20×, 40×, 100×		○
Nosepiece	Backward Quadruple Nosepiece	●	●
	Backward Quintuple Nosepiece	○	○
Stage	Double Layers Mechanical Stage 140mm×140mm, Moving Range 75mm×50mm	●	
	Rackless Double Layers Mechanical Stage 150mm×139mm, Moving Range 75mm×52mm		●
Condenser	Abbe Condenser NA1.25	●	●
	Dark Field Condenser (Dry / Oil)	○	○
Focusing	Coaxial Coarse and Fine Adjustment, Fine Division 0.002mm, Moving Range 25mm	●	●
Illumination	S-LED Illumination, Brightness Adjustable	●	●
	S-LED Illumination with Rechargeable Battery, Brightness Adjustable	○	○
	6V/20W Halogen Lamp, Brightness Adjustable	○	○
	Kohler Illumination	○	○
	ECO Function, automatically turn off after 15 mins of no use	○	○
	Plane-concave Mirror	○	○
Optional accessories	Phase Contrast Kit	○	○
	Polarizing Set	○	○
	FL-LED Epi-fluorescent Attachment		○
Package	1pc/carton, 36*26*46mm, gross weight: 8kg	●	●

Note: ● Standard Outfit, ○ Optional

Sample Image



Dimension





## 23. BS-2063 Biological Microscope



BS-2063B



BS-2063T

### Introduction

BS-2063 series microscopes are high level microscopes which are specially designed for college education, medical and laboratory study. It adopts an Infinite optical system, beautiful structure and ergonomic design. With an innovative optical and structure design, excellent optical performance and easy to operate system, these biological microscopes make your works enjoyable.

### Feature

1. Excellent infinite optical system with high resolution and perfect definition.
2. Wide field 10×/Φ22mm eyepiece, more comfortable for observation.
3. 100X water objective is available for convenient viewing.
4. Trinocular head with light distribution 100:0 (100% for eyepiece) and 80:20(80% for trinocular head and 20% for eyepiece).
5. Rackless stage is safer than traditional stage.



6. Various accessories for upgrading.

(1) Quintuple turret phase contrast unit with 10X/20X/40X/100X infinite plan phase contrast objective for phase contrast and bright field observation.



(2) N.A.0.9/0.13 Swing-out Condenser  
 Dark field condenser (dry) available to 4X-40X Objective  
 Dark field condenser (oil) available to 100X Objective



(3) Infinite Plan Objectives



(4) Mercury and LED fluorescent attachment with six-holes disk fluorescence unit, More fluorescence filters can be supplied.



BS-2063FT



BS-2063FT(LED)



(5) Simple polarizing unit with polarizer and analyzer.



## Application

BS-2063 series microscopes are ideal instrument in biological, histological, pathological, bacteriology, immunizations and pharmacy field and can be widely used in medical and sanitary institutes, such as hospitals, clinics, academic laboratories, colleges and universities.

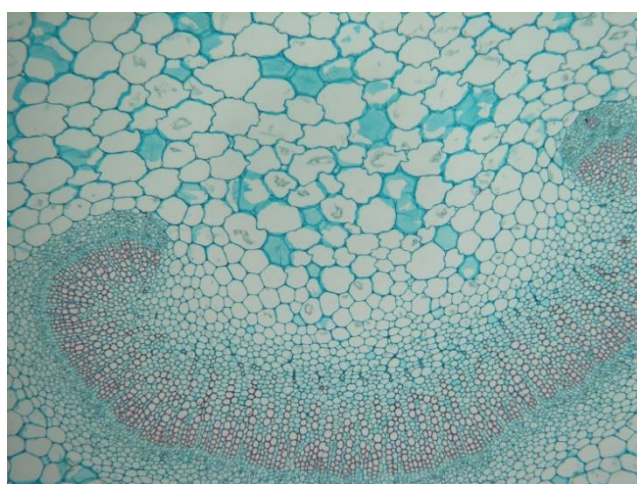
## Specification

Item	Specification	BS-2063B	BS-2063T
Optical System	Color Corrected Infinite Optical System	•	•
Viewing Head	Seidentopf Binocular Head, Inclined 30°, Rotatable 360°, Interpupillary Distance: 48-76mm	•	
	Seidentopf Trinocular Head, Inclined 30°, Rotatable 360°, Interpupillary Distance: 48-76mm, Light distribution (both): 100: 0 (100% for eyepiece) 80:20(80% for trinocular head and 20% for eyepiece)		•
Eyepiece	WF10×/22mm (Diopter adjustable), tube diameter: 30mm	•	•
	WF15×/16mm (Diopter adjustable)	○	○
	WF10×/22mm with 0.1mm eyepiece micrometer	○	○
Infinite Plan Achromatic Objective	4×/0.10, W.D.=12.10mm	•	•
	10×/0.25, W.D.=4.64mm	•	•
	20×/0.40(S), W.D.=2.41mm	•	•
	40×/0.65 (S), W.D.=0.65mm	•	•
	100×/1.25(S, Oil), W.D.=0.12mm	•	•
	2.5×/0.07 W.D.=8.47mm	○	○
	60×/0.80(S) W.D.=0.33mm	○	○
100×/1.15(S, Water) W.D.=0.19mm	○	○	
Nosepiece	Backward Quintuple Nosepiece	•	•

Stage	Rackless Double Layers Mechanical stage, Size: 182mm×140mm, Travel Range: 77mm×52mm, Scale: 0.1mm, Two Slide Holder	●	●
Condenser	Swing out condenser N.A.0.9/0.13, with iris diaphragm	●	●
Focusing	Coaxial Coarse and Fine Focusing Knob, Coarse Focusing Travel Range: 25mm, Coarse Stroke 42.4mm/rotation, Fine Stroke 0.2mm/Rotation, Fine division: 2μm	●	●
Koebler Illumination	6V/30W Halogen Lamp with Field Diaphragm, Brightness Adjustable	●	●
	3W LED Illumination with Field Diaphragm, Brightness Adjustable	○	○
Dark Field Unit	Dark field condenser (Dry), apply to 4×- 40× objective	○	○
	Dark Field Condenser (Oil), apply to 100× objective	○	○
Polarizing Unit	Analyzer and Polarizer	○	○
Phase Contrast Unit	Quintuple hole turret unit with 10×/20×/40×/100× phase contrast objective	○	○
	Independent slot with 10×/20×/40×/100× phase contrast objective	○	○
Fluorescent Attachment	100W Mercury Epi-Fluorescence unit (Six-hole disc, Uv/V/B/G and another filters)	○	○
	3W LED Epi-Fluorescence unit (Six-hole disc, Uv/V/B/G and another filters)	○	○
Video Adapter	1× C-mount (Used for DSLR cameras or large format microscope camera)		○
	0.5× C-mount (focus adjustable, used for microscope camera)		●
Photo Adapter	Used for CANON / NIKON / OLYMPUS/ SONY DLSR cameras		○
Filter	Blue	●	●
	Green/ Amber/Grey	○	○
Power Supply	Wide voltage input: 100V~240V	●	●
Packing	1 carton/set, Packing Size: 565mm × 310mm × 410mm, Gross Weight: 12 kgs, Net Weight: 10 kgs	●	●

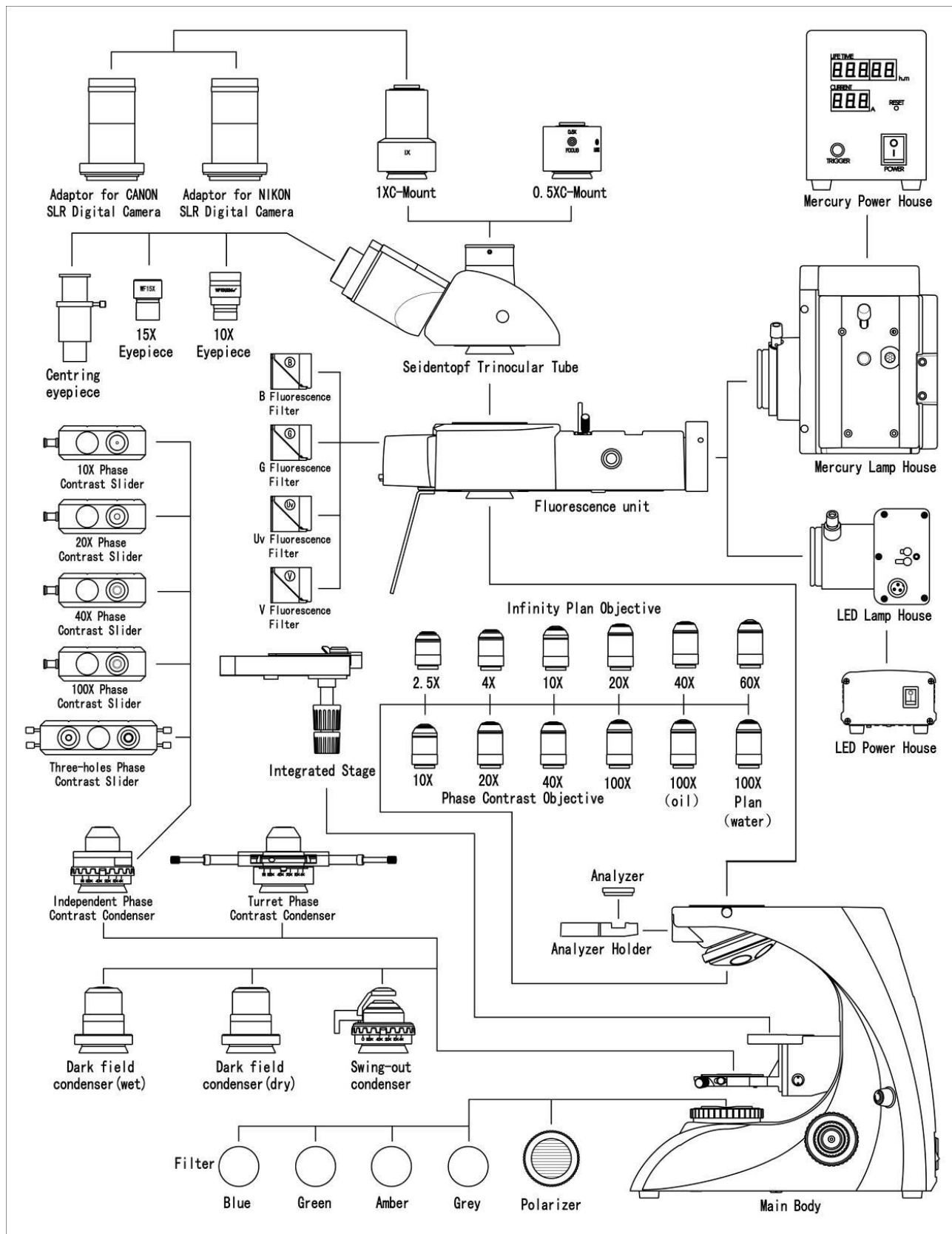
Note: ●Standard Outfit, ○Optional

## Sample Image



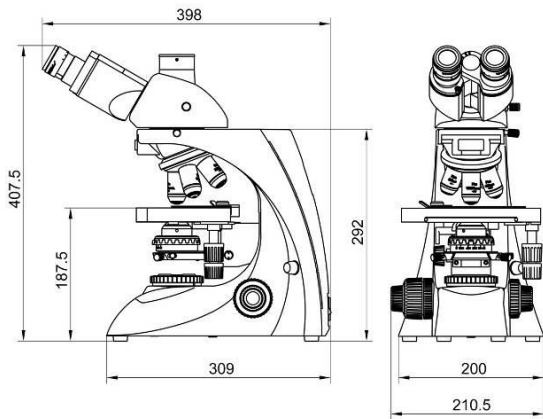


System Diagram

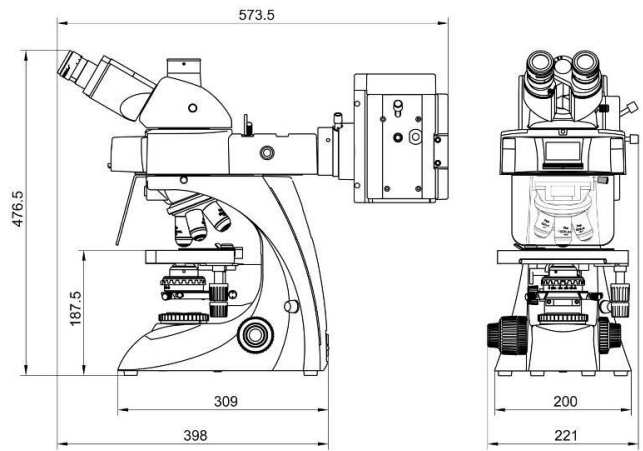




**Dimension**



**BS-2063T Dimension**



**BS-2063FT Dimension**

## 24. BS-2063F(LED) LED Fluorescence Microscope



BS-2063FT(LED)

### Introduction

BS-2063F(LED) Series LED Fluorescence Microscope is specifically designed for the daily routine work in the demanding applications of education, pathology investigation, clinical and laboratory usage. Innovative LED as fluorescence illumination source, provide excellent image with easy and comfortable usage experience.

### Feature

1. Six-holes disk fluorescence unit, More fluorescence filters can be supplied

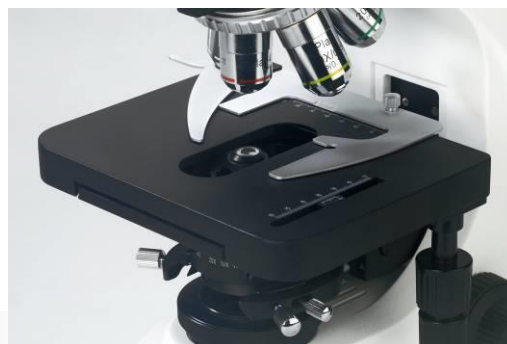


2. Reckless Wire Driven Mechanical Fixed Stage with focus lock is safer than traditional stage

3. Quintuple turret phase contrast unit with 10X/20X/40X/100X Infinite plan phase contrast objective for phase contrast and bright field observation.

4. Other accessories.

- N.A.0.9/0.13 Swing-out Condenser
- Dark field condenser (dry) available to 4X-60X Objective
- Dark field condenser (oil) available to 100X Objective
- Infinite Plan Objectives



## Specification

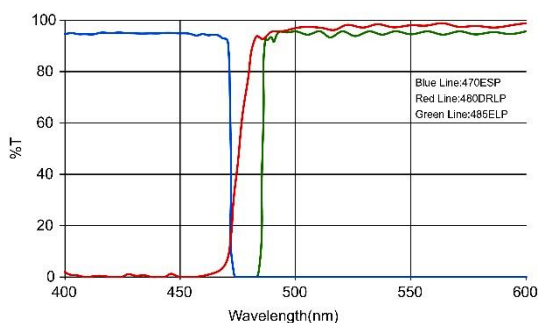
Item	Specification	BS-2063 FB(LED)	BS-2063 FT(LED)
Optical System	Color Corrected Infinite Optical System	●	●
Viewing Head	Seidentopf Binocular Head, Inclined 30°, Rotatable 360°, Interpupillary Distance: 48-76mm	●	
	Seidentopf Trinocular Head, Inclined 30°, Rotatable 360°, Interpupillary Distance: 48-76mm, Light distribution (both): 100: 0 (100% for eyepiece) 80:20(80% for trinocular head and 20% for eyepiece)		●
Eyepiece	WF10×/22mm (Diopter adjustable), tube diameter: 30mm	●	●
	WF15×/16mm (Diopter adjustable)	○	○
	WF10×/22mm with 0.1mm eyepiece micrometer	○	○
Infinite Plan Achromatic Objective	4×/0.10, W.D.=12.10mm	●	●
	10×/0.25, W.D.=4.64mm	●	●
	20×/0.40(S), W.D.=2.41mm	●	●
	40×/0.65 (S), W.D.=0.65mm	●	●
	100×/1.25(S, Oil), W.D.=0.12mm	●	●

	2.5×/0.07 W.D.=8.47mm	○	○
	60×/0.80(S) W.D.=0.33mm	○	○
	100×/1.15(S, Water) W.D.=0.19mm	○	○
Nosepiece	Backward Quintuple Nosepiece	●	●
Stage	Rackless Double Layers Mechanical stage, Size: 182mm×140mm, Travel Range: 77mm×52mm, Scale: 0.1mm, Two Slide Holder	●	●
Condenser	Swing out condenser N.A.0.9/0.13, with iris diaphragm	●	●
Focusing	Coaxial Coarse and Fine Focusing Knob, Coarse Focusing Travel Range: 25mm, Coarse Stroke 42.4mm/rotation, Fine Stroke 0.2mm/Rotation, Fine division: 2μm	●	●
Koehler Illumination	6V/30W Halogen Lamp with Field Diaphragm, Brightness Adjustable	●	●
	3W LED Illumination with Field Diaphragm, Brightness Adjustable	○	○
Dark Field Unit	Dark field condenser (Dry), apply to 4×- 40× objective	○	○
	Dark Field Condenser (Oil), apply to 100× objective	○	○
Polarizing Unit	Analyzer and Polarizer	○	○
Phase Contrast Unit	Quintuple hole turret unit with 10×/20×/40×/100× phase contrast objective	○	○
	Independent slot with 10×/20×/40×/100× phase contrast objective	○	○
Fluorescent Attachment	100W Mercury Epi-Fluorescence unit (Six-hole disc, Auramine O/Uv/V/B/G and another filters)	○	○
	3W LED Epi-Fluorescence unit (Six-hole disc, B & G filters)	●	●
	Auramine O /U/V filters and corresponding fluorescence lamps	○	○
Video Adapter	1× C-mount (Used for DSLR cameras or large format microscope camera)		○
	0.5× C-mount (focus adjustable, used for microscope camera)		●
Photo Adapter	Used for CANON / NIKON / OLYMPUS/ SONY DLSR cameras		○
Filter	Blue	●	●
	Green/ Amber/Grey	○	○
Power Supply	Wide voltage input: 100V~240V	●	●
Packing	1 carton/set, Packing Size: 755mm×340mm×440mm, Gross Weight: 17 kgs, Net Weight: 15 kgs	●	●

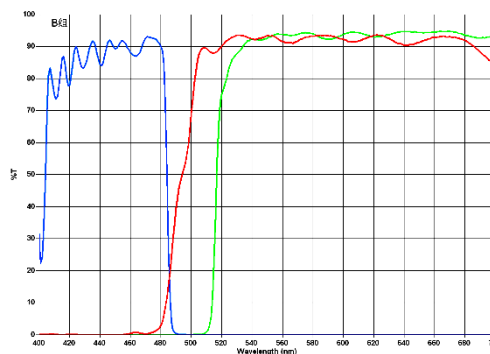
Note: "●" In Table Is Standard outfits, "○" Is Optional Accessories.

## Fluorescent filters

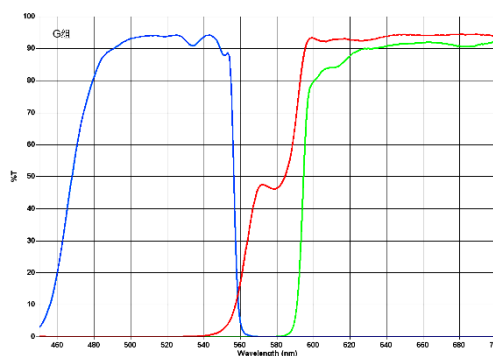
<b>Auramine O</b>	Wavelength (nm)
Exciter	470Sp
Dichroic Barrier	480DRLP
	485LP



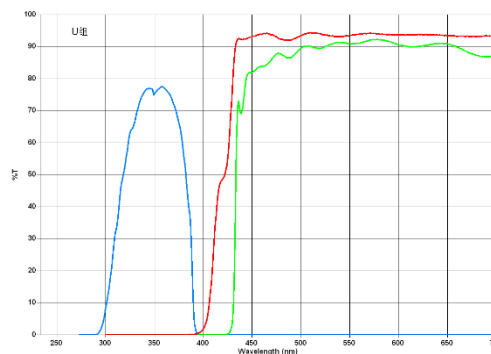
**B Excitation**      Wavelength (nm)  
 Exciter              470/37  
 Dichroic            505LP  
 Barrier              515LP



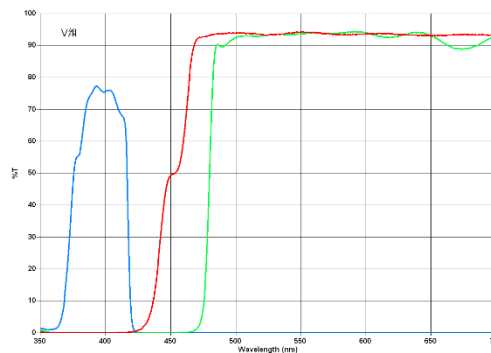
**G Excitation**      Wavelength (nm)  
 Exciter              500-550  
 Dichroic            575  
 Barrier              590



**Uv Excitation**      Wavelength (nm)  
 Exciter              330-380  
 Dichroic            400  
 Barrier              435

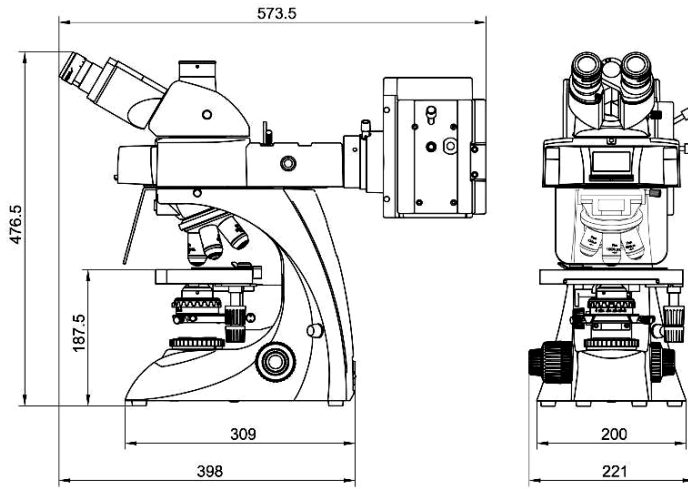


**V Excitation**      Wavelength (nm)  
 Exciter              380-420  
 Dichroic            430  
 Barrier              460



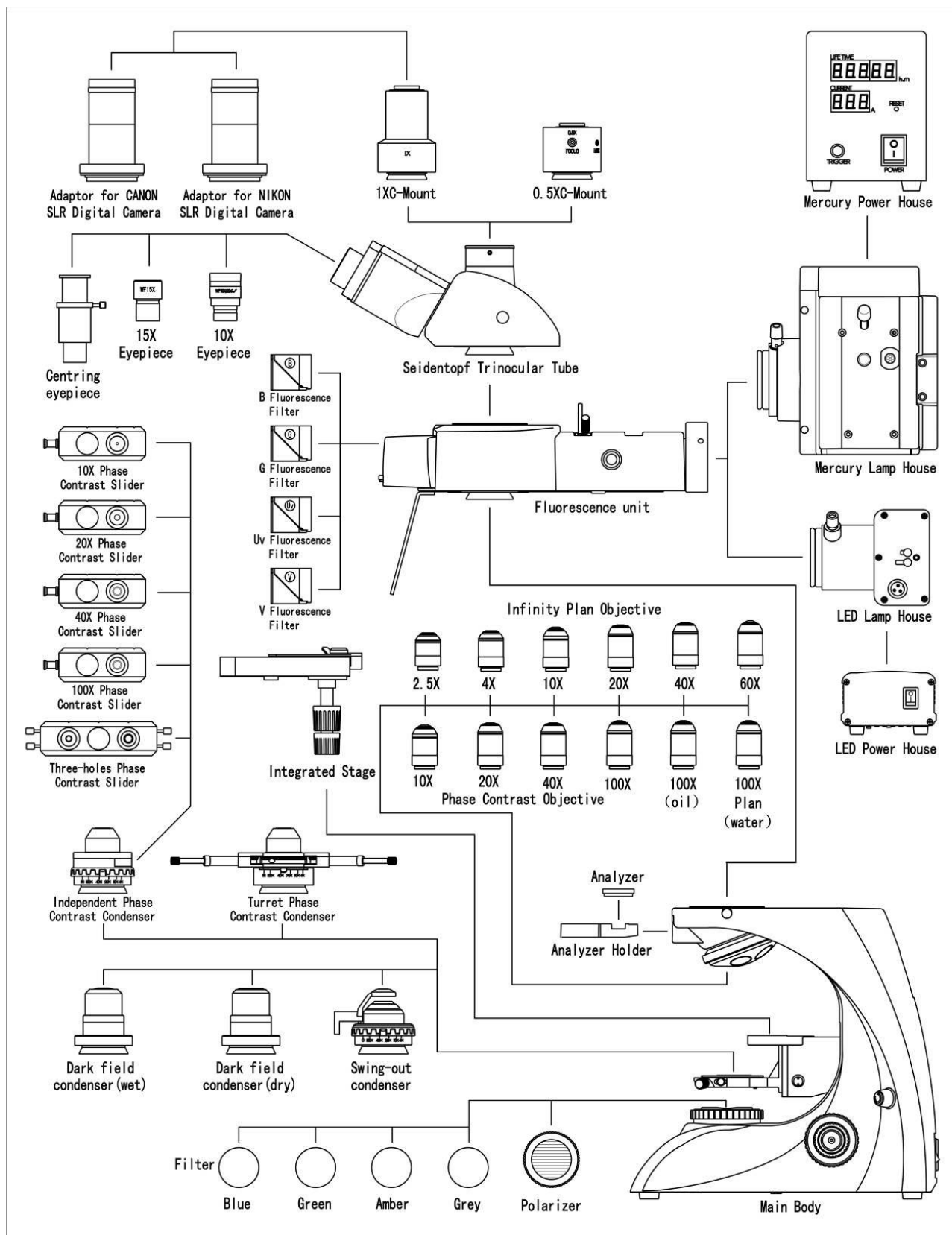


Dimension



Unit: mm

**Layout Diagram**



## 25. BS-2063F(LED, TB) LED Fluorescence Microscope



BS-2063FT(LED, TB)

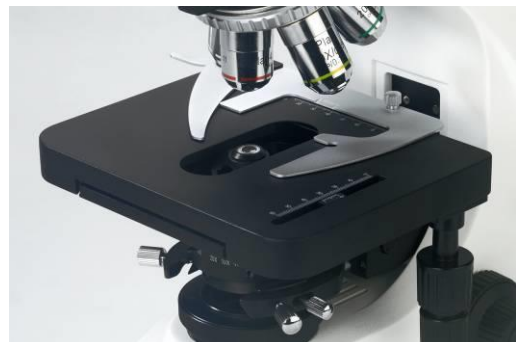
### Introduction

BS-2063F(LED, TB) Series LED Fluorescence Microscope is a professional solution for tuberculosis test applications with LED fluorescence excitation and transmitted-light brightfield illumination.

If you want to analyze tuberculosis with Ziehl-Neelsen-Staining or if you like to use fluorescence excitation, e.g. with Auramine O dye. BS-2063F(LED,TB) can simply switch between the two modes.

### Feature

1. Reckless Wire Driven Mechanical Fixed Stage with focus lock is safer than traditional stage



2. Quintuple turret phase contrast unit with 10X/20X/40X/100X Infinite plan phase contrast objective for phase contrast and bright field observation.



3. Other accessories.

- N.A.0.9/1.25 Swing-out Condenser
  - Dark field condenser (dry) available to 4X-60X Objective
  - Dark field condenser (oil) available to 100X Objective
- Infinite Plan Objectives



## Application

BS-2063F(LED,TB) Series LED Fluorescence Microscope is specifically designed for the daily routine work of education, pathology diagnosis, hospital, clinical and laboratory examinations and research.

## Specification

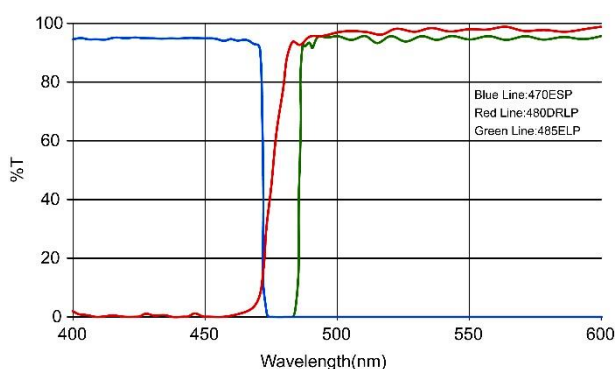
Item	Specification	BS-2063FB (LED,TB)	BS-2063FT (LED,TB)
Optical System	Color Corrected Infinite Optical System	●	●
Viewing Head	Seidentopf Binocular Head, Inclined 30°, Rotatable 360°, Interpupillary Distance: 48-76mm	●	
	Seidentopf Trinocular Head, Inclined 30°, Rotatable 360°, Interpupillary Distance: 48-76mm, Light distribution (both): 100: 0 (100% for eyepiece) 80:20(80% for trinocular head and 20% for eyepiece)		●
Eyepiece	WF10×/22mm (Diopter adjustable), tube diameter: 30mm	●	●
	WF15×/16mm (Diopter adjustable)	○	○
	WF10×/22mm with 0.1mm eyepiece micrometer	○	○
Infinite Plan Achromatic Objective (without coverslips)	4×/0.10, W.D.=12.10mm	○	○
	10×/0.25, W.D.=4.64mm	●	●
	20×/0.40(S), W.D.=2.41mm	○	○
	40×/0.65 (S), W.D.=0.65mm	●	●
	60×/0.90(S) W.D.=0.33mm	●	●
	100×/1.25(S, Oil), W.D.=0.12mm	●	●
Nosepiece	Backward Quintuple Nosepiece	●	●
Stage	Rackless Double Layers Mechanical stage, Size: 182mm×140mm, Travel Range: 77mm×52mm, Scale: 0.1mm, Two Slide Holder	●	●

Condenser	Swing out condenser N.A.0.9/1.25, with iris diaphragm	●	●
Focusing	Coaxial Coarse and Fine Focusing Knob, Coarse Focusing Travel Range: 25mm, Coarse Stroke 42.4mm/rotation, Fine Stroke 0.2mm/Rotation, Fine division: 2μm	●	●
Koehler Illumination	3W LED Lamp, lifetime 20000 hours, brightness adjustable Field diaphragm, center adjustable Rechargeable battery pack (6V DC), 24 hrs working time	●	●
Dark Field Unit	Dark field condenser (Dry), apply to 4×- 40× objective	○	○
	Dark Field Condenser (Oil), apply to 100× objective	○	○
Polarizing Unit	Analyzer and Polarizer	○	○
Phase Contrast Unit	Quintuple hole turret unit with 10×/20×/40×/100× phase contrast objective	○	○
Fluorescent Attachment	LED Epi-Fluorescent unit (Six-hole disc, Auramine O fluorescent filter (Chroma brand, mainly used for Tuberculosis examination)) 3W LED fluorescent lamp Rechargeable battery pack (6V DC) ,24 hrs working time	●	●
	100W Mercury lamp Epi-Fluorescence unit (Six-hole disc, Auramine O/Uv/V/B/G and other filters)	○	○
Video Adapter	1× C-mount (Used for DSLR cameras or large format microscope camera)		○
	0.5× C-mount (focus adjustable, used for microscope camera)		●
Photo Adapter	Used for CANON / NIKON / OLYMPUS/ SONY DLSR cameras		○
Filter	Blue	●	●
	Green/ Amber/Grey	○	○
Power Supply	Wide voltage input: 100V-240V	●	●
Packing	1 carton/set, Packing Size: 755mm×340mm×440mm, Gross Weight: 17 kgs, Net Weight: 15 kgs	●	●

Note: "●" In Table Is Standard outfits, "○" Is Optional Accessories.

## Fluorescent filters

<b>Auramine O</b>	Wavelength (nm)
Exciter	470Sp
Dichroic	480DRLP
Barrier	485LP





## 26. BS-2070 Biological Microscope



BS-2070B



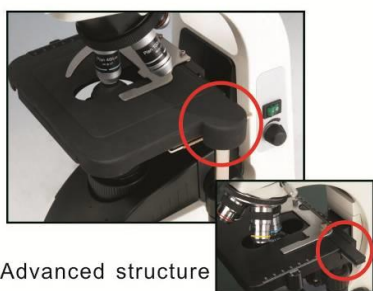
BS-2070T

### Introduction

BS-2070 series microscopes are high level microscopes which are specially designed for college education, medical and laboratory research. With an innovative optical and structure design idea, excellent optical performance and easy to operate system, these biological microscopes make your works enjoyable.

### Feature

1. Excellent image quality with infinite optical system.
2. Comfortable operating with ergonomic design.
3. Perfect illumination with sliding-in centerable condenser, easy to replace phase contrast and dark field condenser.
4. Advanced design of mechanical stage structure prevents the scratches of users.



Advanced structure

Traditional structure

### Application

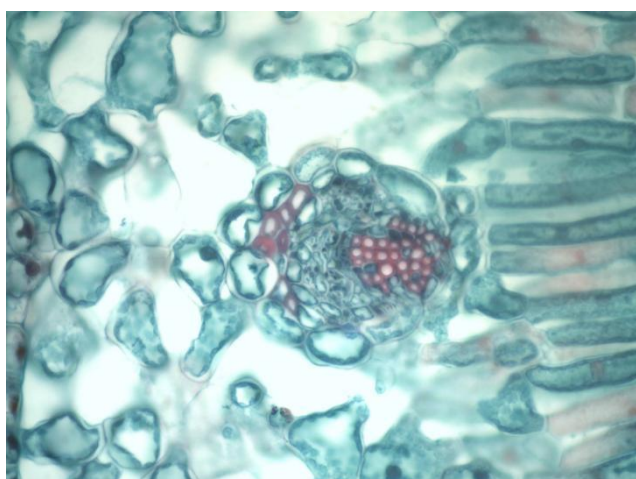
BS-2070 series microscopes are ideal instruments in biological, histological, pathological, bacteriology, immunizations and pharmacy field and can be widely used in medical and sanitary establishments, laboratories, institutes, academic laboratories, colleges and universities.

## Specification

Item	Specification	BS-2070B	BS-2070T
Optical System	Infinite Optical System	●	●
Viewing Head	Seidentopf Binocular Viewing Head, Inclined at 30°, 360° Rotatable, Interpupillary 48-75mm	●	
	Seidentopf Trinocular Viewing Head, Inclined at 30°, 360° Rotatable, Interpupillary 48-75mm		●
Eyepiece	WF10×/20mm	●	●
	WF15×/16mm	○	○
Objective	Infinite Plan Achromatic Objective 4×, 10×, 40×, 100×	●	●
	Infinite Plan Achromatic Objective 20×, 60×	○	○
Nosepiece	Backward Quadruple Nosepiece	●	●
	Backward Quintuple Nosepiece	○	○
Focusing	Coaxial Coarse & Fine Adjustment, Fine Division 0.002mm, Coarse Stroke 37.7mm per Rotation, Fine Stroke 0.2mm per Rotation, Moving Range 22mm	●	●
Stage	Rackless stage, Size 230×150mm, Cross Travel 78×54mm, Low-positioned X/Y Coaxial Control Knob, Can hold two slides	●	●
Condenser	Abbe Condenser NA1.25 with Aperture Diaphragm	●	●
Illumination	12V/20W Halogen Lamp, Brightness Adjustable	●	●
	1W S-LED illumination, Brightness Adjustable	○	○
Optional	Photo Attachment, Video Attachment, Polarization Set, Phase Contrast Kit, Kohler Illumination	○	○
Package	1pc/carton, 38cm*26cm*51cm, 9kg	●	●

Note: ●Standard Outfit, ○Optional

## Sample Image



## 27. BS-2070F(LED) Fluorescent Biological Microscope



BS-2070FB(LED)



BS-2070FT(LED)

### Introduction

BS-2070F(LED) Series LED fluorescence microscopes are newly developed microscopes, the microscopes use LED as the fluorescent light source, the life span of the LED lamp is much longer than mercury lamp, the performance is also better.

### Feature

1. Excellent fluorescent image with infinite optical system.
2. LED illumination with 50,000 hours life span.
3. No need for cooling system and protection device due to LED cold light source.
4. 465-476nm excited wavelength with high SNR.
5. Convenient to use, no need warm-up.
6. More fluorescent filters are available for different applications.

### Application

BS-2070F(LED) LED Fluorescence microscopes are used to study the absorbing, transportation, chemicals distribution and positioning in cells. They can be used in disease examination, immune diagnosis and life science areas.

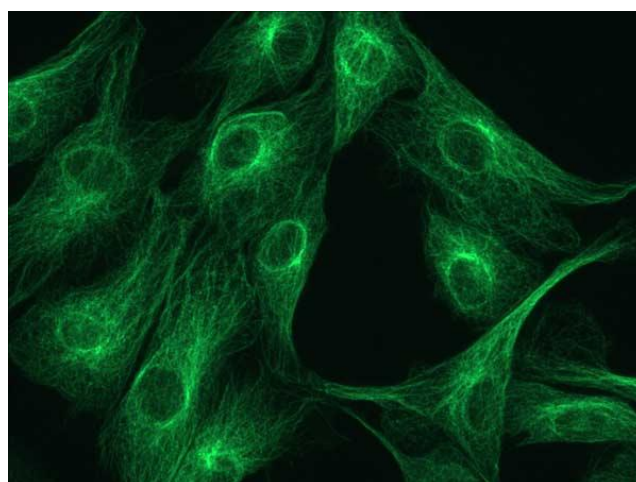
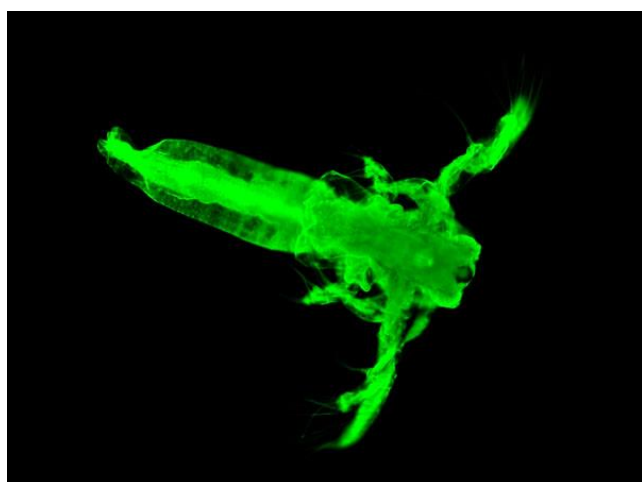
### Specification

Item	Specification	BS-2070 FB(LED)	BS-2070 FT(LED)
Optical System	Infinite Optical System	•	•
Viewing Head	Seidentopf Binocular Viewing Head, Inclined at 30°, 360° Rotatable, Interpupillary 48-75mm	•	

	Seidentopf Trinocular Viewing Head, Inclined at 30°, 360° Rotatable, Interpupillary 48-75mm		●			
Eyepiece	WF10×/20mm	●	●			
	WF15×/16mm	○	○			
Objective	Infinite Plan Achromatic Objective 4×, 10×, 40×, 100×	●	●			
	Infinite Plan Achromatic Objective 20×, 60×	○	○			
Nosepiece	Backward Quadruple Nosepiece	●	●			
	Backward Quintuple Nosepiece	○	○			
Focusing	Coaxial Coarse & Fine Adjustment, Fine Division 0.002mm, Coarse Stroke 37.7mm per Rotation, Fine Stroke 0.2mm per Rotation, Moving Range 22mm	●	●			
Stage	Rectangular 230×150mm, Cross Travel 78×54mm, Using Low-positioned X/ Y Coaxial Control Knob, Can Hold Two Sides	●	●			
Condenser	Abbe Condenser NA1.25 with Aperture Diaphragm	●	●			
Illumination	12V/20W Halogen Lamp, Brightness Adjustable	●	●			
	1W S-LED illumination, brightness adjustable	○	○			
Optional Accessories	Photo attachment, Video attachment, Polarization set, Phase contrast kit, Kohler Illumination	○	○			
Reflected Light Source		Excitation	Dichroic Mirror	Barrier Filter		
	Blue excitation	BP460~490	DM505	BA515	●	●
	Green excitation	BP510~550	DM570	BA590	●	●
Lamp	3W LED Lamp(465-476nm)	●	●			
	3W LED Lamp(525-530nm)	●	●			
Immersion Oil	Fluorescent Free Oil	●	●			
Package	2cartons/set, 38cm*26cm*51cm, 9kg; 44cm*38cm*17cm, 3kg	●	●			

Note: ●Standard Outfit, ○Optional

## Sample Image



## 28. BS-2073 Biological Microscope



BS-2073B

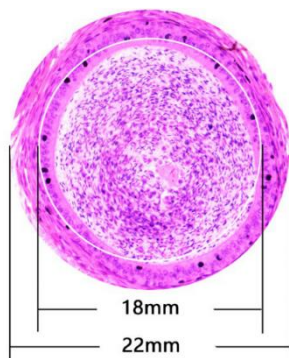
### Introduction

BS-2073 series microscopes are high level microscopes which are specially designed for college education, medical and laboratory research. With excellent optical quality, large field of view, excellent objective lens performance, clear and reliable imaging. Ergonomically designed to provide better comfort and experience, focus on the user's operating habits, and constantly optimize the details. The modular design allows for various viewing modes such as brightfield, darkfield, phase contrast, fluorescence, and simple polarizing. The intelligent design makes the microscope teaching more flexible and the teaching effect is better. Low maintenance costs and environmentally friendly.

### Features

#### 1. Excellent Optical Design.

- (1) NIS infinite Optical System. NIS infinite plan objectives can provide high contrast and very flat image up to FN22mm, the system always brings you sharp, high resolution and high signal to noise ratio imaging.
- (2) 22mm Wide Field of View. The microscopes achieve the wide field of 22mm view with 10× eyepieces. The eyepiece adopts a flat field distortion-free design to prevent the edge of the field from being imaginary and stray light.





(3) Various Observation methods. Besides bright field observation, dark field, phase contrast, fluorescent and simple polarizing observation methods are optional.

Observation Methods	Bright Field	Dark Field	Phase Contrast	Fluorescent	Simple Polarizing
	●	●	●	●	●

(4) Multifunctional Universal Condenser. BS-2073 series microscopes adopt a universal condenser for bright field, dark field and phase contrast. The observation methods could be quickly switched by changing the dark field and phase contrast slider. The phase contrast and bright field slider is universal for 4x-100x objectives, simple and fast to use. The aperture diaphragm of the condenser is easily set to get exact value of diaphragm to correspond with different objectives.



(5) LED EPI-Fluorescent Illumination. The LED EPI-Fluorescent Illumination is safe and convenient. There is no need to warm up or cool down, and also no need to align the bulb. The life time of LED bulb is up to 5000 hours. There are two filters position available and switch is fast and easy.



## 2. Infinite Plan Objectives.

The BS-2073 series microscopes have been fully optimized for various of microscopic applications, especially for beginners and the users with long time operation. The objectives provide high quality images and are easy to use.



(1) Plan Objective. With infinite plan objective, clear and flat image is over the entire field of view, image

reproduction is better.

(2) 100× Water-immersion Objective. Ordinary 100× oil-immersion objective needs to use cedar oil as the observation medium. After use, it needs to be cleaned with ether alcohol or xylene, which is easy to cause air pollution and improper cleaning. The water-immersion objective uses water as the medium, it is easy to clean, it also reduces the damage to the user’s health and environmental pollution.

(3) 40× LWD Objective. The working distance of 40× objective can be up to 1.5mm, avoiding the contamination from residual immersion oil or water when converted from 100× to 40× objective.

**3. This is an unbounded microscope.**

Multifunctional digital head is optional, the user does not have to be confined in front of the microscope. Instead, it can be used for mobile microscope teaching and outdoor field observation through mobile terminals and external mobile power. The objective, eyepiece and observation tube have been effectively anti-mold treated, so it can ensure a consistently clear image and extend the life of the microscope, even when working in hot and humid environments.

(1) Multifunctional Digital Head. The built-in camera, supporting Android, IOS, Windows operating system, wired and Wifi modes. Images can be output to the external device in real time, there is no data cable connection, the operator can move more freely.

(2) Professional microscopic imaging software. Microscopic imaging observation, analysis and processing can be performed on external devices, including photographing, measurement, image adjustment, storage, synthesis, etc.

(3) Perform image preview and processing by scanning with Mobile devices. By scanning the QR code on the microscope, installing the APP and identifying the microscope, you can view the microscopic image on your phone and tablet.



(4) External rechargeable battery can be used as the power source. A USB charging port is reserved on the back of the microscope, external rechargeable portable battery can be connected to this port and used as power source of the microscope. So this microscope can be used outdoor or during power outages.



**4. Easier to store and transport.**

The microscope is compact and can be placed in an ordinary classroom closet. It has a special carrying handle, and it is also light

weight and stable. There is a cord rest on back of the microscope to store the long power cord, improve the cleanliness of the laboratory and reduce the tripping accident which may be caused by the long power cord during the carrying process. The wooden storage box is optional, it is very convenient for storage and carrying.



**5. Ergonomic Design.**

In daily scientific research teaching and pathological diagnosis, working in front of the microscope for a long time has become normal, this always leads to fatigue and physical discomfort, thereby reducing work efficiency. BS-2073 series microscopes have adopted high eye-point, low-hand focus mechanism, low-hand stage and other ergonomic designs to ensure the user can perform microscope operation in the most comfortable situation. The focus knob, illumination control knob and stage handle are all proximal. The user can put both hands on the table while working, and can operate the microscope with minimal movement.



**Application**

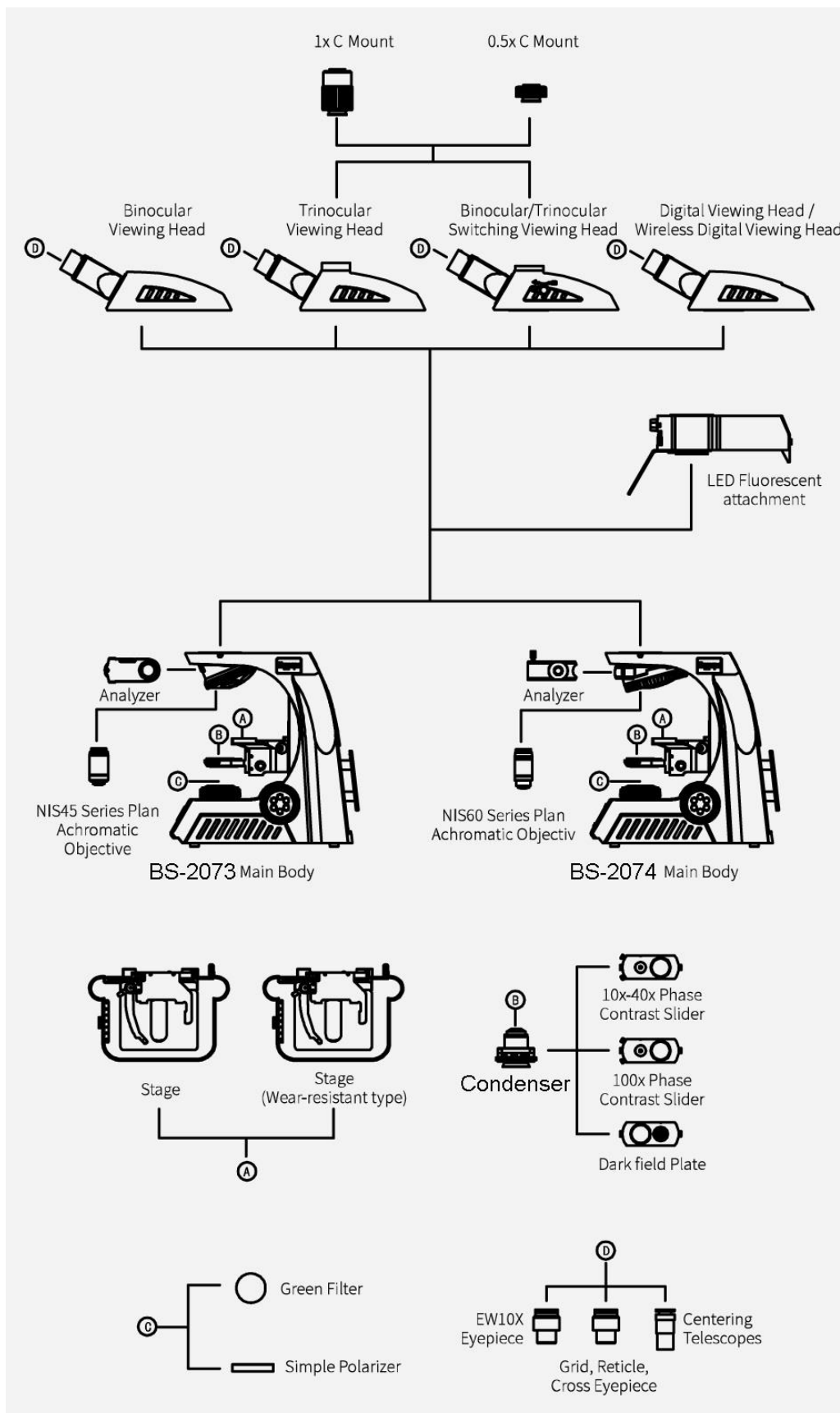
BS-2073 series microscopes are ideal instrument in biological, histological, pathological, bacteriology, immunizations and pharmacy field and can be widely used in medical and sanitary establishments, laboratories, institutes, academic laboratories, colleges and universities.

**Specification**

Item	Specification	BS-2073B	BS-2073T
Optical System	Infinite Optical System	●	●
Eyepiece	Extra Wide Field Eyepiece EW10×/22mm	●	●
	Wide Field Eyepiece WF15×/16	○	○
	Wide Field Eyepiece WF20×/12	○	○
Viewing Head	Seidentopf Binocular Viewing Head, Inclined at 30°, 360° Rotatable, Interpupillary 47-78mm, Anti-Fungus, Tube Diameter 30mm	●	
	Seidentopf Trinocular Viewing Head, Inclined at 30°, 360° Rotatable, Interpupillary 47-78mm, Splitting ratio 5:5, Anti-Fungus, Tube Diameter 30mm		●
	Seidentopf Binocular Viewing Head with Built-in 5.0MP Digital Camera, HDMI and Wifi output interface, Inclined at 30°, 360° Rotatable, Interpupillary 47-78mm, Anti-Fungus, Tube Diameter 30mm	○	○
Objective	NIS45 Infinite Plan Achromatic Objective 4× (N.A.:0.10, W.D.:20.6mm)	●	●
	NIS45 Infinite Plan Achromatic Objective 10× (N.A.:0.25, W.D.:18.0mm),	●	●
	NIS45 Infinite Plan Achromatic Objective 40× (N.A.:0.65, W.D.:1.5mm),	●	●
	NIS45 Infinite Plan Achromatic Objective 100× (Oil, N.A.:1.25, W.D.:0.3mm)	●	●
	NIS45 Infinite Plan Achromatic Objective 20× (N.A.:0.40, W.D.:6.4mm)	○	○
	NIS45 Infinite Plan Achromatic Objective 60× (N.A.:0.80, W.D.:0.3mm)	○	○
	NIS45 Infinite Plan Phase Contrast Achromatic Objective 10×, 20×, 40×, 100×	○	○
Nosepiece	Backward Quintuple Nosepiece	●	●
Stage	Rackless stage, Size 230×150mm, Moving Range 78×54mm	●	●
Condenser	Inserted Abbe Condenser NA1.25(Including Empty Plate)	●	●
	Bright Field-Phase Contrast Plate (4x-100x Universal)	○	○
	Bright Field-Dark Field Plate	○	○
Focusing	Coaxial coarse and fine adjustment, Coarse stroke 37.7mm per rotation, Fine stroke 0.2mm per rotation, Fine division 0.002mm, Moving range 30mm	●	●
Illumination	1W LED illumination, Brightness Adjustable	●	●
Fluorescent Attachment	3W LED, Two Filter Cubes (B, B1, G, U, V, R, Auramine O can be combined), Fly-eye Lens Illumination	○	○
Other Accessories	1× C-mount adapter	○	○
	0.5× C-mount adapter	○	○
	Simple Polarization Set	○	○
	Digital Camera	○	○
Filter	Green	●	●
	Blue, Yellow, Red	○	○
Package	1pc/carton, Carton size: 48cm*33cm*60cm, Net/Gross Weight: 10.5kg/12.5kg	●	●

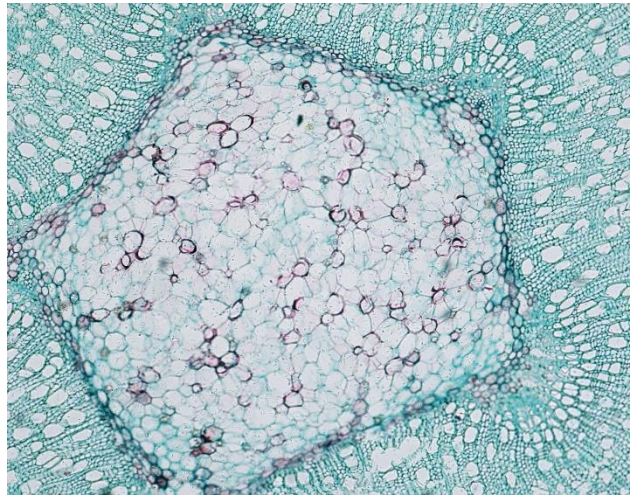
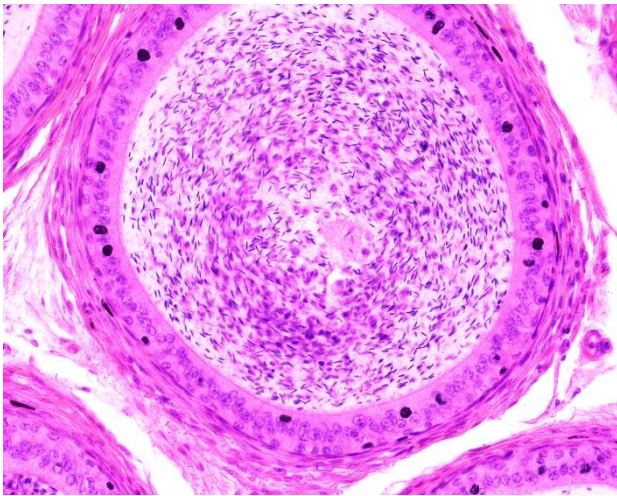
Note: ●Standard Outfit, ○Optional

System Diagram

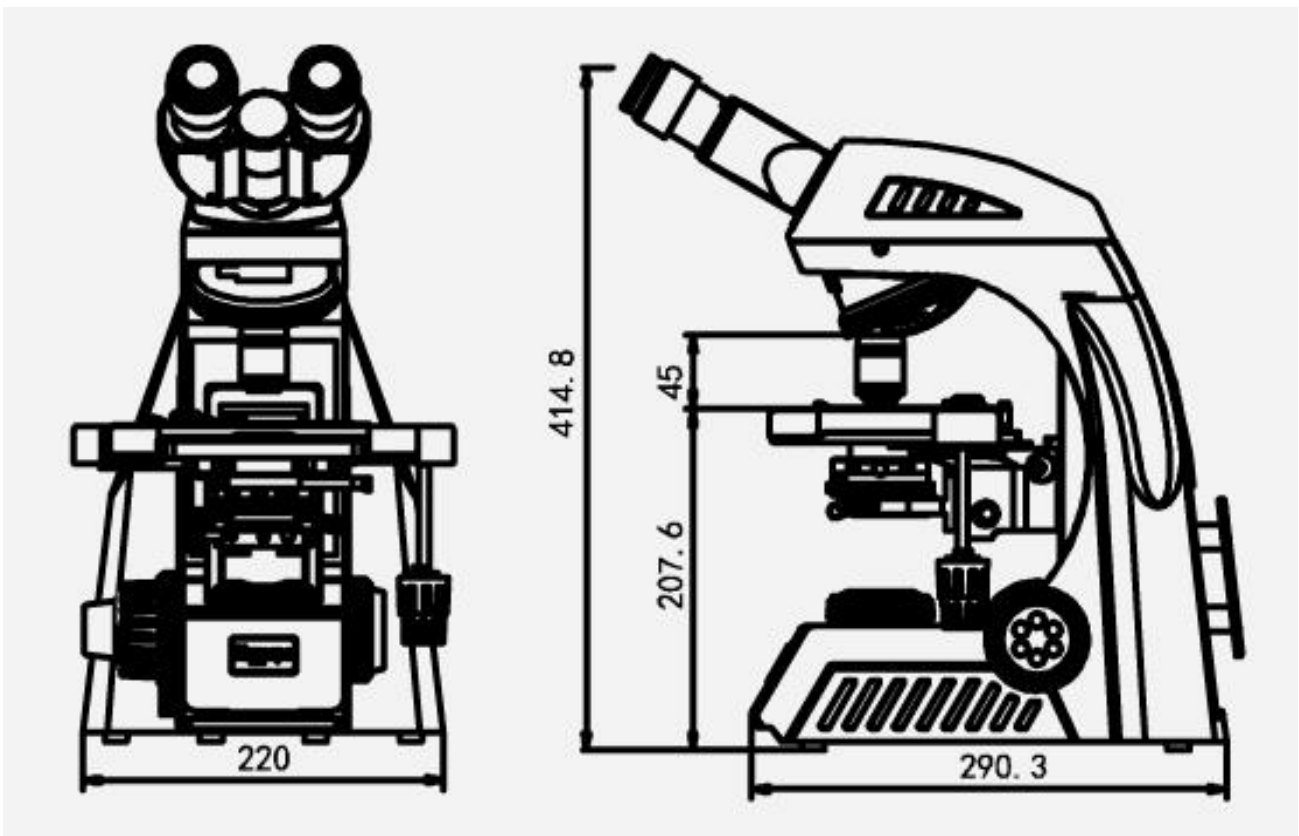




Sample Image



Dimension



Unit:mm

## 29. BS-2074 Biological Microscope



BS-2074B



BS-2074FB(LED)

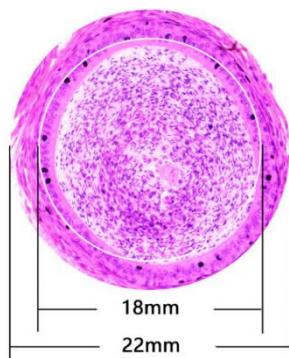
### Introduction

BS-2074 series microscopes are high level microscopes which are specially designed for college education, medical and laboratory research. With excellent optical quality, large field of view, excellent objective lens performance, clear and reliable imaging. Ergonomically designed to provide better comfort and experience, focus on the user's operating habits, and constantly optimize the details. The modular design allows for various viewing modes such as brightfield, darkfield, phase contrast, fluorescence and simple polarizing. The intelligent design makes the microscope teaching more flexible and the teaching effect is better. Low maintenance costs and environmentally friendly.

### Features

#### 1. Excellent Optical Design.

- (1) NIS infinite Optical System. NIS infinite plan objectives can provide high contrast and very flat image up to FN22mm, the system always brings you sharp, high resolution and high signal to noise ratio imaging.
- (2) 22mm Wide Field of View. The microscopes achieve the wide field of 22mm view with 10× eyepieces. The eyepiece adopts a flat field distortion-free design to prevent the edge of the field from being imaginary and stray light.



(3) Various Observation methods. Besides bright field observation, dark field, phase contrast, fluorescent and simple polarizing observation methods are optional.

Observation Methods	Bright Field	Dark Field	Phase Contrast	Fluorescent	Simple Polarizing
	●	●	●	●	●

(4) Multifunctional Universal Condenser. BS-2074 series microscopes adopt a universal condenser for bright field, dark field and phase contrast. The observation methods could be quickly switched by changing the dark field and phase contrast slider. The phase contrast and bright field slider is universal for 4x-100x objectives, simple and fast to use. The aperture diaphragm of the condenser is easily set to get exact value of diaphragm to correspond with different objectives.



(5) LED EPI-Fluorescent Illumination. The LED EPI-Fluorescent Illumination is safe and convenient. There is no need to warm up or cool down, and also no need to align the bulb. The life time of LED bulb is up to 5000 hours. There are two filters position available and switch is fast and easy.



## 2. Infinite Plan Objectives.

The BS-2074 series microscopes have been fully optimized for various of microscopic applications, especially for beginners and the users with long time operation. The objectives provide high quality images and are easy to use.





- (1) Plan Objective. With infinite plan objective, clear and flat image is over the entire field of view, image reproduction is better.
- (2) 100× Water-immersion Objective. Ordinary 100× oil-immersion objective needs to use cedar oil as the observation medium. After use, it needs to be cleaned with ether alcohol or xylene, which is easy to cause air pollution and improper cleaning. The water-immersion objective uses water as the medium, it is easy to clean, it also reduces the damage to the user’s health and environmental pollution.
- (3) 40× LWD Objective. The working distance of 40× objective can be up to 1.5mm, avoiding the contamination from residual immersion oil or water when converted from 100× to 40× objective.

**3. This is an unbounded microscope.**

Multifunctional digital head is optional, the user does not have to be confined in front of the microscope. Instead, it can be used for mobile microscope teaching and outdoor field observation through mobile terminals and external mobile power. The objective, eyepiece and observation tube have been effectively anti-mold treated, so it can ensure a consistently clear image and extend the life of the microscope, even when working in hot and humid environments.

(1) Multifunctional Digital Head. The built-in camera, supporting Android, IOS, Windows operating system, wired and Wifi modes. Images can be output to the external device in real time, there is no data cable connection, the operator can move more freely.



(2) Professional microscopic imaging software. Microscopic imaging observation, analysis and processing can be performed on external devices, including photographing, measurement, image adjustment, storage, synthesis, etc.

(3) Perform image preview and processing by scanning with Mobile devices. By scanning the QR code on the microscope, installing the APP and identifying the microscope, you can view the microscopic image on your phone and tablet.



(4) External rechargeable battery can be used as the power source. A USB charging port is reserved on the back of the microscope, external rechargeable portable battery can be connected to this port and used as power source of the microscope. So this microscope can be used outdoor or during power outages.



**4. Intelligent operating system.**

(1) Coded Nosepiece.

The BS-2074 series microscope can memorize the illumination brightness when using each objective. When the objective has been changed, the light intensity will be automatically adjusted to reduce visual fatigue and improve work efficiency.



(2) Use a dimming knob to achieve multiple functions.

One Click: Enter standby status

Double Clicks: Light lock or unlock

Rotation: Adjust brightness

Press + Up-spin: Switch to the upper light source

Press + Down-spin: Switch to the under light source

Press 3 seconds: Set the time of turning off the light after leaving



(3) The display of microscope working status.

The LCD on the front of the microscope can display the working status of the microscope, including magnification, light intensity, sleepy model and so on.



Start&working mode



Lock mode



ECO mode



Sleep mode

**5. Easier to store and transport.**

The microscope is compact and can be placed in an ordinary classroom closet. It has a special carrying handle, and it is also light weight and stable. There is a cord rest on back of the microscope to store the long power cord, improve the cleanliness of the laboratory and reduce the tripping accident which may be caused by the long power cord during the carrying process. The wooden storage box is optional, it is very convenient for storage and carrying.





### 6. Ergonomic Design.

In daily scientific research teaching and pathological diagnosis, working in front of the microscope for a long time has become normal, this always leads to fatigue and physical discomfort, thereby reducing work efficiency. BS-2074 series microscopes have adopted high eye-point, low-hand focus mechanism, low-hand stage and other ergonomic designs to ensure the user can perform microscope operation in the most comfortable situation. The focus knob, illumination control knob and stage handle are all proximal. The user can put both hands on the table while working, and can operate the microscope with minimal movement.



### Application

BS-2074 series microscopes are ideal instrument in biological, histological, pathological, bacteriology, immunizations and pharmacy field and can be widely used in medical and sanitary establishments, laboratories, institutes, academic laboratories, colleges and universities.

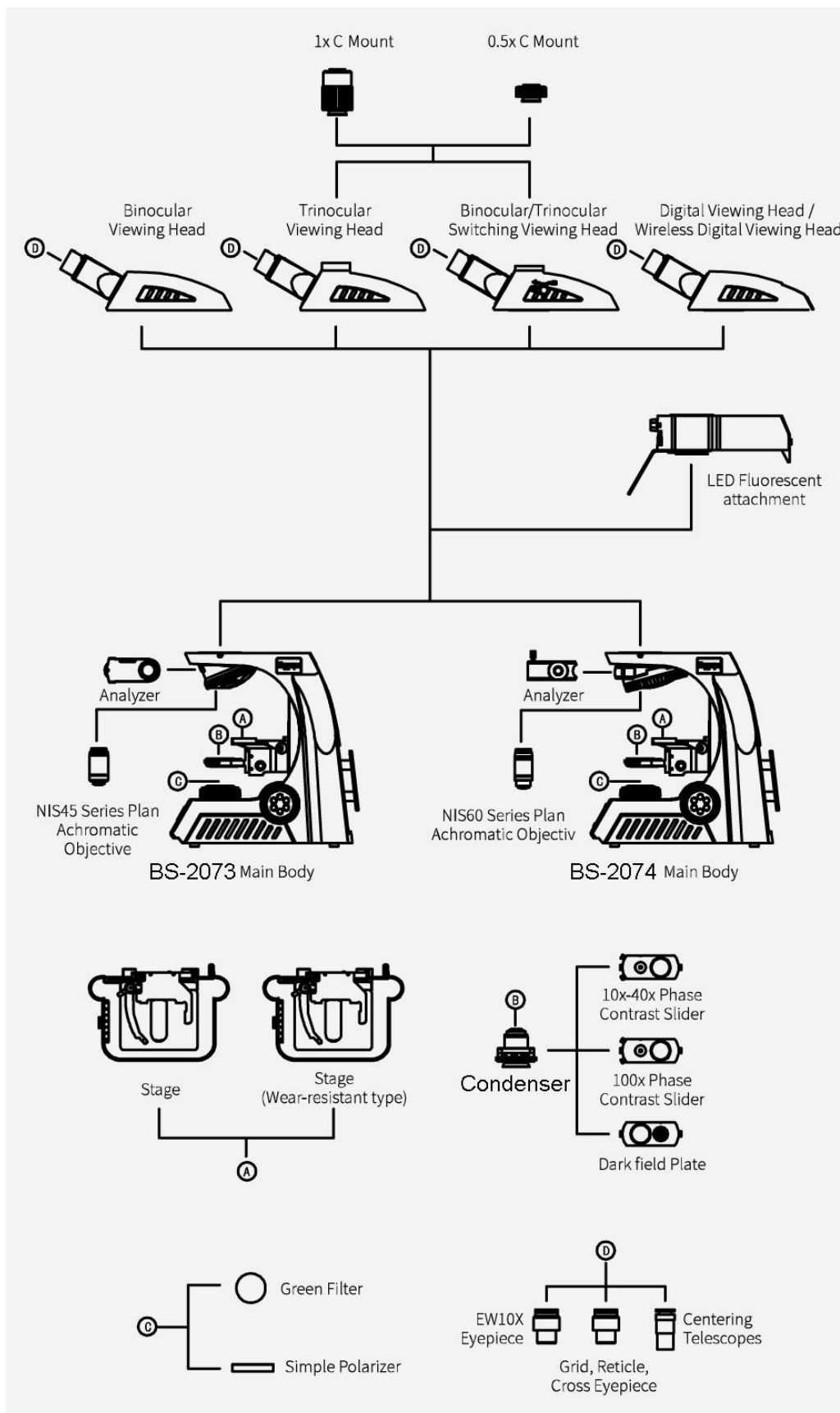
### Specification

Item	Specification	BS-2074B	BS-2074T
Optical System	Infinite Optical System	•	•
Eyepiece	Extra Wide Field Eyepiece EW10×/22mm	•	•
	Wide Field Eyepiece WF15×/16mm	○	○

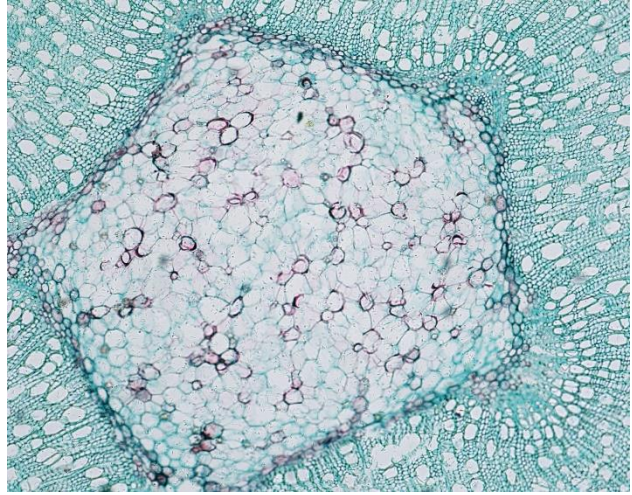
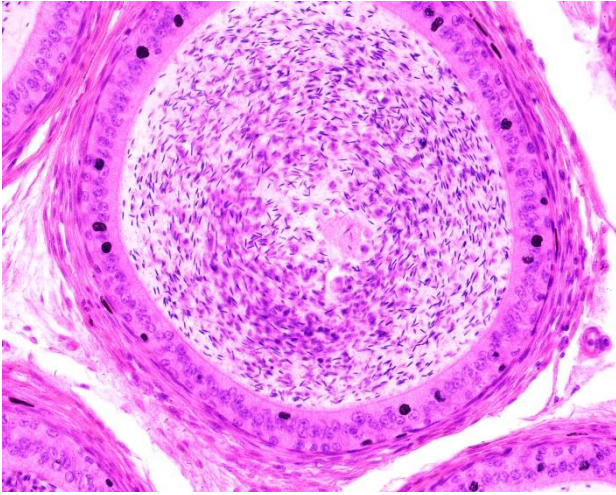
	Wide Field Eyepiece WF20×/12mm	○	○
Viewing Head	Seidentopf Binocular Viewing Head, Inclined at 30°, 360° Rotatable, Interpupillary 47-78mm, Anti-Fungus, Tube Diameter 30mm	●	
	Seidentopf Trinocular Viewing Head, Inclined at 30°, 360° Rotatable, Interpupillary 47-78mm, Splitting ratio 5:5, Anti-Fungus, Tube Diameter 30mm		●
	Seidentopf Binocular Viewing Head with Built-in 5.0MP Digital Camera, HDMI and Wifi output interface, Inclined at 30°, 360° Rotatable, Interpupillary 47-78mm, Anti-Fungus, Tube Diameter 30mm	○	○
Objective	NIS60 Infinite Plan Achromatic Objective 4× (N.A.:0.10, W.D.:30mm)	●	●
	NIS60 Infinite Plan Achromatic Objective 10× (N.A.:0.25, W.D.:10.2mm)	●	●
	NIS60 Infinite Plan Achromatic Objective 40× (N.A.:0.65, W.D.:1.5mm)	●	●
	NIS60 Infinite Plan Achromatic Objective 100× (Water, N.A.:1.10, W.D.:0.2mm)	●	●
	NIS60 Infinite Plan Achromatic Objective 20× (N.A.:0.40, W.D.:4.0mm)	○	○
	NIS60 Infinite Plan Achromatic Objective 60× (N.A.:0.80, W.D.:0.3mm)	○	○
	NIS60 Infinite Plan Achromatic Objective 100× (Oil, N.A.:1.25, W.D.:0.3mm)	○	○
	NIS60 Infinite Plan Phase Contrast Achromatic Objective 10×, 20×, 40×, 100×	○	○
	NIS60 Infinite Plan Semi-APO Fluorescent Objectives 4×, 10×, 20×, 40×, 100×	○	○
Nosepiece	Backward Quintuple Nosepiece(Coding)	●	●
Stage	Rackless stage, Size 230×150mm, Moving Range 78×54mm	●	●
Condenser	Inserted Abbe Condenser NA1.25(Including Empty Plate)	●	●
	Bright Field-Phase Contrast Plate (4x-100x Universal)	○	○
	Bright Field-Dark Field Plate	○	○
Focusing	Coaxial coarse and fine adjustment, Coarse stroke 37.7mm per rotation, Fine stroke 0.2mm per rotation, Fine division 0.002mm, Moving range 30mm	●	●
Illumination	3W S-LED (LCD Display Magnification, Timing Sleep, Brightness Indication and Lock, etc.)	●	●
Fluorescent Attachment	3W LED, Two Filter Cubes (B, B1, G, U, V, R, Auramine O can be combined), Fly-eye Lens Illumination	○	○
Other Accessories	1× C-mount adapter	○	○
	0.5× C-mount adapter	○	○
	Simple Polarization Set	○	○
	Digital Camera	○	○
Filter	Green	●	●
	Blue, Yellow, Red	○	○
Package	1pc/carton, Carton size: 48cm*33cm*60cm, Net/Gross Weight: 10.5kg/12.5kg	●	●

Note: ●Standard Outfit, ○Optional

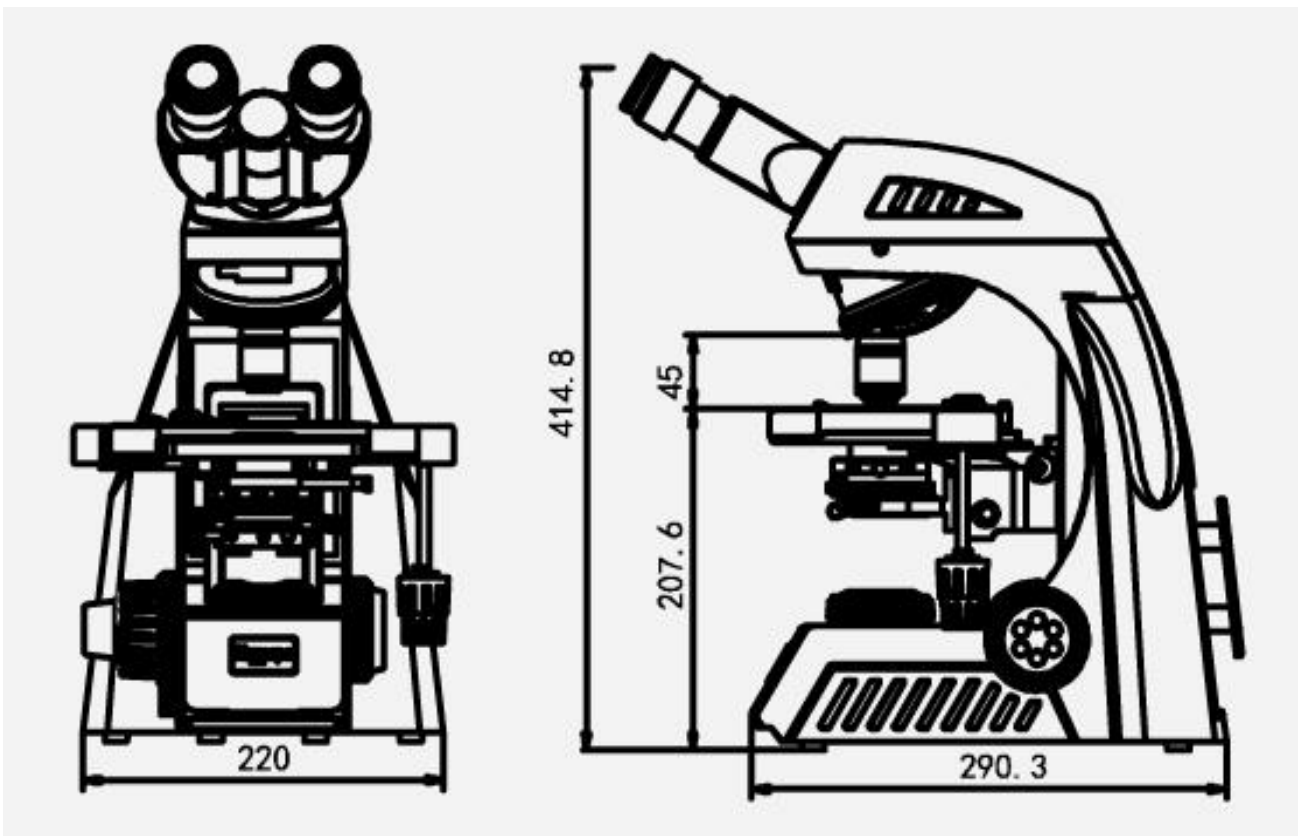
System Diagram



Sample Image



Dimension



Unit:mm



## 30. BS-2080 Laboratory Biological Microscope



### Introduction

BS-2080 Laboratory Biological Microscope is a high level microscope which is specially designed for laboratory research. It adopts an Infinite optical system, reasonable structure and ergonomic design. With an innovative optical and structure design idea, excellent optical performance and easy to operate system, this laboratory biological microscope makes your laboratory works enjoyable.

### Feature

1. With Infinite Optical System, Kohler Illumination, providing excellent optical quality and making Image perfect.
2. With low and forward position of coarse and fine coaxial focus system, focusing knobs and brightness adjustable knob within reaching location, stable integral structure, and reasonable ergonomic design, making operators feel more comfortable and effective.

### Application

This microscope is an ideal instrument in biological, histological, pathological, bacteriology, immunizations and pharmacy field and can be widely used in medical and sanitary establishments, laboratories, institutes, academic laboratories, colleges and universities.



Viewing Head



Comfortably Observing with Seidentopf Type Trinocular Head Inclined at 30°. Suitable for Every Observer with Wide Interpupillary Range 48-75mm.

Eyepiece



Larger Viewing Area with Extra Wide Field Eyepiece EW10×/22. Focus Control with Diopter Adjustable.

Nosepiece



Big Operating Space with Backward Quintuple Nosepiece.

Objective



Perfect Image with Infinite Plan Achromatic Objective.

Stage



Rectangle Double Layers Mechanical Stage 185×142mm, Moving Range 75×55mm. Comfortable Operation with Low Position Adjustable Knobs.

Condenser



With Swing Condenser N.A.0.9/0.25, Overcoming Illumination Asymmetry at Low Magnification Observation.

Field Diaphragm



With Aspherical Condenser and Kohler Illumination, Providing Enough, Even and High Contrast Illumination for Various Objective Observation.

Illuminator



External Illumination, Halogen Lamp 6V/30W, Brightness Adjustable. 24V/100W For Optional.

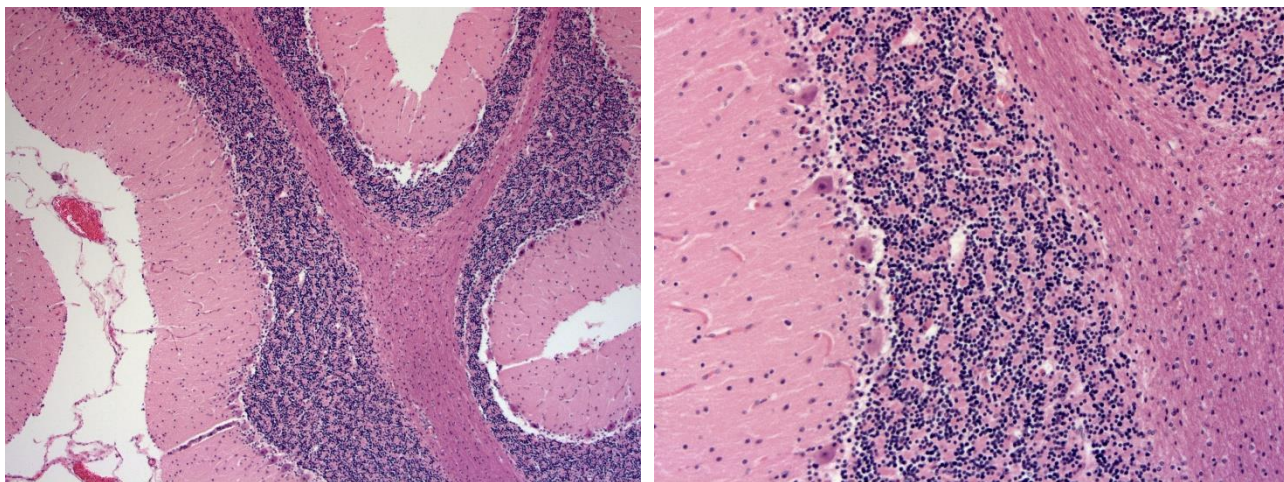
Specification

Item	Specification	BS-2080
Optical System	Infinite Optical System	●
Viewing Head	Siedentopf Trinocular Head, Inclined at 30°, 360° Rotatable, Interpupillary 48-75mm	●
	5°-35° Tilttable Binocular/ Trinocular Head	○
Eyepiece	Extra Wide Field Eyepiece EW10×/ 22mm, Eyepiece Tube Diameter 30mm	●
Nosepiece	Backward Quintuple Nosepiece	●

	Backward Sextuple Nosepiece	○	
Objective	Infinite Plan Achromatic Objective	2×/0.05, W.D.=18.3mm	○
		4×/0.10, W.D.=17.3mm	●
		10×/0.25, W.D.=10mm	●
		20×/0.40, W.D.=5.1mm	○
		40×/0.65(S), W.D.=0.54mm	●
		60×/0.8(S), W.D.=0.14mm	○
		100×/1.25(S, Oil), W.D.=0.13mm	●
	Infinite Plan Fluorescent Objective	4×/0.13, W.D.=16.3mm	○
		10×/0.30, W.D.=12.4mm	○
		20×/0.50, W.D.=1.5mm	○
40×/0.75(S), W.D.=0.35mm		○	
100×/1.3(S, Oil), W.D.=0.13mm		○	
Condenser	Swing-out Condenser NA 0.9/ 0.25	●	
Focusing	Coaxial Coarse and Fine Adjustment, Fine Division 0.001mm, Coarse Stroke 37.7mm per Rotation, Fine Stroke 0.1mm per Rotation, Moving Range 24mm	●	
Stage	Double Layers Mechanical Stage 185×142mm, Moving Range 75×55mm	●	
Illumination	External Illumination, Aspherical Collector with Kohler Illumination, Halogen Lamp 6V/30W, Brightness Adjustable	●	
	External Illumination, Aspherical Collector with Kohler Illumination, Halogen Lamp 24V/100W, Brightness Adjustable	○	
	3W LED Illumination, Brightness Adjustable	○	
	5W LED Illumination, Brightness Adjustable	○	
Video Adapter	C-Mount 1×	○	
	C-Mount 0.5×	○	
Filter	Blue Filter	●	
	Green Filter	●	
Dark Field Attachment	Dark-field Condenser(Dry)	○	
	Dark-field Condenser(Oil)	○	
Accessories	Photo Attachment for Nikon or Canon DSLR cameras	○	
	Polarization Attachment	○	
	Turret Phase Contrast Kit	○	
	FL-800 Epi-fluorescent Attachment	○	
	FL-LED Epi-fluorescent Attachment	○	
	Temperature Control Stage	○	
Package	1carton/set, 43.5cm*39.5cm*59cm, 14kg	●	

Note: ● Standard Outfit, ○ Optional

Sample Image



System Diagram



\* Viewing field of auxiliary objective is  $\Phi 20$  when with the accessories

## 31. BS-2080F(LED) Fluorescent Biological Microscope



### Introduction

BS-2080F(LED) Series LED fluorescence microscopes is a newly developed microscope, the microscope uses LED as the fluorescent light source, the life span of the LED lamp is much longer than mercury lamp, the performance is also better.

### Feature

1. Excellent fluorescent image with infinite optical system.
2. LED illumination with 50,000 hours life span.
3. No need for cooling system and protection device due to LED cold light source.
4. 465-476nm excited wavelength with high SNR.
5. Convenient to use, no need warm-up.
6. More fluorescent filters are available for different applications.

### Application

BS-2080F(LED) LED Fluorescence microscope is used to study the absorbing, transportation, chemicals distribution and positioning in cells. It is widely used in disease examination, immune diagnosis and life science areas.

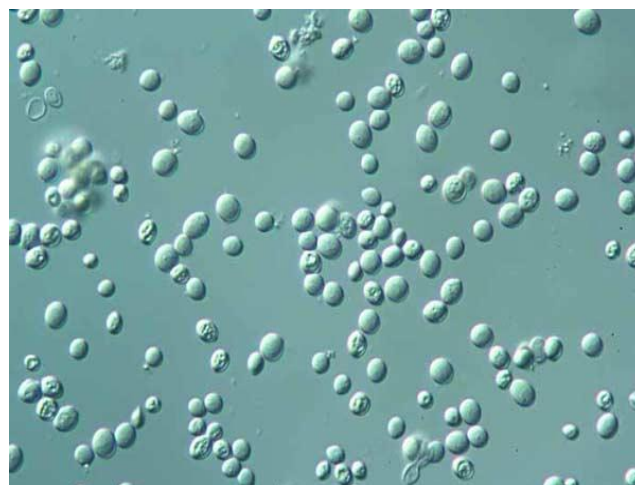
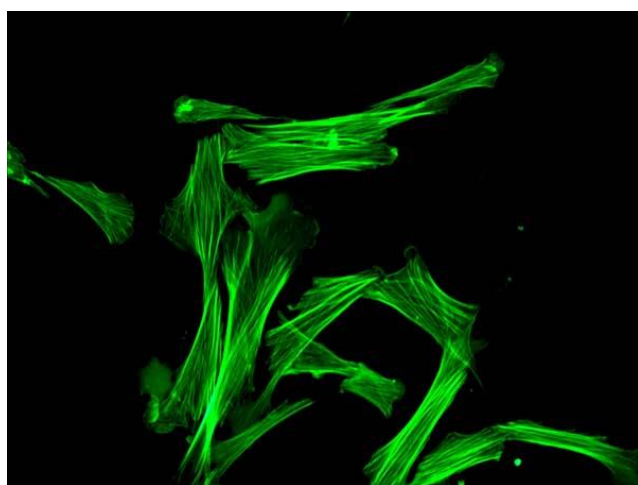


### Specification

Item	Specification				BS-2080F(LED)
Optical System	Infinite Optical System				●
Viewing Head	Seidentopf Trinocular Head, Inclined at 30°, 360° Rotatable, Interpupillary Distance 48-75mm				●
Eyepiece	Wide Field Eyepiece WF10×/22mm				●
Nosepiece	Backward Quintuple Nosepiece				●
Objective	Infinite Plan Achromatic Objective 4×, 10×, 40×, 100×				●
	Infinite Plan Achromatic Objective 20×, 60×,				○
	Infinite Plan Fluorescent Objective 4×,10×,20×,40×, 100×				○
Condenser	Swing Condenser NA 0.9/0.25				●
Focusing	Coaxial Coarse and Fine Adjustment, Fine Division 0.001mm, Coarse Stroke 37.7mm per Rotation, Fine Stroke 0.1mm per Rotation, Moving Range 24mm				●
Stage	Double Layers Mechanical Stage 185×142/ 75×55 mm				●
Photo Adapter	Used to connect Nikon or Canon DSLR camera				○
Video Adapter	1× C-mount, 0.5× C-mount				○
Transmitted Illumination	External Kohler illumination, Aspherical collector, Halogen lamp 6V/30W				●
Reflected Light Source		Excitation	Dichroic Mirror	Barrier Filter	
	Blue excitation	BP460~490	DM505	BA515	●
	Green excitation	BP510~550	DM570	BA590	●
Lamp	3W LED Lamp(465-476nm)				●
	3W LED Lamp(525-530nm)				●
Immersion Oil	Fluorescent Free Oil				●

Note: ●Standard Outfit, ○Optional

### Sample Images



## 32. BS-2081 Research Biological Microscope



### Introduction

BS-2081 biological microscope has been designed to present a safe, comfortable and precision observation experience. With perfectly performed structure, high-definition optical image and ergonomical operating system, BS-2081 realizes professional analysis and meets all the needs of research in biological, medical, life science and other fields.

### Features

#### 1. Sapphire Glass Stage is optional.



Mechanical stage with sapphire glass insert is optional, it is durable, never could be scratched and allows users to clear the stage easily.

#### 2. Put Slide by One Hand.



It is easy for users to put slides by one hand due to the special designed slide clip.

**3. Tilting Trinocular Head is optional.**



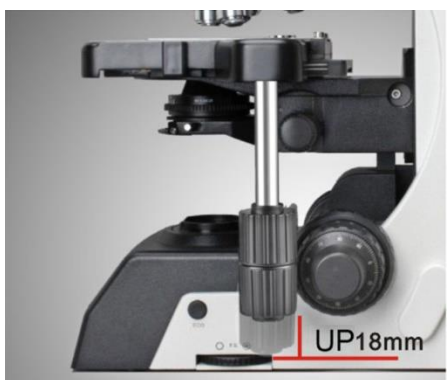
- (1) The eye tube can be adjusted from 0°-35°.
- (2) Digital cameras or DSLR cameras can be connected to the trinocular tube.
- (3) The beam splitter has 3-position (100:0, 20:80, 0:100).
- (4) The splitter bar can be assembled on the either side according to user's requirements.

**4. ECO Function.**



The transmitted light would be off automatically after 30 minutes from operators leave. It can not only save energy, but also keep the lamp life longer.

**5. Low Position X-Y Knobs.**



The height of the stage control knobs can be adjusted up or down by 18mm to ensure a comfortable hand position, the tension of X-Y control knob also can be adjusted.

**Application**

BS-2081 research microscope is an ideal instrument in biological, histological, pathological, bacteriology, immunizations and pharmacy field and can be widely used in medical and sanitary establishments, laboratories, institutes, academic laboratories, colleges and universities.

**Specification**

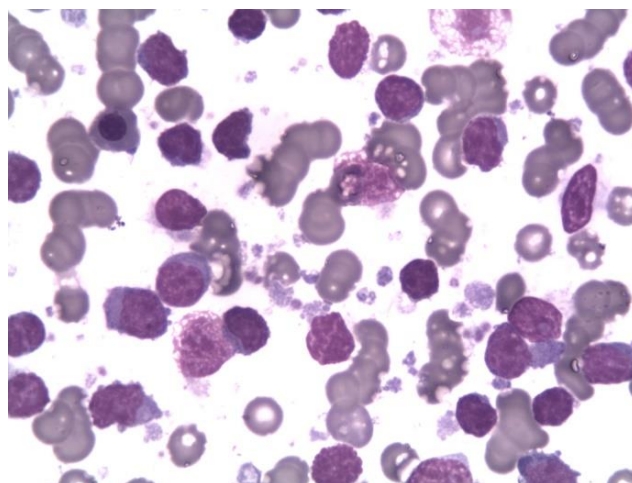
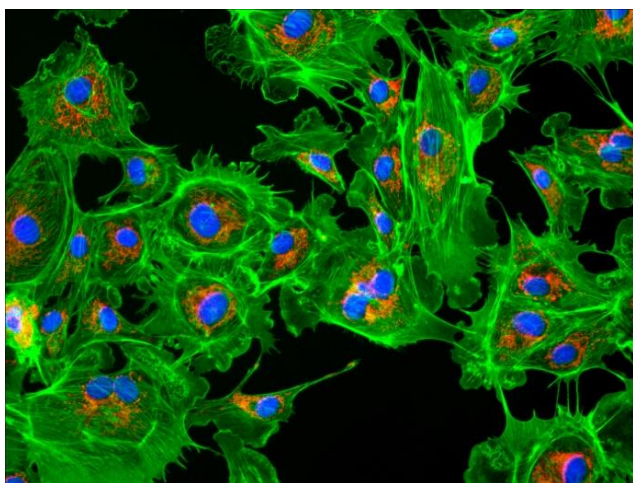
Item	Specification	BS-2081
Optical System	NIS60 Infinite Color Corrected Optical System	•
Viewing Head	Seidentopf Trinocular Head, 30° inclined, interpupillary distance: 47mm-78mm; splitting ratio Eyepiece:Trinocular=100:0 or 20:80 or 0:100	•

	Ergo Tilting Trinocular Head, adjustable 0-35° inclined, interpupillary distance 47mm-78mm; splitting ratio Eyepiece:Trinocular=100:0 or 20:80 or 0:100	○	
	Seidentopf Binocular Head, 30° inclined, interpupillary distance: 47mm-78mm	○	
Eyepiece	Super wide field plan eyepiece SW10X/25mm, diopter adjustable	●	
	Super wide field plan eyepiece SW10X/22mm, diopter adjustable	○	
	Extra wide field plan eyepiece EW12.5X/16mm, diopter adjustable	○	
	Wide field plan eyepiece WF15X/16mm, diopter adjustable	○	
	Wide field plan eyepiece WF20X/12mm, diopter adjustable	○	
Objective	N-PLN Plan Objective	N-PLN 2X/NA=0.06, WD=7.5mm	○
		N-PLN 4X/NA=0.10, WD=30mm	●
		N-PLN 10X/NA=0.25, WD=10.2mm	●
		N-PLN 20X/NA=0.40, WD=12mm	●
		N-PLN 40X/NA=0.65, WD=0.7mm	●
		N-PLN 100X(Oil)/NA=1.25, WD=0.2mm	●
		N-PLN 50X(Oil)/NA=0.95, WD=0.19mm	○
		N-PLN 60X/NA=0.80, WD=0.3mm	○
	N-PLN PH Plan Phase Contrast Objective	N-PLN-I 100X (Oil, with Iris Diaphragm)/ NA=0.5-1.25, WD=0.2mm	○
		N-PLN PH 10X/NA=0.25, WD=10.2mm	○
		N-PLN PH 20X/NA=0.40, WD=12mm	○
		N-PLN PH 40X/NA=0.65, WD=0.7mm	○
	N-PLFN Plan Semi-apochromatic Fluorescent Objective	N-PLN PH 100X(Oil)/NA=1.25, WD=0.2mm	○
		N-PLFN 4X/NA=0.13, WD=17.2mm	○
		N-PLFN 10X/NA=0.30, WD=16.0mm	○
N-PLFN 20X/NA=0.50, WD=2.1mm		○	
N-PLFN 40X/NA=0.75, WD=1.5mm		○	
N-PLFN 100X(Oil)/NA=1.4, WD=0.16mm	○		
Nosepiece	Backward Sextuple Nosepiece (with DIC slot)	●	
Condenser	Swing-out type condenser N.A.0.9/0.25	●	
	Turret Phase Contrast Condenser	○	
	Dark-field Condenser (Dry), used for objectives lower than 100X	○	
	Dark-field Condenser (Oil), used for 100X objective	○	
Transmitted Illumination	3W S-LED lamp, center pre-set, intensity adjustable	●	
	12V/100W halogen lamp, center pre-set, intensity adjustable	○	
Focusing	Low-position coaxial coarse and fine focusing, fine division 1μm, Moving range 35mm	●	
Stage	Double layers mechanical stage, size 190mmX152mm; moving range 78mmX54mm (double slide holder, Right or left handle); precision: 0.1mm	●	
	Double layers mechanical stage, size 190mmX152mm; moving range 78mmX54mm (double slide holder, Right or left handle); precision: 0.1mm; with Sapphire Crystal Glass Insert	○	
DIC Kit	10X DIC Objective Lens	○	
	20X DIC Objective Lens	○	
	Polarizer for DIC Kit	○	

	DIC insert plate(10X/20X), can be inserted into the DIC slot on nosepiece	○
	DIC insert plate(40X/100X) can be inserted into the DIC slot on nosepiece	○
	DIC Turret Condenser	○
Reflected fluorescence illuminator	Turret with 6 filter block cubes position, with iris field diaphragm and aperture diaphragm, central adjustable; with filter slot and polarizing slot; with fluorescence filters (B,G,U,V,R fluorescent filters are available).	○
	100W mercury lamp house, filament center and focus adjustable; with reflected mirror, mirror center and focus adjustable.	○
	Digital power controller, wide voltage 100-240VAC	○
	ND6/ND25 Filter	○
Other Accessories	0.5X C-mount Adapter	○
	1X C-mount Adapter	○
	Dust Cover	●
	Power Cord	●
	Cedar Oil 5ml	●
	Simple Polarizing kit	○
	Calibration slide 0.01mm	○
	Multi Viewing Attachment for 2/3/5/7/10 person	○

Note: ● Standard Outfit, ○ Optional

### Sample Image



### Accessories

1. N-PLN Series Plan Objectives.





The Plan objectives can provide flat high transmittance image from visible light to NIR light. They are usually used for bright-field viewing as the high signal-to-noise, high resolution and high contrast features.

**2. N-PLN PH Series Plan Phase Contrast Objectives.**



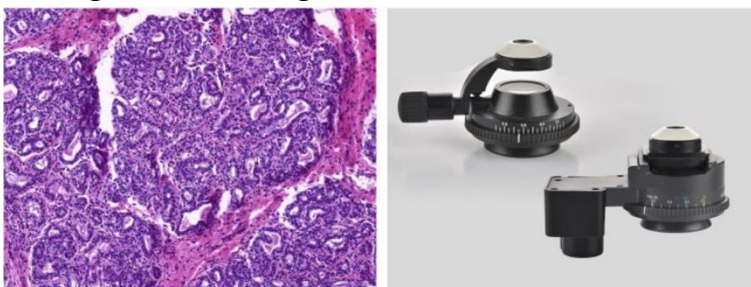
These plan phase contrast objectives are specially designed for phase contrast observation. They are good choice for clinic and scientific research. These objectives can provide advanced flat image of 25mm FOV under transmitted bright field.

**3. N-PLFN Series Plan Semi-APO Fluorescent Objectives.**



Owe to the multilayers coating technology, these Semi-APO objectives can compensate the spherical aberration and the chromatic aberration from ultraviolet and infrared light. High-sensitive fluorescence performance of the objectives ensures the sharpness, definition and color rendition of images.

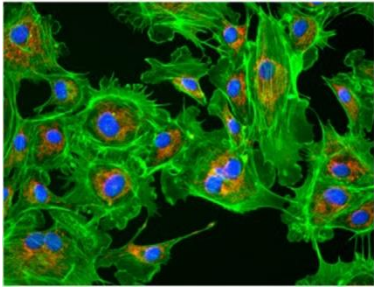
**4. Bright field Viewing.**



Mammary Gland (active stage)

Brighter image, high resolution and flatness, suitable for all the magnifications.

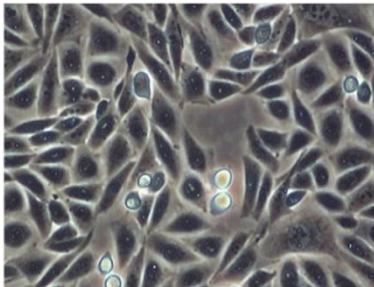
**5. Fluorescent Viewing.**



The compact epi-fluorescent components include noise elimination feature which ensures images captured are bright, with high contrast and high signal-to-noise ratio.

Arterial Cell

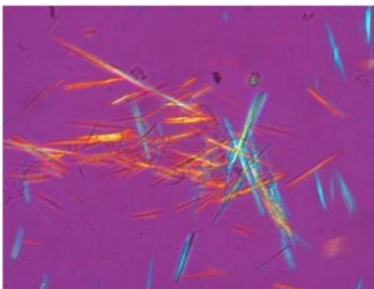
**6. Phase Contrast Viewing.**



Users can get high contrast image of neutral background color whatever the magnification is. It is suitable for viewing non-stained specimen.

Rat Ovarian Cell

**7. Polarizing Viewing.**



It is quite suitable for viewing collagen, amyloid and crystal etc., double refracting specimens.

Uric Acid Crystal

**8. Dark-field Viewing.**



It can be used for clearly viewing of blood or flagellum etc., fine structure.

Spirogyra

**9. Multi Viewing Heads.**



BS-2081MH4A (For 2 users, Face to Face)



BS-2081MH4B (For 2 users, Side to Side)

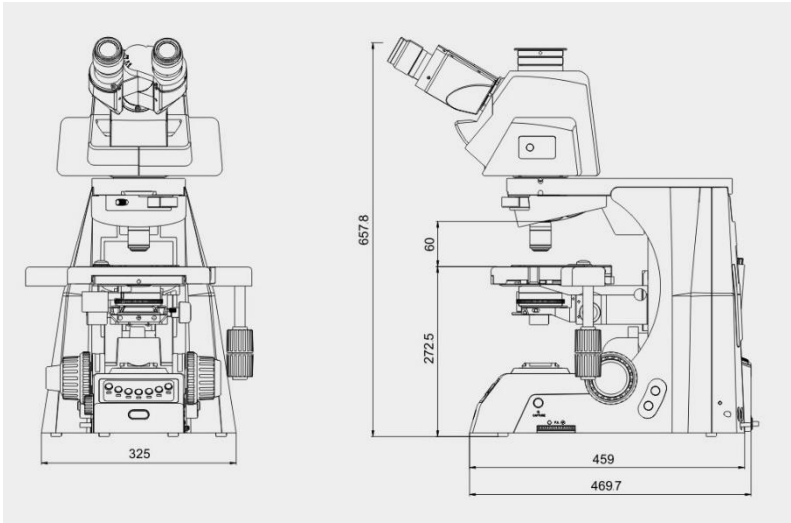


BS-2081MH10(For 5 users)



BS-2081MH20 (For 10 users)

**Dimension**



Unit: mm

### 33. BS-2081F Research Fluorescent Biological Microscope



#### Introduction

BS-2081F biological fluorescent microscope has been designed to present a safe, comfortable and precision observation experience. B, G, U, V, R fluorescent filters are available. With perfectly performed structure, high-definition optical image and ergonomical operating system, BS-2081F realizes professional analysis and meets all the needs of research in biological, medical, life science and other fields.

#### Features

##### 1. Sapphire Glass Stage is optional.



Mechanical stage with sapphire glass insert is optional, it is durable, never could be scratched and allows users to clear the stage easily.

##### 2. Put Slide by One Hand.



It is easy for users to put slides by one hand due to the special designed slide clip.



**3. Tilting Trinocular Head is optional.**



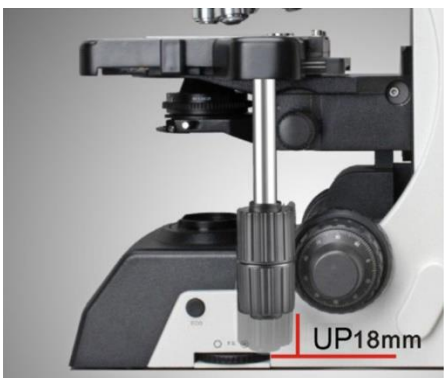
- (5) The eye tube can be adjusted from 0°-35°.
- (6) Digital cameras or DSLR cameras can be connected to the trinocular tube.
- (7) The beam splitter has 3-position (100:0, 20:80, 0:100).
- (8) The splitter bar can be assembled on the either side according to user's requirements.

**4. ECO Function.**



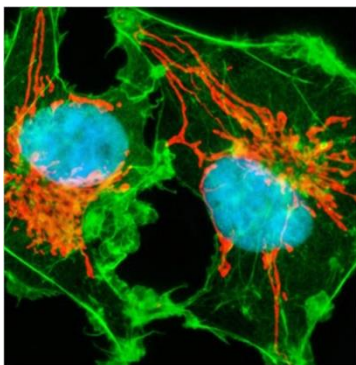
The transmitted light would be off automatically after 30 minutes from operators leave. It can not only save energy, but also keep the lamp life longer.

**5. Low Position X-Y Knobs.**



The height of the stage control knobs can be adjusted up or down by 18mm to ensure a comfortable hand position, the tension of X-Y control knob also can be adjusted.

**6. 6-Position Turret for fluorescent filter blocks.**



All the fluorescent filter blocks use the high-performance filter lens. Up to 6 filter blocks can be installed in the turret, that allows users to view different stained specimens at the same time.

Animal Fiber Cell

## Application

This microscope is an ideal instrument in biological, histological, pathological, bacteriology, immunizations and pharmacy field and can be widely used in medical and sanitary establishments, laboratories, institutes, academic laboratories, colleges and universities.

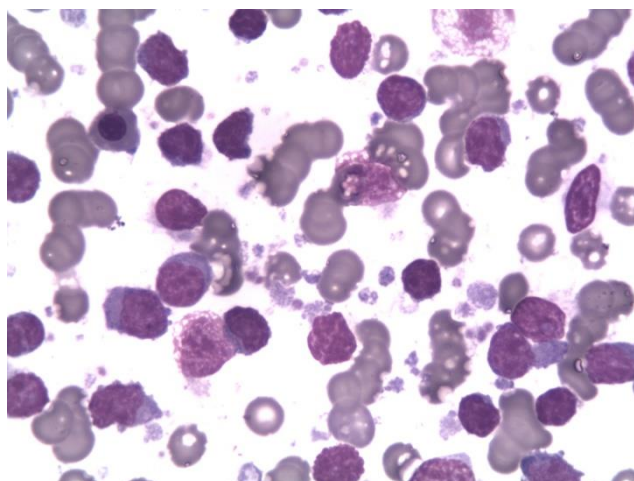
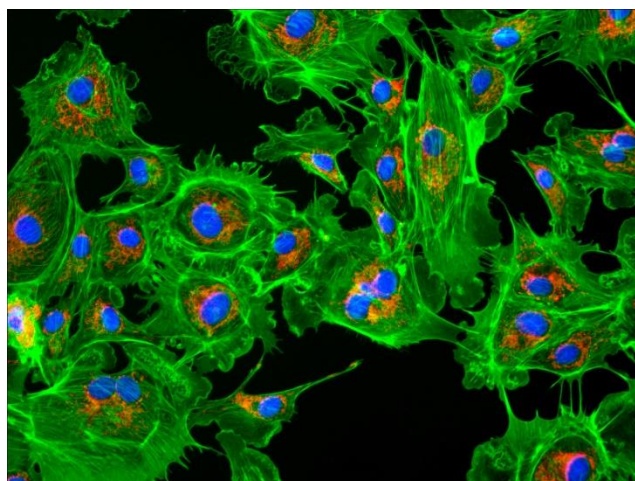
## Specification

Item	Specification	BS-2081F	
Optical System	NIS60 Infinite Color Corrected Optical System	●	
Viewing Head	Seidentopf Trinocular Head, 30° inclined, interpupillary distance: 47mm-78mm; splitting ratio Eyepiece:Trinocular=100:0 or 20:80 or 0:100	●	
	Ergo Tilting Trinocular Head, adjustable 0-35° inclined, interpupillary distance 47mm-78mm; splitting ratio Eyepiece:Trinocular=100:0 or 20:80 or 0:100	○	
	Seidentopf Binocular Head, 30° inclined, interpupillary distance: 47mm-78mm	○	
Eyepiece	Super wide field plan eyepiece SW10X/25mm, diopter adjustable	●	
	Super wide field plan eyepiece SW10X/22mm, diopter adjustable	○	
	Extra wide field plan eyepiece EW12.5X/16mm, diopter adjustable	○	
	Wide field plan eyepiece WF15X/16mm, diopter adjustable	○	
	Wide field plan eyepiece WF20X/12mm, diopter adjustable	○	
Objective	N-PLN Plan Objective	N-PLN 2X/NA=0.06, WD=7.5mm	○
		N-PLN 4X/NA=0.10, WD=30mm	●
		N-PLN 10X/NA=0.25, WD=10.2mm	●
		N-PLN 20X/NA=0.40, WD=12mm	●
		N-PLN 40X/NA=0.65, WD=0.7mm	●
		N-PLN 100X(Oil)/NA=1.25, WD=0.2mm	●
		N-PLN 50X(Oil)/NA=0.95, WD=0.19mm	○
		N-PLN 60X/NA=0.80, WD=0.3mm	○
	N-PLN PH Plan Phase Contrast Objective	N-PLN PH 10X/NA=0.25, WD=10.2mm	○
		N-PLN PH 20X/NA=0.40, WD=12mm	○
		N-PLN PH 40X/NA=0.65, WD=0.7mm	○
		N-PLN PH 100X(Oil)/NA=1.25, WD=0.2mm	○
	N-PLFN Plan Semi-apochromatic Fluorescent Objective	N-PLFN 4X/NA=0.13, WD=17.2mm	○
		N-PLFN 10X/NA=0.30, WD=16.0mm	○
		N-PLFN 20X/NA=0.50, WD=2.1mm	○
N-PLFN 40X/NA=0.75, WD=1.5mm		○	
N-PLFN 100X(Oil)/NA=1.4, WD=0.16mm		○	
Nosepiece	Backward Sextuple Nosepiece (with DIC slot)	●	
Condenser	Swing-out type condenser N.A.0.9/0.25(Auto)	●	
	Turret Phase Contrast Condenser	○	
	Dark-field Condenser (Dry), used for objectives lower than 100X	○	
	Dark-field Condenser (Oil), used for 100X objective	○	

Transmitted Illumination	3W S-LED lamp, center pre-set, intensity adjustable	●
	12V/100W halogen lamp, center pre-set, intensity adjustable	○
Focusing	Low-position coaxial coarse and fine focusing, fine division 1μm, Moving range 35mm	●
Stage	Double layers mechanical stage, size 190mmX152mm; moving range 78mmX32mm (Right or left handle); precision: 0.1mm	●
	Double layers mechanical stage, size 190mmX152mm; moving range 78mmX32mm (Right or left handle); precision: 0.1mm; with Sapphire Crystal Glass Insert	○
DIC Kit	10X DIC Objective Lens	○
	20X DIC Objective Lens	○
	Polarizer for DIC Kit	○
	DIC insert plate(10X/20X), can be inserted into the DIC slot on nosepiece	○
	DIC insert plate(40X/100X) can be inserted into the DIC slot on nosepiece	○
	DIC Turret Condenser	○
Reflected fluorescence illuminator	Turret with 6 filter block cubes position, with iris field diaphragm and aperture diaphragm, central adjustable; with filter and polarizing slot; fluorescence filters (B,G fluorescent filters).	●
	U,V,R fluorescent filters	○
	100W mercury lamp house, filament center and focus adjustable; with reflected mirror, mirror center and focus adjustable.	●
	Digital power controller, wide voltage 100-240VAC	●
	ND6/ND25 Filter	○
Other Accessories	0.5X C-mount Adapter	○
	1X C-mount Adapter	○
	Dust Cover	●
	Power Cord	●
	Cedar Oil 5ml	●
	Simple Polarizing kit	○
	Calibration slide 0.01mm	○
	Multi Viewing Attachment for 2/3/5/7/10 person	○

Note: ● Standard Outfit, ○ Optional

## Sample Image



**Accessories**

**1. N-PLN Series Plan Objectives.**



The Plan objectives can provide flat high transmittance image from visible light to NIR light. They are usually used for bright-field viewing as the high signal-to-noise, high resolution and high contrast features.

**2. N-PLN PH Series Plan Phase Contrast Objectives.**



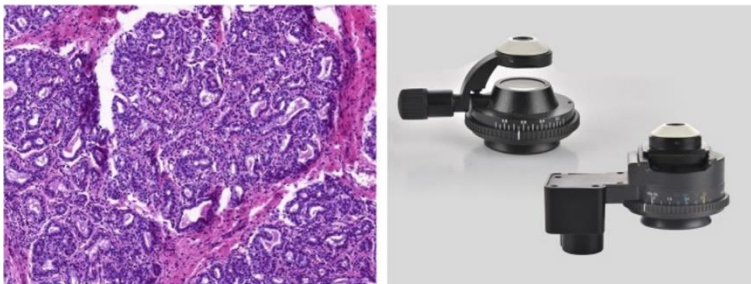
These plan phase contrast objectives are specially designed for phase contrast observation. They are good choice for clinic and scientific research. These objectives can provide advanced flat image of 25mm FOV under transmitted bright field.

**3. N-PLFN Series Plan Semi-APO Fluorescent Objectives.**



Owe to the multilayers coating technology, these Semi-APO objectives can compensate the spherical aberration and the chromatic aberration from ultraviolet and infrared light. High-sensitive fluorescence performance of the objectives ensures the sharpness, definition and color rendition of images.

**4. Bright field Viewing.**

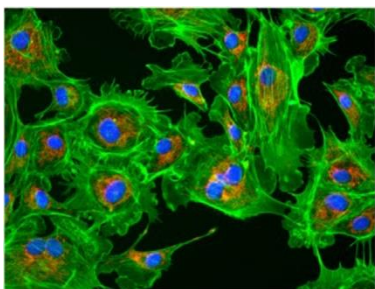


Mammary Gland (active stage)

Brighter image, high resolution and flatness, suitable for all the magnifications.



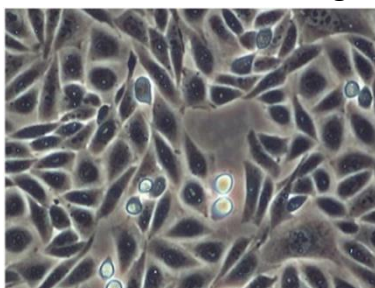
**5. Fluorescent Viewing.**



Arterial Cell

The compact epi-fluorescent components include noise elimination feature which ensures images captured are bright, with high contrast and high signal-to-noise ratio.

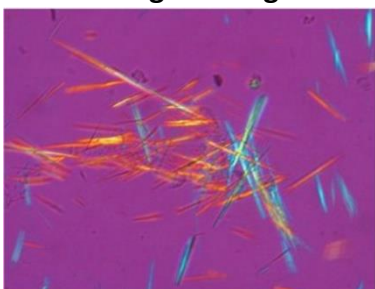
**6. Phase Contrast Viewing.**



Rat Ovarian Cell

Users can get high contrast image of neutral background color whatever the magnification is. It is suitable for viewing non-stained specimen.

**7. Polarizing Viewing.**



Uric Acid Crystal

It is quite suitable for viewing collagen, amyloid and crystal etc., double refracting specimens.

**8. Dark-field Viewing.**



Spirogyra

It can be used for clearly viewing of blood or flagellum etc., fine structure.



**9. Multi Viewing Heads.**



2 Viewing heads (Face to Face)



2 Viewing heads (Side to Side)



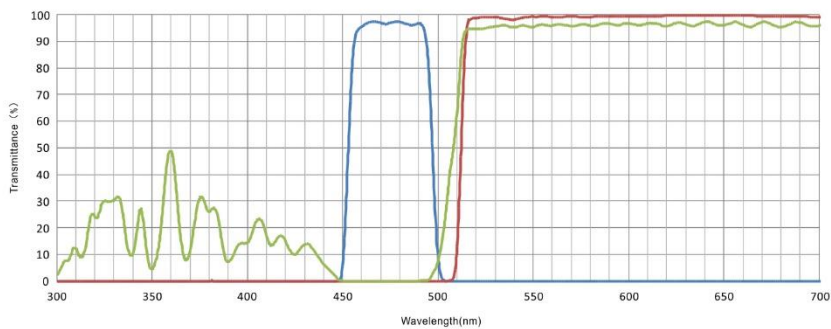
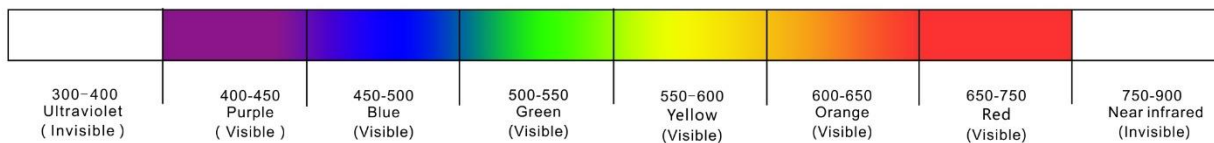
5 Viewing heads

**10. Fluorescent filters.**

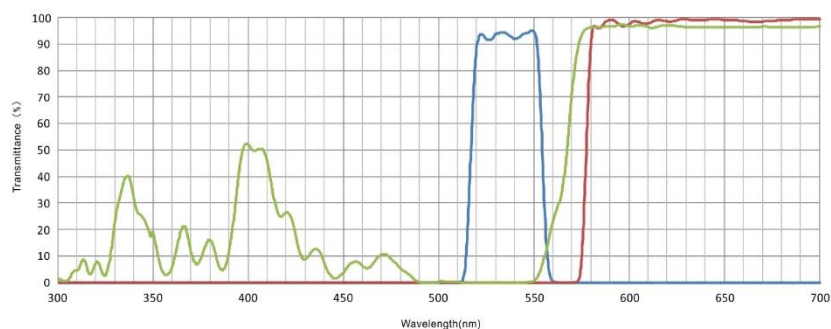


Model	Description	Excitation	Dichroic Mirror	Barrier Filter
FL-B	B filter block	BP460-495	DM505	BA510
FL-B1	B1 filter block	BP460-495	DM505	BA510-550
FL-G	G filter block	BP510-550	DM570	BA575
FL-U	U filter block	BP330-385	DM410	BA420
FL-V	V filter block	BP400-410	DM455	BA460
FL-R	R filter block	BP620-650	DM660	BA670-750
FL-O	Fluorescent Block without filters	Optional Excitation and Barrier Filters is $\Phi$ 25mm, Dichroic Mirror is 5.8X37.5/1mm, the filters can be installed in the block.		

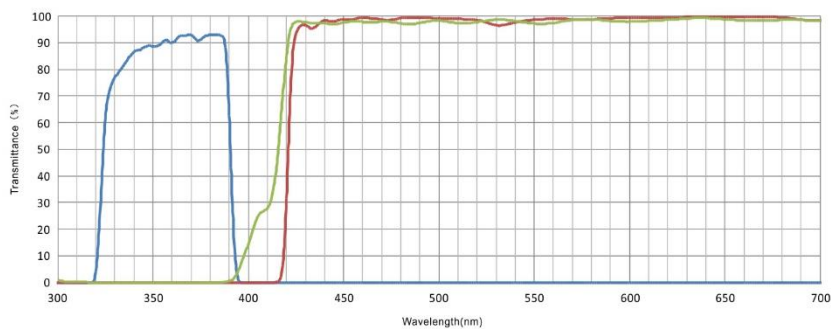
Spectral range



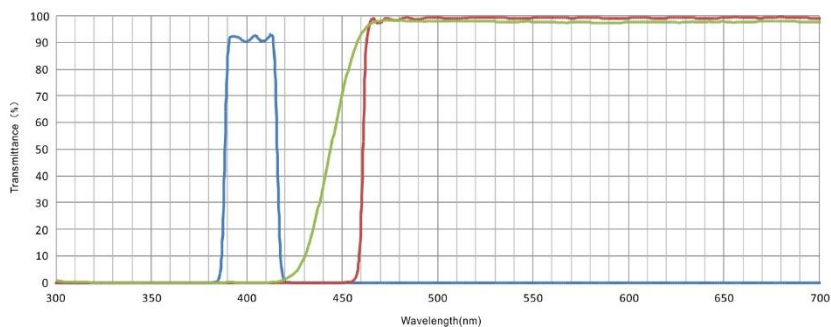
- FL-B
- BP 460-495
  - DM 505
  - BA 510IF



- FL-G
- BP 510-550
  - DM 570
  - BA 575IF

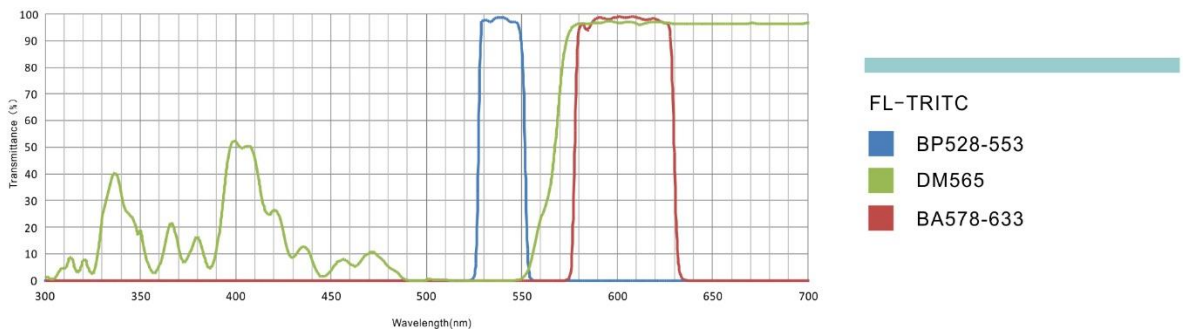
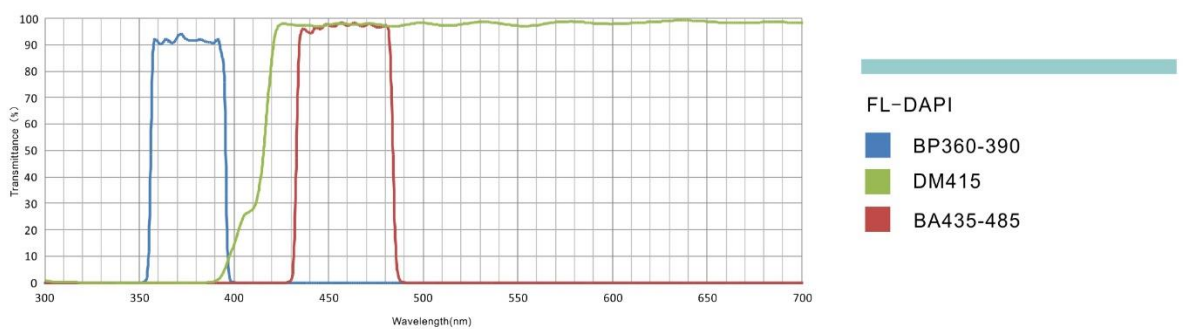
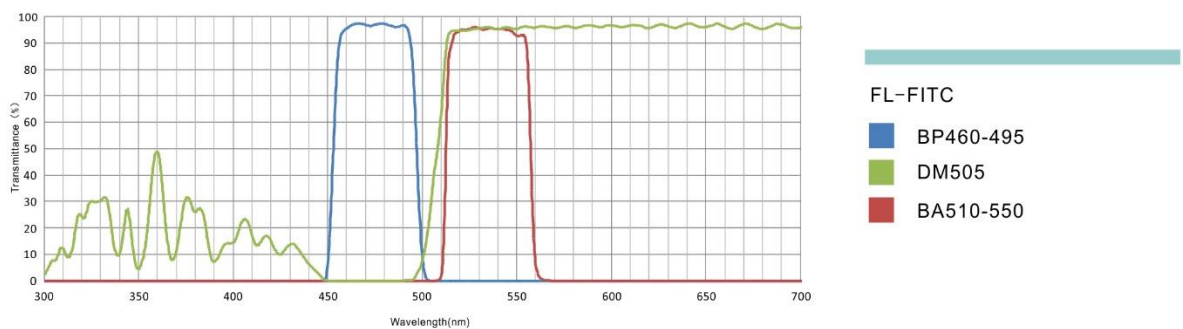
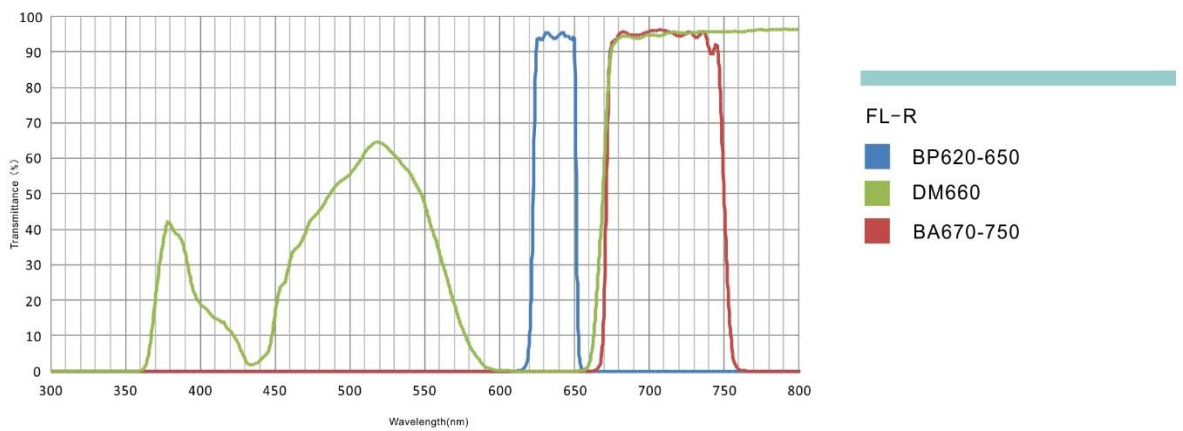


- FL-U
- BP 330-385
  - DM 410
  - BA 420IF

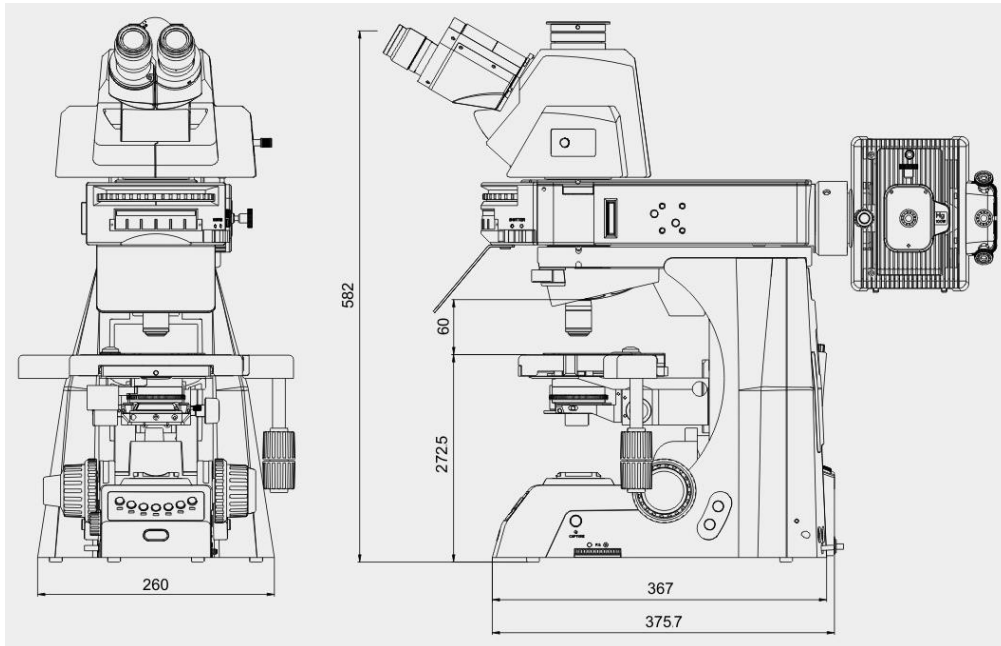


- FL-V
- BP 400-410
  - DM 455
  - BA 460IF

Spectral range



Dimension



Unit: mm

### 34. BS-2082 Research Biological Microscope



BS-2082



BS-2082F



BS-2082MH10

#### Introduction

After years of research and development in optical technology field, BS-2082 biological microscope is designed to present a safe, comfortable and efficiency observation experience for users. With perfectly performed structure, high-definition optical image and simple operating system, BS-2082 realizes professional analysis, and meets all the needs of research in scientific, medical and other fields.

#### Features

1. High eye point wide field plan eyepiece.



The eyepiece field of view has been upgrade from traditional 22mm to 25mm and 26.5mm, provide more flat field of view and improve working efficiency. With wider diopter adjustment range and foldable rubber eye guard.



### 2. Viewing head with multi-splitting ratio.

The viewing head is designed of multiple options for splitting ratio.

(1) Trinocular head with inverted image, splitting ratio Binocular: Trinocular=100:0 or 20:80 or 0:100 is standard. Except for concentrating 100% light to eyepiece tube or camera tube, there is another option with 20% light to eyepiece tube and 80% to camera tube, so that eyepiece observation and image output can be available at the same time.

(2) Trinocular head with erected image, splitting ratio Binocular:Trinocular=100:0 or 0:100 is optional. The moving direction of samples is the same as observed.



### 3. Large size rackless stage for both hands.

Large stage with adjustment in either hand In order to correct the hidden danger of horizon guide rail, the stage is designed with double-way linear driving mechanism. This change protects the stage from overload at the end of both rails, improves the reliability and performance of the stage.

The handle of the stage can be set at each side based on users' preference. The X, Y biaxial adjustment are designed with low position for comfortable operation.

Two slices can be hold on the stage by using damping-type double clips, easy for comparative study. Moving range: 80mm X55mm; precision: 0.1mm. Processed with special craft, the surface of the stage is anti-corrosive

and anti-friction. The platform with an arc transition design reduces the stress concentration and damage from impact.

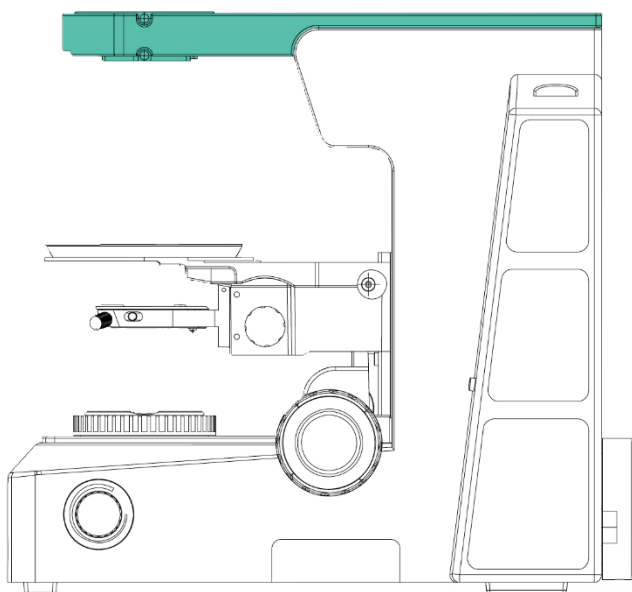


#### **4. Modular frame, improve the system compatibility.**

With modularization design, separated cross arm and main body, improves the system compatibility of biological and fluorescence frame.

#### **5. Highly sensitive coaxial coarse and fine adjustment system.**

Coaxial adjustment adopts double-stage driving, with adjustable tension tightness and upper limit stop, coarse range is 25mm and fine precision is 1 $\mu$ m. Not only accurately focus but also precision measurement is available.



## **Application**

This microscope is an ideal instrument in biological, histological, pathological, bacteriology, immunizations and pharmacy field and can be widely used in medical and sanitary establishments, laboratories, institutes, academic laboratories, colleges and universities.

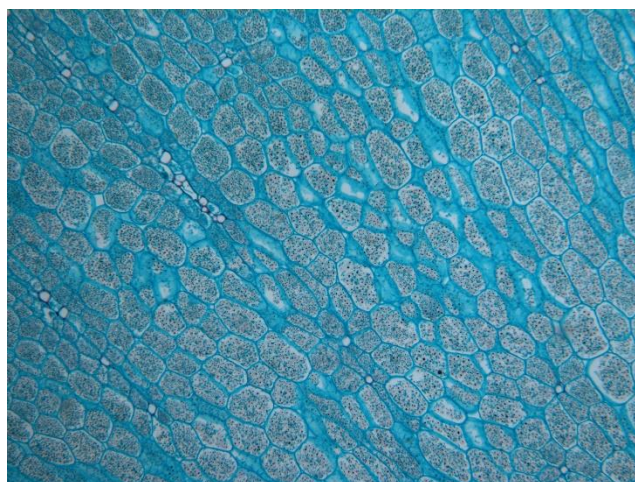
**Specification**

Item	Specification	BS-2082	BS-2082F	BS-2080 MH10
Optical System	Infinite color corrected optical system	●	●	●
Viewing Head	Seidentopf trinocular head(Inverted image), 30° inclined, interpupillary distance: 50mm-76mm; splitting ratio Eyepiece:Trinocular=100:0 or 20:80 or 0:100	●	●	●
	Seidentopf trinocular head(Erected image), 30° inclined , interpupillary distance: 50mm-76mm; splitting ratio Eyepiece:Trinocular=100:0 or 0:100	○	○	○
Eyepiece	High eyepoint wide field plan eyepiece PL10X/25mm, diopter adjustable	●	●	●
	High eyepoint wide field plan eyepiece PL10X/25mm, with reticle, diopter adjustable	○	○	○
	High eyepoint wide field plan eyepiece PL10X/26.5mm, diopter adjustable	○	○	○
	High eyepoint wide field plan eyepiece PL10X/26.5mm, with reticle, diopter adjustable	○	○	○
Objective	Plan semi-apochromatic fluorescent objective 4X/0.13(infinity), WD=18.5mm	●	●	●
	Plan semi-apochromatic fluorescent objective 10X/0.30(infinity), WD=10.6mm	●	●	●
	Plan semi-apochromatic fluorescent objective 20X/0.50(infinity), WD=2.33mm	●	●	●
	Plan semi-apochromatic fluorescent objective 40X/0.75(infinity), WD=0.6mm	●	●	●
	Plan semi-apochromatic fluorescent objective 100X/1.30(infinity), WD=0.21mm	●	●	●
Nosepiece (with DIC slot)	Backward Quintuple Nosepiece	○	○	○
	Backward Sextuple Nosepiece	●	●	●
	Backward Septuple nosepiece	○	○	○
Frame	Biological frame (transmitted), low-position coaxial coarse and fine adjustment, coarse adjustment distance: 25mm; fine precision: 0.001mm. With coarse adjustment stop and tightness adjustment. Built-in 100-240V_AC50/60Hz wide voltage transformer, intensity adjustable by digital set and reset; built-in transmitted filters LBD/ND6/ND25)	●		●
	Fluorescence frame (transmitted), low-position coaxial coarse and fine adjustment, coarse adjustment distance: 25mm; fine precision: 0.001mm. With coarse adjustment stop and tightness adjustment. Built-in 100-240V_AC50/60Hz wide voltage transformer, intensity	○	●	○

	adjustable by digital set and reset; built-in transmitted filters LBD/ND6/ND25)			
Stage	Double layers mechanical stage, size: 187mm X168mm; moving range: 80mm X55mm; precision: 0.1mm; two-way linear drive, tension adjustable	●	●	●
Condenser	Swing-out type achromatic condenser (N.A.0.9)	●	●	●
Reflected fluorescence illuminator	Sextuple reflected fluorescence illuminator with iris field diaphragm and aperture diaphragm, central adjustable; with filter slot and polarizing slot; with fluorescence filters (UV/B/G for option).	○	●	○
	100W mercury lamp house, filament center and focus adjustable; with reflected mirror, mirror center and focus adjustable. (75W xenon lamp house for option)	○	●	○
	Digital power controller, wide voltage 100-240VAC	○	●	○
	Imported OSRAM 100W mercury lamp.( OSRAM 75W xenon lamp for option)	○	●	○
Transmitted Illumination	12V/100W halogen lamp house for transmitted light, center pre-set, intensity adjustable	●	●	●
Other Accessories	Camera adapter: 0.5X/0.65X/1X focusing C-mount	○	○	○
	Cooled CCD camera, SONY 2/3", 1.4MP, ICX285AQ Color CCD	○	○	○
	Centering objective for fluorescence observation	○	○	○
	Calibration slide 0.01mm	○	○	○
	Multi Viewing Attachment for 5 persons	○	○	●
	DIC Attachment	○	○	○

Note: ● Standard Outfit, ○ Optional

### Sample Image



## 35. BS-2083 Research Biological Microscope



### Introduction

BS-2083 biological microscope has been designed to present a safe, comfortable and precision observation experience. The motorized nosepiece and condenser will make your works easier. With perfectly performed structure, high-definition optical image and ergonomical operating system, BS-2083 realizes professional analysis and meets all the needs of research in biological, medical, life science and other fields.

### Features

#### 1. Sapphire Glass Stage Insert.



Mechanical stage with sapphire glass insert is durable, never could be scratched and allows users to clear the stage easily.

#### 2. Put Slide by One Hand.



It is easy for users to put slides by one hand due to the special designed slide clip.



### 3. Image Capture Button.



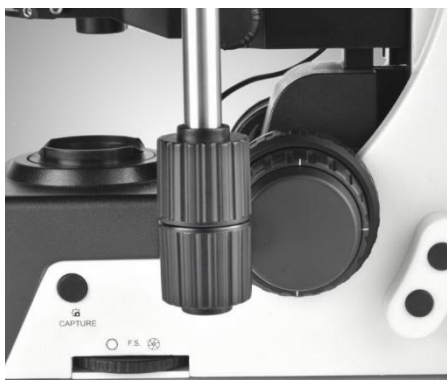
There is a cable from the microscope, the cable could be connected to the digital camera, after connection, just press the “CAPTURE” button at the right side of the microscope base, then you could capture the image easily.

### 4. Tilting Trinocular Head.



- (1) The eye tube can be adjusted from 0°-35°.
- (2) Digital cameras or DSLR cameras can be connected to the trinocular tube.
- (3) The beam splitter has 3-position (100:0, 20:80, 0:100).
- (4) The splitter bar can be assembled on the either side according to user’s requirements.

### 5. Low-Position Focusing System.



Very precise coaxial focusing system with fine division of 1μm, it comes with low-position coarse and fine focusing knobs, the ergonomic design provides comfortable experience for users.

### 6. Motorized Objective Change.



Objectives could be switched by simply pressing the buttons. Users could also self-define two of the most commonly used objectives and switch between them with the green button.

The illumination has connection with the objective, when the objective is changed, the light intensity will also be changed accordingly.

### 7. Nosepiece Rotating Buttons.



This microscope has the function of motorized rotating nosepiece with the 2 buttons.

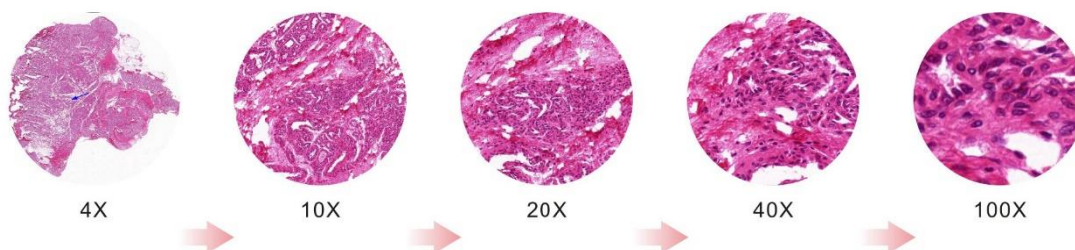
### 8. Motorized Swing-out Condenser.



The top-lens on the condenser will be automatically swing-in or swing-out according to the objective lens that is selected.

### 9. Light Intensity Management.

The illumination has connection with the objective, when the objective is changed, the light intensity will also be changed accordingly. Thus, from low to high magnification, the field of view maintains the same brightness. There is no need to manually adjust the intensity of the light and also reduce eye fatigue. The long-life LED light source ensures uniform brightness while is easy to maintain.



### Application

This microscope is an ideal instrument in biological, histological, pathological, bacteriology, immunizations and pharmacy field and can be widely used in medical and sanitary establishments, laboratories, institutes, academic laboratories, colleges and universities.

### Specification

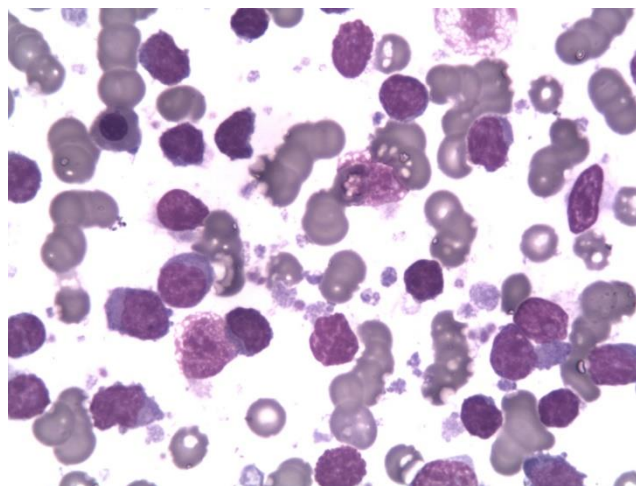
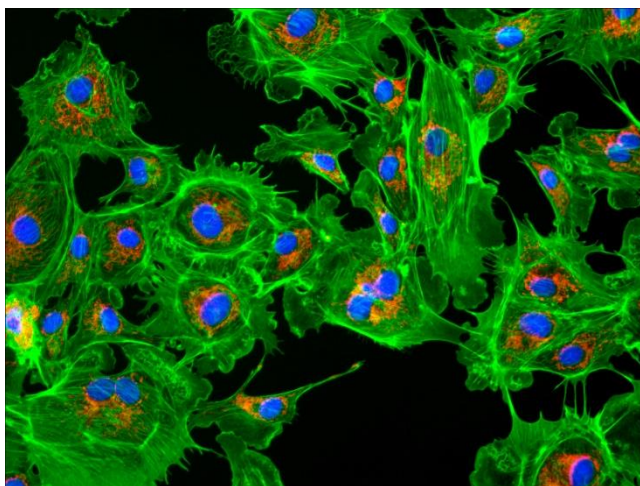
Item	Specification	BS-2083
Optical System	NIS60 Infinite Color Corrected Optical System	•

Viewing Head	Ergo Tilting Trinocular Head, adjustable 0-35° inclined, interpupillary distance 47mm-78mm; splitting ratio Eyepiece:Trinocular=100:0 or 20:80 or 0:100		●
	Seidentopf Trinocular Head, 30° inclined, interpupillary distance: 47mm-78mm; splitting ratio Eyepiece:Trinocular=100:0 or 20:80 or 0:100		○
	Seidentopf Binocular Head, 30° inclined, interpupillary distance: 47mm-78mm		○
Eyepiece	Super wide field plan eyepiece SW10X/25mm, diopter adjustable		●
	Super wide field plan eyepiece SW10X/22mm, diopter adjustable		○
	Extra wide field plan eyepiece EW12.5X/16mm, diopter adjustable		○
	Wide field plan eyepiece WF15X/16mm, diopter adjustable		○
	Wide field plan eyepiece WF20X/12mm, diopter adjustable		○
Objective	N-PLN Plan Objective	N-PLN 2X/NA=0.06, WD=7.5mm	○
		N-PLN 4X/NA=0.10, WD=30mm	●
		N-PLN 10X/NA=0.25, WD=10.2mm	●
		N-PLN 20X/NA=0.40, WD=12mm	●
		N-PLN 40X/NA=0.65, WD=0.7mm	●
		N-PLN 100X(Oil)/NA=1.25, WD=0.2mm	●
		N-PLN 50X(Oil)/NA=0.95, WD=0.19mm	○
		N-PLN 60X/NA=0.80, WD=0.3mm	○
		N-PLN-I 100X (Oil, with Iris Diaphragm)/ NA=0.5-1.25, WD=0.2mm	○
	N-PLN PH Plan Phase Contrast Objective	N-PLN PH 10X/NA=0.25, WD=10.2mm	○
		N-PLN PH 20X/NA=0.40, WD=12mm	○
		N-PLN PH 40X/NA=0.65, WD=0.7mm	○
		N-PLN PH 100X(Oil)/NA=1.25, WD=0.2mm	○
	N-PLFN Plan Semi-apochromatic Fluorescent Objective	N-PLFN 4X/NA=0.13, WD=17.2mm	○
		N-PLFN 10X/NA=0.30, WD=16.0mm	○
N-PLFN 20X/NA=0.50, WD=2.1mm		○	
N-PLFN 40X/NA=0.75, WD=1.5mm		○	
N-PLFN 100X(Oil)/NA=1.4, WD=0.16mm		○	
Nosepiece	Motorized Backward Sextuple Nosepiece (with DIC slot)		●
Condenser	Swing-out type condenser N.A.0.9/0.25(Auto)		●
	Turret Phase Contrast Condenser		○
	Dark-field Condenser (Dry), used for objectives lower than 100X		○
	Dark-field Condenser (Oil), used for 100X objective		○
Transmitted Illumination	3W S-LED lamp, center pre-set, intensity adjustable		●
	12V/100W halogen lamp, center pre-set, intensity adjustable		○
Focusing	Low-position coaxial coarse and fine focusing, fine division 1μm, Moving range 35mm		●
Stage	Double layers mechanical stage, size 190mmX152mm; moving range 78mmX54mm (double slides holder, Right or left handle); precision: 0.1mm; with Sapphire Crystal Glass Insert		●
	Double layers mechanical stage, size 190mmX152mm; moving range78mmX54mm (double slides holder, Right or left handle); precision: 0.1mm		○
DIC Kit	10X DIC Objective Lens		○

	20X DIC Objective Lens	○
	Polarizer for DIC Kit	○
	DIC insert plate(10X/20X), can be inserted into the DIC slot on nosepiece	○
	DIC insert plate(40X/100X) can be inserted into the DIC slot on nosepiece	○
	DIC Turret Condenser	○
Reflected fluorescence illuminator	Turret with 6 filter block cubes position, with iris field diaphragm and aperture diaphragm, central adjustable; with filter slot and polarizing slot; with fluorescence filters (B, G, U, V, B1, R fluorescent filters are available).	○
	100W mercury lamp house, filament center and focus adjustable; with reflected mirror, mirror center and focus adjustable.	○
	3W LED lamps for B, G, U, V, B1, R filters, filament center and focus adjustable; with reflected mirror, mirror center and focus adjustable.	○
	Digital power controller, wide voltage 100-240VAC	○
	ND6/ND25 Filter	○
Other Accessories	0.5X, 1X C-mount Adapter	○
	Dust Cover	●
	Power Cord	●
	Cedar Oil 5ml	●
	Simple Polarizing kit	○
	Calibration slide 0.01mm	○
	Multi Viewing Attachment for 2/3/5/7/10 person	○

Note: ● Standard Outfit, ○ Optional

### Sample Image





**Accessories**

**1. N-PLN Series Plan Objectives.**



The Plan objectives can provide flat high transmittance image from visible light to NIR light. They are usually used for bright-field viewing as the high signal-to-noise, high resolution and high contrast features.

**2. N-PLN PH Series Plan Phase Contrast Objectives.**



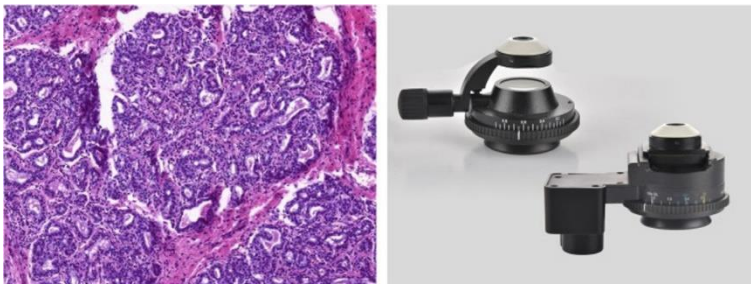
These plan phase contrast objectives are specially designed for phase contrast observation. They are good choice for clinic and scientific research. These objectives can provide advanced flat image of 25mm FOV under transmitted bright field.

**3. N-PLFN Series Plan Semi-APO Fluorescent Objectives.**



Owe to the multilayers coating technology, these Semi-APO objectives can compensate the spherical aberration and the chromatic aberration from ultraviolet and infrared light. High-sensitive fluorescence performance of the objectives ensures the sharpness, definition and color rendition of images.

**4. Bright field Viewing.**

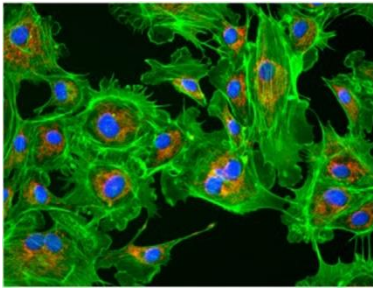


Mammary Gland (active stage)

Brighter image, high resolution and flatness, suitable for all the magnifications.



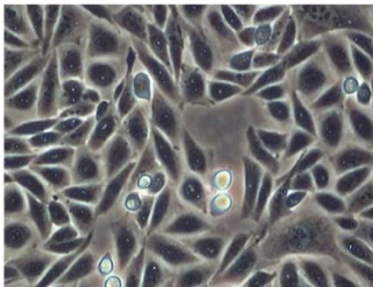
**5. Fluorescent Viewing.**



Arterial Cell

The compact epi-fluorescent components include noise elimination feature which ensures images captured are bright, with high contrast and high signal-to-noise ratio.

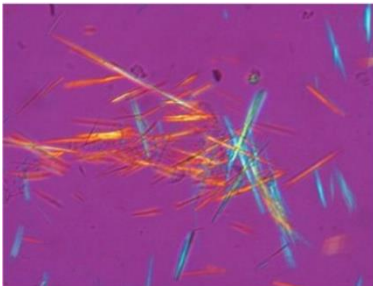
**6. Phase Contrast Viewing.**



Rat Ovarian Cell

Users can get high contrast image of neutral background color whatever the magnification is. It is suitable for viewing non-stained specimen.

**7. Polarizing Viewing.**



Uric Acid Crystal

It is quite suitable for viewing collagen, amyloid and crystal etc., double refracting specimens.

**8. Dark-field Viewing.**



Spirogyra

It can be used for clearly viewing of blood or flagellum etc., fine structure.

**9. Multi Viewing Heads.**



2 Viewing heads (Face to Face)

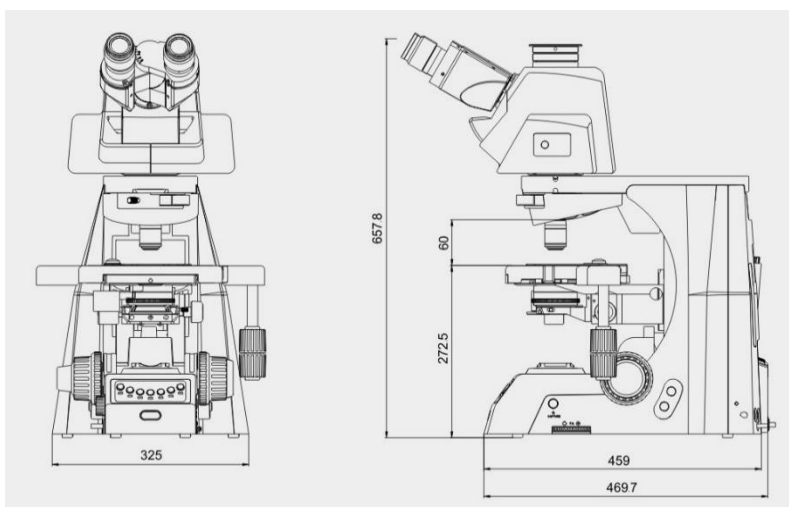


2 Viewing heads (Side to Side)



5 Viewing heads

**Dimension**



Unit:mm

## 36. BS-2083F Research Fluorescent Biological Microscope



### Introduction

BS-2083F biological fluorescent microscope has been designed to present a safe, comfortable and precision observation experience. The motorized nosepiece and condenser will make your works easier. B, G, U, V, R fluorescent filters are available. With perfectly performed structure, high-definition optical image and ergonomical operating system, BS-2083F realizes professional analysis and meets all the needs of research in biological, medical, life science and other fields.

### Features

#### 1. Sapphire Glass Stage Insert.



Mechanical stage with sapphire glass insert is durable, never could be scratched and allows users to clear the stage easily.

**2. Put Slide by One Hand.**



It is easy for users to put slides by one hand due to the special designed slide clip.

**3. Image Capture Button.**



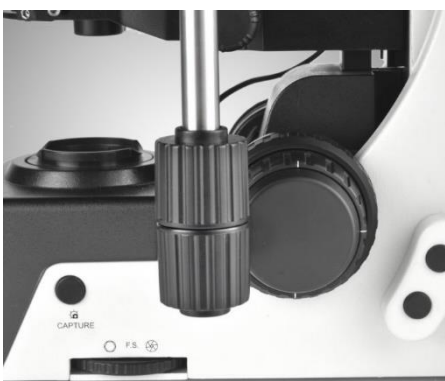
There is a cable from the microscope, the cable could be connected to the digital camera, after connection, just press the "CAPTURE" button at the right side of the microscope base, then you could capture the image easily.

**4. Tilting Trinocular Head.**



- (1) The eye tube can be adjusted from 0°-35°.
- (2) Digital cameras or DSLR cameras can be connected to the trinocular tube.
- (3) The beam splitter has 3-position (100:0, 20:80, 0:100).
- (4) The splitter bar can be assembled on the either side according to user's requirements.

**5. Low-Position Focusing System.**



Very precise coaxial focusing system with fine division of 1μm, it comes with low-position coarse and fine focusing knobs, the ergonomic design provides comfortable experience for users.

**6. Motorized Objective Change.**



Objectives could be switched by simply pressing the buttons. Users could also self-define two of the most commonly used objectives and switch between them with the green button.

The illumination has connection with the objective, when the objective is changed, the light intensity will also be changed accordingly.

**7. Nosepiece Rotating Buttons.**



This microscope has the function of motorized rotating nosepiece with the 2 buttons.

**8. Motorized Swing-out Condenser.**



The top-lens on the condenser will be automatically swing-in or swing-out according to the objective lens that is selected.

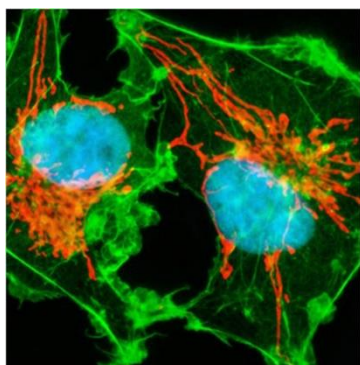
**9. Light Intensity Management.**

The illumination has connection with the objective, when the objective is changed, the light intensity will also be changed accordingly. Thus, from low to high magnification, the field of view maintains the same brightness. There is no need to manually adjust the intensity of the light and also reduce eye fatigue. The long-life LED light source ensures uniform brightness while is easy to maintain.





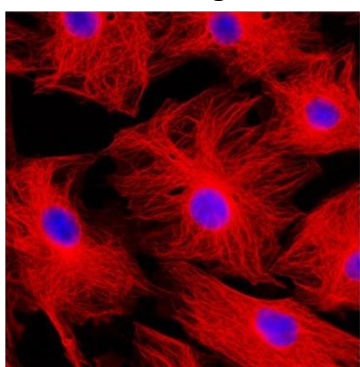
**10. 6-Position Turret for fluorescent filter blocks.**



All the fluorescent filter blocks use the high-performance filter lens. Up to 6 filter blocks can be installed in the turret, that allows users to view different stained specimens at the same time.

Animal Fiber Cell

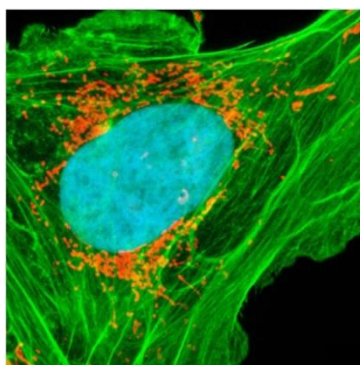
**11. Fine focusing knob can be installed to left or right.**



Customers can choose the position of the fine focusing knob to be right or left, according to their preferences.

Kidney Epithelial Cell

**12. Light Intensity Management.**



The light intensity can be automatically switched according to the objectives, no need to adjust the brightness manually. The long life LED lamp can keep the light intensity and easy for maintenance.

Osteosarcoma Cell

**Application**

This microscope is an ideal instrument in biological, histological, pathological, bacteriology, immunizations and pharmacy field and can be widely used in medical and sanitary establishments, laboratories, institutes, academic laboratories, colleges and universities.

**Specification**

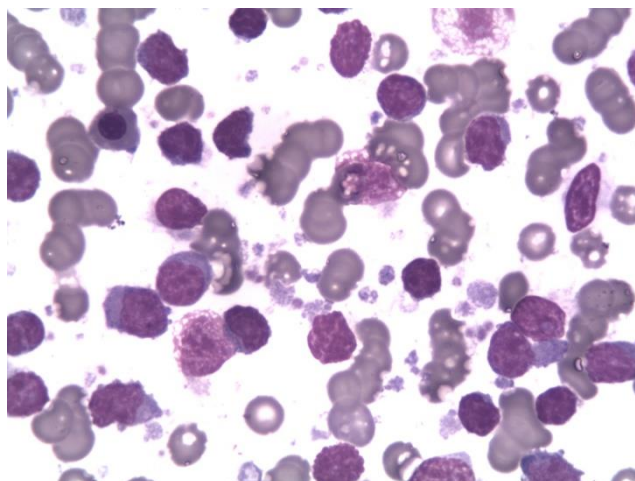
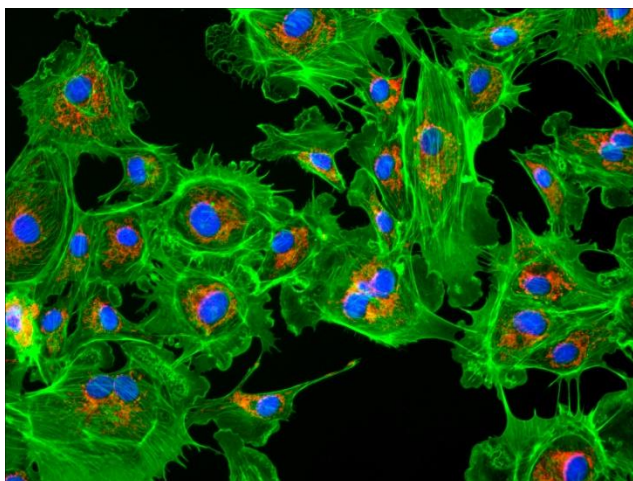
Item	Specification	BS-2083F
Optical System	NIS60 Infinite Color Corrected Optical System	•

Viewing Head	Ergo Tilting Trinocular Head, adjustable 0-35° inclined, interpupillary distance 47mm-78mm; splitting ratio Eyepiece:Trinocular=100:0 or 20:80 or 0:100		●
	Seidentopf Trinocular Head, 30° inclined, interpupillary distance: 47mm-78mm; splitting ratio Eyepiece:Trinocular=100:0 or 20:80 or 0:100		○
	Seidentopf Binocular Head, 30° inclined, interpupillary distance: 47mm-78mm		○
Eyepiece	Super wide field plan eyepiece SW10X/25mm, diopter adjustable		●
	Super wide field plan eyepiece SW10X/22mm, diopter adjustable		○
	Extra wide field plan eyepiece EW12.5X/16mm, diopter adjustable		○
	Wide field plan eyepiece WF15X/16mm, diopter adjustable		○
	Wide field plan eyepiece WF20X/12mm, diopter adjustable		○
Objective	N-PLN Plan Objective	N-PLN 2X/NA=0.06, WD=7.5mm	○
		N-PLN 4X/NA=0.10, WD=30mm	●
		N-PLN 10X/NA=0.25, WD=10.2mm	●
		N-PLN 20X/NA=0.40, WD=12mm	●
		N-PLN 40X/NA=0.65, WD=0.7mm	●
		N-PLN 100X(Oil)/NA=1.25, WD=0.2mm	●
		N-PLN 50X(Oil)/NA=0.95, WD=0.19mm	○
		N-PLN 60X/NA=0.80, WD=0.3mm	○
		N-PLN-I 100X (Oil, with Iris Diaphragm)/ NA=0.5-1.25, WD=0.2mm	○
	N-PLN PH Plan Phase Contrast Objective	N-PLN PH 10X/NA=0.25, WD=10.2mm	○
		N-PLN PH 20X/NA=0.40, WD=12mm	○
		N-PLN PH 40X/NA=0.65, WD=0.7mm	○
		N-PLN PH 100X(Oil)/NA=1.25, WD=0.2mm	○
	N-PLFN Plan Semi-apochromatic Fluorescent Objective	N-PLFN 4X/NA=0.13, WD=17.2mm	○
		N-PLFN 10X/NA=0.30, WD=16.0mm	○
		N-PLFN 20X/NA=0.50, WD=2.1mm	○
		N-PLFN 40X/NA=0.75, WD=1.5mm	○
		N-PLFN 100X(Oil)/NA=1.4, WD=0.16mm	○
	Nosepiece	Motorized Backward Sextuple Nosepiece (with DIC slot)	
Condenser	Swing-out type condenser N.A.0.9/0.25(Auto)		●
	Turret Phase Contrast Condenser		○
	Dark-field Condenser (Dry), used for objectives lower than 100X		○
	Dark-field Condenser (Oil), used for 100X objective		○
Transmitted Illumination	3W S-LED lamp, center pre-set, intensity adjustable		●
	12V/100W halogen lamp, center pre-set, intensity adjustable		○
Focusing	Low-position coaxial coarse and fine focusing, fine division 1μm, Moving range 35mm		●
Stage	Double layers mechanical stage, size 190mmX152mm; moving range 78mmX54mm (double slides holder, Right or left handle); precision: 0.1mm; with Sapphire Crystal Glass Insert		●
	Double layers mechanical stage, size 190mmX152mm; moving range 78mmX54mm (double slides holder, Right or left handle); precision: 0.1mm		○
DIC Kit	10X DIC Objective Lens		○

	20X DIC Objective Lens	○
	Polarizer for DIC Kit	○
	DIC insert plate(10X/20X), can be inserted into the DIC slot on nosepiece	○
	DIC insert plate(40X/100X) can be inserted into the DIC slot on nosepiece	○
	DIC Turret Condenser	○
Reflected fluorescence illuminator	Turret with 6 filter block cubes position, with iris field diaphragm and aperture diaphragm, central adjustable; with filter slot and polarizing slot; with fluorescence filters (B,G fluorescent filters).	●
	U,V,R fluorescent filters	○
	100W mercury lamp house, filament center and focus adjustable; with reflected mirror, mirror center and focus adjustable.	●
	3W LED lamps for B, G, U, V, B1, R filters, filament center and focus adjustable; with reflected mirror, mirror center and focus adjustable.	○
	Digital power controller, wide voltage 100-240VAC	●
	ND6/ND25 Filter	○
Other Accessories	0.5X C-mount Adapter	○
	1X C-mount Adapter	○
	Dust Cover	●
	Power Cord	●
	Cedar Oil 5ml	●
	Simple Polarizing kit	○
	Calibration slide 0.01mm	○
	Multi Viewing Attachment for 2/3/5/7/10 person	○

Note: ● Standard Outfit, ○ Optional

## Sample Image



**Accessories**

**1. N-PLN Series Plan Objectives.**



The Plan objectives can provide flat high transmittance image from visible light to NIR light. They are usually used for bright-field viewing as the high signal-to-noise, high resolution and high contrast features.

**2. N-PLN PH Series Plan Phase Contrast Objectives.**



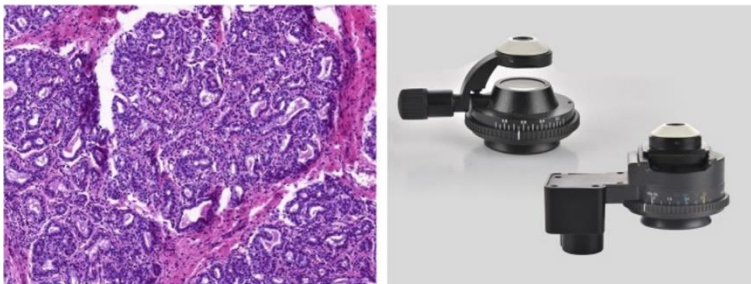
These plan phase contrast objectives are specially designed for phase contrast observation. They are good choice for clinic and scientific research. These objectives can provide advanced flat image of 25mm FOV under transmitted bright field.

**3. N-PLFN Series Plan Semi-APO Fluorescent Objectives.**



Owe to the multilayers coating technology, these Semi-APO objectives can compensate the spherical aberration and the chromatic aberration from ultraviolet and infrared light. High-sensitive fluorescence performance of the objectives ensures the sharpness, definition and color rendition of images.

**4. Bright field Viewing.**

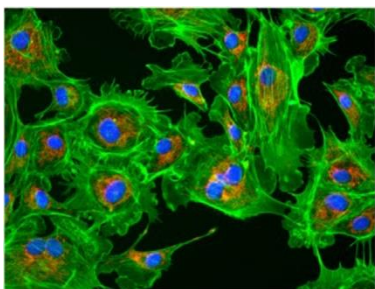


Mammary Gland (active stage)

Brighter image, high resolution and flatness, suitable for all the magnifications.



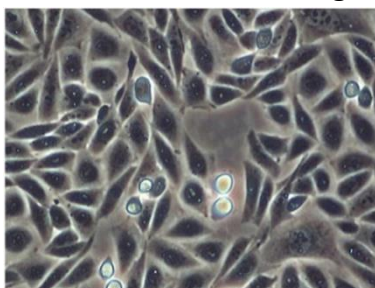
**5. Fluorescent Viewing.**



Arterial Cell

The compact epi-fluorescent components include noise elimination feature which ensures images captured are bright, with high contrast and high signal-to-noise ratio.

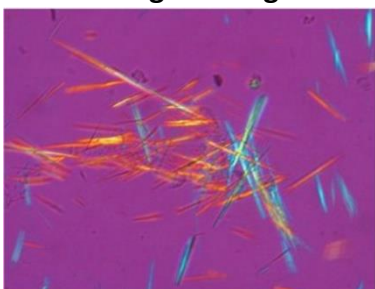
**6. Phase Contrast Viewing.**



Rat Ovarian Cell

Users can get high contrast image of neutral background color whatever the magnification is. It is suitable for viewing non-stained specimen.

**7. Polarizing Viewing.**



Uric Acid Crystal

It is quite suitable for viewing collagen, amyloid and crystal etc., double refracting specimens.

**8. Dark-field Viewing.**



Spirogyra

It can be used for clearly viewing of blood or flagellum etc., fine structure.



**9. Multi Viewing Heads.**



2 Viewing heads (Face to Face)



2 Viewing heads (Side to Side)



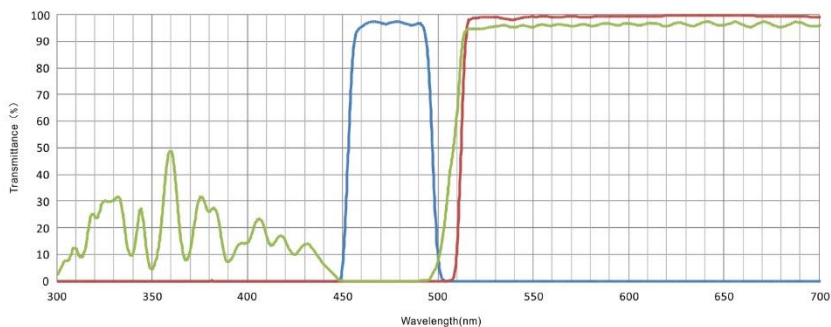
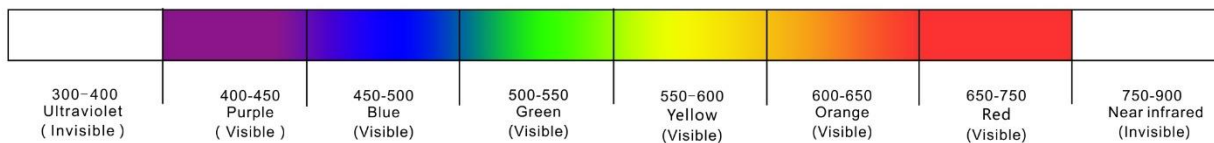
5 Viewing heads

**10. Fluorescent filters.**

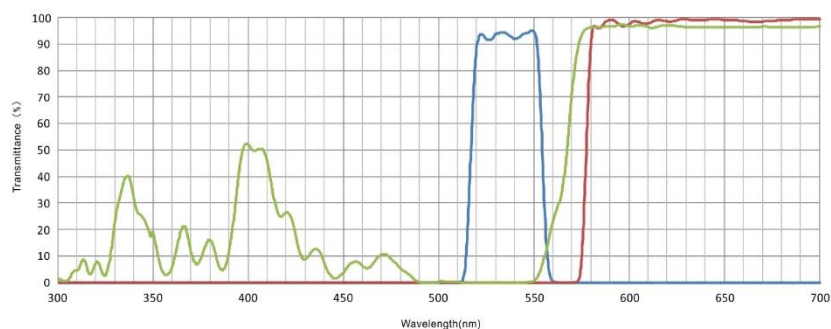


Model	Description	Excitation	Dichroic Mirror	Barrier Filter
FL-B	B filter block	BP460-495	DM505	BA510
FL-B1	B1 filter block	BP460-495	DM505	BA510-550
FL-G	G filter block	BP510-550	DM570	BA575
FL-U	U filter block	BP330-385	DM410	BA420
FL-V	V filter block	BP400-410	DM455	BA460
FL-R	R filter block	BP620-650	DM660	BA670-750
FL-O	Fluorescent Block without filters	Optional Excitation and Barrier Filters is $\Phi$ 25mm, Dichroic Mirror is 5.8X37.5/1mm, the filters can be installed in the block.		

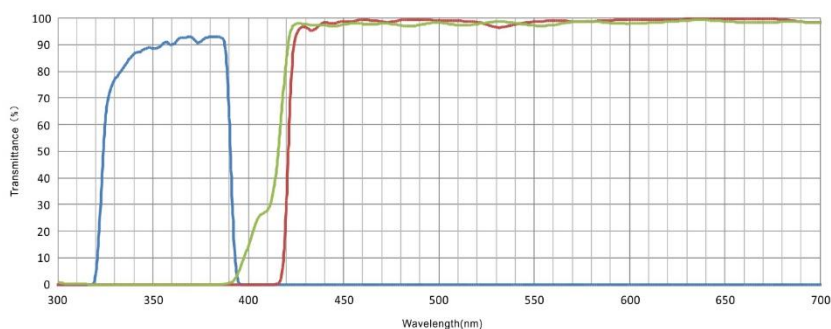
Spectral range



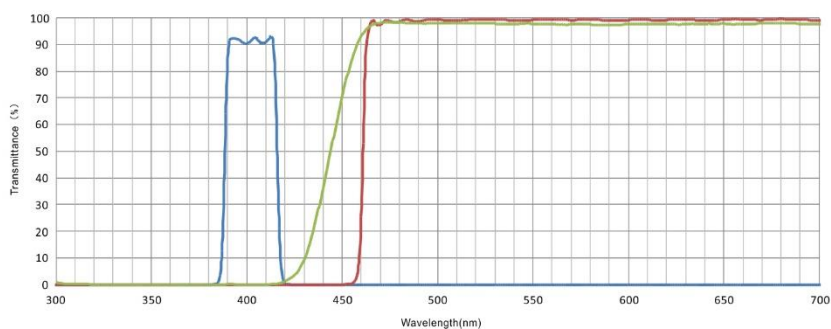
- FL-B
- BP 460-495
  - DM 505
  - BA 510IF



- FL-G
- BP 510-550
  - DM 570
  - BA 575IF

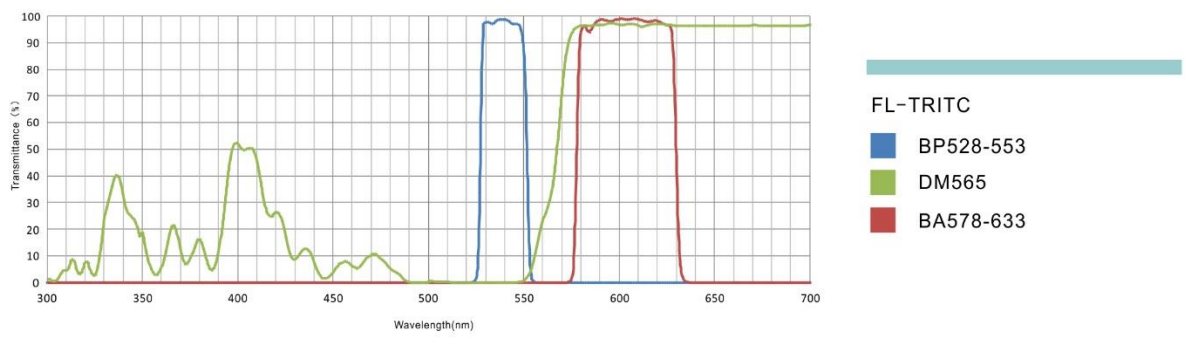
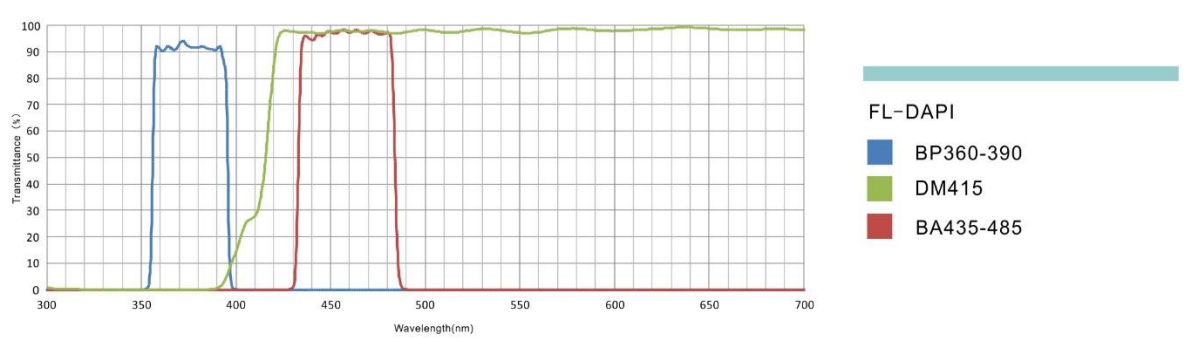
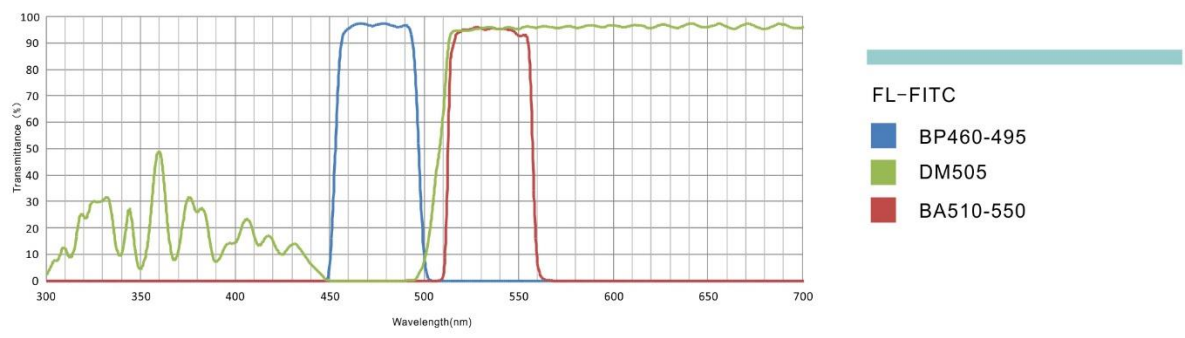
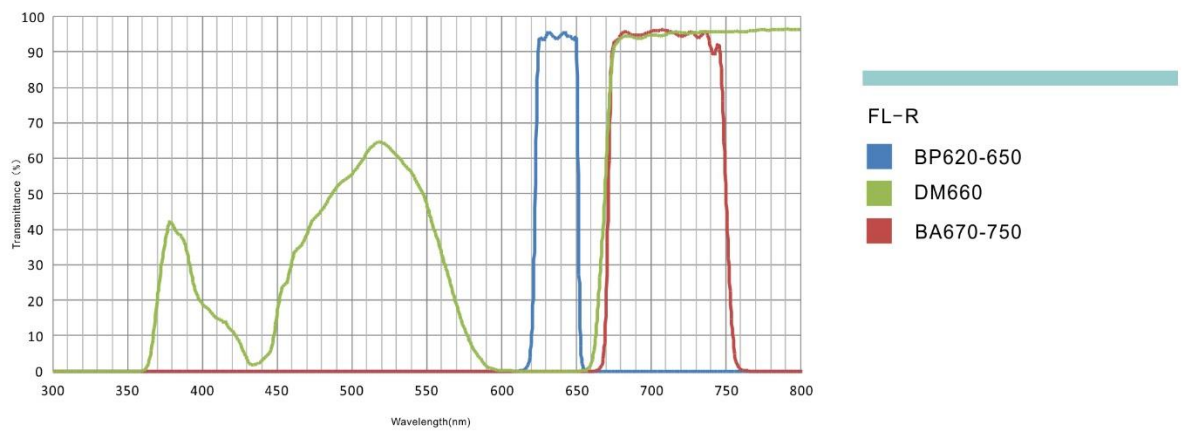


- FL-U
- BP 330-385
  - DM 410
  - BA 420IF

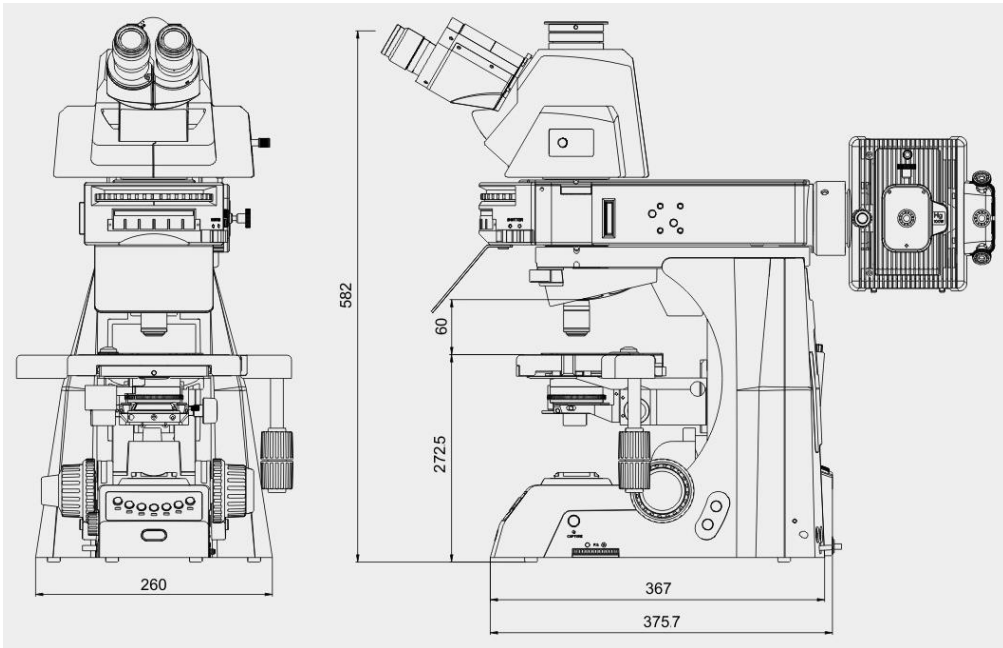


- FL-V
- BP 400-410
  - DM 455
  - BA 460IF

Spectral range



Dimension



Unit:mm

## 37. BS-2085 Motorized Automatic Biological Microscope



BS-2085



BS-2085F

### Introduction

BS-2085 motorized automatic biological microscopes have been designed to present a safe, comfortable and precision observation experience. The motorized nosepiece, X-Y stage, condenser and auto focusing will make your works easier. The software has motion controlling, depth of field fusion, objective lens switching, brightness controlling, auto focusing, area scanning, image stitching, 3D imaging functions. Semi-APO objectives and B, G, U, V, R fluorescent filters are available for BS-2085F fluorescent automatic biological microscope. With perfectly performed structure, high-definition optical image and ergonomical operations, BS-2085/FMA realize professional analysis and meet all the needs of research in biological, medical, life science and other fields.

### Features

#### 1. Adopt stepper motor and screw driving mode.



Adopt stepper motor and screw driving mode, the screw pitch is consistent and the positioning accuracy is high.



## 2. Tilting Trinocular Head.



- (1) The eye tube can be adjusted from 0°-35°.
- (2) Digital cameras or DSLR cameras can be connected to the trinocular tube.
- (3) The beam splitter has 3-position (100:0, 20:80, 0:100).
- (4) The splitter bar can be assembled on the either side according to user's requirements.

## 3. Motorized Objective Change.



Objectives could be switched by simply pressing the buttons. Users could also self-define two of the most commonly used objectives and switch between them with the green button. The illumination has connection with the objective, when the objective is changed, the light intensity will also be changed accordingly.

## 4. Nosepiece Rotating Buttons.



This microscope has the function of motorized rotating nosepiece with the 2 buttons.

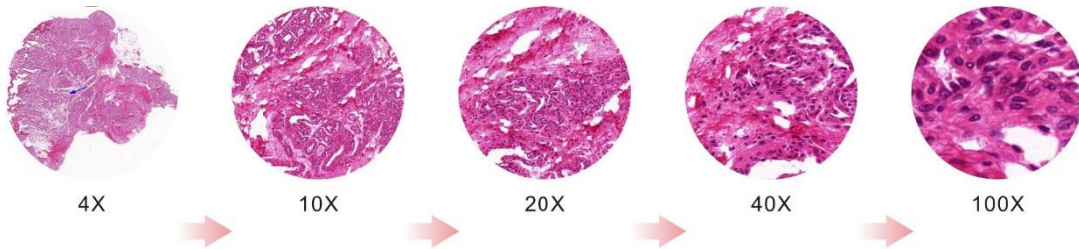
## 5. Motorized Swing-out Condenser.



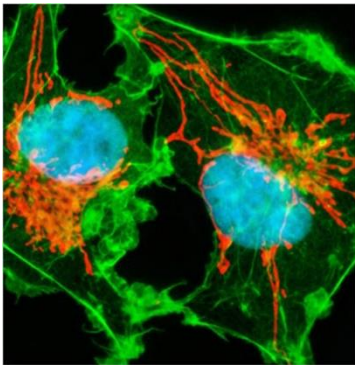
The top-lens on the condenser will be automatically swing-in or swing-out according to the objective lens that is selected.

**6. Light Intensity Management.**

The illumination has connection with the objective, when the objective is changed, the light intensity will also be changed accordingly. Thus, from low to high magnification, the field of view maintains the same brightness. There is no need to manually adjust the intensity of the light and also reduce eye fatigue. The long-life LED light source ensures uniform brightness while is easy to maintain.



**7. 6-Position Turret for fluorescent filter blocks.**



Animal Fiber Cell



All the fluorescent filter blocks use the high-performance filter lens. Up to 6 filter blocks can be installed in the turret, that allows users to view different stained specimens with a turret.

**8. Can be controlled by the control handle and controller, also can be controlled by software.**



Control Handle



NMC-3 Controller

This microscope can realize LED brightness, objective lens switching, auto focus, and electric adjustment of XYZ axis through the NMC-3 controller and control handle. The software can realize depth of field fusion, objective lens switching, brightness control, auto focus, area scanning, image stitching, 3D imaging and other functions.

**Application**

This motorized automatic microscope is an ideal instrument in biological, histological, pathological, bacteriology, immunizations and pharmacy field and can be widely used in medical and sanitary establishments, laboratories, institutes, academic laboratories, colleges and universities.

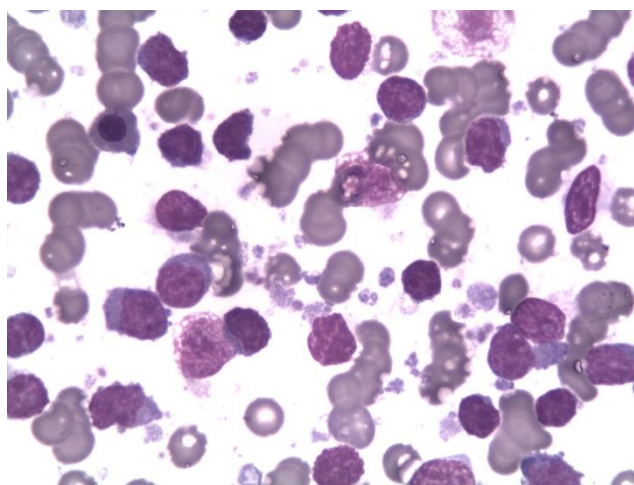
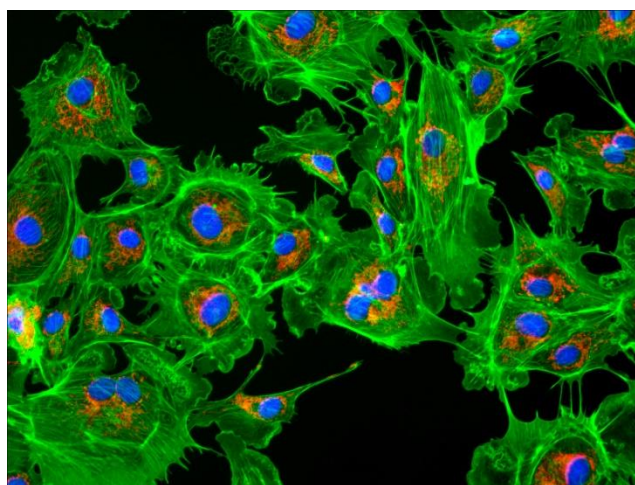
**Specification**

Item	Specification	BS-2085	BS-2085F	
Optical System	NIS60 Infinite Color Corrected Optical System	●	●	
Viewing Head	Ergo Tilting Trinocular Head, adjustable 0-35° inclined, interpupillary distance 47mm-78mm; splitting ratio Eyepiece:Trinocular=100:0 or 20:80 or 0:100	●	●	
	Seidentopf Trinocular Head, 30° inclined, interpupillary distance: 47mm-78mm; splitting ratio Eyepiece:Trinocular=100:0 or 20:80 or 0:100	○	○	
	Seidentopf Binocular Head, 30° inclined, interpupillary distance: 47mm-78mm	○	○	
Eyepiece	Super wide field plan eyepiece SW10X/25mm, diopter adjustable	●	●	
	Super wide field plan eyepiece SW10X/22mm, diopter adjustable	○	○	
	Extra wide field plan eyepiece EW12.5X/16mm, diopter adjustable	○	○	
	Wide field plan eyepiece WF15X/16mm, diopter adjustable	○	○	
	Wide field plan eyepiece WF20X/12mm, diopter adjustable	○	○	
Objective	N-PLN Plan Objective	N-PLN 2X/NA=0.06, WD=7.5mm	○	○
		N-PLN 4X/NA=0.10, WD=30mm	●	●
		N-PLN 10X/NA=0.25, WD=10.2mm	●	●
		N-PLN 20X/NA=0.40, WD=12mm	●	●
		N-PLN 40X/NA=0.65, WD=0.7mm	●	●
		N-PLN 100X(Oil)/NA=1.25, WD=0.2mm	●	●
		N-PLN 50X(Oil)/NA=0.95, WD=0.19mm	○	○
		N-PLN 60X/NA=0.80, WD=0.3mm	○	○
	N-PLN PH Plan Phase Contrast Objective	N-PLN PH 10X/NA=0.25, WD=10.2mm	○	○
		N-PLN PH 20X/NA=0.40, WD=12mm	○	○
		N-PLN PH 40X/NA=0.65, WD=0.7mm	○	○
		N-PLN PH 100X(Oil)/NA=1.25, WD=0.2mm	○	○
	N-PLFN Plan Semi-apochromatic Fluorescent Objective	N-PLFN 4X/NA=0.13, WD=17.2mm	○	○
		N-PLFN 10X/NA=0.30, WD=16.0mm	○	○
		N-PLFN 20X/NA=0.50, WD=2.1mm	○	○
N-PLFN 40X/NA=0.75, WD=1.5mm		○	○	
N-PLFN 100X(Oil)/NA=1.4, WD=0.16mm		○	○	
Nosepiece	Motorized Backward Sextuple Nosepiece (with DIC slot)	●	●	
Condenser	Swing-out type condenser N.A.0.9/0.25(Auto)	●	●	
	Turret Phase Contrast Condenser	○	○	
	Dark-field Condenser (Dry), used for objectives lower than 100X	○	○	
	Dark-field Condenser (Oil), used for 100X objective	○	○	
Transmitted Illumination	3W S-LED lamp, center pre-set, intensity adjustable	●	●	
	12V/100W halogen lamp, center pre-set, intensity adjustable	○	○	
Focusing	Motorized auto focusing, fine division 0.1μm, Max. speed 10 r/s, moving range: 30mm	●	●	

Stage	Motorized double layers mechanical stage, size 275 X 239 X 44.5 mm; moving range 125mmX75mm (X-Y); precision: 0.1μm, Max. Speed: 20mm/s	●	●
DIC Kit	10X DIC Objective Lens	○	○
	20X DIC Objective Lens	○	○
	Polarizer for DIC Kit	○	○
	DIC insert plate(10X/20X), can be inserted into the DIC slot on nosepiece	○	○
	DIC insert plate(40X/100X) can be inserted into the DIC slot on nosepiece	○	○
	DIC Turret Condenser	○	○
Reflected fluorescence illuminator	Turret with 6 filter block cubes position, with iris field diaphragm and aperture diaphragm, central adjustable; with filter slot and polarizing slot; with fluorescence filters (B,G fluorescent filters).	○	●
	B1, U, V, R fluorescent filters	○	○
	100W mercury lamp house, filament center and focus adjustable; with reflected mirror, mirror center and focus adjustable.	○	●
	Digital power controller, wide voltage 100-240VAC	○	●
	ND6/ND25 Filter	○	○
Control Handle	3D control handle, 4 gears speed	●	●
Controller	Communication interface: USB2.0 and RS232	●	●
Other Accessories	0.5X C-mount Adapter	○	○
	USB3.0 Digital camera(5.0MP, Sony IMX250, 2/3" CMOS sensor, 35fps@2448x2048)	○	○
	1X C-mount Adapter	○	○
	Dust Cover	●	●
	Power Cord	●	●
	Cedar Oil 5ml	●	●
	Simple Polarizing kit	○	○
	Calibration slide 0.01mm	○	○
	Multi Viewing Attachment for 2/3/5/7/10 person	○	○

Note: ● Standard Outfit, ○ Optional

## Sample Image





**Accessories**

**1. N-PLN Series Plan Objectives.**



The Plan objectives can provide flat high transmittance image from visible light to NIR light. They are usually used for bright-field viewing as the high signal-to-noise, high resolution and high contrast features.

**2. N-PLN PH Series Plan Phase Contrast Objectives.**



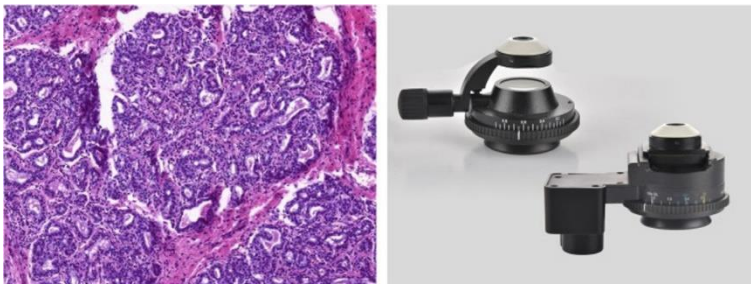
These plan phase contrast objectives are specially designed for phase contrast observation. They are good choice for clinic and scientific research. These objectives can provide advanced flat image of 25mm FOV under transmitted bright field.

**3. N-PLFN Series Plan Semi-APO Fluorescent Objectives.**



Owe to the multilayers coating technology, these Semi-APO objectives can compensate the spherical aberration and the chromatic aberration from ultraviolet and infrared light. High-sensitive fluorescence performance of the objectives ensures the sharpness, definition and color rendition of images.

**4. Bright field Viewing.**

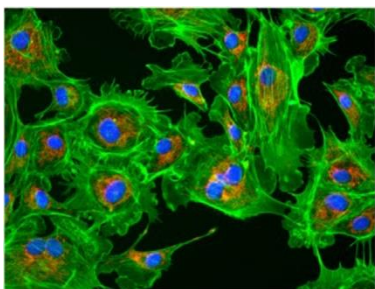


Mammary Gland (active stage)

Brighter image, high resolution and flatness, suitable for all the magnifications.



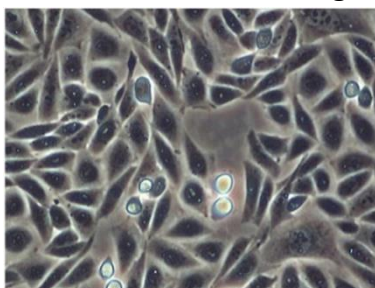
**5. Fluorescent Viewing.**



Arterial Cell

The compact epi-fluorescent components include noise elimination feature which ensures images captured are bright, with high contrast and high signal-to-noise ratio.

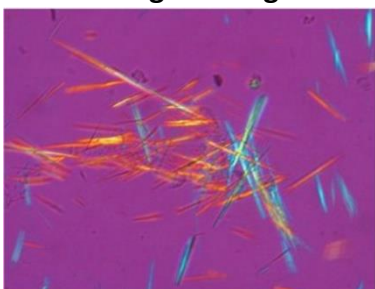
**6. Phase Contrast Viewing.**



Rat Ovarian Cell

Users can get high contrast image of neutral background color whatever the magnification is. It is suitable for viewing non-stained specimen.

**7. Polarizing Viewing.**



Uric Acid Crystal

It is quite suitable for viewing collagen, amyloid and crystal etc., double refracting specimens.

**8. Dark-field Viewing.**



Spirogyra

It can be used for clearly viewing of blood or flagellum etc., fine structuring.

**9. Multi Viewing Heads.**



2 Viewing heads (Face to Face)



2 Viewing heads (Side to Side)



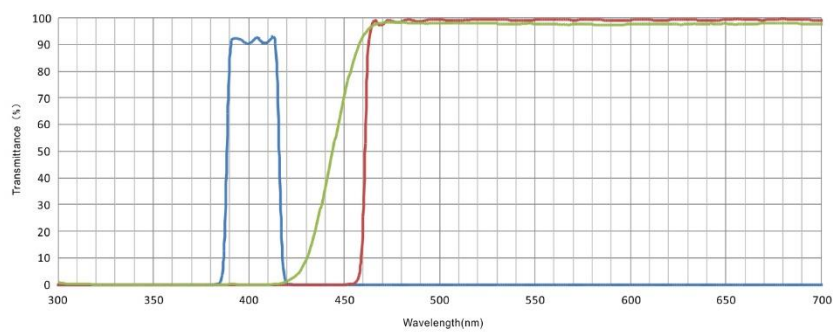
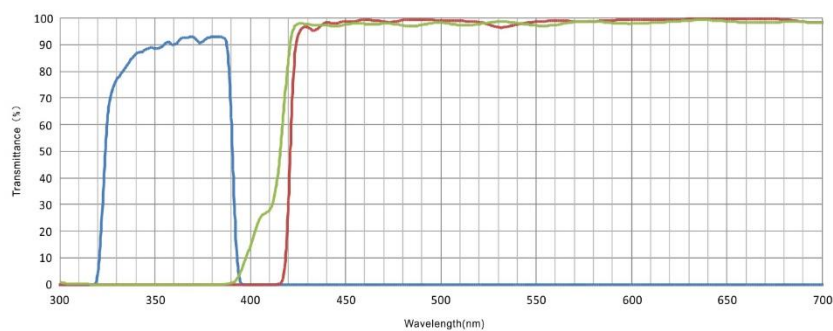
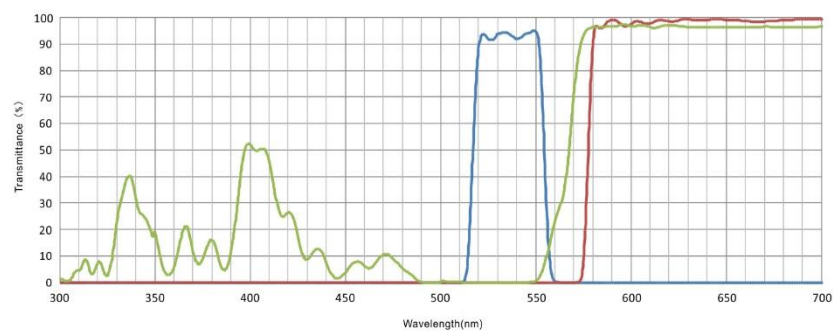
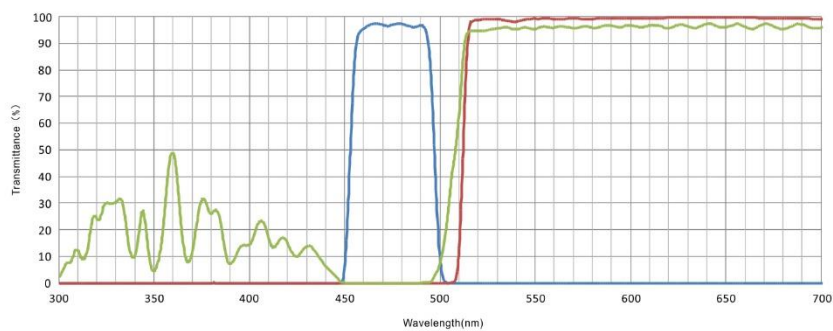
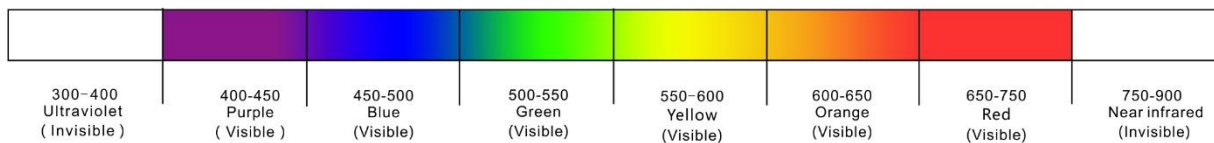
5 Viewing heads

**10. Fluorescent filters.**

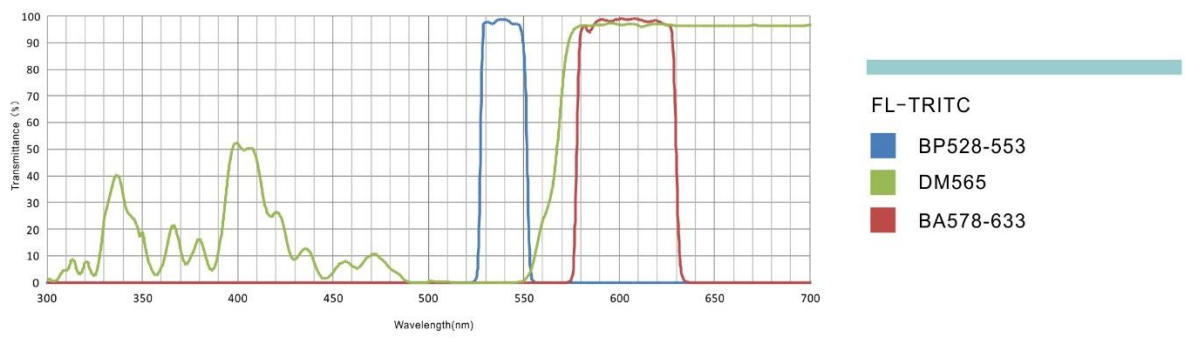
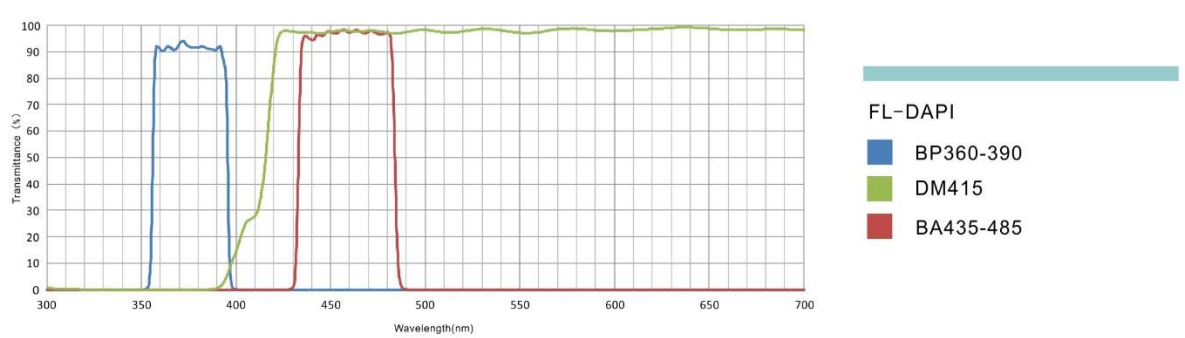
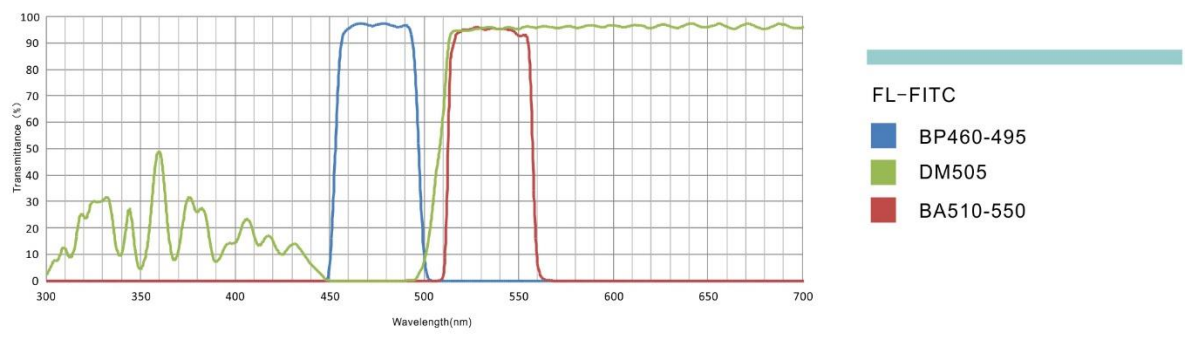
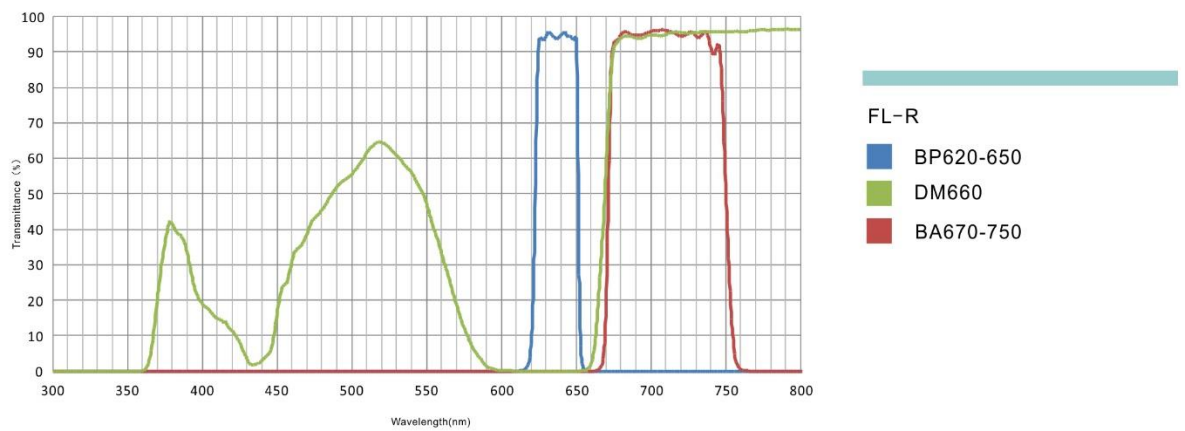


Model	Description	Excitation	Dichroic Mirror	Barrier Filter
FL-B	B filter block	BP460-495	DM505	BA510
FL-B1	B1 filter block	BP460-495	DM505	BA510-550
FL-G	G filter block	BP510-550	DM570	BA575
FL-U	U filter block	BP330-385	DM410	BA420
FL-V	V filter block	BP400-410	DM455	BA460
FL-R	R filter block	BP620-650	DM660	BA670-750
FL-O	Fluorescent Block without filters	Optional Excitation and Barrier Filters is $\Phi$ 25mm, Dichroic Mirror is 5.8X37.5/1mm, the filters can be installed in the block.		

Spectral range



Spectral range



### 38. BS-2090 Inverted Biological Microscope



#### Introduction

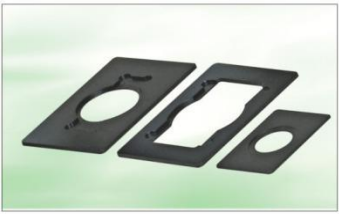
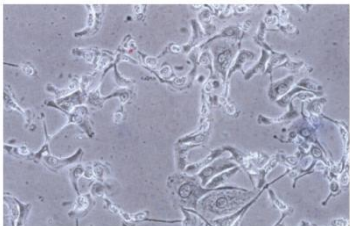
BS-2090 Inverted Biological Microscope is a high level microscope which is specially designed for medical and health units, universities, research institutes to observe cultured living cells. With an innovative optical and structure design idea, excellent optical performance and easy to operate system, this inverted biological microscope makes your works enjoyable.

#### Feature

1. Excellent optical function with infinite optical system.
2. Innovative stand structure, sharp image display, convenient and special for viewing incubating cell tissue.

	<p>With LWD Infinite Plan Objective, Making Viewing Field Flatter and Brighter, Contrast Sharper, Living Cell Observing easier</p>
	<p>Advanced and Reliable Mechanical Stage with Knob Height and Tightness Adjustable</p>



	Different Holders for Various Observations	
	With pre-centerable Phase Annulus, Available to Observe Low Contrast or Transparent Specimens	

## Application

BS-2090 Inverted microscope is used by medical and health units, universities, research institutes for observations of micro-organisms, cells, bacteria and tissue cultivation. It can be used for continuous observation of process of cells, bacteria grow and divide in the culture medium. Videos and images can be taken during the process. This microscope is widely used in cytology, parasitology, oncology, immunology, genetic engineering, industrial microbiology, botany and other fields.

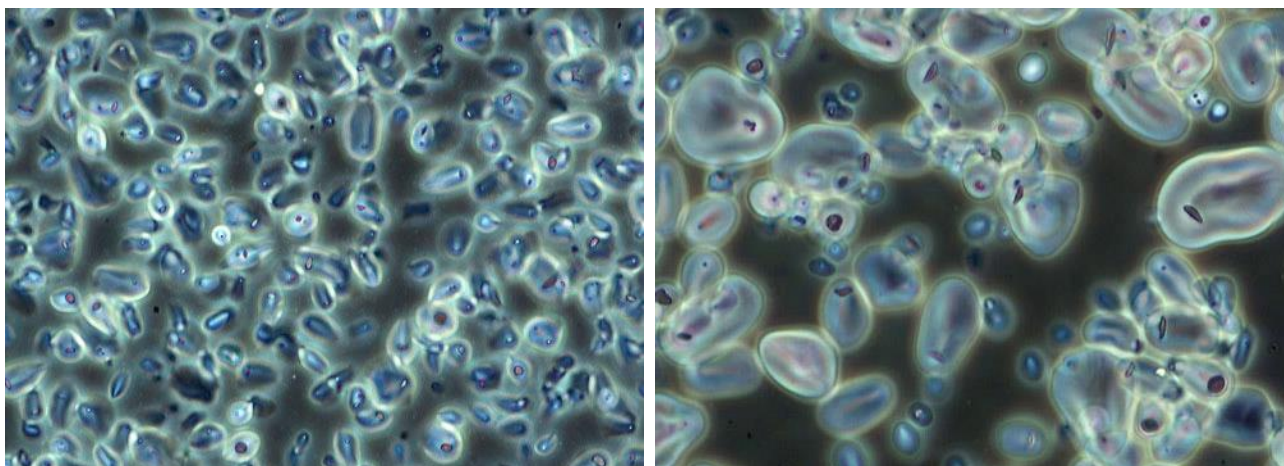
## Specification

Item	Specification	BS-2090	
Optical System	Infinite Optical System	●	
Viewing Head	Trinocular Head, Inclined at 30°, Interpupillary Distance 48-75mm	●	
Eyepiece	High-point, Extra Wide Field Eyepiece EW10×/ 22mm	●	
Objective	LWD(Long Working Distance) Infinite Plan Objective	4×/ 0.1, WD 17.3mm	●
		10×/ 0.25, WD 10mm	○
		20×/ 0.4, WD 5.1mm	○
		40×/ 0.6, WD 2.1mm	●
	Infinite Plan Phase Objective	PH10×/ 0.25, WD 10 mm	●
		PH20×/ 0.4, WD 5.1mm	●
PH40×/ 0.6, WD 2.1m		○	
Nosepiece	Quintuple Nosepiece	●	
Condenser	ELWD(Extra Long Working Distance) Condenser NA 0.3, LWD 72mm (Without Condenser the WD can be 150mm)	●	
Centering	Centering Telescope (Φ30mm)	○	
Phase Annulus	10×-20×, 40× Phase Annulus Plate (Fixed)	●	
	10×-20×, 40× Phase Annulus Plate (Adjustable)	○	
Stage	Plain Stage 160×250mm	●	
	Glass Insert	●	
	Attachable Mechanical Stage, X-Y Coaxial Control, Moving Rang 120mm×78mm	○	
	Auxiliary Stages 70mm×180mm	●	
	Terasaki Holder	○	

	Petri Dish Holder $\Phi$ 35mm	○
	Slide Glass Holder $\Phi$ 54mm	○
	Petri Dish Holder $\Phi$ 90mm	○
Focusing	Coaxial Coarse and Fine Adjustment, Fine Division 0.002mm, Coarse Stroke 37.7mm per Rotation, Fine Stroke 0.2mm per Rotation, Moving Range up 8mm, down 3mm	●
Illumination	6V/30W Halogen Lamp	●
	3W LED	○
Filter	Blue, Green and Frosted filters, Diameter 45mm	●
Accessories	Photo Adapter for Nikon and Canon DSLR cameras	○
	Video Adapter 1× / 0.5× C-mount	○
	Inverted Fluorescent Attachment FI-100	○
Package	1carton/set, 46.5cm*39.5cm*64cm, 16kg	●

Note: ● Standard Outfit, ○ Optional

### Sample Image



### 39. BS-2092 Inverted Biological Microscope



Note: The DSLR camera is not included

#### Introduction

BS-2092 Inverted Biological Microscope is a high level microscope which is specially designed for medical and health units, universities, research institutes to observe cultured living cells. It adopts an Infinite optical system, reasonable structure and ergonomic design. With an innovative optical and structure design idea, excellent optical performance and easy to operate system, this inverted biological microscope makes your works enjoyable. It has a trinocular head, so digital camera or digital eyepiece can be add to the trinocular head take photos and videos.

#### Feature

1. Excellent optical function with infinite optical system.
2. DSLR(Digital Single Lens Reflex) and microscope digital camera can be used together for image and video capture.
3. Innovative stand structure, sharp image display, convenient and special for viewing incubating cell tissue.
4. With LWD Infinite Plan Objective, Making Viewing Field Flatter and Brighter, Contrast Sharper, Living Cell Observing easier.
5. Advanced and Reliable Mechanical Stage with Knob Height and Tightness Adjustable.
6. With pre-centerable Phase Annulus, Available to Observe Low Contrast or Transparent Specimens.

#### Application

BS-2092 Inverted microscope is used by medical and health units, universities, research institutes for observations of micro-organisms, cells, bacteria and tissue cultivation. It can be used for continuous observation of process of cells, bacteria grow and divide in the culture medium. Videos and images can be taken during the process. This microscope is widely used in cytology, parasitology, oncology, immunology, genetic engineering, industrial microbiology, botany and other fields.

#### Specification

Item	Specification	BS-2092
------	---------------	---------

Optical System	Infinite Optical System	●	
Viewing Head	Seidentopf Trinocular Head, Inclined at 45°, Interpupillary Distance 48-75mm	●	
Eyepiece	Wide Field Eyepiece WF10×/ 20mm, Eyepiece Tube Diameter 30mm	●	
	Wide Field Eyepiece WF15×/ 16mm	○	
	Wide Field Eyepiece WF20×/ 12mm	○	
Objective	LWD(Long Working Distance) Infinite Plan Achromatic Objective 4×/ 0.1,WD 22mm	●	
	LWD(Long Working Distance) Infinite Plan Achromatic Phase Objective	10×/ 0.25, WD 6mm	●
		20×/ 0.4, WD 3.1mm	●
		40×/ 0.55, WD 2.2mm	●
Lamp House Adjustment Objective	○		
Nosepiece	Backward Quintuple Nosepiece	●	
Condenser	ELWD(Extra Long Working Distance) Condenser NA 0.3, LWD 72mm (Without Condenser the WD is 150mm)	●	
Centering Telescope	Centering Telescope (Φ30mm)	●	
Phase Annulus	10×-20×, 40× Phase Annulus Plate(Fixed)	●	
	10×-20×, 40× Phase Annulus Plate(Adjustable)	○	
Stage	Plain Stage 170×230mm	●	
	Glass Insert	●	
	Attachable Mechanical Stage, X,Y Coaxial Control, Moving Rang120mm×80mm	●	
	Auxiliary Stages 70mm×180mm	●	
	Terasaki Holder	●	
	Petri Dish Holder Φ35mm	●	
Slide Glass Holder Φ54mm	●		
Focusing	Coaxial Coarse and Fine Adjustment, Fine Division 0.002mm,Moving Range up 4.5mm, down 4.5mm	●	
Illumination	Halogen Lamp 6V/30W, Brightness Adjustable	●	
	5W LED	○	
Filter	Blue, Green and Frosted Glass Filter, Diameter 45mm	●	
Accessories	23.2mm Photo tube Attachment(Used to connect microscope adapter and camera)	○	
	0.5× C-mount(Used to directly connect to a C-mount digital camera)	○	
	Epi-Fluorescent Attachment	○	
Package	1carton/set, 46.5cm*39.5cm*64cm, 18kg	●	

Note: ● Standard Outfit, ○ Optional

## 40. BS-2093A Inverted Biological Microscope



BS-2093A



BS-2093AF

### Introduction

BS-2093A Inverted Biological Microscope is a high level microscope which is specially designed for medical and health units, universities, research institutes to observe cultured living cells. With an innovative infinite optical system and ergonomic design, it has excellent optical performance and easy to operate features. This inverted biological microscope makes your work enjoyable. Digital cameras can be added to the trinocular head to take photos, videos and make measurement.

### Feature

1. Excellent infinite optical system, Wide field eyepiece, view field up to  $\Phi 22\text{mm}$ , more comfortable for observation.
2. More objectives can be installed on the large diameter quintuple nosepiece, easier to change objective.
3. Light distribution (both): 100 : 0 (100% for eyepiece); 80 : 20 (80% for trinocular head and 20% for eyepiece).



4. Long working distance condenser N.A. 0.30, Working distance: 72mm(with condenser), Working distance: 195mm (without condenser), available for extra high culture dishes.

5. Large size stage, convenient for research. Size: 210mm(X)  $\times$  240 (Y)mm, Moving range: 128mm (X)  $\times$  80 (Y)mm.



Mechanical stage available for 96 holes plate.



6. Culture Dish Holder



7. Knob of X-Y mechanical stage can be changed by left or right.

8. Infinite plan 4X phase contrast objective is available.



**Application**

BS-2093A Inverted microscope is used by medical and health units, universities, research institutes for observations of micro-organisms, cells, bacteria and tissue cultivation. It can be used for continuous observation of process of cells, bacteria grow and divide in the culture medium. Videos and images can be taken during the process. This microscope is widely used in cytology, parasitology, oncology, immunology, genetic engineering, industrial microbiology, botany and other fields.

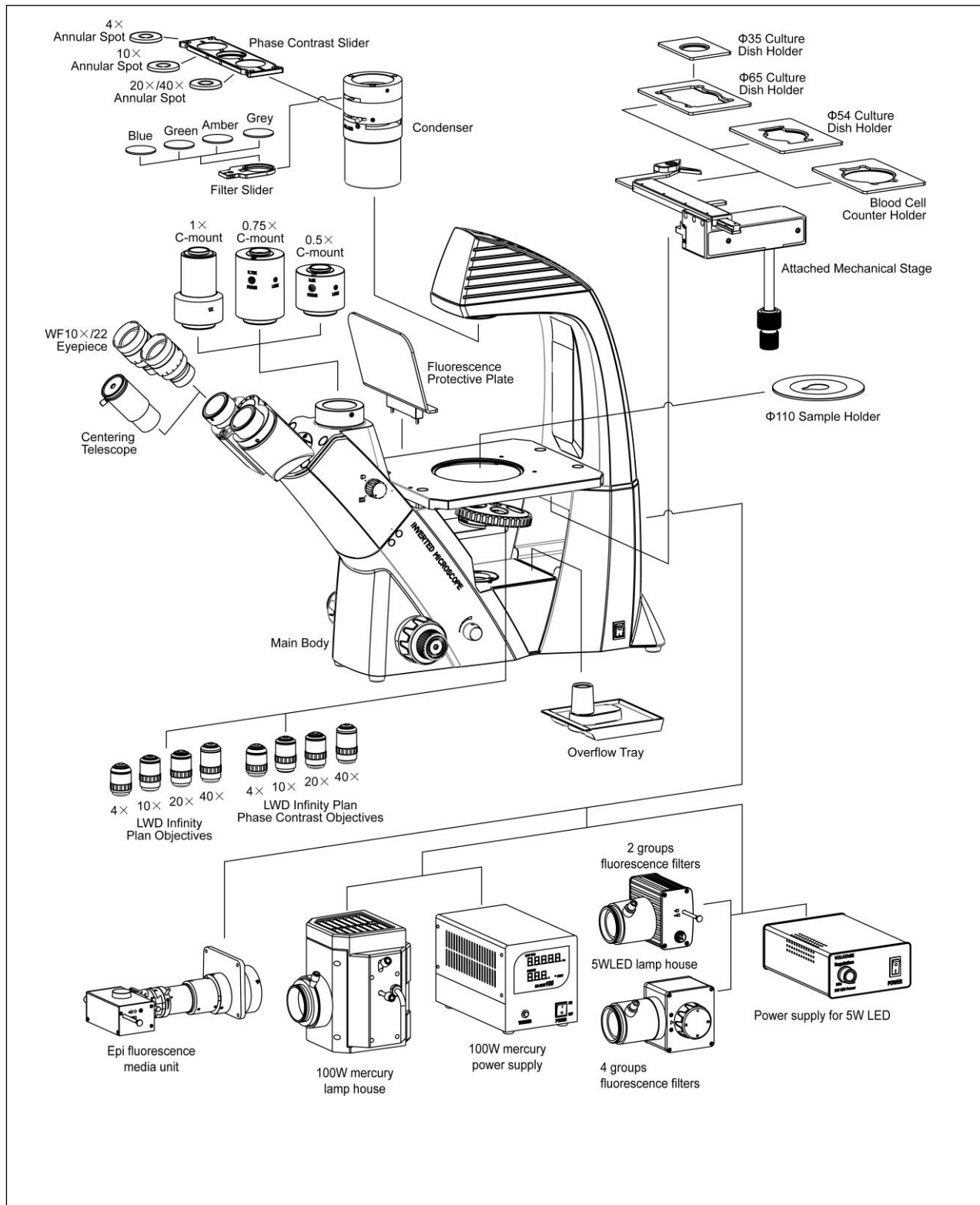
**Specification**

Item	Specification	BS-2093A	BS-2093AF	BS-2093 AF(LED)
Optical System	Infinite Optical System	•	•	•
Viewing Head	Seidentopf Trinocular Head, Inclined at 45°, Interpupillary Distance 48-76mm, Light distribution (both): 100: 0 (100% for eyepiece), 80:20 (80% for trinocular head, and 20% for eyepiece), Eyepiece Tube Diameter 30mm	•	•	•
Eyepiece	Wide Field Eyepiece WF10×/ 22mm	•	•	•
	Wide Field Eyepiece WF15×/ 16mm	○	○	○
	Wide Field Eyepiece WF20×/ 12mm	○	○	○
Objective	4×/0.11, W.D.=12.1mm	•	•	•

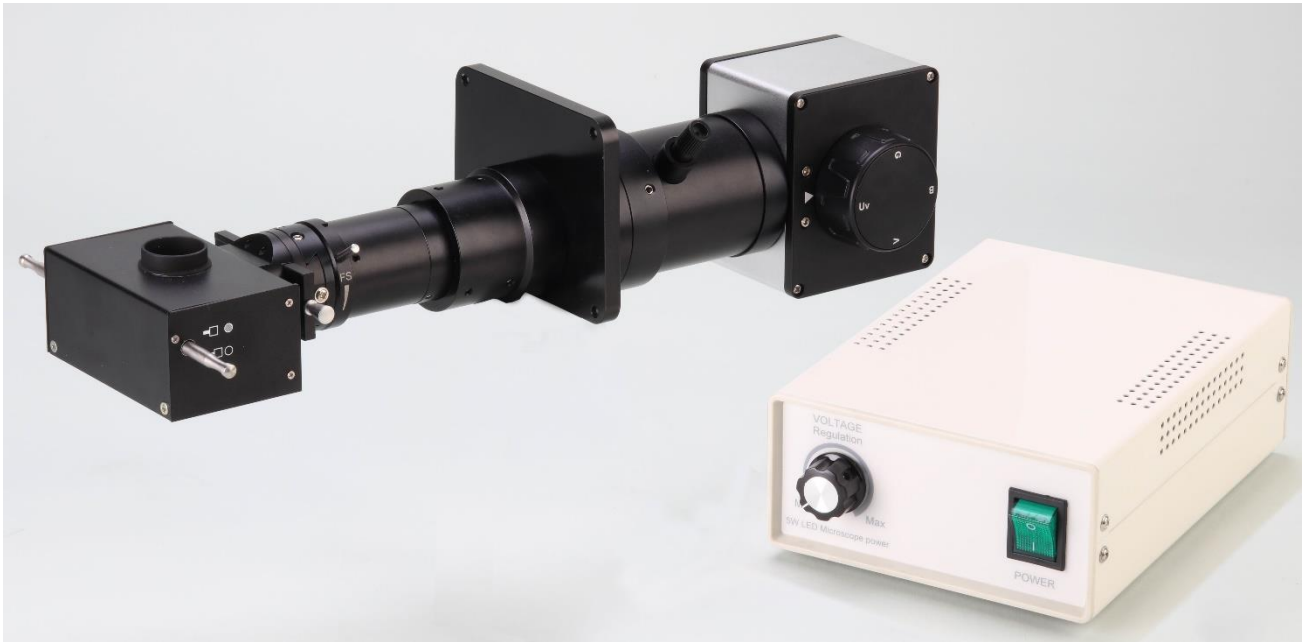
	Long Working Distance Infinite Plan Achromatic Objective	10×/0.25, W.D.=8.3mm	○	○	○
		20×/0.40, W.D.=7.2mm	○	○	○
		40×/0.60, W.D.=3.4mm	○	○	○
	Long Working Distance Infinite Plan Achromatic Phase Contrast Objective	4×/0.10, W.D.=9.2mm	○	○	○
		10×/0.25, W.D.=8.3mm	●	●	●
		20×/0.40, W.D.=7.2mm	●	●	●
	40×/0.60, W.D.=3.4mm	●	●	●	
Nosepiece	Backward Quintuple Nosepiece	●	●	●	
Condenser	Long Working Distance Condenser, N.A. 0.3, Working Distance 72mm (with condenser), 195mm (without condenser)	●	●	●	
Centering Telescope	Centering Telescope (Φ30mm)	○	○	○	
Phase Annulus	10×, 20×, 40× Phase Annulus Plate	●	●	●	
	4× Phase Annulus Plate	○	○	○	
Stage	Plain Stage 210(X)×240mm(Y), round slide plate: Φ110mm	●	●	●	
	Attachable Mechanical Stage, X-Y Coaxial Control, Moving Rang: 128mm×80mm	●	●	●	
	Petri Dish Holder Φ65mm	○	○	○	
	Petri Dish Holder Φ54mm	●	●	●	
	Petri Dish Holder Φ35mm	○	○	○	
	Blood cell counter Holder	○	○	○	
Focusing	Coaxial Coarse and Fine Adjustment, Fine Division 0.002mm, Moving Range 10mm	●	●	●	
Koehler Illumination	6V/30W Halogen Lamp, Brightness Adjustable, input voltage: 100V- 240V	●	●	●	
	5W LED Lamp, Brightness Adjustable, input voltage: 100V-240V	○	○	○	
Filter	Blue Filter, Diameter 32mm	●	●	●	
	Green Filter, Diameter 32mm	●	●	●	
	Amber/Grey Filter, Diameter 32mm	○	○	○	
C-mount	0.5× C-mount Adapter (focus adjustable)	●	●	●	
	0.75× C-mount Adapter (focus adjustable)	○	○	○	
	1× C-mount Adapter (focus adjustable)	○	○	○	
Epi-Fluorescent Attachment	Epi-fluorescence attachment with 100W mercury lamp and B, G fluorescent filters, field diaphragm, center adjustable.	○	●	○	
	Epi-fluorescence attachment with 5W LED lamp and B, G fluorescent filters, field diaphragm, center adjustable.	○	○	●	
	V, UV fluorescent filters	○	○	○	
Packing	1carton/set, Size: 66×59×33cm, GW: 18kgs, NW: 14kgs	●			
	2cartons/set, carton 1 Size: 52×47×49cm, GW: 18kgs, NW: 14kgs; carton 2 Size: 52×47×24cm, GW: 6kgs, NW: 4kgs		●		
	1carton/set, Size: 52×47×49cm, GW: 23kgs, NW: 18kgs			●	

Note: ● Standard Outfit, ○ Optional

**System Diagram**



Fluorescent Attachment

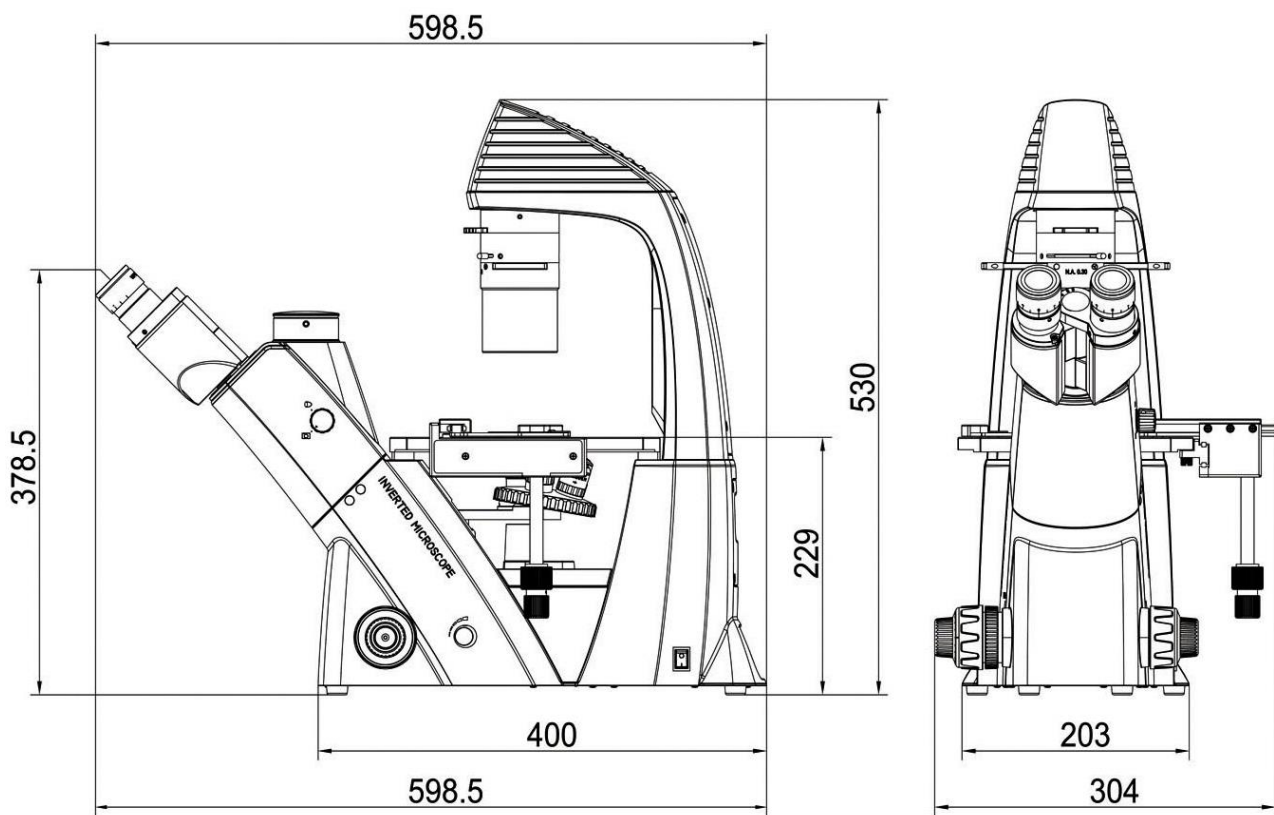


LED fluorescent attachment for BS-2093AF(LED)



Mercury fluorescent attachment for BS-2093AF

Dimension



Unit: mm



## 41. BS-2093B Inverted Biological Microscope



BS-2093B



BS-2093BF(LED)



BS-2093B(seen from left side)



BS-2093BF(LED) (with cameras)

### Introduction

BS-2093B Inverted Biological Microscope is a high level microscope which is specially designed for medical and health units, universities, research institutes to observe cultured living cells. With an innovative infinite optical system and ergonomic design, it has excellent optical performance and easy to operate features. This inverted biological microscope makes your work enjoyable. Digital cameras can be added to the trinocular head to take photos, videos and make measurement.

### Feature

1. Excellent infinite optical system, Wide field eyepiece, view field up to  $\Phi 22\text{mm}$ , perfect for cell observation and culture.
2. Brand-new design for life science research.
3. More objectives can be installed on the large diameter quintuple nosepiece, easier to change objective.
4. Both light ports for microscope digital camera and DSLR photography camera, available for observing with

microscope digital camera and DSLR photography camera at the same time.

5. Light distribution (both): 100 : 0 (100% for eyepiece); 80 : 20 (80% for trinocular head and 20% for eyepiece).



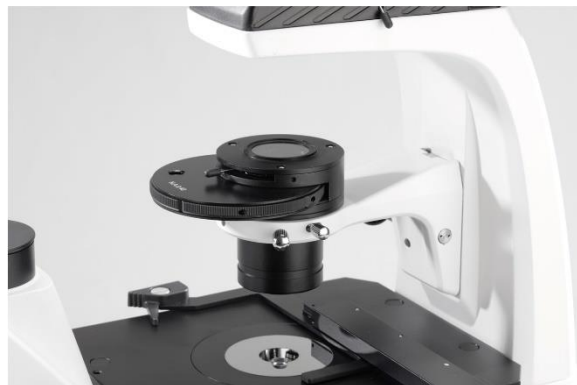
6. Automatic infrared induction for power on-off. Power off upon user leaving 10 minutes, and power on upon user approaching.

7. Special light port for SLR digital camera, 7° inclined up to be more convenient to observe the image of the DSLR camera.



8. 12V/50W Kohler illumination makes the field more even and brighter.

9. 4-hole rotating disc phase contrast condenser as standard to change bright field and phase contrast easily.



10. Culture Dish Holders.



Φ65mm

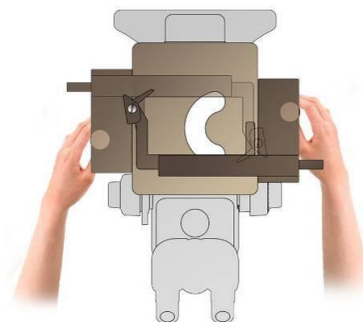
Φ54mm

Φ35mm

blood cell counter holder

13. Knob of X-Y mechanical stage can be changed by left or right.

14. Infinite plan 4X phase contrast objective is available.



## Application

BS-2093B Inverted microscope is used by medical and health units, universities, research institutes for observations of micro-organisms, cells, bacteria and tissue cultivation. It can be used for continuous observation of process of cells, bacteria grow and divide in the culture medium. Videos and images can be taken during the process. This microscope is widely used in cytology, parasitology, oncology, immunology, genetic engineering, industrial microbiology, botany and other fields.

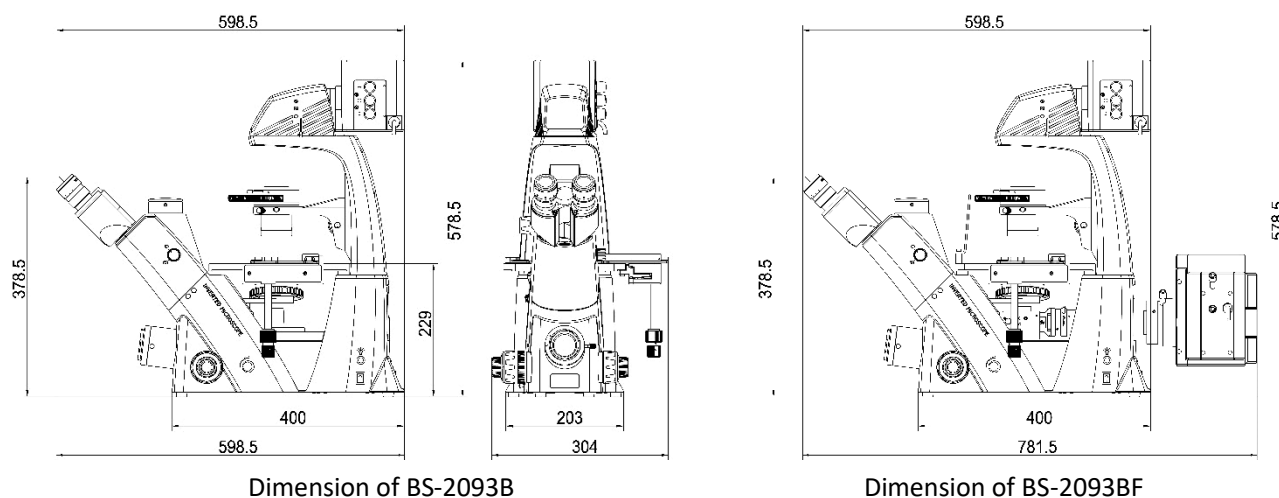
## Specification

Item	Specification	BS-2093B	BS-2093 BF	BS-2093 BF(LED)	
Optical System	Infinite Optical System	●	●	●	
Viewing Head	Seidentopf Trinocular Head, Inclined at 45°, Interpupillary Distance 48-76mm, Light distribution (both): 100: 0 (100% for eyepiece), 80:20 (80% for trinocular head, and 20% for eyepiece), Eyepiece Tube Diameter 30mm	●	●	●	
Eyepiece	Wide Field Eyepiece WF10×/ 22mm	●	●	●	
	Wide Field Eyepiece WF15×/ 16mm	○	○	○	
	Wide Field Eyepiece WF20×/ 12mm	○	○	○	
Objective	Long Working Distance Infinite Plan Achromatic Objective	4×/0.11, W.D.=12.1mm	●	●	●
		10×/0.25, W.D.=8.3mm	○	○	○
		20×/0.40, W.D.=7.2mm	○	○	○
		40×/0.60, W.D.=3.4mm	○	○	○
	Long Working Distance Infinite Plan Achromatic Phase Contrast Objective	4×/0.10, W.D.=9.2mm	○	○	○
		10×/0.25, W.D.=8.3mm	●	●	●
		20×/0.40, W.D.=7.2mm	●	●	●
		40×/0.60, W.D.=3.4mm	●	●	●
Nosepiece	Backward Quintuple Nosepiece	●	●	●	
Condenser	4-hole rotating disc phase contrast condenser, N.A.0.4, W.D.45mm, It can be adjusted up-down	●	●	●	
Centering Telescope	Centering Telescope (Φ30mm)	●	●	●	
Phase Annulus	10×, 20×, 40× Phase Annulus Plate	●	●	●	
	4× Phase Annulus Plate	○	○	○	
Stage	Plain Stage 210(X)×240mm(Y), round slide plate: Φ110mm	●	●	●	
	Attachable Mechanical Stage, X-Y Coaxial Control, Moving Rang: 128mm×80mm	●	●	●	
	Petri Dish Holder Φ65mm	○	○	○	

	Petri Dish Holder $\Phi$ 54mm	●	●	●
	Petri Dish Holder $\Phi$ 35mm	○	○	○
	Blood cell counter Holder	○	○	○
Focusing	Coaxial Coarse and Fine Adjustment, Fine Division 0.002mm, Moving Range 10mm	●	●	●
Koebler Illumination	6V/50W Halogen Lamp, Brightness Adjustable, input voltage: 100V-240V	●	●	●
	5W LED Lamp, Brightness Adjustable, input voltage: 100V-240V	○	○	○
Auto power on-off system	Power off automatically upon user leaving 10 minutes, power on automatically upon user approaching	●	●	●
Filter	Blue Filter, Diameter 32mm	●	●	●
	Green Filter, Diameter 32mm	●	●	●
	Amber/Grey Filter, Diameter 32mm	○	○	○
C-mount	0.5× C-mount Adapter (focus adjustable)	●	●	●
	1× C-mount Adapter (focus adjustable)	○	○	○
	0.75× C-mount Adapter (focus adjustable)	○	○	○
Adapter for DSLR Photography	100% light for Photography Port (Adapter for CANON or NIKON DSLR Digital Photography Camera)	●	●	●
Epi-Fluorescent Attachment	Epi-fluorescence attachment with 100W mercury lamp and B,G fluorescent filters, field diaphragm, center adjustable.	○	●	○
	Epi-fluorescence attachment with 5W LED lamp and B,G fluorescent filters (input voltage: 100V-240V), field diaphragm, center adjustable.	○	○	●
	V, UV fluorescent filters	○	○	○
Packing	1carton/set, Packing Size: 66cm×59cm×33cm, Gross Weight: 18kgs, Net Weight: 13.5kgs	●	●	●

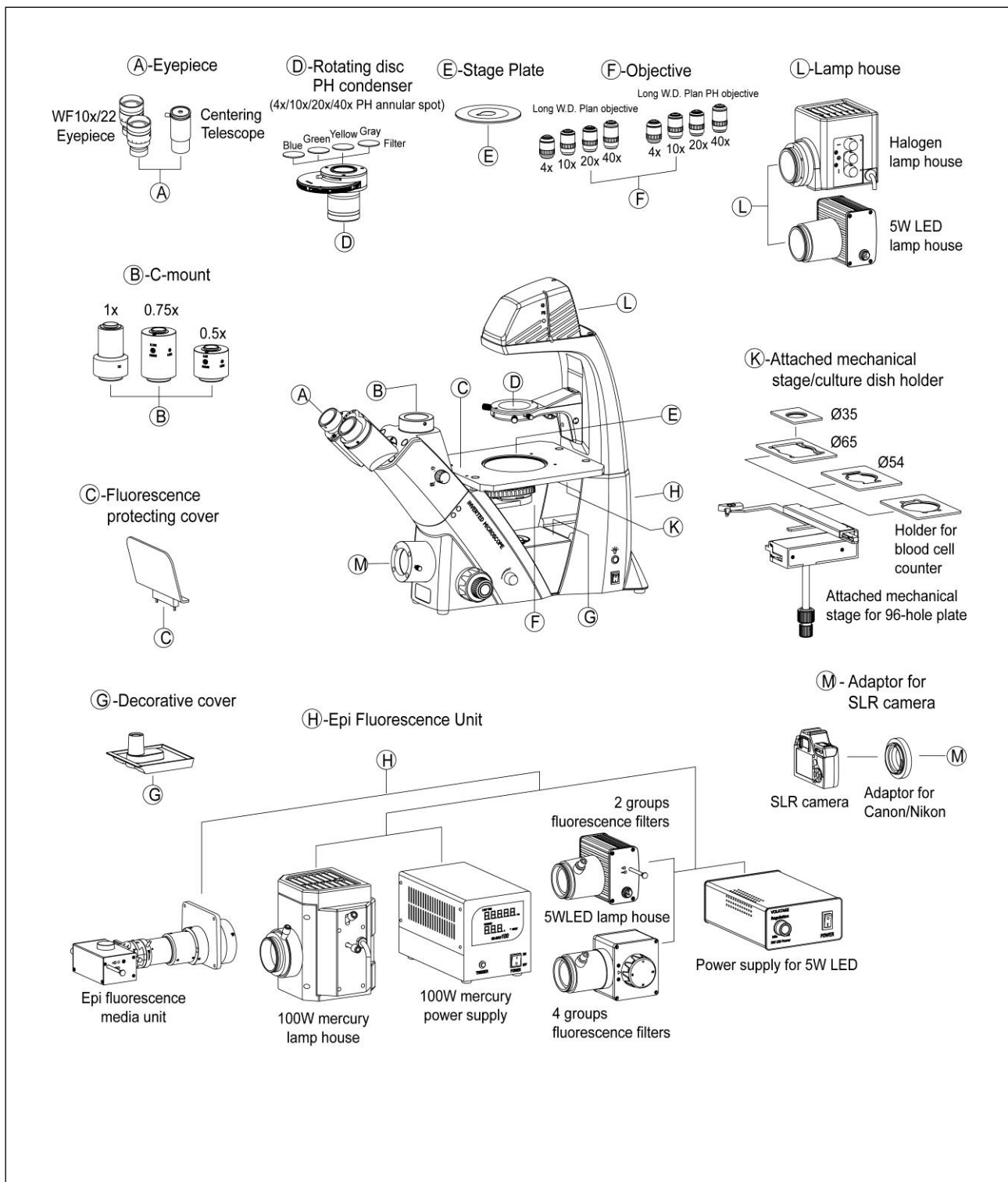
Note: ● Standard Outfit, ○ Optional

## Dimension



Unit: mm

**System Diagram**





Fluorescent Attachment



LED fluorescent attachment for BS-2093BF(LED)



Mercury fluorescent attachment for BS-2093BF

## 42. BS-2094 Inverted Biological Microscope



BS-2094A



BS-2094B

### Introduction

BS-2094 Series Inverted Biological Microscope are high level microscopes which are specially designed for medical and health units, universities, research institutes to observe cultured living cells. With innovative infinite optical system and ergonomic design, they have excellent optical performance and easy to operate features. The microscopes have adopted long life LED lamps as transmitted and fluorescent light source. Digital cameras can be added to the microscope on left side to take photos, videos and make measurement.

The main difference between BS-2094A and BS-2094B is that BS-2094B has an intelligent illumination management system, the illumination intensity will automatically change after you change the objectives and make the microscope to get the best illumination effect, BS-2094B also has a LCD screen to show the working mode like magnification, light intensity, transmitted or fluorescent light source, working or sleep etc.



BS-2094A(left side)



BS-2094A(front)



BS-2094A(right side)



BS-2094B(left side)



BS-2094B(front)



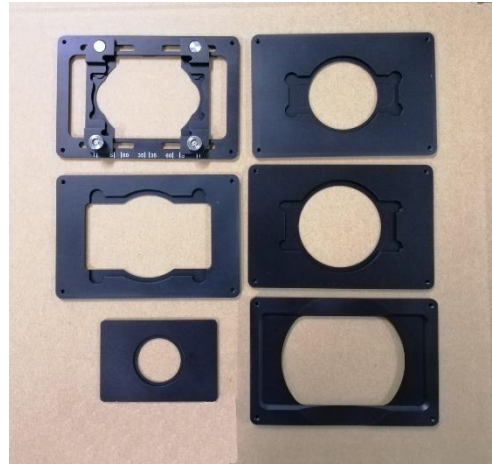
BS-2094B(right side)

### Feature

1. Excellent infinite optical system,  $\Phi 22\text{mm}$  wide field eyepiece,  $45^\circ$  inclined viewing head, more comfortable for observation.
2. Camera port is on left side, less disturb for operation. Light distribution (both): 100 : 0 (100% for eyepiece); 0 : 100 (100% for camera).
3. Long working distance condenser N.A. 0.30, Working distance: 75mm(with condenser), Working distance: 187mm (without condenser), available for extra high culture dishes. Condenser is detachable, without condenser, it is suitable for culture flask.

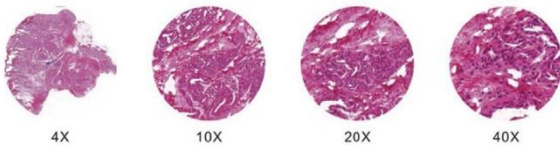


4. Large size stage, convenient for research. Stage Size: 170mm(X)  $\times$  250 (Y)mm, Mechanical stage moving range: 128mm (X)  $\times$  80 (Y)mm. 6 types of petri-dish holders are available.



5. BS-2094B has an intelligent illumination management system.

(1) Coded Quintuple Nosepiece can memorize the illumination brightness of each objective. When different objectives are converted to each other, the light intensity is automatically adjusted to reduce visual fatigue and improve work efficiency.



(2) Use a dimming knob to achieve multiple functions.

Click: Enter standby(sleep) mode

Double click: light intensity lock or unlock

Rotation: Adjust brightness

Press + clockwise rotate: Switch to the transmitted light source

Press + contrarotate: Switch to the fluorescent light source

Press 3 seconds: Set the time of turning off the light after leaving

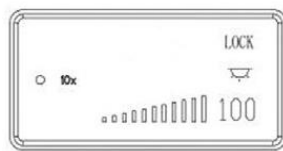


(3) Display microscope working mode.

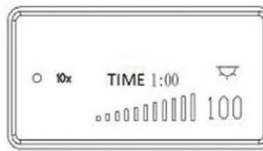
The LCD screen in the front of the microscope can display the working mode of the microscope, including magnification, light intensity, sleep mode and so on.



Start& working



Lock mode

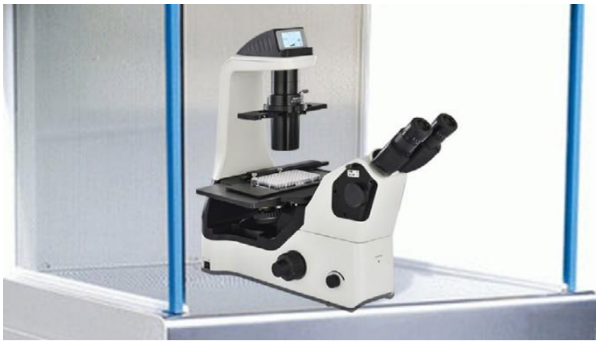


Turn off the light in 1 hour



Sleep mode

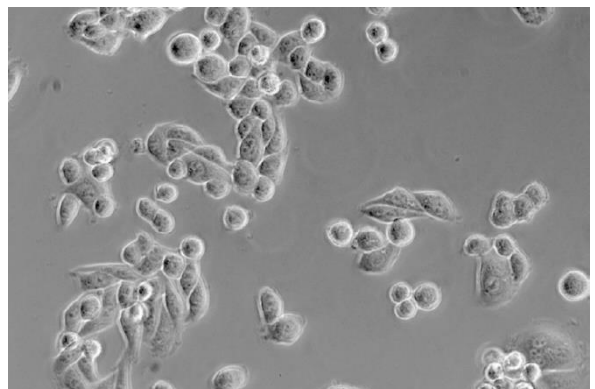
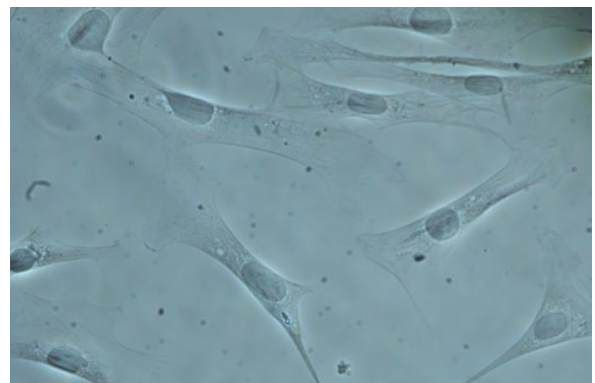
6. The microscope body is compact, stable and suitable for clean bench. The microscope body has been coated with anti-UV material and can be placed into the clean bench for sterilization under UV lamp.



7. Phase Contrast, Hoffman Modulation Phase Contrast and 3D Emboss Contrast observation method are available with transmitted illumination.

(1) Phase contrast observation is a microscopic observation technique that produces a high-contrast microscopic image of a transparent sample by utilizing a change in refractive index. The advantage is that the details of live cell imaging can be obtained without staining and fluorescent dyes.

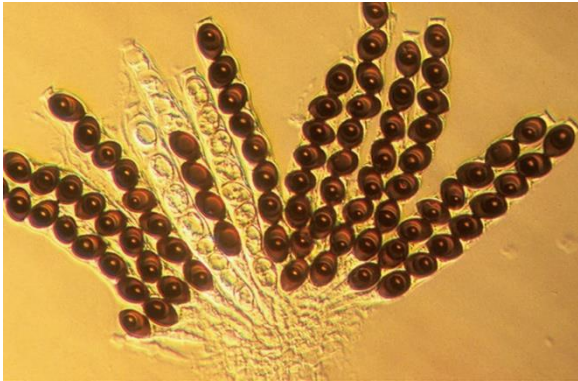
Application range: Living cells culture, Micro-organism, Tissue slide, cell nuclei and organelles etc.



(2) Hoffman Modulation Phase Contrast. With slant light, Hoffman phase contrast changes phase gradient into light intensity variety, it can be used to observe unstained cells and living cells. Giving 3D effect for thick samples, it can greatly reduce the halo in thick specimens.



(3) 3D Emboss Contrast. No need for expensive optical components, just add a contrast adjustment slider to achieve a pseudo 3D glare-free image. Both glass culture dishes or plastic culture dishes can be used.



With Hoffman Modulation Phase Contrast



With 3D Emboss Contrast

8. LED Fluorescent attachment is optional.

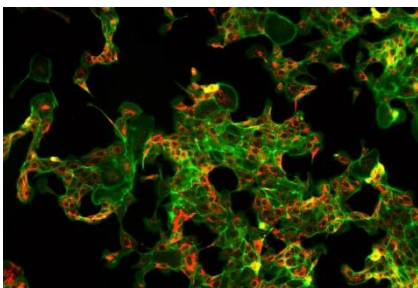
(1) LED light makes fluorescent observation easier.

Fly-eye lens and Kohler illumination have provided a uniform and bright field of view, which is benefit to get high definition images and perfect details. Compared with traditional mercury bulb, the LED lamp has much longer working life, it saves money and has greatly improved the working efficiency. The problems of preheating, cooling and high temperature of mercury lamp has also been solved.

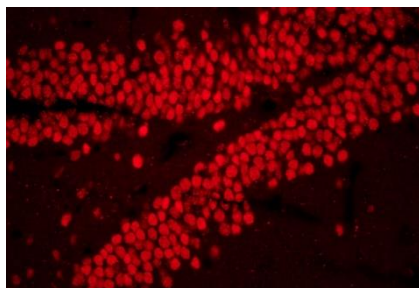


(2) Suitable for a variety of fluorescent dyes.

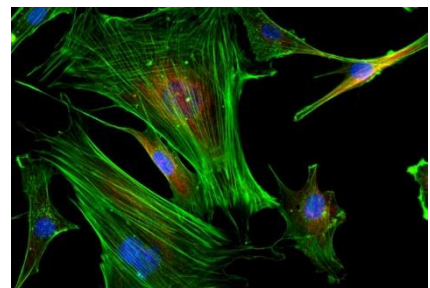
The LED fluorescent attachment has equipped with 3 fluorescent filter blocks, it can be applied to a wide range of dyes and capture clear high contrast fluorescence images.



Breast cancer



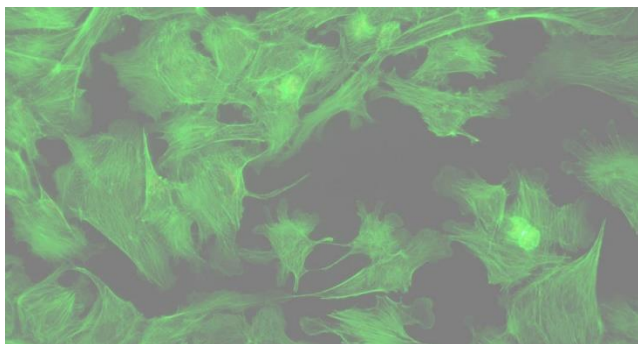
Hippocampus



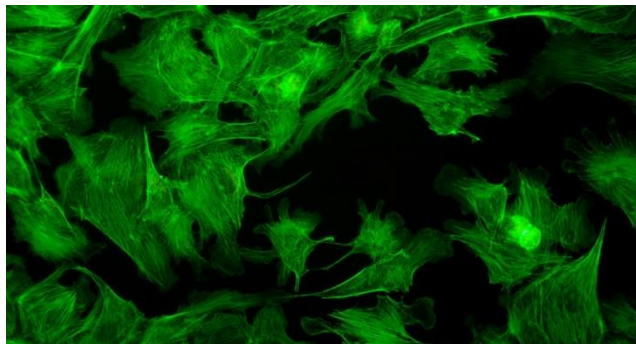
Mouse brain nerve cells

(3) Light barrier plate(contrast shield).

The light barrier plate can be attached to the condenser and effectively block the external light, increase the contrast of the fluorescent image and provide a high quality fluorescent image. When need phase contrast observation, the light barrier plate is very convenient to be removed from the light path, avoiding influence on the quality of phase contrast.



Without Contrast barrier plate



With Contrast barrier plate

## Application

BS-2094 series inverted microscopes are used by medical and health units, universities, research institutes for observations of micro-organisms, cells, bacteria and tissue cultivation. They can be used for continuous observation of process of cells, bacteria grow and divide in the culture medium. Videos and images can be taken during the process. These microscopes are widely used in cytology, parasitology, oncology, immunology, genetic engineering, industrial microbiology, botany and other fields.

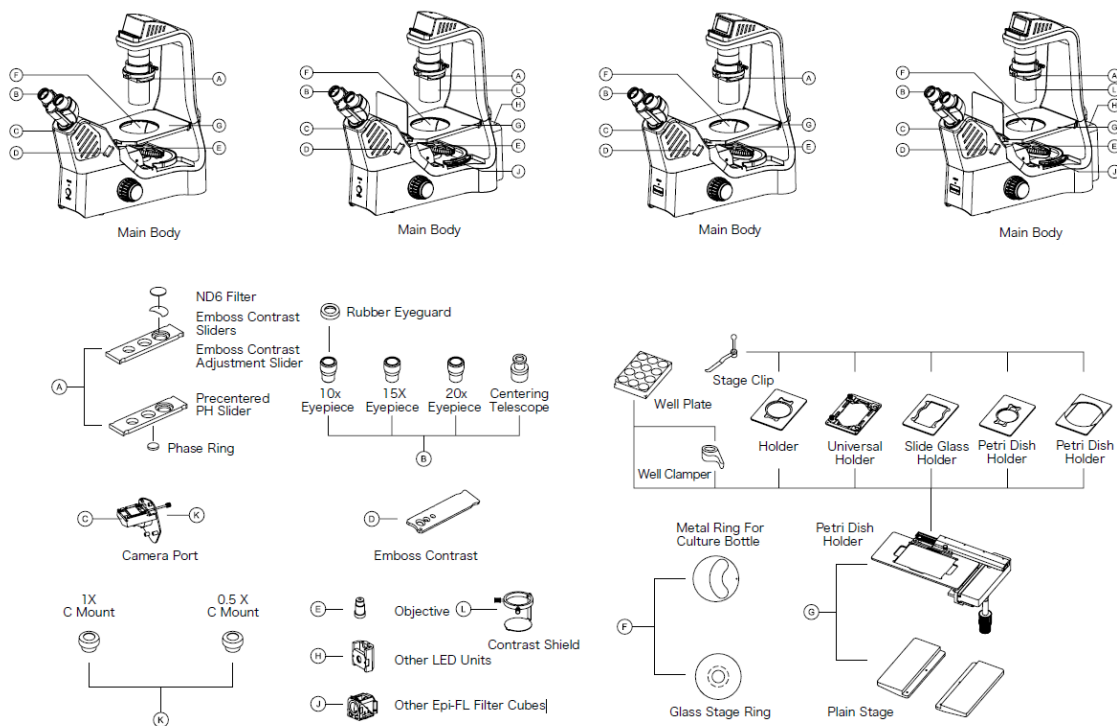
## Specification

Item	Specification		BS-2094	BS-2094	BS-2094	BS-2094
			A	AF	B	BF
Optical System	NIS 60 Infinite Optical System, Tube length 200mm		●	●	●	●
Viewing Head	Seidentopf Binocular Head, Inclined at 45°, Interpupillary Distance 48-75mm, Left side camera port, Light distribution: 100: 0 (100% for eyepiece), 0:100 (100% for camera), Eyepiece Tube Diameter 30mm		●	●	●	●
Eyepiece	SW10×/ 22mm		●	●	●	●
	WF15×/ 16mm		○	○	○	○
	WF20×/ 12mm		○	○	○	○
Objective	NIS60 Infinite LWD Plan Achromatic Objective (Parfocal distance 60mm, M25×0.75)	4×/0.1, WD=30mm	●	●	●	●
	NIS60 Infinite LWD Plan Phase Contrast Achromatic Objective (Parfocal distance 60mm, M25×0.75)	PH10×/0.25, WD=10.2mm	●	●	●	●
		PH20×/0.40, WD=12mm	●	●	●	●
		PH40×/0.60, WD=2.2mm	●	●	●	●
Nosepiece	Quintuple Nosepiece		●	●		
	Coded Quintuple Nosepiece				●	●
Condenser	Long Working Distance Condenser, N.A. 0.3, Working Distance 75mm (with condenser), 187mm (without condenser)		●	●	●	●
Telescope	Centering Telescope: used to adjust the center of phase annulus		●	●	●	●
Phase Annulus	10×-20×-40× Phase Annulus Plate (center adjustable)		●	●	●	●
	4× Phase Annulus Plate		○	○	○	○
Stage	Stage 170 (X)×250(Y) mm with glass insert plate (diameter 110mm)		●	●	●	●

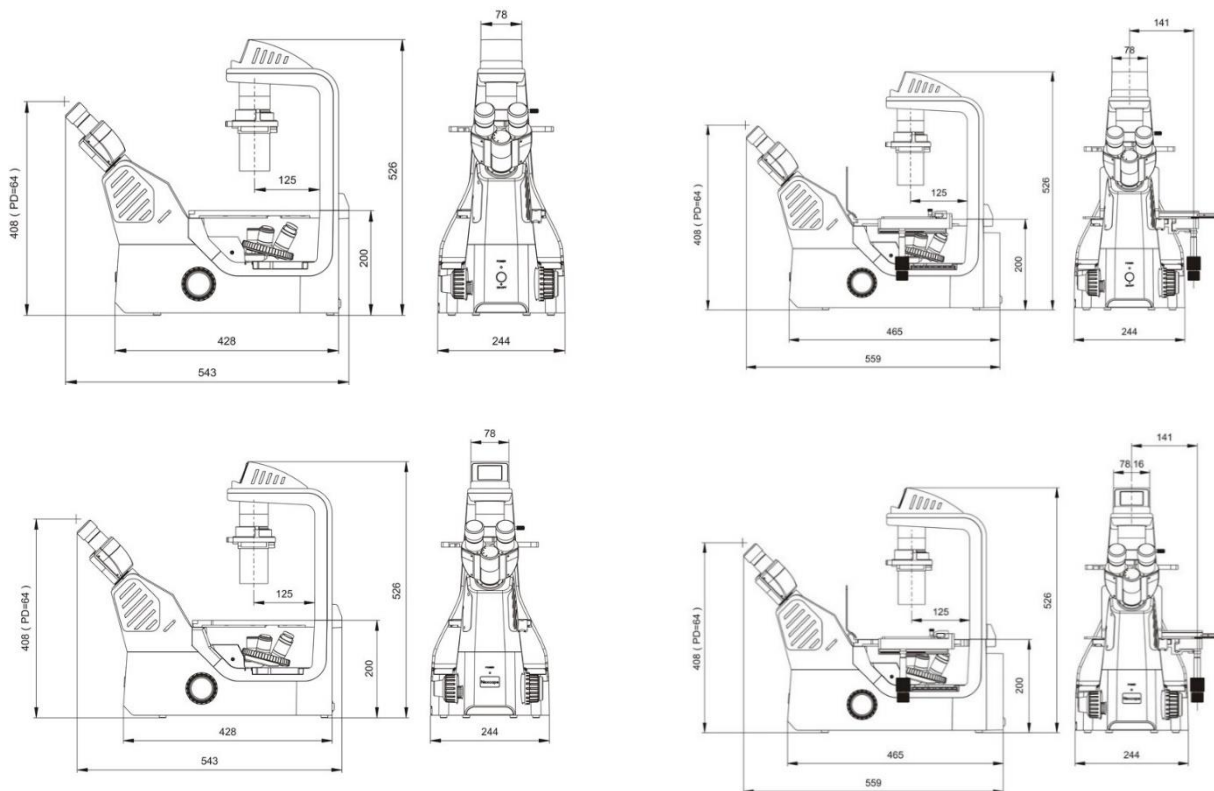
	Attachable Mechanical Stage, X-Y Coaxial Control, Moving Rang: 128mm×80mm, accept 5 types of petri-dish holders, well plates and stage clips	●	●	●	●
	Auxiliary stage 70mm×180mm, used to extend the stage	○	○	○	○
	Universal Holder: used for Terasaki plate, glass slide and Φ35-65mm petri dishes	●	●	●	●
	Terasaki Holder: used for Φ35mm Petri Dish Holder and Φ65mm petri dishes	○	○	○	○
	Glass Slide and Petri Dish Holder Φ54mm	○	○	○	○
	Glass Slide and Petri Dish Holder Φ65mm	○	○	○	○
	Petri Dish Holder Φ35mm	○	○	○	○
	Petri Dish Holder Φ90mm	○	○	○	○
Focusing	Coaxial Coarse and Fine Adjustment, tension adjustment, Fine Division 0.001mm, Fine stroke 0.2mm per rotation, Coarse stroke 37.5mm per rotation. Moving Range: up 7mm, down 1.5mm; Without limitation can up to 18.5mm	●	●	●	●
Transmitted Illumination	3W S-LED, Brightness Adjustable	●	●		
	3W S-LED Koehler illumination, Brightness Adjustable			●	●
EPI-Fluorescent Attachment	LED illuminator, built-in Fly-eye lens, can be configured with up to 3 different fluorescence blocks; B, B1, G, U, V, R fluorescent filters are available	○	○	○	○
Hoffman phase contrast	Hoffman Condenser with 10×, 20×, 40× insert plate, centering telescope and special objective 10×, 20×, 40×	○	○	○	○
3D Emboss Contrast	Main emboss contrast plate with 10×-20×-40× will be inserted into condenser	○	○	○	○
	Auxiliary emboss contrast plate will be inserted into slot which is near viewing head	○	○	○	○
C-mount Adapter	0.5× C-mount Adapter (focus adjustable)	○	○	○	○
	1× C-mount Adapter (focus adjustable)	○	○	○	○
Other Accessories	ECO function: will turn off after 15 minutes if no user	○	○	○	○
	Warm stage	○	○	○	○
	Light barrier plate(contrast shield), can be attached to the condenser and block the external light	○	○	○	○
	Dust cover	●	●	●	●
Power Supply	AC 100-240V, 50/60Hz	●	●	●	●
Fuse	T250V500mA	●	●	●	●
Packing	2cartons/set, Packing Size: 47cm×37cm×39cm, 69cm×39cm×64cm Gross Weight: 20kgs, Net Weight: 18kgs	●	●	●	●

Note: ● Standard Outfit, ○ Optional

### System Diagram



### Dimension



Unit: mm

### 43. BS-2094C Inverted Biological Microscope



BS-2094C

#### Introduction

BS-2094C Inverted Biological Microscope is a high level microscope which is specially designed for medical and health units, universities, research institutes to observe cultured living cells. With innovative infinite optical system and ergonomic design, it has excellent optical performance and easy to operate features. The microscope has adopted long life LED lamps as transmitted and fluorescent light source. Digital cameras can be added to the microscope on left side to take photos, videos and make measurement. The tilting head can offer a comfortable working mode. The angle of transmitted illumination arm can be adjusted, so petri-dish or flask can be easily moved out.

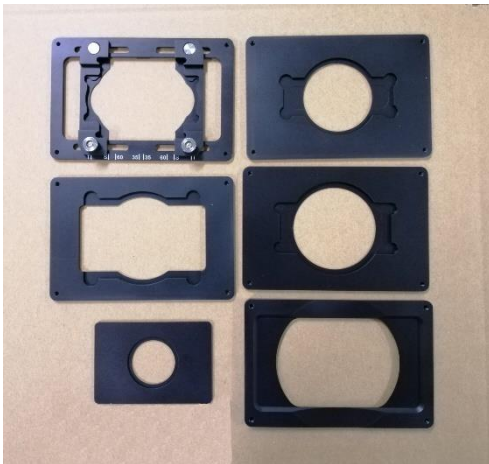
BS-2094C has an intelligent illumination management system, the illumination intensity will automatically change after you change the objectives and make the microscope to get the best illumination effect, BS-2094C also has a LCD screen to show the working mode like magnification, light intensity, transmitted or fluorescent light source, working or sleep etc.

#### Feature

1. Excellent infinite optical system,  $\Phi 22\text{mm}$  wide field eyepiece,  $5^\circ\text{-}35^\circ$  inclined viewing head, more comfortable for observation.
2. Camera port is on left side, less disturb for operation. Light distribution (both): 100 : 0 (100% for eyepiece); 0 : 100 (100% for camera).
3. Long working distance condenser N.A. 0.30, Working distance: 75mm(with condenser), Working distance: 187mm (without condenser), available for extra high culture dishes. Condenser is detachable, without condenser, it is suitable for culture flask.

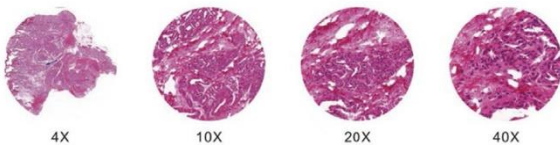


4. Large size stage, convenient for research. Stage Size: 170mm(X) × 250 (Y)mm, Mechanical stage moving range: 128mm (X) × 80 (Y)mm. 6 types of petri-dish holders are available.



5. BS-2094C has an intelligent illumination management system.

(1) Coded Quintuple Nosepiece can memorize the illumination brightness of each objective. When different objectives are converted to each other, the light intensity is automatically adjusted to reduce visual fatigue and improve work efficiency.



(2) Use a dimming knob on left of the base to achieve multiple functions.

Click: Enter standby(sleep) mode

Double click: light intensity lock or unlock

Rotation: Adjust brightness

Press + clockwise rotate: Switch to the transmitted light source

Press + contrarotate: Switch to the fluorescent light source

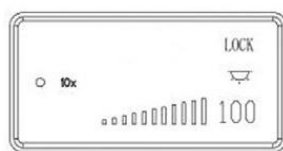
Press 3 seconds: Set the time of turning off the light after leaving

(3) Display microscope working mode.

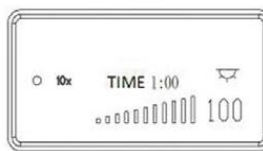
The LCD screen in the front of the microscope can display the working mode of the microscope, including magnification, light intensity, sleep mode and so on.



Start& working



Lock mode



Turn off the light in 1 hour



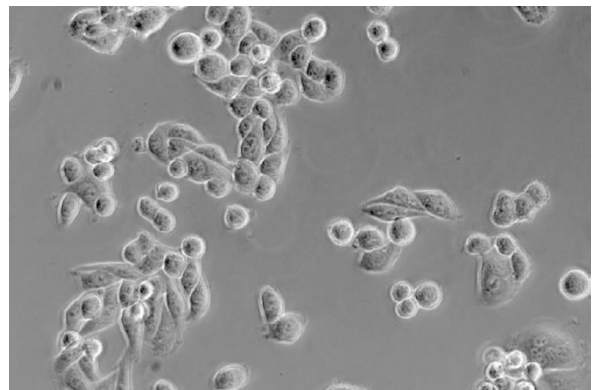
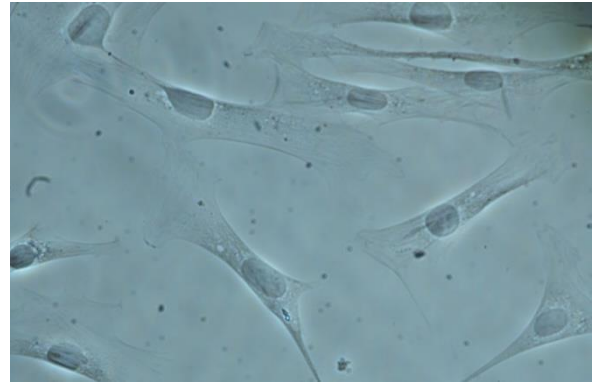
Sleep mode

6. The microscope body is compact, stable and suitable for clean bench. The microscope body has been coated with anti-UV material and can be placed into the clean bench for sterilization under UV lamp.

7. Phase Contrast, Hoffman Modulation Phase Contrast and 3D Emboss Contrast observation method are available with transmitted illumination.

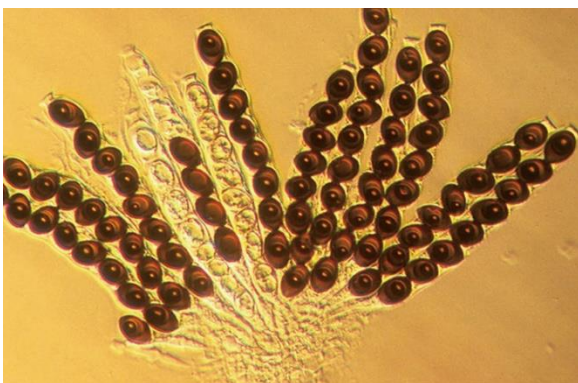
(1) Phase contrast observation is a microscopic observation technique that produces a high-contrast microscopic image of a transparent sample by utilizing a change in refractive index. The advantage is that the details of live cell imaging can be obtained without staining and fluorescent dyes.

Application range: Living cells culture, Micro-organism, Tissue slide, cell nuclei and organelles etc.



(2) Hoffman Modulation Phase Contrast. With slant light, Hoffman phase contrast changes phase gradient into light intensity variety, it can be used to observe unstained cells and living cells. Giving 3D effect for thick samples, it can greatly reduce the halo in thick specimens.

(3) 3D Emboss Contrast. No need for expensive optical components, just add a contrast adjustment slider to achieve a pseudo 3D glare-free image. Both glass culture dishes or plastic culture dishes can be used.



With Hoffman Modulation Phase Contrast



With 3D Emboss Contrast

8. LED Fluorescent attachment is optional.

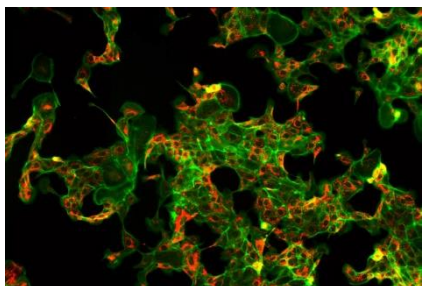
(1) LED light makes fluorescent observation easier.

Fly-eye lens and Kohler illumination have provided a uniform and bright field of view, which is benefit to get high definition images and perfect details. Compared with traditional mercury bulb, the LED lamp has much longer working life, it saves money and has greatly improved the working efficiency. The problems of preheating, cooling and high temperature of mercury lamp has also been solved.

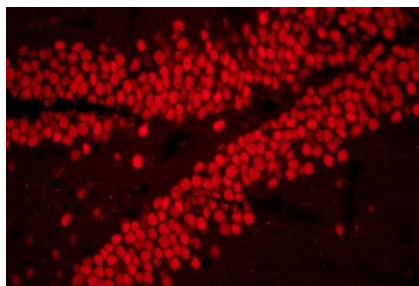


(2) Suitable for a variety of fluorescent dyes.

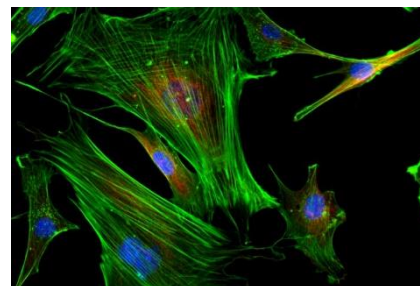
The LED fluorescent attachment has equipped with 3 fluorescent filter blocks, it can be applied to a wide range of dyes and capture clear high contrast fluorescence images.



Breast cancer



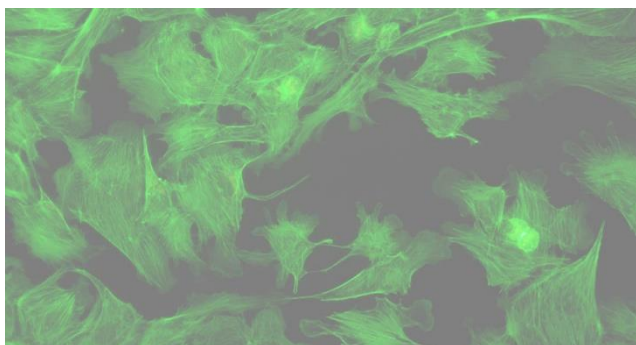
Hippocampus



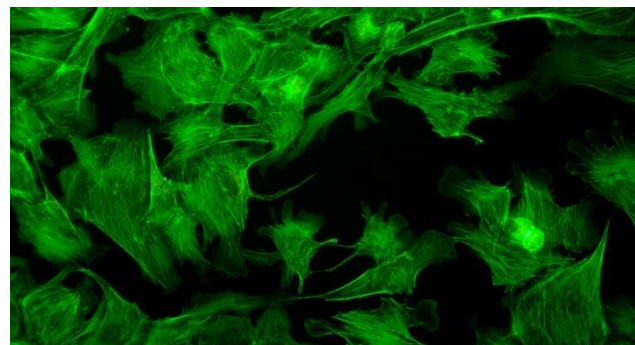
Mouse brain nerve cells

(3) Light shutter on transmitted is available to provide a better fluorescent effect.

The light shutter can effectively block the external light, increase the contrast of the fluorescent image and provide a high quality fluorescent image. When need phase contrast observation, the light shutter is very convenient to be removed from the light path, avoiding influence on the quality of phase contrast.



Without light shutter



With light shutter

## Application

BS-2094C inverted microscope is used by medical and health units, universities, research institutes for observations of micro-organisms, cells, bacteria and tissue cultivation. They can be used for continuous observation of process of cells, bacteria grow and divide in the culture medium. Videos and images can be taken

during the process. These microscopes are widely used in cytology, parasitology, oncology, immunology, genetic engineering, industrial microbiology, botany and other fields.

## Specification

Item	Specification	BS-2094C	BS-2094CF	
Optical System	NIS 60 Infinite Optical System, Tube length 200mm	●	●	
Viewing Head	Seidentopf Tilting Binocular Head, adjustable 0-35° inclined, Interpupillary Distance 48-75mm, Left side camera port, Light distribution: 100: 0 (100% for eyepiece), 0:100 (100% for camera), Eyepiece Tube Diameter 30mm	●	●	
Eyepiece	SW10×/ 22mm	●	●	
	WF15×/ 16mm	○	○	
	WF20×/ 12mm	○	○	
Objective (Parfocal distance 60mm, M25×0.75)	NIS60 Infinite LWD Plan Achromatic Objective	4×/0.1, WD=30mm	●	○
		10×/0.25, WD=10.2mm	○	○
		20×/0.40, WD=12mm	○	○
		40×/0.60, WD=2.2mm	○	○
	NIS60 Infinite LWD Plan Phase Contrast Achromatic Objective	PH4×/0.1, WD=30mm	○	○
		PH10×/0.25, WD=10.2mm	●	○
		PH20×/0.40, WD=12mm	●	○
		PH40×/0.60, WD=2.2mm	●	○
	NIS60 Infinite LWD Plan Semi- APO Fluorescent Objective	4×/0.13, WD=17mm, cover glass=-	○	●
		10×/0.3, WD=7.4mm, cover glass=1.2mm	○	●
		20×/0.45, WD=8mm, cover glass=1.2mm	○	●
		40×/0.60, WD=3.3mm, cover glass=1.2mm	○	●
	NIS60 Infinite LWD Plan Semi- APO Phase Contrast Objective	4×/0.13, WD=17.78mm, cover glass=-	○	○
		10×/0.3, WD=7.4mm, cover glass=1.2mm	○	○
		20×/0.45, WD=7.5-8.8mm, cover glass=1.2mm	○	○
		40×/0.60, WD=3-3.4mm, cover glass=1.2mm	○	○
Nosepiece	Coded Quintuple Nosepiece	●	●	
Condenser	Long Working Distance Condenser, N.A. 0.3, Working Distance 75mm (with condenser), 187mm (without condenser)	●	●	
Telescope	Centering Telescope: used to adjust the center of phase annulus	●	●	
Phase Annulus	10×-20×-40× Phase Annulus Plate (center adjustable)	●	●	
	4× Phase Annulus Plate	○	○	
Stage	Stage 170 (X)×250(Y) mm with glass insert plate (diameter 110mm)	●	●	
	Attachable Mechanical Stage, X-Y Coaxial Control, Moving Rang: 128mm×80mm, accept 5 types of petri-dish holders, well plates and stage clips	●	●	
	Auxiliary stage 70mm×180mm, used to extend the stage	○	●	
	Universal Holder: used for Terasaki plate, glass slide and Φ35-65mm petri dishes	●	●	
	Terasaki Holder: used for Φ35mm Petri Dish Holder and Φ65mm petri dishes	○	○	
	Glass Slide and Petri Dish Holder Φ54mm	○	○	
	Glass Slide and Petri Dish Holder Φ65mm	○	○	
	Petri Dish Holder Φ35mm	○	○	



	Petri Dish Holder Ø90mm	○	○
Focusing	Coaxial Coarse and Fine Adjustment, tension adjustment, Fine Division 0.001mm, Fine stroke 0.2mm per rotation, Coarse stroke 37.5mm per rotation. Moving Range: up 7mm, down 1.5mm; Without limitation can up to 18.5mm	●	●
Transmitted Illumination	3W S-LED Koehler illumination, Brightness Adjustable	●	●
EPI-Fluorescent Attachment	LED illuminator, built-in Fly-eye lens, can be configured with up to 3 different fluorescence blocks; with B, G, U fluorescent filters	○	●
	B1, V, R fluorescent filters	○	○
Hoffman phase contrast	Hoffman Condenser with 10×, 20×, 40× insert plate, centering telescope and special objective 10×, 20×, 40×	○	○
3D Emboss Contrast	Main emboss contrast plate with 10×-20×-40× will be inserted into condenser	○	○
	Auxiliary emboss contrast plate will be inserted into slot which is near viewing head	○	○
C-mount Adapter	0.5× C-mount Adapter (focus adjustable)	○	○
	1× C-mount Adapter (focus adjustable)	○	○
Other Accessories	ECO function: will turn off after 15 minutes if no user	●	●
	Warm stage	○	○
Accessories	Light shutter, can be used to block the external light	●	●
	Dust cover	●	●
Power Supply	AC 100-240V, 50/60Hz	●	●
Fuse	T250V500mA	●	●
Packing	2cartons/set, Packing Size: 47cm×37cm×39cm, 69cm×39cm×64cm, Gross Weight: 20kgs, Net Weight: 18kgs	●	●

Note: ● Standard Outfit, ○ Optional



## 44. BS-2095 Research Inverted Microscope



BS-2095



BS-2095F

### Introduction

BS-2095 Inverted Biological Microscope is a research level microscope which is specially designed for medical and health units, universities, research institutes to observe cultured living cells. It adopts an Infinite optical system, reasonable structure and ergonomic design. With an innovative optical and structure design idea, excellent optical performance and easy to operate system, this research inverted biological microscope makes your works enjoyable. It has a trinocular head, so digital camera or digital eyepiece can be add to the trinocular head to take photos and videos.

### Feature

1. Excellent optical function with infinite optical system.
2. Bright field, phase contrast and DIC observation is available.
3. Innovative stand structure, sharp image display, convenient and special for viewing incubating cell tissue.
4. With Plan semi-APO phase contrast objective, Making Viewing Field Flatter and Brighter, Contrast Sharper, Living Cell Observing easier.
5. Advanced and Reliable Mechanical Stage with Knob Height and Tightness Adjustable.

### Application

BS-2095 Inverted microscope is used by medical and health units, universities, research institutes for observations of micro-organisms, cells, bacteria and tissue cultivation. It can be used for continuous observation of process of cells, bacteria grow and divide in the culture medium. Videos and images can be taken during the process. This microscope is widely used in cytology, parasitology, oncology, immunology, genetic engineering, industrial microbiology, botany and other fields.

**Specification**

Item	Specification	BS-2095	BS-2095 F	BS-2095 F(LED)
Optical system	NIS60 Infinite optical system	●	●	●
Eyepiece	SW10×/25mm, φ30mm	●	●	●
	SW10×/22mm, φ30mm	○	○	○
	EW12.5×/17.5mm, φ30mm	○	○	○
	WF15×/16mm, φ30mm	○	○	○
	WF20×/12mm, φ30mm	○	○	○
Viewing Head	Trinocular head with Bertrand lens, inclined at 45°, Interpupillary 47-78mm, 3 position beam split ratio: 50/50, 100/0, 0/100	●	●	●
	Binocular ERGO head	○	○	○
Plan semi-APO phase contrast objective	10× NA=0.3 WD=8.1mm Cover glass 1.2mm	●	●	●
	20× NA=0.45 WD=7.5-8.8mm Cover glass 0-2mm	●	●	●
	40× NA=0.60 WD=3-4.4mm Cover glass 0-2mm	●	●	●
	4× NA=0.13 WD=16.5mm Cover glass 0-2mm	○	○	○
	60× NA=0.70 WD=1.8-2.6mm Cover glass 0.1-1.3mm	○	○	○
Nosepiece	6-hole nosepiece with DIC slot (DIC for transmitted and reflected)	●	●	●
Condenser	Long working distance condenser, NA0.55, WD=26mm, with 6-position plate	●	●	●
Illumination	Kohler illumination, 12V/100W halogen lamp	●	●	●
	LED illumination (service life of minimum 50,000 hours)	○	○	○
	ECO Auto-off function (automatically shut off in 15 mins if no users)	○	●	●
Focusing	Coaxial coarse&fine focusing. Movement range 9mm, coarse adjustment 2mm/rotation, fine adjustment 0.2mm/rotation	●	●	●
Internal mag.	Internal magnification 1×, 1.5×	●	●	●
Side video port	Switchable by turning plate, 3 models: left side port/eyepiece=50/50; right side port/eyepiece=20/80; left&right side port/eyepiece=0/100	●	●	●
Dark field	Optional	○	○	○
Polarizing kit	Optional	○	○	○
Phase contrast	Standard	●	●	●
DIC	Optional	○	○	○
Stage	Three-layer mechanical stage, stage size: 340×230mm, movement range 130×85mm, flexible knob. Different small sizes stage could be attached to main stage	●	●	●
Fluorescent attachment	Epi-fluorescence attachment with 100W HBO mercury lamp and B,G,UV fluorescent filters, field diaphragm, center adjustable.	○	●	○
	Epi-fluorescence attachment with 5W LED lamp and B,G,UV fluorescent filters (input voltage: 100V-240V), field diaphragm, center adjustable.	○	○	●
	Multi-model plate structure, total 6 position, could be taken out from main frame and change different cube easily.	○	●	●
	V, B1, R fluorescent filters	○	○	○

Note: ● Standard Outfit, ○ Optional

## **BPM Series Portable Microscope**

### **1. BPM-220 USB digital microscope**



#### **Introduction**

BPM-220 USB digital microscope provides powers from 10× to 200× with 2.0MP Image sensor. It is ideally suited for Medical, Industrial Inspection, Engineering, educational and Science Applications to examine coins, stamps, rocks, relics, insects, plants, skin, gems, circuit boards, various materials and many other objects. A rugged, metal stand is included for holding the microscope steady at various positions for viewing and/or imaging. With the included software, you can observe the magnified images, capture video, take snapshots and do measurement with Windows Win7, Win 8, Win 10 32bit&64 bit, Mac OS X 10.5 or above Operation system.

#### **Feature**

1. Easy to use portable digital microscope with USB output interface.
2. 10× to 200× Magnification.
3. Real 2.0 Mega Pixels CMOS sensor.
4. Manual Focus from 10mm to 500mm.
5. LED illumination with 8pcs LED lamps, brightness adjustable.
6. Photo management software, Auto White Balance and Exposure.
7. Powered by USB 2.0 cable, 5V DC.
8. Metal stand to hold the microscope steady.
9. Multi-language support: English, Germany, Spanish, French, Russian.
10. Operating System: Windows Win7, Win 8, Win 10 32bit&64 bit, Mac OS X 10.5 or above.

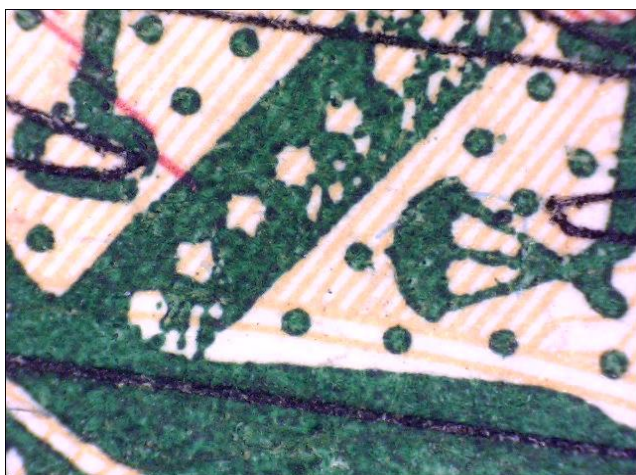
#### **Application**

BPM-220 USB digital microscope can be used for: Hobbyists, Educators, Medical Labs, Industrial Inspection, Engineering Applications, Teachers, Students, Science Applications, Doctor's Offices, Police Agencies, Government Testing, and general use by consumers. It is ideally suited for examining solid objects such as coins, stamps, rocks, relics, insects, plants, skin, gems, circuit boards, various materials, and many other objects.

## Specification

Image Sensor	2.0 Mega Pixels CMOS sensor
Image Capture Resolution	1920×1080, 1280×720, 640×480
Video Capture Resolution	1920×1080, 1280×720, 640×480
Focus Range	Manual Focus From 10mm to 500mm
Frame Rate	Max. 30f/s under 600 Lus Brightness
Magnification Ratio	10× to 200×
Video Format	AVI format
Still Image Format	JPEG or BMP
Light Source	8 LED (adjustable by control wheel)
PC Interface	USB 2.0
Power Supply	5V DC from USB port
Operation System	Windows Win7, Win 8, Win 10 32bit&64 bit, Mac OS X 10.6 or above
OSD Language	English, Deutsch, Spanish, Russian, Italian, French, Portuguese, Dutch, Polish, Japanese, Korean, Chinese
Bundled Software	MicroCapture Plus (with measurement for Win/Mac)
Size	110mm(L) × 33mm(R)
Weight	160g
Package Content	Digital microscope with USB cable, Metal Stand, User Manual, CD with Software
Packing Info	Gift box, 20pcs/carton, 8.2kgs/carton, carton size: 45.5×34.5×30.0cm

## Sample Image



## 2. BPM-350 USB digital microscope



### Introduction

BPM-350 USB digital microscope provides powers from 20× and 300× with 5.0MP Image sensor. It is ideally suited for Medical, Industrial Inspection, Engineering, educational and Science Applications to examine coins, stamps, rocks, relics, insects, plants, skin, gems, circuit boards, various materials and many other objects. With the included software, you can observe the magnified images, capture video, take snapshots and do measurement with Windows Win7, Win 8, Win 10 32bit&64 bit, Mac OS X 10.5 or above Operation system.

### Feature

1. Easy to use portable digital microscope with USB output interface.
2. 20× and 300× Magnification.
3. 5.0 Mega Pixels CMOS sensor.
4. Manual Focus from 10mm to 500mm.
5. LED illumination with 8pcs LED lamps, brightness adjustable.
6. Photo management software, Auto White Balance and Exposure.
7. Powered by USB 2.0 cable, 5V DC.
8. Metal stand to hold the microscope steady.
9. Multi-language support: English, Germany, Spanish, French, Russian.
10. Operating System: Windows Win7, Win 8, Win 10 32bit&64 bit, Mac OS X 10.5 or above.

### Application

BPM-350 USB digital microscope can be used for: Hobbyists, Educators, Medical Labs, Industrial Inspection, Engineering Applications, Teachers, Students, Science Applications, Doctor's Offices, Police Agencies, Government



Testing, and general use by consumers. It is ideally suited for examining solid objects such as coins, stamps, rocks, relics, insects, plants, skin, gems, circuit boards, various materials, and many other objects.

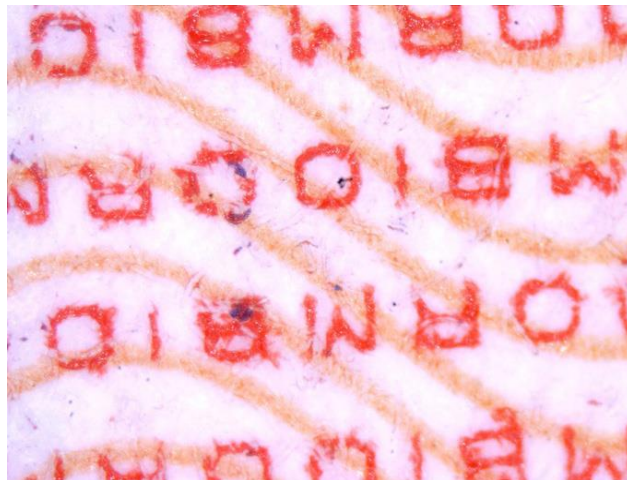
### Specification

Image Sensor	5.0 Mega Pixels CMOS sensor (true resolution)
Image Capture Resolution	5M, 3M, 1.3M, VGA, QVGA
Video Capture Resolution	5M, 3M, 1.3M, VGA, QVGA
Focus Range	Manual Focus From 10mm to 500mm
Frame Rate	Max. 30f/s under 600 Lus Brightness
Magnification Ratio	20× to 300×
Video Format	AVI format
Still Image Format	JPEG or BMP
Light Source	8 LED (adjustable by control wheel)
PC Interface	USB 2.0
Power Supply	5V DC from USB port
Operation System	Windows Win7, Win 8, Win 10 32bit&64 bit, Mac OS X 10.6 or above
OSD Language	English, German, Spanish, French, Russian
Bundled Software	MicroCapture with measurement & calibration function
Size	110mm(L) x33mm(R)
Weight	90g
Package Content	Digital microscope with USB cable, Professional stand, User Manual, CD with Software
Packing Info	Gift box, 12pcs/carton, 11.8kgs/carton, carton size: 45×36×43cm

### Sample Image



Sweater



Currency

### 3. BPM-350L LCD USB digital microscope



#### Introduction

BPM-350L LCD USB digital microscope provides powers from 20× and 300× with 5.0MP Image sensor, the LCD screen is 3.5inch. It can take images and videos and save in the micro SD card. It also can be connected to PC and take image, take video and do measurement with software. It is ideally suited for Medical, Industrial Inspection, Engineering, educational and Science Applications to examine coins, stamps, rocks, relics, insects, plants, skin, gems, circuit boards, various materials and many other objects.

#### Feature

1. Can work independently, portable and easy to operate.
2. 20×-300× Magnification, 4× digital magnification.
3. 3.5 inches LCD screen, resolution 320×240.
4. Images and videos can be saved in micro SD card, up to 32G.
5. 5.0 Mega Pixels CMOS sensor.
6. Manual Focus from 10mm to 50mm.
7. LED illumination with 8pcs LED lamps, brightness adjustable.

#### Application

BPM-350L LCD USB digital microscope can be used for: Hobbyists, Educators, Medical Labs, Industrial Inspection, Engineering Applications, Teachers, Students, Science Applications, Doctor's Offices, Police Agencies, Government Testing, and general use by consumers. It is ideally suited for examining solid objects such as coins, stamps, rocks, relics, insects, plants, skin, gems, circuit boards, various materials, and many other objects.

## Specification

Image Sensor	5.0 Mega Pixels CMOS sensor (interpolated to 12.0MP)
LCD Screen	3.5 inches LCD screen, resolution 320x240
Image Capture Resolution	12M, 9M, 5M, 3M, 1.3M, VGA
Video Capture Resolution	12M, 9M, 5M, 3M, 1.3M, VGA
Focus Range	Manual Focus From 10mm to 50mm
Frame Rate	Max. 30f/s under 600 Lus Brightness
Magnification Ratio	20x to 300x(Digital Magnification can be 1200x )
TV output	Available to any monitor with TV input interface
Card Slot	Support MicroSD Card(not included) slot up to 32GB
Light Source	8 LED (adjustable by control wheel)
Battery	Rechargeable lithium battery (recharged by power adapter or USB)
Measurement	By software when connected to PC
OSD Language	English, German, Spanish, French, Russian
Bundled Software	MicroCapture with measurement & calibration function
Microscope Size	149mm(L)*104mm(W)*227(H)
Weight	1100g
Package Content	Microscope, Power Adapter, USB cable, TV cable, CD with Software, User manual
Packing Info	Gift box, 6pcs/carton, 9.0kgs/carton, carton size 43.5x41.5x35cm

## Sample Image



Sweater



Currency

## 4. BPM-350P Portable Digital Microscope



### Introduction

BPM-350P portable digital microscope provides powers from 20× and 300× with 5.0MP Image sensor, the LCD screen is 3inch. It can take images and videos and save in the micro SD card. It also can be connected to PC and take image, take video and do measurement with software. It is ideally suited for Medical, Industrial Inspection, Engineering, educational and Science Applications to examine coins, stamps, rocks, relics, insects, plants, skin, gems, circuit boards, various materials and many other objects.

### Feature

1. Can work independently, portable and easy to operate.
2. 20× and 300× Magnification.
3. 3 inches LCD screen, resolution 320×240.
4. Images and videos can be saved in micro SD card, up to 32G.
5. 5.0 Mega Pixels CMOS sensor.
6. Manual Focus from 10mm to 50mm.
7. LED illumination with 8pcs LED lamps, brightness adjustable.
8. Compatible with Windows XP/Vista/Win7/8/10, 32bit&64 bit and Mac operation system.

### Application

BPM-350P portable digital microscope can be used for: Hobbyists, Educators, Medical Labs, Industrial Inspection, Engineering Applications, Teachers, Students, Science Applications, Doctor’s Offices, Police Agencies, Government Testing, and general use by consumers. It is ideally suited for examining solid objects such as coins, stamps, rocks, relics, insects, plants, skin, gems, circuit boards, various materials, and many other objects.



**Specification**

Image Sensor	5.0 Mega Pixels CMOS sensor (interpolated to 12.0MP)
LCD Screen	3 inches LCD screen, resolution 320×240
Capture Resolution	12M, 9M, 5M, 3M, 1.3M, VGA
Focus Range	Manual Focus From 10mm to 50mm
Frame Rate	Max 30f/s under 600 Lus Brightness
Magnification Ratio	20× to 300×(Digital Magnification can be 1200× )
TV output	Available to any monitor with TV in
Card Slot	Support MicroSD Card(not included) slot up to 32GB
Light Source	8 LED (adjustable by control wheel)
Battery	Rechargeable lithium battery (recharged by power adapter or USB)
Measurement	By software when connected to PC
OSD Language	English, German, Spanish, French, Russian
Bundled Software	PortableCapture Pro with measurement & calibration function
Microscope Size	130mm*112mm*28
Weight	400g
Package Content	Microscope, Power Adapter, USB cable, TV cable, CD with Software, User's manual
Packing Info	Gift box, 6pcs/carton, 9.0kgs/carton, 43.5x41.5x35cm



## 5. BPM-1080W WIFI Digital Microscope



### Introduction

BPM-1080W WIFI portable microscope is a great product for education, industrial inspection and fun. The microscope provides powers from 10x to 230x. It can work with smart phone, tablet PC and PC via Wifi, it also can work with PC via USB cable. It is ideally suited for examining coins, stamps, rocks, relics, insects, plants, skin, gems, circuit boards, various materials, electronics, LCD panel and many other objects. With the software, you can observe the magnified images, capture video, take snapshots and do measurement with iOS (5.1 or later), Android and Windows Operation System.

### Features

1. It can work on Windows/Mac/iOS (iPhone, iPad)/Android (smart phone, Tablet PC) Operation System.
2. It has measurement function (by software) when working on Windows/Mac.
3. Professional Stand, very suitable for observation.
4. With built-in battery, can work on fields.

### Application

BPM-1080W WIFI digital microscope can be used for: Hobbyists, Educators, Medical Labs, Industrial Inspection, Engineering Applications, Teachers, Students, Science Applications, Doctor's Offices, Police Agencies, Government Testing, and general use by consumers. It is ideally suited for examining solid objects such as coins, stamps, rocks, relics, insects, plants, skin, gems, circuit boards, various materials, and many other objects.

### Specification

Sensor	3.0MP CMOS sensor (true resolution)
Image Capture Resolution	3M, 5M, 8M, 12M
Video Capture Resolution	1920x1080 (1080P), 1280x720 (720P), VGA
Focus Range	Manual focus from 0mm to 50mm
Magnifications	10x-230x

Video Format	H.264
Photo Format	JPEG
Light Source	6 LED (adjustable by control wheel)
Power Supply	Rechargeable Li-ion battery Working time: 3hrs, Charging time: 2hrs Charging power: DC 5V/1A (mini USB)
iOS/Android interface	Wi-Fi
Transmission Range	20M (open sight)
Transmission Rate	150Mbps
PC interface	USB2.0
App	iOS: MicroCapture Search and download from App Store Android: MicroCapture or search and Download from <a href="https://play.google.com/store">https://play.google.com/store</a>
PC OSD language	English, Deutsch, Spanish, Russian, Italian, French, Portuguese, Dutch, Polish, Japanese, Korean, Chinese
PC Operation System	Windows XP/Vista/Win7/8/10, 32bit&64 bit
Bundle software for PC	Portable Capture HD (with measurement by USB connection)
Operation Temperature	0-55 degree
Microscope Size	Microscope: 154mm (L) x 44mm (R) Professional Stand: 165mm(L) x118mm(W)x12mm (H)
Package Content	Microscope, Power Adapter, USB cable, CD with Software, User manual
Packing Info	Gift box, 6pcs/carton, 9.0kgs/carton, carton size 43.5x41.5x35cm

## 6. BPM-1080H HDMI Digital Microscope



### Introduction

BPM-1080H HDMI digital microscope is a great product for education, industrial inspection and fun. The microscope provides powers from 10x to 200x. It can work with LCD monitors which has HDMI port. It does not need a PC and can save cost for customers. The big LCD monitor can show the better details. It is ideally suited for examining coins, stamps, rocks, relics, insects, plants, skin, gems, circuit boards, various materials, electronics, LCD panel and many other objects. With the software, you can observe the magnified images, capture video, take snapshots and do measurement with Windows Operation System.

### Features

1. It can work with all the LCD monitors with HDMI port.
2. It has measurement function (by software) when working on Windows.
3. Professional Stand, very suitable for observation.

### Applications

BPM-1080H HDMI digital microscope can be used for: Hobbyists, Educators, Medical Labs, Industrial Inspection, Engineering Applications, Teachers, Students, Science Applications, Doctor's Offices, Police Agencies, Government Testing, and general use by consumers. It is ideally suited for examining solid objects such as coins, stamps, rocks, relics, insects, plants, skin, gems, circuit boards, various materials, and many other objects.

### Specification

Sensor	3.0MP CMOS sensor
Focal Distance	10mm to 500mm
Magnification	10x-200x
Video Output	1080P Full HD, 720P, VGA
Photo Resolution	5M, 3M, 1.3M, VGA

Photo Format	JPEG
Frame Rate	Max 30f/s under 600 Lus Brightness
Video-output Interface	HDMI
Storage	MicroSD card (not included), up to 32G
Power supply	DC 5V/1A (mini USB)
Light source	8 LEDs (brightness adjustable)
Accessories	Professional Stand, Power Adapter, USB cable, Software CD, HDMI Cable
Dimension	185(L) x33(D)mm
Weight	130g
Packing	Gift box, 16pcs/carton, 12kgs/carton, 45x44x35cm/carton

## 7. BPM-300 Portable Measuring Microscope

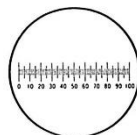
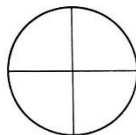


### Introduction

BPM-300 series portable measuring microscopes feature smart size, light weight, nice design and easy operation. They are mainly used for measuring or viewing purposes in production or laboratory. They are particularly suitable for spot examination of machinery industry, paper making, printing and textile, etc. They are also suitable to be used by students for education.

### Feature

1. Eyepiece 10× with reticle and diopter adjustment.
2. Various of reticle for eyepiece to meet different requirements.



10X Eyepiece with reticule and diopter adjustment

### Application

BPM-300 series portable measuring microscopes are mainly used for measuring or viewing purposes in production and laboratory area. They are particularly suitable for examination of machinery industry, paper making, printing and textile, etc. They are also suitable to be used by students for education.



**Specification**

Item	BPM-300A(L)	BPM-300B(L)	BPM-300C(L)	BPM-300D(L)
Total Magnification	100×	50×	40×	20×
Mechanical Tube Length	160mm			
Eyepiece	10×			
Objective	10×	5×	4×	2×
Numerical Aperture	0.25	0.12	0.1	0.05
Diameter of Viewing field in Eyepiece	φ18mm			
Eyepiece Reticle	0.1mm			
Fine Division	0.01mm	0.02mm	0.025mm	0.05mm
Working Distance	6.93mm	17.6mm	18mm	17.2mm
Focus Range	30mm			
Diameter of Bearing Plane	φ63mm			
Height of Microscope	210mm			
Mass of Microscope	650g			
Illumination	Pen light, No.7 battery			

	BPM-300A	BPM-300B	BPM-300C	BPM-300D	BPM-300 AL	BPM-300 BL	BPM-300 CL	BPM-300 DL
Eyepiece 10×/18 Cross with Reticle	●	●	●	●	●	●	●	●
Objective 10×	●				●			
Objective 5×		●				●		
Objective 4×			●				●	
Objective 2×				●				●
Pen Light Illumination (with holder, No Battery)					●	●	●	●

Note: ●Standard Outfit, ○Optional

## 8. BPM-620 Portable Metallurgical Microscope



BPM-620



BPM-620M(with Magnetic base)

### Introduction

BPM-620 Portable Metallurgical Microscope is mainly used in field to identify the structures of all kinds of metal and alloy when failure in making sample. It adopts a rechargeable vertical LED illuminator, which provides even and adequate illumination. It can work more than 40 hours after one charge.

The magnetic base is optional, it can be adsorbed solidly on the work piece, it is adapted to various diameter pipes and flat, the magnetic base can be adjusted from X, Y directions. Digital cameras can be used with the microscope for image, video capture and analysis.

### Application

BPM-620 can be widely used for identification of casting quality, inspection of raw material or metallurgical structures, research and analysis of processed material in factory and laboratory, also can be used in antique gem and surface observation.

### Specification

Eyepiece	Plan eyepiece 10×/18mm
Objective	Long work distance plan objective: 10×/0.25, WD7.3mm; 50×/0.70, WD 0.5mm
Total Magnification	100×, 500×
Mechanical tube length	160mm
Focusing range	20mm
Illumination	Adjustable LED light(chargeable)
Dimension	23cm*11cm*7cm
Weight	0.75kg
Optional Parts	WF16×, WF20×, WF10×/18 eyepiece with crossing line

	Long work distance plan 5×, 20× and 40× objectives
	Digital Cameras
	Magnetic base

**Complete set of the instrument**

Model	BMP-620	BPM-620M
Microscope Body	1 set	1 set
Plan eyepiece 10×/18mm	1 unit	1 unit
LWD Plan Metallurgical Objective 10×	1 unit	1 unit
LWD Plan Metallurgical Objective 50×	1 unit	1 unit
LED Illumination	1 set	1 set
Power source battery charger	1 unit	1 unit
Magnetic base		1 unit

## BS-3000 Series Stereo Microscopes

### 1. BS-3001 Stereo Microscope



BS-3001A



BS-3001B



BS-3001C

#### Introduction

BS-3001 series stereo microscopes are smart and cost-effective stereo microscope. A variety of eyepieces and objectives are available for different requirements. They are widely used in electric factories, schools laboratories, sculpture, families and so on.

#### Feature

1. Sharp stereo erect image over a wide field of view.
2. Upright binocular head with locked-in eyepiece. The left ocular-tube with diopter adjustment  $\pm 5dp$ .
3. V-shape inserted objective with locked-in structure, easy to replace.
4. CE approved.
5. A wide range of accessories for selection.

#### Application

BS-3001 series stereo microscopes are widely applied in school education, circuit board inspection and repair, surface mount technology work, electronics inspection, coin collecting, gemology and gemstone setting, engraving, inspection and repair of small parts.

#### Specification

Item	Specification	BS-3001A	BS-3001B	BS-3001C
Viewing Head	Upright Binocular Viewing Head, Interpupillary Distance 55-75mm, diopter adjustment $\pm 5dp$ on left ocular-tube, Tube diameter 23.2mm	•	•	•
Eyepiece	WF5 $\times$ /20mm	○	○	○
	WF10 $\times$ /20mm	•	•	•
	WF15 $\times$ /15mm	○	○	○

	WF20×/10mm	○	○	○
Objective	1×, Working distance 57mm	○	○	○
	2×, Working distance 80mm	●	●	●
	3×, Working distance 61mm	○	○	○
	4×, Working distance 57mm	○	○	○
	6×, Working distance 66mm	○	○	○
Illumination	Natural illumination, Natural light	●		
	Incident illumination, Incandescent lamp 12V10W		●	
	Incident & transmitted illumination, Incandescent lamp 12V10W			●
Working Plate	Φ60 White&black Plate	●	●	
	Φ95 Frosted glass and White&Black Plate			●
Power supply	110V/60HZ or 220V/50HZ.	●	●	●
Package	4pcs/carton, 68cm*31cm*38cm, Gross weight 11kg, Net weight 7kg	●	●	●

Note: ● Standard Outfit, ○ Optional



## 2. BS-3002 Stereo Microscope



BS-3002A



BS-3002B



BS-3002C

### Introduction

BS-3002 series stereo microscopes are smart and cost-effective stereo microscopes. A variety of eyepieces and objectives are available for different requirements. They are widely used in electric factories, schools laboratories, sculpture, families and so on.

### Feature

1. Sharp stereo erect image over a wide field of view.
2. 45° Inclined binocular head with locked-in eyepiece. The left ocular-tube with diopter adjustment  $\pm 5dp$ .
3. V-shape inserted objective with locked-in structure, easy to replace.
4. CE approved.
5. A wide range of accessories for selection.

### Application

BS-3002 series stereo microscopes are widely applied in school education, circuit board inspection and repair, surface mount technology work, electronics inspection, coin collecting, gemology and gemstone setting, engraving, inspection and repair of small parts.

### Specification

Item	Specification	BS-3002A	BS-3002B	BS-3002C
Viewing Head	Binocular Viewing Head, 45° Inclined, Interpupillary Distance 55-75mm, diopter adjustment $\pm 5dp$ on left ocular-tube, Tube diameter 23.2mm	●	●	●
Eyepiece	WF5×/20mm	○	○	○
	WF10×/20mm	●	●	●
	WF15×/15mm	○	○	○
	WF20×/10mm	○	○	○
Objective	1×, Working distance 57mm	○	○	○

	2x, Working distance 80mm	●	●	●
	3x, Working distance 61mm	○	○	○
	4x, Working distance 57mm	○	○	○
	6x, Working distance 66mm	○	○	○
Illumination	Natural illumination, Natural light	●		
	Incident illumination, Incandescent lamp 12V10W		●	
	Incident & transmitted illumination, Incandescent lamp 12V10W			●
Working Plate	Φ60 White&black Plate	●	●	
	Φ95 Frosted glass and White&Black Plate			●
Power supply	110V/60HZ or 220V/50HZ.	●	●	●
Package	4pcs/carton, 68cm*31cm*38cm, Gross weight 11kg, Net weight 7kg	●	●	●

Note: ● Standard Outfit, ○ Optional

### 3. BS-3003 Long Working Distance Stereo Microscope



#### Introduction

BS-3003 Long working distance stereo microscope is a smart and cost-effective stereo microscopes. A variety of eyepieces and objectives are available for different requirements. The long working distance feature provides more choice for different samples and works. It is widely used in electric factories, schools laboratories, sculpture, families and so on.

#### Feature

1. Sharp stereo erect image over a wide field of view.
2. 45° Inclined binocular head with locked-in eyepiece. The left ocular-tube with diopter adjustment  $\pm 5dp$ .
3. V-shape inserted objective with locked-in structure, easy to replace.
4. Come with high brightness 3W LED lamp.
5. A wide range of accessories for selection.

#### Application

BS-3003 stereo microscope is widely applied in school education, circuit board inspection and repair, surface mount technology work, electronics inspection, coin collecting, gemology and gemstone setting, engraving, inspection and repair of small parts.

#### Specification

Item	Specification	BS-3003
Viewing Head	Binocular Viewing Head, 45° Inclined, Interpupillary Distance 55-75mm, diopter adjustment $\pm 5dp$ on left ocular-tube, Tube diameter 23.2mm	●
Eyepiece	WF5x/20mm	○

	WF10×/20mm	●
	WF15×/15mm	○
	WF20×/10mm	○
Objective	0.5×, Working distance 250mm	○
	1×, Working distance 230mm	●
	2×, Working distance 80mm	○
Illumination	Incident 3W LED illumination	●
Power supply	110V/60HZ or 220V/50HZ, 110V-240V Wide input voltage is optional	●
Package	1pcs/carton, 41cm*20cm*43cm, Gross weight 7.5kg, Net weight 6kg	●

Note: ● Standard Outfit, ○ Optional

## 4. BS-3010 Stereo Microscope



BS-3010A



BS-3010B

### Introduction

Stereo microscopes are also known as low magnification and dissecting microscopes. BS-3010 series stereo microscope offers upright, un-reversed 3D images with high resolution and high quality. Optional eyepieces and objectives expand magnification range and working distances.

BS-3010 is a smart and cost-effective stereo microscope. Optional cold light and ring light can be chosen for this microscope. They are widely used in electric factories, schools laboratories, sculpture, families and so on.

### Feature

1. High quality, high function and excellent cost performance.
2. Ergonomic design, sharp image display, wide viewing field and easy to operate.
3. Ideal instrument in academic, medical and industrial field.

### Application

BS-3010 series stereo microscopes are widely applied in circuit board repair, circuit board inspection, surface mount technology work, electronics inspection, coin collecting, gemology and gemstone setting, engraving, and repair and inspection of small parts.

### Specification

Item	Specification	BS-3010A	BS-3010B
Viewing Head	Binocular Viewing Head, 45° Inclined, Interpupillary Distance 55-75mm, Un-rotatable	•	
	Binocular Viewing Head, 45° Inclined, Interpupillary Distance 55-75mm, 360° Rotatable		•



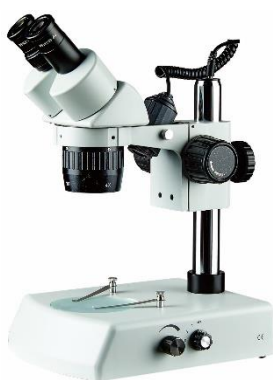
Eyepiece	WF5×/20mm	○	○
	WF10×/20mm	●	●
	WF15×/15mm	○	○
	WF20×/10mm	○	○
Objective	2×, 4×	●	●
	1×, 2×	○	○
	1×, 3×	○	○
Working Distance	57mm	●	
	76mm		●
Illumination	Transmitted halogen light 12V/ 10W	●	●
	Incident halogen light 12V/ 10W	●	●
	Transmitted & Incident LED illumination	○	○
Package	4pcs/carton, 68cm*31cm*38cm, 16kg	●	●

Note: ● Standard Outfit, ○ Optional

## 5. BS-3014 Stereo Microscope



BS-3014A



BS-3014B



BS-3014C



BS-3014D

### Introduction

BS-3014 series stereo microscopes offer upright, un-reversed 3D images with high resolution. The microscopes are smart and cost-effective. Optional cold light and ring light can be chosen for these microscopes. They are widely used in electric factories, schools laboratories, sculpture, families and so on.

### Feature

1. 20×/40× magnification, can be extended to 5×-160× with optional eyepiece and auxiliary objective.
2. High eyepoint WF10×/20mm eyepiece.
3. 100mm Long working distance.
4. Ergonomic design, sharp image, wide viewing field, high depth of field and easy to operate.
5. Ideal instrument in education, medical and industrial field.

### Application

The BS-3014 series stereo microscopes are of great value in a variety of applications such as circuit board repair, circuit board inspection, surface mount technology work, electronics inspection, coin collecting, gemology and gemstone setting, engraving, repair and inspection of small parts, dissection and school education etc.

### Specification

Item	Specification	BS-3014A	BS-3014B	BS-3014C	BS-3014D
Head	Binocular Viewing Head, Inclined at 45°, 360° rotatable, Interpupillary adjusting distance 54-76mm, left eyepiece with diopter adjustment±5	●	●	●	●
Eyepiece	High eyepoint WF10×/20mm eyepiece	●	●	●	●
	WF15×/15mm eyepiece	○	○	○	○
	WF20×/10mm eyepiece	○	○	○	○
Objective	2×, 4×	●	●	●	●
	1×, 2×	○	○	○	○
	1×, 3×	○	○	○	○
Magnification	20×, 40×, with optional eyepiece and auxiliary objective, can	●	●	●	●

	be extended to 5x-160x				
Auxiliary Objective	0.5x objective, W.D.: 165mm	○	○	○	○
	1.5x objective, W.D.: 45mm	○	○	○	○
	2x objective, W.D.: 30mm	○	○	○	○
Working Distance	100mm	●	●	●	●
Head Mount	76mm	●	●	●	●
Illumination	Transmitted light 12V/15W Halogen, Brightness Adjustable		●		
	Incident light 12V/15W Halogen, Brightness Adjustable		●		
	Transmitted light 3W LED, Brightness Adjustable		○		●
	Incident light 3W LED, Brightness Adjustable		○		●
	LED ring light	○	○	○	○
	Cold light source	○	○	○	○
Focusing Arm	Coarse focusing, focusing range 50mm	●	●	●	●
Pillar Stand	Pole height 240mm, pole diameter Φ32mm, with Clips, Φ95 black&White plate, Base size: 200×255×22mm, no illumination	●			
	Pole height 240mm, pole diameter Φ32mm, with Clips, Φ95 black&White plate, glass plate, Base size: 200×255×60mm, Halogen illumination		●		
	Pole height 240mm, pole diameter Φ32mm, with Clips, Φ95 black&White plate, Base size: 205×275×22mm, no illumination			●	
	Pole height 240mm, pole diameter Φ32mm, with Clips, Φ95 black&White plate, glass plate, Base size: 205×275×40mm, LED illumination				●
Package	1pc/1carton, 38.5cm*24cm*37cm, Net/Gross Weight: 3.5/4.5kg	●	●	●	●

Note: ● Standard Outfit, ○ Optional

## Optical Parameters

Objective	Eyepiece						WD
	WF10x/20mm		WF15x/15mm		WF20x/10mm		
	Mag.	FOV	Mag.	FOV	Mag.	FOV	
1x	10x	20mm	15x	15mm	20x	10mm	100mm
2x	20x	10mm	30x	7.5mm	40x	5mm	
3x	30x	6.6mm	45x	5mm	60x	3.3mm	
4x	40x	5mm	60x	3.75mm	80x	2.5mm	

## 6. BS-3015 Stereo Microscope



BS-3015B

### Introduction

BS-3015 series stereo microscopes offer upright, un-reversed 3D images with high resolution. The microscopes are smart and cost-effective. Optional eyepiece, objectives, cold light and ring light are available for the microscopes. They are widely used in electric factories, schools laboratories, sculpture, families and so on.

### Feature

1. High quality, high function and excellent cost performance.
2. Ergonomic design, sharp image display, wide viewing field and easy to operate.
3. Various objectives 1×/2×, 1×/3×, 1×/4×, 2×/3×, 2×/4×, Magnification range 5×-240×.
4. Providing a wide viewing eyepiece with field of  $\Phi 23\text{mm}$ .
5. Ideal instrument in academic, medical and industrial field.
6. ESD painting is available.

### Application

The BS-3015 series stereo microscopes are of great value in a variety of applications such as circuit board repair, circuit board inspection, surface mount technology work, electronics inspection, coin collecting, gemology and gemstone setting, engraving, repair and inspection of small parts.

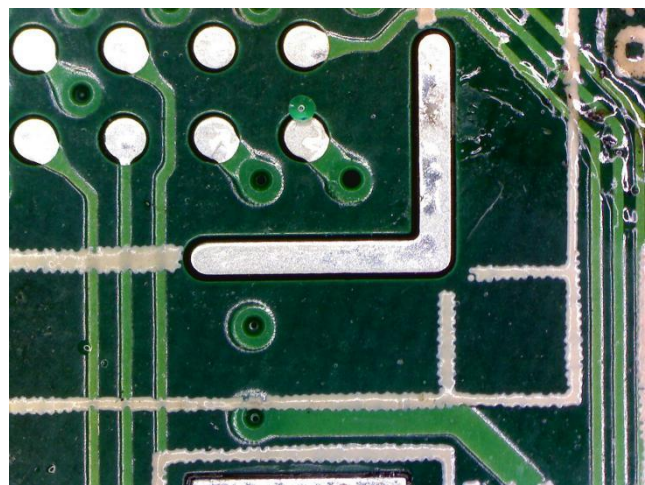
### Specification

Item	Specification	BS-3015B	BS-3015T
Viewing Head	Binocular Viewing Head, Inclined at 45°, 360° rotatable, Interpupillary adjusting distance 55-75mm	●	
	Binocular Viewing Head, Inclined at 60°, 360° rotatable, Interpupillary adjusting distance 55-75mm	○	○
	Trinocular Viewing Head, Inclined at 45°, 360° rotatable, Interpupillary adjusting		●

	distance 55-75mm, Light distribution: 2:8			
Diopter Adjustment Eyepiece	WF10×/23mm eyepiece		●	●
	WF10×/22mm eyepiece		○	○
	WF10×/20mm eyepiece		○	○
	WF15×/16mm eyepiece		○	○
	WF20×/12mm eyepiece		○	○
	WF30×/8mm eyepiece		○	○
	WF10× eyepiece with cross hair		○	○
Objective	Changeable objective	2×, 4×	●	●
		2×, 3×	○	○
		1×, 2×	○	○
		1×, 3×	○	○
		1×, 4×	○	○
	Auxiliary objective	2×, WD: 30mm	○	○
		0.75×, WD: 120mm	○	○
		0.63×, WD: 137mm	○	○
0.5×, WD: 180mm		○	○	
Working Distance	97mm		●	●
Head Mount	Diameter 76mm		●	●
Focusing	Coarse Focus, Focusing Range 100mm		●	●
Illumination	Incident Illumination 100V-240V/ LED		●	●
	Transmitted Illumination 100V-240V/ LED		●	●
Photo Adapter	Used for connecting Nikon or Canon DSLR camera to the microscope		○	○
Video Adapter	0.5× C-mount		●	●
	1× C-mount or 23.2mm video tube		○	○

Note: ● Standard Outfit, ○ Optional

### Sample Image





## 7. BS-3020 Zoom Stereo Microscope



BS-3020B



BS-3020T



BS-3020BD

### Introduction

Stereo microscopes are also known as low magnification and dissecting microscopes. BS-3020 Stereo Zoom Microscope on a post stand offers upright, un-reversed 3D images that very clear throughout the zoom range. Optional eyepieces and auxiliary objectives expand magnification range and working distances.

BS-3020 is a very popular zoom stereo microscope. Optional cold light and ring light can be chosen for this microscope. You can also choose trinocular head to add digital camera with the appropriate camera adapter. In summary BS-3020 gives many range of magnifications, working distances, photo options, accessories and is very convenient to use – no wonder it is popular!

### Feature

1. High quality, high function and excellent cost performance.
2. High resolution, Wide viewing field, Long working distance.
3. Ergonomic design, sharp image display, wide viewing field and easy to operate.
4. Providing a wide viewing field of  $\Phi 20\text{mm}$  with the zoom ratio of 1:4.5.
5. Ideal instrument in academic, medical and industrial field.

### Application

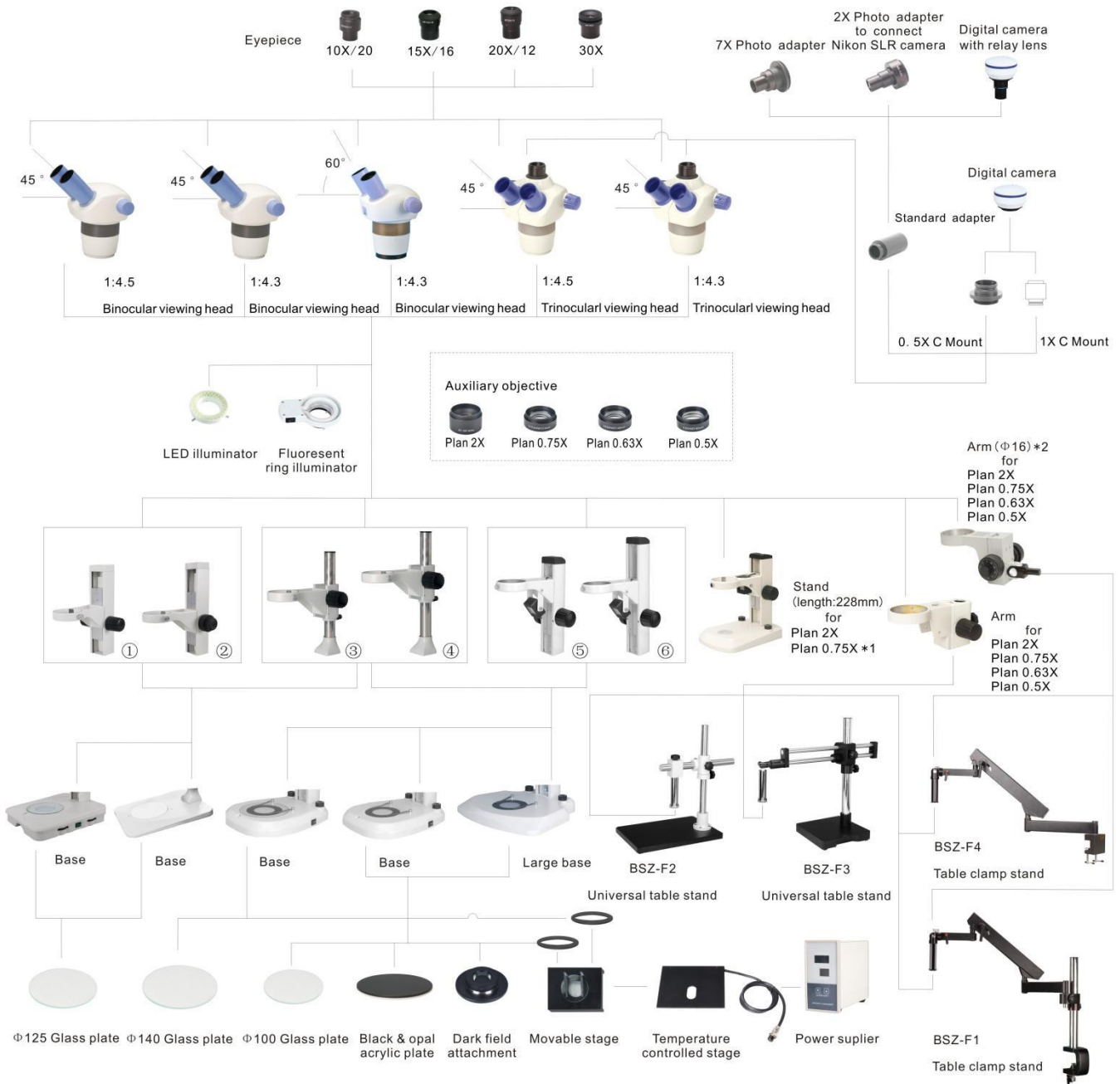
The microscope can be used for circuit board repair and inspection, SMT work, electronics inspection, coin collecting, gemology and gemstone setting, engraving, repair and inspection of small parts.

**Specification**

Item	Specification	BS-3020B	BS-3020T	BS-3020BD	
Viewing Head	Binocular head, inclined at 45°, Interpupillary Distance 55-75mm	●			
	Binocular head, inclined at 60°, Interpupillary Distance 55-75mm	○	○		
	Trinocular head, inclined at 45°, Interpupillary Distance, 55-75mm		●		
	Binocular head with 1.3MP digital camera, inclined at 45°, Interpupillary Distance 55-75mm, ScopelImage 9.0 software			●	
Eyepiece	Wide field eyepiece 10×/ 20mm	●	●	●	
	Wide field eyepiece 15×/ 16mm	○	○	○	
	Wide field eyepiece 20×/ 12mm	○	○	○	
	Wide field eyepiece 30×/8mm	○	○	○	
	WF10× Eyepiece with cross line	○	○	○	
Objective	Zoom objective	0.7×~3×	○	○	○
		1×~4.5×	●	●	●
	Auxiliary objective	2×, W.D.: 30mm	○	○	○
		0.75×, W.D.: 120mm	○	○	○
		0.63×, W.D.: 137mm	○	○	○
		0.5×, W.D.: 180mm	○	○	○
Zoom Ratio	1:4.3	○	○	○	
	1:4.5	●	●	●	
Working Distance	97mm	●	●	●	
Focusing	Coarse Focus, Focusing Range 100mm	●	●	●	
Illumination	Incident Illumination 100V-240V/ LED	●	●	●	
	Transmitted Illumination 100V-240V/ LED	●	●	●	
Attachment	Photo Attachment (Used for connecting Nikon or Canon DSLR camera to the microscope)	○	○	○	
	Video Attachment (0.5× C-mount)	●	●	●	
Package	1pc/carton, 36.5cm*31cm*52cm, 6kg	●	●	●	

Note: ● Standard Outfit, ○ Optional

System Diagram



	①	②	③	④	⑤	⑥
Length	279mm	279mm	12"	18"	280mm	330mm
Coaxial coarse & fine		√				

Note: \*1 The height of sample couldn't be over 30mm when viewed by the objective Plan 0.75X.  
 \*2 Take away the connecting column of BSZ-F1 and BSZ-F4.

## 8. BS-3025 Zoom Stereo Microscope



BS-3025B1



BS-3025B2



BS-3025B3



BS-3025B4



BS-3025T1



BS-3025T2



BS-3025T3



BS-3025T4

### Introduction

BS-3025 series Stereo Zoom Microscopes offer sharp 3D images which are very clear throughout the zoom range. These microscopes are very popular and cost effective. Optional eyepieces and auxiliary objectives can expand magnification range and working distances. Cold light and ring light can be chosen for this microscope.

### Feature

1. 7×-45× zoom magnification power with sharp images, can be extended to 3.5×-270× with optional eyepiece and auxiliary objective.
2. High eyepoint WF10×/20mm eyepiece.
3. 100mm Long working distance.
4. Ergonomic design, sharp image, wide viewing field, high depth of field and easy to operate.
5. Ideal instrument in education, medical and industrial field.

### Application

BS-3025 series microscopes are widely used in education, lab research, biology, metallurgy, engineering, chemistry, manufacturing, and in the medical, forensic science and veterinary industries. The microscopes can be used for circuit board repair and inspection, SMT work, electronics inspection, dissection, coin collecting, gemology and gemstone setting, engraving, repair and inspection of small parts.

**Specification**

Item	Specification	BS-3025 B1	BS- 3025B2	BS-3025 B3	BS-3025 B4
Viewing Head	Binocular head, inclined at 45°, Interpupillary Distance 54-76mm, diopter adjustment for both tubes, 30mm tube	●	●	●	●
	Trinocular head, inclined at 45°, Interpupillary Distance, 54-76mm, 2:8, diopter adjustment for both tubes, 30mm tube	○	○	○	○
Eyepiece	WF10×/ 20mm eyepiece (micrometer is optional)	●	●	●	●
	WF15×/15mm eyepiece (micrometer is optional)	○	○	○	○
	WF20×/10mm eyepiece (micrometer is optional)	○	○	○	○
	WF25×/9mm eyepiece	○	○	○	○
	WF30×/8mm eyepiece	○	○	○	○
Objective	Zoom objective	0.7×-4.5×	●	●	●
	Auxiliary objective	2×, W.D.: 30mm	○	○	○
		1.5×, W.D.: 45mm	○	○	○
		0.5×, W.D.: 165mm	○	○	○
Zoom Ratio	1:6.3	●	●	●	●
Working Distance	100mm	●	●	●	●
Head Mount	76mm	●	●	●	●
Illumination	Transmitted light 12V/15W Halogen, Brightness Adjustable		●		
	Incident light 12V/15W Halogen, Brightness Adjustable		●		
	Transmitted light 3W LED, Brightness Adjustable		○		●
	Incident light 3W LED, Brightness Adjustable		○		●
	LED ring light	○	○	○	○
	Cold light source	○	○	○	○
Focusing Arm	Coarse focusing, focusing range 50mm	●	●	●	●
Pillar Stand	Pole height 240mm, pole diameter Φ32mm, with Clips, Φ95 black&White plate, Base size: 200×255×22mm, no illumination	●			
	Pole height 240mm, pole diameter Φ32mm, with Clips, Φ95 black&White plate, glass plate, Base size: 200×255×60mm, Halogen illumination		●		
	Pole height 240mm, pole diameter Φ32mm, with Clips, Φ95 black&White plate, Base size: 205×275×22mm, no illumination			●	
	Pole height 240mm, pole diameter Φ32mm, with Clips, Φ95 black&White plate, glass plate, Base size: 205×275×40mm, LED illumination				●
C-Mount	0.35× C-mount	○	○	○	○
	0.5× C-mount	○	○	○	○
	1× C-mount	○	○	○	○
Package	1pc/1carton, 38.5cm*24cm*37cm, Net/Gross Weight: 4.5/5.5kg	●	●	●	●

Note: ● Standard Outfit, ○ Optional



**Optical Parameters**

Objective	Standard Objective/ W.D.100mm		0.5× Auxiliary Objective/ W.D.165mm		1.5× Auxiliary Objective/ W.D.45mm		2× Auxiliary Objective/ W.D.30mm	
	Mag.	FOV	Mag.	FOV	Mag.	FOV	Mag.	FOV
WF10×/20mm	7.0×	28.6mm	3.5×	57.2mm	10.5×	19mm	14.0×	14.3mm
	45.0×	4.4mm	22.5×	8.8mm	67.5×	2.9mm	90.0×	2.2mm
WF15×/15mm	10.5×	21.4mm	5.25×	42.8mm	15.75×	14.3mm	21.0×	10.7mm
	67.5×	3.3 mm	33.75×	6.6mm	101.25×	2.2mm	135.0×	1.67mm
WF20×/10mm	14.0×	14.3mm	7.0×	28.6mm	21.0×	9.5mm	28.0×	7.1mm
	90.0×	2.2mm	45.0×	4.4mm	135.0×	1.5mm	180.0×	1.1mm
WF25×/9mm	17.5×	12.8mm	8.75×	25.6mm	26.25×	8.5mm	35.0×	6.4mm
	112.5×	2.0mm	56.25×	4.0mm	168.75×	1.3mm	225.0×	1.0mm
WF30×/8mm	21.0×	11.4mm	10.5×	22.8mm	31.5×	7.6mm	42.0×	5.7mm
	135.0×	1.7mm	67.5×	3.5mm	202.5×	1.2mm	270.0×	0.89mm

## 9. BS-3030 Zoom Stereo Microscope



BS-3030A



BS-3030AT



BS-3030B



BS-3030BT

### Introduction

Stereo microscopes are also known as low magnification and dissecting microscopes. BS-3030 series Zoom Stereo Microscopes offer high quality 3D images throughout the zoom range. Optional eyepieces and auxiliary objectives expand magnification range and working distances. Various stand, Cold light source and ring light are optional for these microscopes.

### Feature

1. High quality and excellent cost performance.
2. Ergonomic design, sharp image display, wide viewing field and easy to operate.
3. Providing a wide viewing field of  $\Phi 22\text{mm}$  with the zoom ratio of 1:6.7, zoom range: 0.67 $\times$ -4.5 $\times$ .
4. Transmitted & Reflected 3W LED Illumination are available for BS-3030B and BS-3030BT.
5. Ideal instrument in academic, medical and industrial field.

### Application

BS-3030 series stereo microscopes are of great value in a variety of applications such as school education, circuit board repair, circuit board inspection, surface mount technology work, electronics inspection, coin collecting, gemology and gemstone setting, engraving, repair and inspection of small parts.

### Specification

Item	Specification	BS-3030A	BS-3030AT	BS-3030B	BS-3030BT
Optical system	Greenough Optical System	●	●	●	●
Viewing Head	Binocular head, inclined at 45°, rotatable 360°, Interpupillary Distance 54-75mm, diopter adjustment on both eyepieces	●		●	
	Trinocular head, inclined at 45°, rotatable 360°, Interpupillary Distance 54-75mm, diopter adjustment on both eyepieces		●		●
Eyepiece	WF10 $\times$ / $\Phi 22\text{mm}$	●	●	●	●
	WF15 $\times$ / $\Phi 16\text{mm}$	○	○	○	○
	WF20 $\times$ / $\Phi 12\text{mm}$	○	○	○	○

	WF25×/Φ9 mm		○	○	○	○
	WF30×/Φ8 mm		○	○	○	○
	WF10×Φ22mm Eyepiece with cross line(Eyepiece micrometer)		○	○	○	○
Objective	Zoom objective	0.67×-4.5×	●	●	●	●
	Auxiliary objective	0.3×, W.D. 287mm	○	○	○	○
		0.5×, W.D. 177mm	○	○	○	○
		0.7×, W.D. 113mm	○	○	○	○
		1.5×, W.D. 47mm	○	○	○	○
	2×, W.D. 26mm	○	○	○	○	
Zoom Ratio	1:6.7		●	●	●	●
Magnification	6.7×-45×		●	●	●	●
Working Distance	105mm		●	●	●	●
Focusing	Coarse focus knob with tension adjustable, moving range: 106mm. Focusing arm diameter: 76mm		●	●	●	●
Column Height	300mm		●	●	●	●
	500mm (used with 0.3× and 0.5× auxiliary objective)		○	○	○	○
Microscope Base Size	205×275×22mm		●	●		
	205×275×40mm				●	●
Illumination	Reflected illumination: 5V 3W LED		○	○	●	●
	Transmitted illumination: 5V 3W LED		○	○	●	●
Attachment	Photo Adapter (For Nikon, Canon, Olympus, Sony DSLR Cameras)			○		○
	0.5× C-mount adapter (adjustable)			●		●
	1× C-mount adapter			○		○
Package	1pc/carton, 51cm*37cm*31cm, Net weight: 5.5kg, Gross weight: 6.5kg		●	●	●	●

Note: ● Standard Outfit, ○ Optional

## 10. BS-3035 Zoom Stereo Microscope



BS-3035T1

BS-3035B2

BS-3035B3

BS-3035T4

We have 4 stands and binocular/trinocular head, the models are: BS-3035B1, BS-3035T1, BS-3035B2, BS-3035T2, BS-3035B3, BS-3035T3, BS-3035B4, BS-3035T4.

“B” means binocular, “T” means trinocular.

“1” means the stand with round base, without illumination.

“2” means the stand with square base, without illumination

“3” means the stand with round base, with transmitted and Incident illumination

“4” means the stand with square base, with transmitted and Incident illumination

### Introduction

BS-3035 series Zoom Stereo Microscope offer sharp 3 D images with very competitive price. Optional auxiliary objectives, light source, stands and other accessories can fulfill different requirements.

### Feature

1. Well-coated optical components, providing sharp and high contrast images and ensure large depth of field.
2. High quality optical system with zoom magnification 8×-50×, zoom ratio 1:6.3.
3. Various eyepieces, objectives and other accessories can meet different requirements.

### Application

BS-3035 series stereo zoom microscope is of great value in a variety of applications such as circuit board repair, circuit board inspection, surface mount technology work, electronics inspection, coin collecting, gemology and gemstone setting, engraving, repair and inspection of small parts.

### Specification

Item	Specification	BS-3035B3	BS-3035T4
Viewing Head	Binocular Head, Inclined at 45°, Interpupillary Distance 52-75mm	●	○
	Trinocular Head, Inclined at 45°, Interpupillary Distance 52-75mm, 30:70 light distribution	○	●
Eyepiece	Extra wide field eyepiece EW10×/22mm	●	●
	WF15×/16mm		
	WF20×/12.5mm		

Zoom Objective	0.8x-5x	●	●
Zoom Ratio	6.3:1	●	●
Working Distance	115mm	●	●
Auxiliary objective	2x, WD 45mm	○	○
	0.5x, WD 210mm		
Stage Plate	Frosted Glass Plate, Diameter 100mm	●	●
	White&Black round plate, Diameter 100mm	●	●
Focusing Unit	Coarse Focus Knob with tension adjustable, Moving range 100mm	●	●
Illumination	Incident Illumination 100V-240V/ LED	●	●
	Transmitted Illumination 100V-240V/ LED	●	●
Attachment	Photo Adapter (For Nikon, Canon, Olympus, Sony DSLR Cameras)		○
	0.5X C-mount Adapter		●
Package	1pc/carton, 36.5cm*31cm*52cm, 8.5kg	●	●

Note: ● Standard Outfit, ○ Optional



## 11. BS-3040 Zoom Stereo Microscope



BS-3040



BS-3040T



BS-3040BD

### Introduction

Stereo microscopes are also known as low magnification and dissecting microscopes. BS-3040 Zoom Stereo Microscope on a post stand offers upright, un-reversed 3 D images that remain in focus throughout the zoom range. Optional eyepieces and auxiliary objectives expand magnification range and working distances.

BS-3040 is a very popular zoom stereo microscope. Optional cold light and ring light can be chosen for this microscope. You can also choose trinocular head to add digital camera with the appropriate camera adapter. In summary, BS-3040 gives many range of magnifications, working distances, photo options, accessories and is very convenient to use – no wonder it is popular!

### Feature

1. With high quality optical components, providing sharp and striking contrast image and ensure flat image at large depth of field, Ease the tiredness with ergonomic design.
2. With LED light for both incident and transmitted illumination, Providing even illumination and life expectancy can reach 20,000 hours.
3. With Complete eyepieces, objectives and accessories, it is an ideal instrument for industry assembling, inspection and teaching field.
4. BS-3040BD Support Multi-language (Arabic, Chinese, English, French, German, Japanese, Polish).
5. BS-3040BD support Windows Vista / Win 7 / Win8 / Mac Operation System. The software can preview, take photos and video, do image processing and measurement.

### Application

BS-3040 Series stereo zoom microscopes are of great value in a variety of applications such as circuit board repair, circuit board inspection, surface mount technology work, electronics inspection, coin collecting, gemology and gemstone setting, engraving, and repair and inspection of small parts.

**Specification**

Item	Specification	BS-3040	BS-3040	BS-3040
		B	T	BD
Viewing Head	Binocular Viewing Head, Inclined at 45°, Interpupillary Distance 52-75mm	●	○	○
	Binocular Viewing Head, Inclined at 60°, Interpupillary Distance 52-75mm	○	○	○
	Trinocular Viewing Head, Inclined at 45°, Interpupillary Distance 52-75mm	○	●	○
	Digital Binocular Viewing Head, Inclined at 45°, Interpupillary Distance 52-75mm, 3.2MP(2048×1536), ScopelImage 9.0 Software	○	○	●
Eyepiece	Extra wide field eyepiece EW10×/22mm	●	●	●
	WF15×/Φ16mm	○	○	○
	WF20×/Φ12mm	○	○	○
	WF30×/Φ8mm	○	○	○
Zoom Objective	0.8×-5×	●	●	●
Zoom Ratio	6.3:1	●	●	●
Working Distance	115mm	●	●	●
Auxiliary objective	0.5×, W.D.: 220mm	○	○	○
	0.7×, W.D.: 125mm	○	○	○
	2×, W.D.: 45mm	○	○	○
Stage Plate	Glass Insert Plate, Diameter 100mm	●	●	●
	White&Black round plate, Diameter 100mm	●	●	●
Focusing Unit	Coarse Focus Knob with tension adjustable, Moving range 105mm	●	●	●
Illumination	Incident Illumination 100V-240V/ LED	●	●	●
	Transmitted Illumination 100V-240V/ LED	●	●	●
Attachment	Photo Attachment	○	○	○
	Video Attachment	○	○	○
Package	1pc/carton, 36.5cm*31cm*52cm, 8.5kg	●	●	●

Note: ● Standard Outfit, ○ Optional

### System Diagram



## 12. BS-3044 Binocular Zoom Stereo Microscope



BS-3044A



BS-3044B

### Introduction

BS-3044A/B Binocular Zoom Stereo Microscope offer upright, un-reversed 3 D images that remain in focus throughout the zoom range. They have zoom ratio of 1:8.3. Optional eyepieces and auxiliary objectives can be used to expand magnification range and working distances.

### Feature

1. High zoom ratio of 1:8.3, zoom range of 0.6×-5×, large field of view up to  $\Phi 76\text{mm}$ .
2. High quality optical system, providing sharp and high contrast image and ensure flat image at large depth of field, Ease the tiredness with ergonomic design.
3. With LED light for both incident and transmitted illumination, Providing even illumination and life expectancy can reach 60000 hours.
4. With complete eyepieces, objectives and accessories, it is an ideal instrument for industry assembling, inspection and teaching field.

### Application

BS-3044A/B Binocular stereo zoom microscope can be used for circuit board repairing and inspection, surface mount technology work, electronics inspection, coin collecting, gemology and gemstone setting, engraving, repair and inspection of small parts.

### Specification

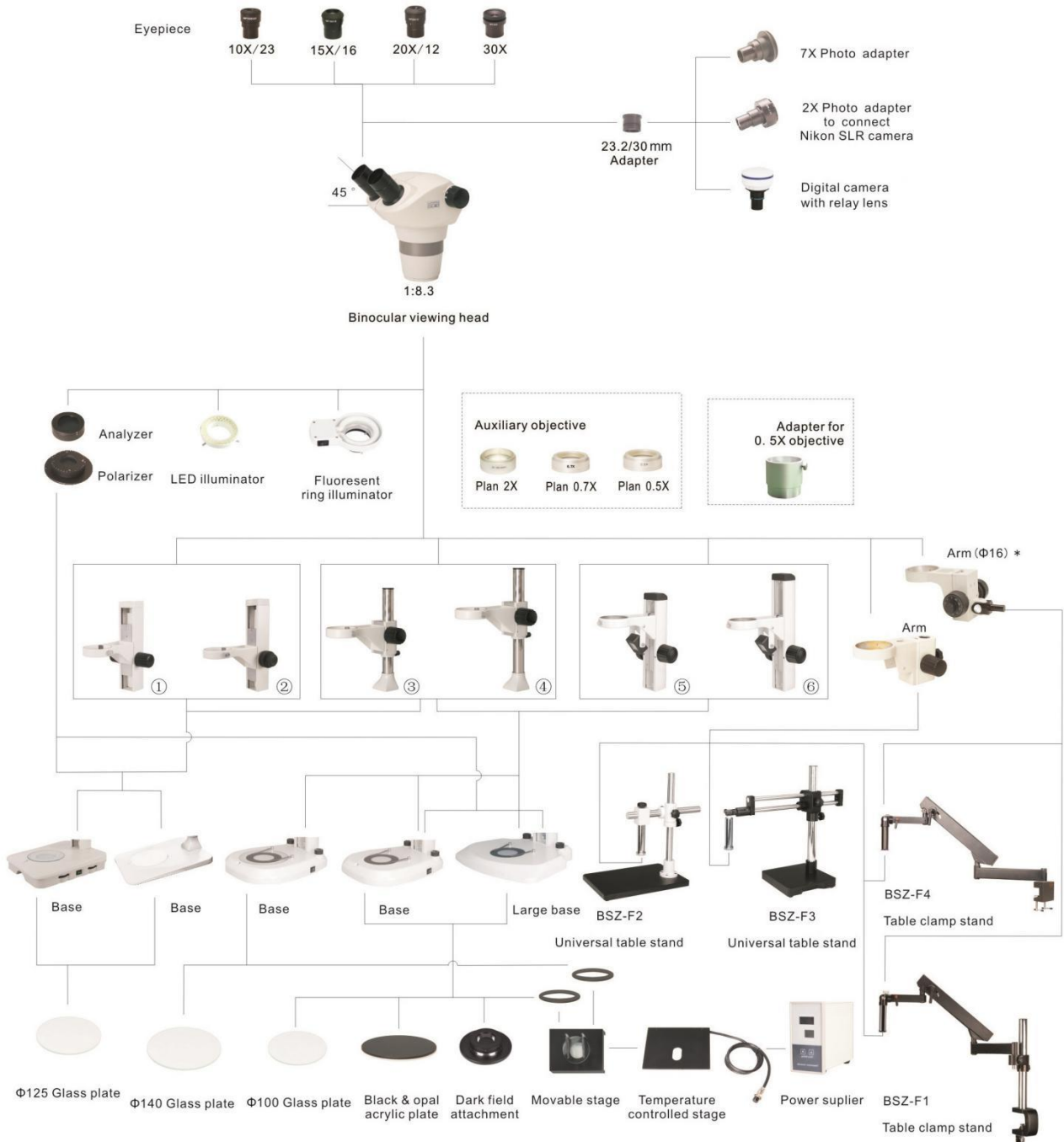
Item	Specification	BS-3044A	BS-3044B
Viewing Head	Binocular Viewing Head, Inclined at 45°, Interpupillary Distance 55-75mm	•	•
Eyepiece	Extra wide field eyepiece WF10×/ $\Phi 23\text{mm}$	•	•

	WF15×/Φ16mm	○	○
	WF20×/Φ12mm	○	○
	WF30×/Φ9mm	○	○
Zoom Objective	0.6×-5×	●	●
Zoom Ratio	8.3:1	●	●
Working Distance	115mm	●	●
Auxiliary objective	0.5×, WD: 220mm	○	○
	0.7×, WD: 125mm	○	○
	2×, WD: 45mm	○	○
Stage Plate	Glass Insert Plate, Diameter 100mm	●	
	Glass Insert Plate, Diameter 125mm		●
	White&Black round plate, Diameter 100mm	●	
	White&Black round plate, Diameter 125mm		●
Focusing Unit	Coarse Focus Knob with tension adjustable, Moving range 105mm	●	●
Illumination	Incident Illumination 100V-240V/ LED	●	●
	Transmitted Illumination 100V-240V/ LED	●	●
Video Adapter	30mm adapter ring for 23.2mm eyepiece adapter	○	○
	0.45×/0.5× C-mount adapter	○	○
Photo Adapter	Photo Adapter for Nikon or Canon DSLR camera	○	○

Note: ● Standard Outfit, ○ Optional



### System Diagram



	①	②	③	④	⑤	⑥
Length	279mm	279mm	12"	18"	280mm	330mm
Coaxial coarse & fine		√				

Note: \* Take away the connecting column of BSZ-F1 and BSZ-F4.

### 13. BS-3045 Trinocular Zoom Stereo Microscope



BS-3045A



BS-3045B

#### Introduction

BS-3045A/B Trinocular Zoom Stereo Microscope offer upright, un-reversed 3 D images that remain in focus throughout the zoom range. They have zoom ratio of 1:8.3. Optional eyepieces and auxiliary objectives can be used to expand magnification range and working distances.

#### Feature

1. High zoom ratio of 1:8.3, zoom range of 0.6x-5x, large field of view up to  $\Phi 76\text{mm}$ .
2. High quality optical system, providing sharp and high contrast image and ensure flat image at large depth of field, Ease the tiredness with ergonomic design.
3. With LED light for both incident and transmitted illumination, Providing even illumination and life expectancy can reach 60000 hours.
4. With complete eyepieces, objectives and accessories, it is an ideal instrument for industry assembling, inspection and teaching field.

#### Application

BS-3045A/B trinocular stereo zoom microscope can be used for circuit board repairing and inspection, surface mount technology work, electronics inspection, coin collecting, gemology and gemstone setting, engraving, repair and inspection of small parts.

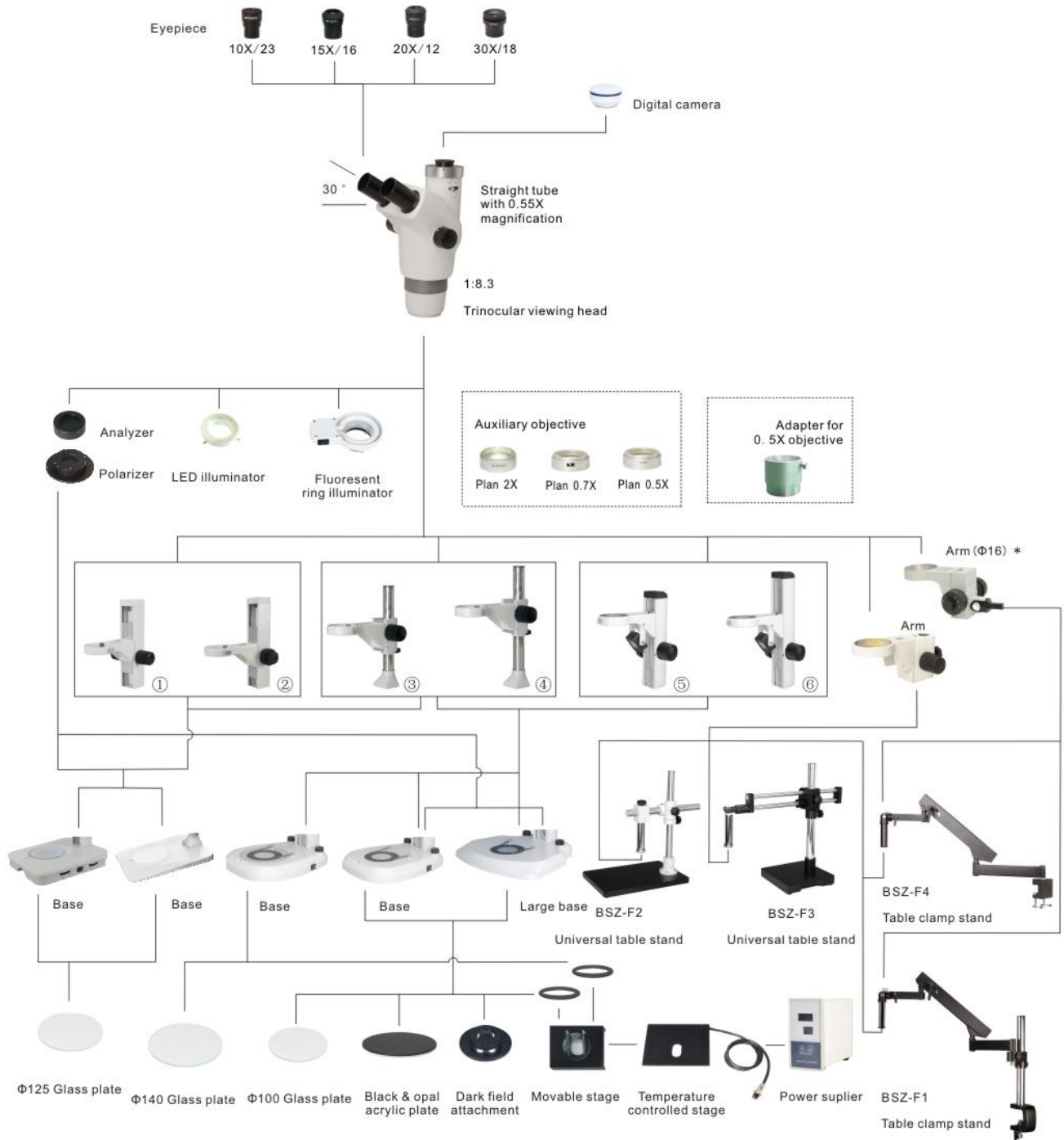
#### Specification

Item	Specification	BS-3045A	BS-3045B
Viewing Head	Trinocular Viewing Head, Inclined at 30°, Interpupillary Distance 55-75mm	•	•

Eyepiece	Extra wide field eyepiece WF10×/Φ23mm	●	●
	WF15×/Φ16mm	○	○
	WF20×/Φ12mm	○	○
	WF30×/Φ9mm	○	○
Zoom Objective	0.6×-5×	●	●
Zoom Ratio	8.3:1	●	●
Working Distance	115mm	●	●
Auxiliary objective	0.5×, WD: 220mm	○	○
	0.7×, WD: 125mm	○	○
	2×, WD: 45mm	○	○
Stage Plate	Glass Insert Plate, Diameter 100mm	●	
	Glass Insert Plate, Diameter 125mm		●
	White&Black round plate, Diameter 100mm	●	
	White&Black round plate, Diameter 125mm		●
Focusing Unit	Coarse Focus Knob with tension adjustable, Moving range 105mm	●	●
Illumination	Incident Illumination 100V-240V/ LED	●	●
	Transmitted Illumination 100V-240V/ LED	●	●
Video Adapter	0.55× C-mount	●	●
	1× C-mount	○	○

Note: ● Standard Outfit, ○ Optional

### System Diagram



	①	②	③	④	⑤	⑥
Length	279mm	279mm	12"	18"	280mm	330mm
Coaxial coarse & fine		√				

Note: \* Take away the connecting column of BSZ-F1 and BSZ-F4.

## 14. BS-3060 Zoom Stereo Microscope



BS-3060A/B/C



BS-3060AT/BT/CT



BS-3060 with coaxial episcopic illuminator

### Introduction

Stereo microscopes are also known as low magnification and dissecting microscopes. BS-3060 Series Zoom Stereo Microscope with Infinity Parallel Optical System on a post stand offers upright, un-reversed 3-D images that remain in focus throughout the zoom range. Optional eyepieces and auxiliary objectives expand magnification range and working distances.

This is a high level stereo microscope. Optional cold light and ring light can be chosen for this microscope. You can also choose trinocular head to add digital camera with the appropriate camera adapter. In summary BS-3060 series Parallel Stereo Microscopes give the greatest range of magnifications, working distances, photo options, accessories and are the most convenient to use – no wonder they are popular!



## Feature

1. Excellent Image Quality & Optical Performance with Infinity Parallel Optical System.
2. Comfortable Operation with Ergonomic Design Principle.
3. With LED light for both incident and transmitted illumination, Providing even illumination and life expectancy can reach 6000 hours.
4. A Wide Range of Accessories to be Equipped with the Microscope for Multi-purpose. It is an Outstanding Assistant in Industrial, Medical and Scientific Research Areas.

## Application

BS-3060 series stereo zoom microscopes with Infinity Parallel Optical System is of great value in a variety of applications such as Industrial, Medical and Scientific Research Areas, circuit board repair, circuit board inspection, surface mount technology work, electronics inspection, coin collecting, gemology and gemstone setting, engraving, and repair and inspection of small parts.

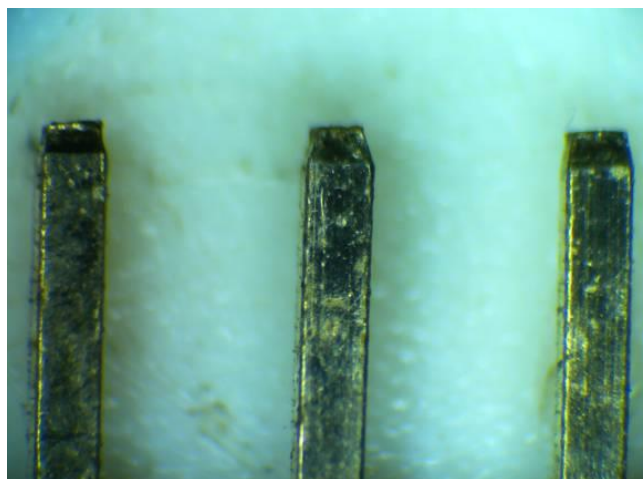
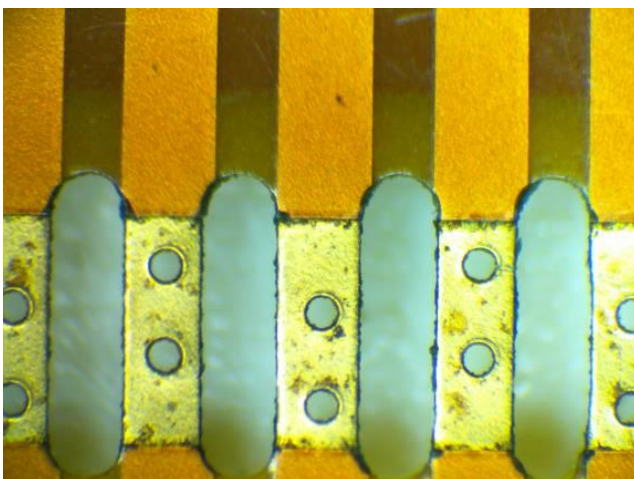
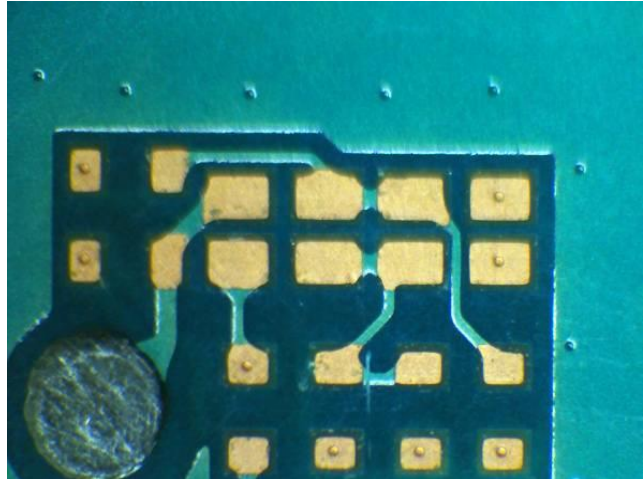
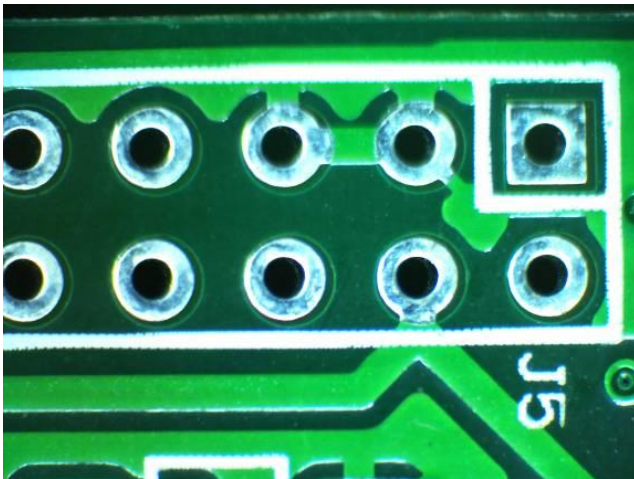
## Specification

Item	Specification	BS-3060A	BS-3060B	BS-3060C
Optical System	Infinite Parallel Zoom Optical System	●	●	●
Viewing Head	Binocular Head, 20°Inclination, Interpupillary Distance 55-75mm	●	●	●
	Tilting Binocular Eyepiece Tube, 5°-35° Inclined, Interpupillary Distance 55-75mm	○	○	○
Eyepiece	EW10×/Φ22mm	●	●	●
	EW10×/Φ24mm	○	○	○
	WF15×/Φ16mm	○	○	○
	WF20×/Φ12mm	○	○	○
	WF30×/Φ8mm	○	○	○
Zoom Objective	0.8×-5×	●		
	0.8×-6.4×		●	
	0.8×-8×			●
Objective	Plan Achromatic Objective 1×, W.D.: 78mm	●	●	●
	Achromatic Objective 0.3×, W.D.: 276mm	○	○	○
	Achromatic Objective 0.5×, W.D.: 195mm	○	○	○
	Plan Apochromatic Objective 0.5×, W.D.: 126mm	○	○	○
	Plan Achromatic Objective 2×, W.D.: 32.5mm	○	○	○
Zoom Ratio	1: 6	●		
	1: 8		●	
	1: 10			●
Focusing Unit	Coarse Focus Knob with tension adjustable, Moving range 105mm	●	●	○
	Coaxial Coarse & Fine Focus Knob with tension adjustable, Moving range 105mm	○	○	●
Illumination	Transmission & Reflection LED Illumination, Brightness Adjustable	●	●	●
Optional Accessories	Coaxial Illumination	○	○	○
	Epi-Fluorescent Attachment	○	○	○

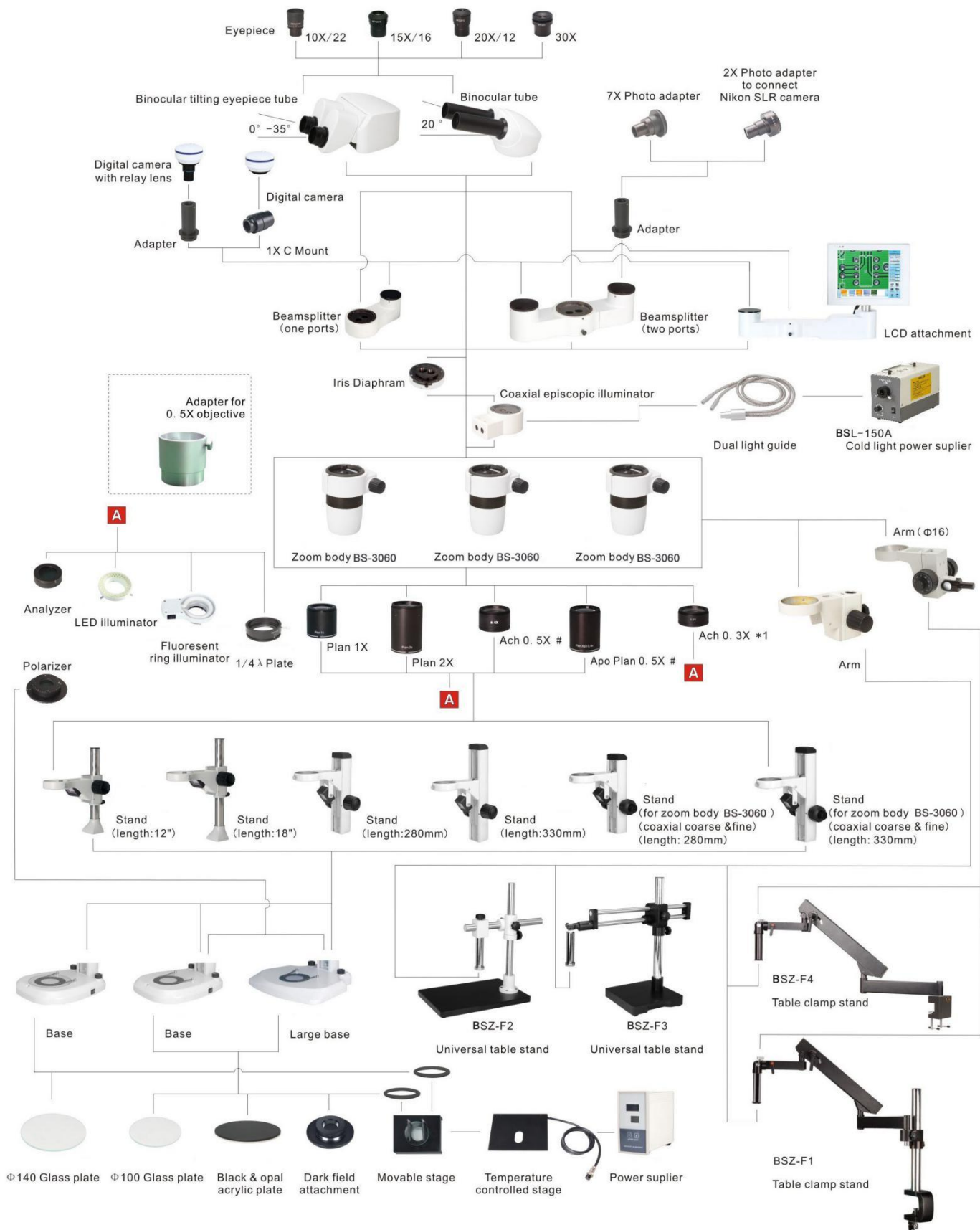
	Dark Field Attachment	○	○	○
	Simple Polarization Set	○	○	○
	Iris Diaphragm	○	○	○
	Beam splitter (one port)	○	○	○
	Beam splitter (two ports)	○	○	○
	Photography & video attachment	○	○	○
	Moveable Stage	○	○	○
	Temperature controlled Stage	○	○	○
	Universal Table Stand/Table Clamp Stand	○	○	○
	Cold light illumination with dual light guide	○	○	○
	LCD Attachment	○	○	○
Package	1pc/carton, 49cm*40cm*56cm, 9.5kg	●	●	●

Note: ● Standard Outfit, ○ Optional

### Sample Image



### System Diagram



## 15. BS-3060F Fluorescent Stereo Microscope



### Introduction

BS-3060F series fluorescent stereo microscopes were designed for observation of live cells. They cover wide magnification range from 2.4x~480x, and offer sophisticated accessories. This allows the scientist to see and photograph specimens from macro views to high-magnification micro visualization. Photo tube comes with the microscope, CCD camera can be mounted on the photo tube for image capture and analysis.

### Feature

1. Excellent Image Quality and Performance with Infinity Parallel Optical System.
2. High-eyepoint Eyepieces with Diopter Adjustment makes comfortable viewing.
3. Wide Magnification range from 2.4x~480x, allows you to select the best magnification to match your application, extending from the macro to the micro range.
4. High quality Epi-fluorescence attachment allows easy observation of living cells under fluorescence methods such as GFP. Switching between fluorescence and transmitted illumination is quick and easy.
5. CCD camera can be mounted on the photo tube. Because 100% of the light is delivered to the photo port, bright images are guaranteed.
6. A Wide Range of Accessories are available for Multi-purpose.

### Application

BS-3060 series fluorescent stereo microscopes can be used in biology, life science, Forensic Science, Embryology/IVF, Lab-on-a-Chip, Palaeontology, Marine Biology, Regenerative Studies, Formulation Science, Veterinary areas and so on. They provide great help for scientists.

### Specification

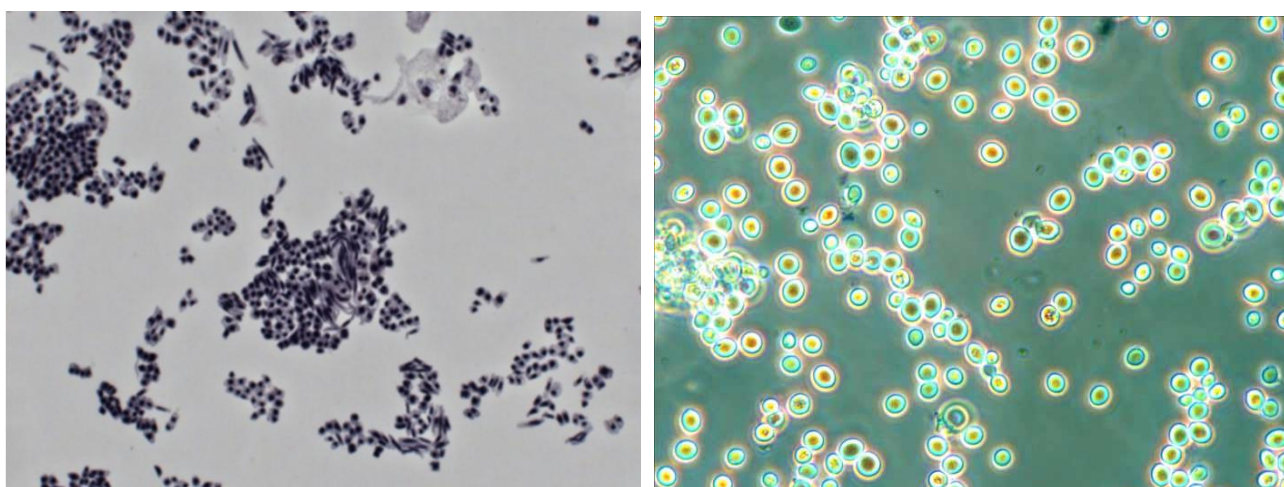
Item	Specification	BS-3060	BS-3060	BS-3060
		FA	FB	FC
Optical System	Infinite Parallel Zoom Optical System	•	•	•
Viewing Head	Binocular Head, 20°Inclination, Interpupillary Distance 55-75mm	•	•	•



	Tilting Binocular Eyepiece Tube, 5°-35° Inclined, Interpupillary Distance 55-75mm	○	○	○
Eyepiece	EW10×/Φ22mm	●	●	●
	EW10×/Φ24mm	○	○	○
	WF15×/Φ16mm	○	○	○
	WF20×/Φ12mm	○	○	○
	WF30×/Φ8mm	○	○	○
Fluorescent Attachment	GFP-B(EX460-500,DM505,BA510-560)	●	●	●
	GFP-L(EX460-500,DM505,BA510)	●	●	●
	G(EX515-550, DM570, BA590)	○	○	○
Zoom Objective	0.8×-5×	●		
	0.8×-6.4×		●	
	0.8×-8×			●
Objective	Plan Achromatic Objective 1×, W.D.: 78mm	●	●	●
	Achromatic Objective 0.3×, W.D.: 276mm	○	○	○
	Achromatic Objective 0.5×, W.D.: 195mm	○	○	○
	Plan Apochromatic Objective 0.5×, W.D.: 126mm	○	○	○
	Plan Achromatic Objective 2×, W.D.: 32.5mm	○	○	○
Zoom Ratio	1: 6	●		
	1: 8		●	
	1: 10			●
Focusing Range	105mm	●	●	●
Stand	Coaxial coarse focusing stand	●	●	
	Coaxial coarse&fine focusing stand			●
Illumination	Transmitted & Incident LED Illumination, Brightness Adjustable	●	●	●
	100W Ultra hi-voltage spherical mercury lamp, power supplier with digital display	●	●	●

Note: ● Standard Outfit, ○ Optional

## Sample Image





## 16. BS-3070 Wide Field Stereo Microscope



BS-3070A

BS-3070B

BS-3070C

BS-3070D

### Introduction

BS-3070 series stereo microscopes features of large viewing field without eyepiece. Users can see sharp and stereoscopic images from the lens in microscope head. Built-in LED illumination provides bright and even light for comfortable viewing, brightness can be adjusted with the external power box. The microscopes are easy to operate and widely applied to biological dissection, electronics producing and inspection, minerals, historical relic restoration etc.

### Features

1. With high quality optical components, providing sharp and high contrast image at super-long working distance, super-large viewing field, large depth of focus, reduce the fatigue and improve the working efficiency.
2. With LED light, Providing even illumination and life expectancy can reach 60000 hours.
3. Various objectives are available, 2×, 4×, 6× objectives are standard, 8×, 10×, 15× and 6×SL objectives are optional. The objectives can be conveniently changed.

### Application

The BS-3070 series stereo microscopes are of great value in a variety of applications such as education, biological dissection and industrial areas. They are mainly used for circuit board inspection and repair, surface mount, electronics inspection, coin collecting, gemology and gemstone identification, engraving, repair and inspection of small parts. They are mainly used for following areas:

1. Electronics: PCB board assembling, inspection, repair and weld.
2. Precision project & Plastic: QC, Micro-welding, Micro-machining, Injecting.
3. Medical & Dentistry Equipment Manufacturing: precise manufacture and assembling, Fine Dressing, Color Matching, inspection and repair.
4. Biological and medical: specimen-making, dissecting, Dyeing, Microscopy.
5. Public Security System: Trace comparison, stamp and signature identification, bank note and other note identification and evidence analysis.

**Specifications**

Model		BS-3070A	BS-3070B	BS-3070C	BS-3070D
Viewing Head	2× high quality optical head without eyepieces	●	●	●	●
Objective	2×, WD: 208mm, FOV: 68mm	●	●	●	●
	4×, WD: 98mm, FOV: 34mm	●	●	●	●
	6×, WD: 80mm, FOV: 22.7mm	●	●	●	●
	8×, WD: 58mm, FOV: 17mm	○	○	○	○
	10×, WD: 46mm, FOV: 13.6mm	○	○	○	○
	15×, WD: 50mm, FOV: 9.1mm	○	○	○	○
	6×SL(Super Long working distance), WD: 115mm, FOV: 22.7mm	○	○	○	○
Total magnification	4×-12×	●	●	●	●
Illumination	3W built-in LED illumination with external control box	●	●	●	●
Stand	Column height 500mm, moving range 175mm, Base 400×300×20mm	●			
	Column height 580mm, moving range 330mm, Base 400×300×20mm, stage size: 210×190mm		●		
	Universal stand can be fixed on table			●	
	Floor type stand, height: 1050-1470mm, horizontal moving range: 400-840mm				●
Focus	Coarse focus with focus knob on stand	●	●		
	Focus with handle on head			●	●

Note: ● Standard Outfit, ○ Optional

## 17. BS-3080 Parallel Light Zoom Stereo Microscope



BS-3080

### Introduction

BS-3080 is a research level zoom stereo microscope with infinite parallel Galileo optical system. Based on Galileo optical system and Apochromatic objective, it can provide real and perfect microscopic images on details. The excellent ergonomics and user-friendly operating system can truly allow users to experience a simple and comfortable work. The Mirror in the base can be 360 ° rotatable to achieve the best observation results. BS-3080 can meet the research demands of life sciences, biomedicine, microelectronics, semiconductors, materials science and other fields of research needs.

### Feature

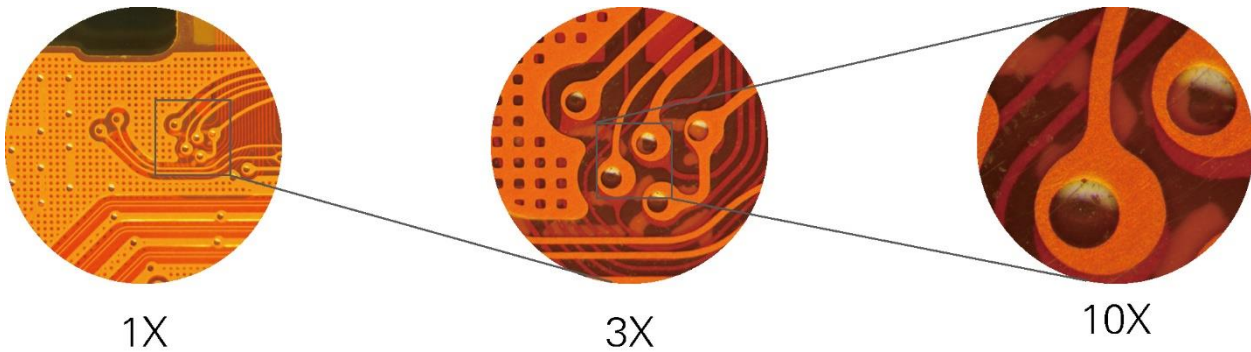
#### 1. Tilting viewing head for comfortable operation.

Tilting viewing head from 5 to 45 degrees, can be flexibly adjusted for different operators with different posture.



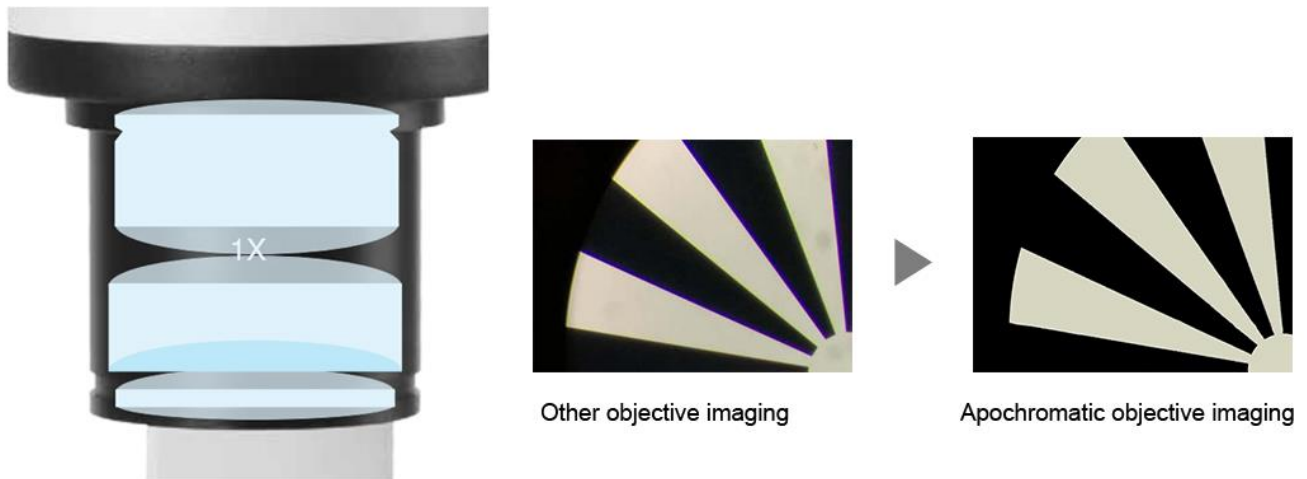
**2. Large zoom ratio 12.5:1.**

BS-3080 has large zoom ratio of 12.5:1, zoom range from 0.8X to 10X, with click stop for main magnifications, the images remain clear and smooth during zoom magnifying.



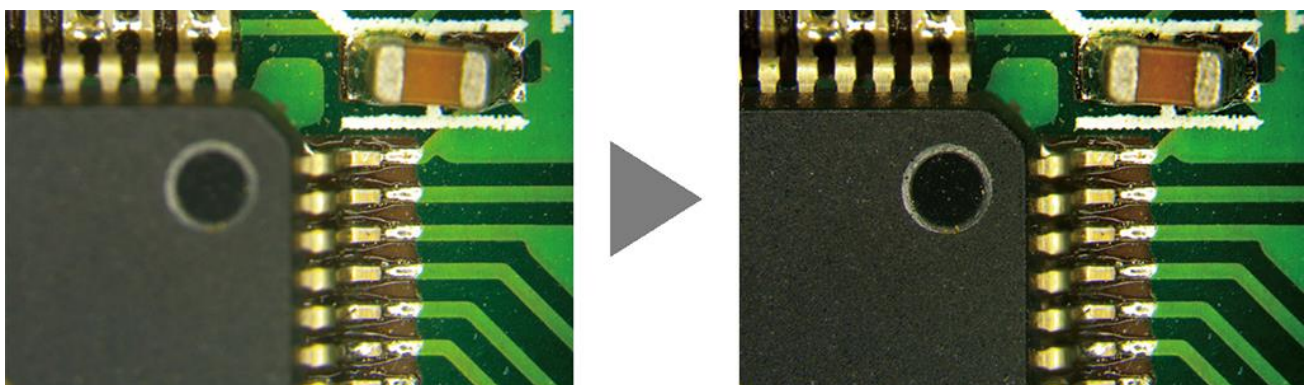
**3. Apochromatic objective.**

Apochromatic design has significantly improved the color reproduction of the objective. Correcting the axial chromatic aberration of red/green/blue/purple, and converge them on a focal plane, the objective is able to present the real color of the samples. 2X apochromatic objective is optional.



**4. Aperture diaphragm adjustment.**

Shift the aperture diaphragm lever in front of the microscope to adjust depth of field for high-quality image.



**Application**

BS-3080 has great value in a variety of applications such as life science and medical research, including dissection, IVF, biological experiment, chemical analysis and cell culture. It also can be used in Industrial areas for PCB, SMT

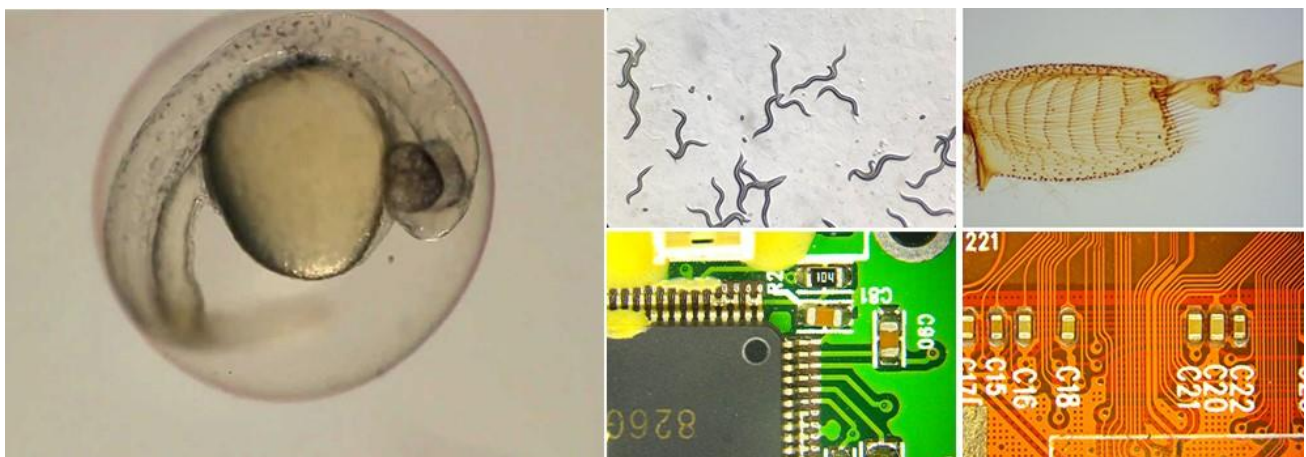
surface, electronics inspection, semiconductor chip inspection, metal and materials testing, precision parts testing. coin collecting, gemology and gemstone setting, engraving, repair and inspection of small parts.

### Specification

Item	Specification	BS-3080
Optical System	Infinite Parallel Galileo Zoom Optical System	●
Viewing Head	Tilting trinocular viewing head, 5-45 degree adjustable; binocular: trinocular= 100:0 or 0:100; interpupillary distance 50-76mm; fixed eyepiece tube with lock screw	●
	30 degree inclined trinocular head; binocular: trinocular=50: 50; interpupillary distance 50-76mm; fixed eyepiece tube with lock screw	○
Eyepiece	High eye-point wide field plan eyepiece PL10×/23mm, diopter adjustable	●
	High eye-point wide field plan eyepiece PL15×/16mm, diopter adjustable	○
	High eye-point wide field plan eyepiece PL20×/12.5mm, diopter adjustable	○
Zoom Range	Zoom range: 0.8X-10X, click stop for 0.8x, 1x, 1.5x, 2x, 3x, 4x, 5x, 6x, 8x, 10x, with built-in aperture diaphragm	●
Objective	Plan Apochromatic Objective 1x, W.D.: 78mm	●
	Plan Apochromatic Objective 2x, W.D.: 20mm	○
Zoom Ratio	1: 12.5	●
Focusing Unit	Coarse and fine coaxial focus system, integrated body with focus holder, coarse range: 50mm, fine precision 0.002mm	●
Base	Plan base with transmitted illumination (work with external 5W LED fiber); built-in 360 degree rotatable mirror, location and angle adjustable	●
Illumination	5W LED light box (size: 270×100×130mm) with single fiber (500mm), color temperature 5000-5500K; operating voltage 100-240VAC/50-60Hz, output 12V	●
	LED Ring light	○
Camera Adapter	0.35×/0.5×/0.65×/1× C-mount adapters	○
Packing	1set/carton, Net/Gross weight: 14/16kg, Carton size: 59×55×81cm	●

Note: ● Standard Outfit, ○ Optional

### Sample Image





## 18. BS-3090 Parallel Light Zoom Stereo Microscope



BS-3090

### Introduction

BS-3090 is a research level zoom stereo microscope with infinite parallel Galileo optical system. Based on Galileo optical system and Apochromatic objective, it can provide real and perfect microscopic images on details. The excellent ergonomics and user-friendly operating system can truly allow users to experience a simple and comfortable work. The zoom ratio is 18:1, with 10× eyepiece, the magnification range is 7.5×-135×. BS-3090 can meet the research demands of life sciences, biomedicine, microelectronics, semiconductors, materials science and other fields of research needs.

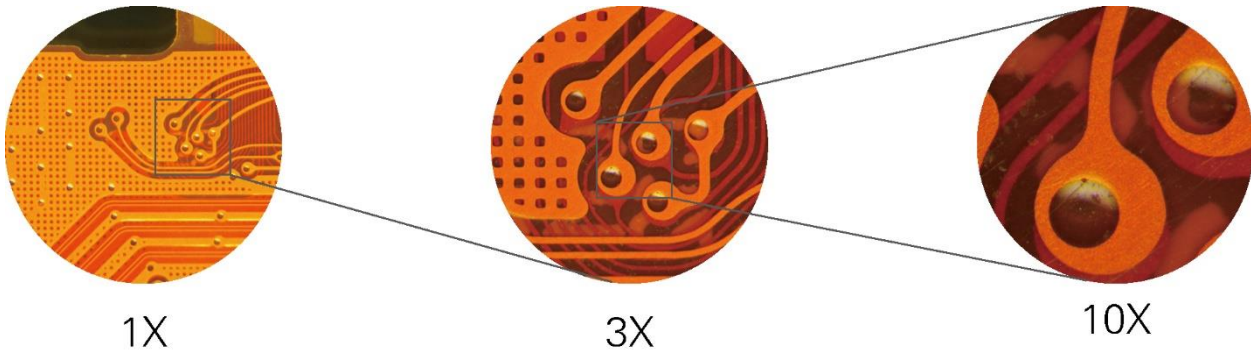
### Feature

#### 1. Trinocular viewing head for comfortable operation.

The interpupillary distance and diopter can be adjusted, users can operate the microscope with the most comfortable gesture. This can minimize the visual fatigue caused by long-term observation. Trinocular tube with C-mount can be used to connect different digital cameras.

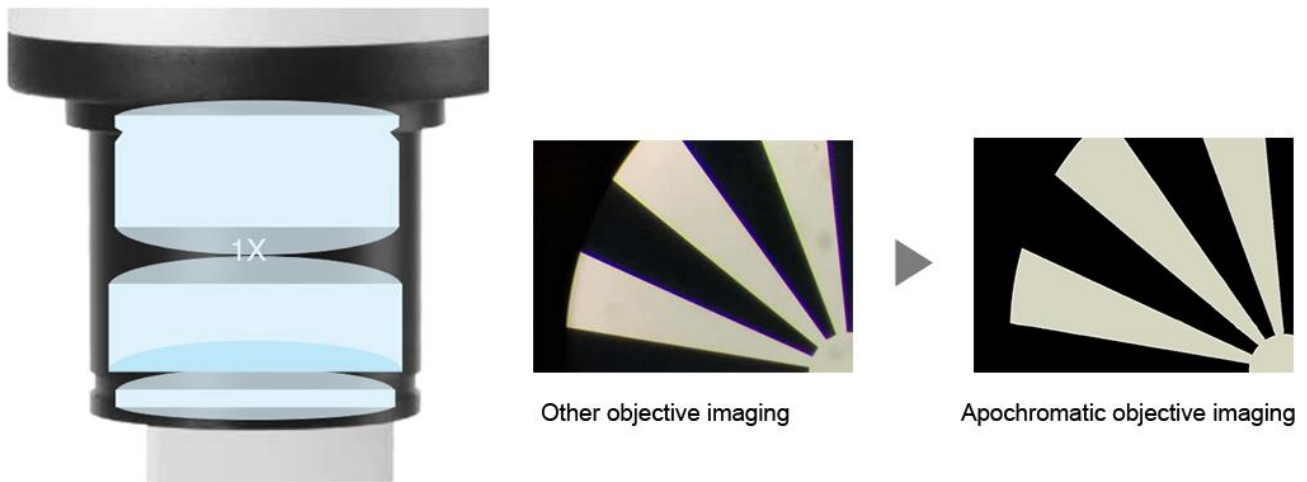
#### 2. Large zoom ratio 18:1.

BS-3090 has large zoom ratio of 18:1, zoom range from 0.75X to 13.5X, with click stop for main magnifications, the images remain clear and smooth during zoom magnifying.



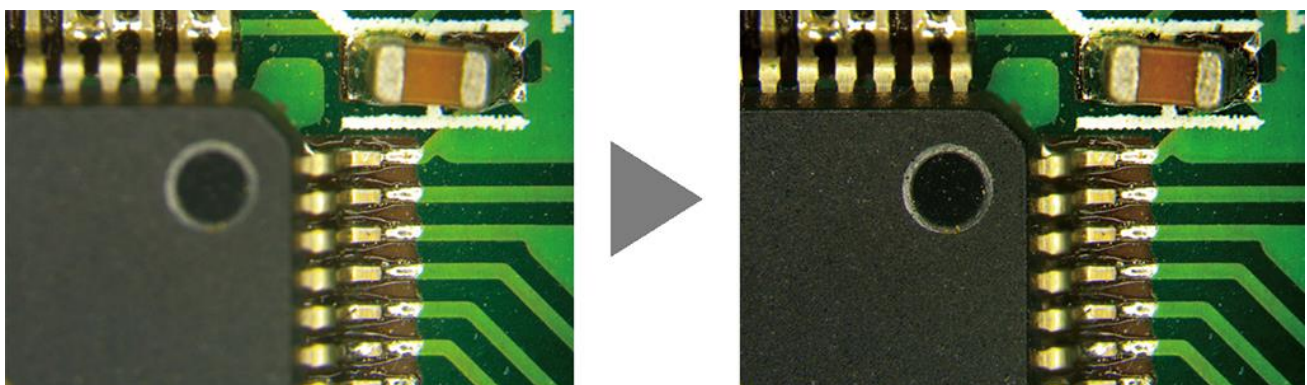
**3. Apochromatic objective.**

Apochromatic design has significantly improved the color reproduction of the objective. Correcting the axial chromatic aberration of red/green/blue/purple, and converge them on a focal plane, the objective is able to present the real color of the samples. The 1X objective is NA0.15.



**4. Aperture diaphragm adjustment.**

Shift the aperture diaphragm lever in front of the microscope to adjust depth of field for high-quality image.



**Application**

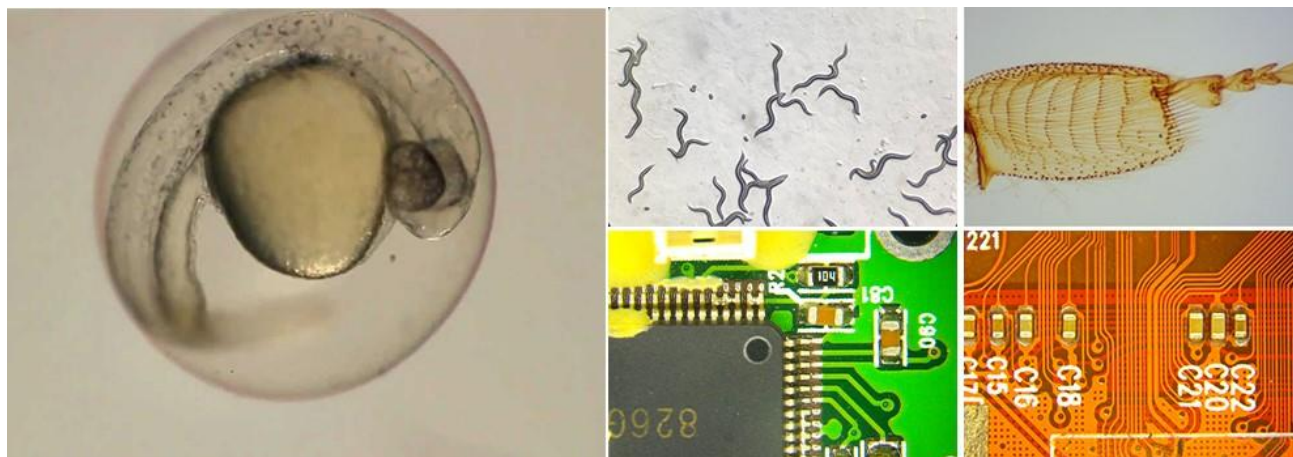
BS-3090 has great value in a variety of applications such as life science and medical research, including dissection, IVF, biological experiment, chemical analysis and cell culture. It also can be used in Industrial areas for PCB, SMT surface, electronics inspection, semiconductor chip inspection, metal and materials testing, precision parts testing. coin collecting, gemology and gemstone setting, engraving, repair and inspection of small parts.

### Specification

Item	Specification	BS-3090
Optical System	Infinite Parallel Galileo Zoom Optical System	●
Viewing Head	30 degree inclined trinocular head; binocular: trinocular=100:0, 20:80; interpupillary distance 50-76mm; fixed eyepiece tube with lock screw	●
Eyepiece	High eye-point wide field plan eyepiece PL10×/23mm, diopter adjustable	●
	High eye-point wide field plan eyepiece PL15×/16mm, diopter adjustable	○
	High eye-point wide field plan eyepiece PL20×/12.5mm, diopter adjustable	○
Zoom Range	Zoom range: 0.75X-13.5X, click stop for 0.75×, 1×, 2×, 3×, 4×, 5×, 6×, 8×, 10×, 11×, 12×, 13×, 13.5×, with built-in aperture diaphragm	●
Objective	Plan Apochromatic Objective 1×, W.D.: 60mm, NA0.15	●
Zoom Ratio	1: 18	●
Focusing Unit	Coarse and fine coaxial focus system, tension adjustable, coarse moving range 50mm, fine precision 0.002mm	●
Base	Plan base with transmitted illumination	●
Illumination	LED transmitted illumination, brightness adjustable	●
	LED Ring light	○
	Cold light source	○
Camera Adapter	0.5×/1× C-mount adapters	○
Packing	1set/carton, Net/Gross weight: 14/16kg, Carton size: 59×55×81cm	●

Note: ● Standard Outfit, ○ Optional

### Sample Image



## Accessories of Stereo Microscope

### 1. Halogen Cold Light Source

#### (1) BSL-150A Series Cold Light Illumination



#### Introduction

BSL-150A Series Cold Light Illumination is designed as an auxiliary lighting device for microscope in order to get better observation results.

#### Feature

1. More stable power supply with CE standard electrical parts.
2. With delay startup design to protect eyes and electrical parts from sudden brightness.
3. Enhancing the security with skillful power off switch.
4. Cooling the illumination better with advanced wind loop design.
5. Reliable with stable structure.
6. Longer working life and lower noisy.

#### Specification

Item	Specification	BSL-150A-1	BSL-150A-2	BSL-150A-O
Power Supplier	Switch Power 110V/ 220V	●	●	●
	T-H Lamp with Reflector 20V/ 150W			
	Brightness Adjustable			
	Multi-coated IR Cutoff Filter for Heat Insulation			
	Fan Cooling			
	Size: 260×120×150mm			
	Weight 3.3 kg			
Single Light Guide	Rigid Flexional Tube, Length 500mm	●		
Dual Light Guide	Rigid Flexional Tube, Length 500mm		●	
Ring Light Guide	Flexible Tube, Length 1000mm, Adapter Ring Size Φ50mm/ Φ60mm			●
Kohler Illumination Attachment	Attached on Single or Dual Light Guide to adjust and obtain Even Illumination	○	○	

Note: ● Standard Outfit, ○ Optional

## (2) BSL2-150A Cold Light Source



Single Rigid Fiber



Double Rigid Fiber



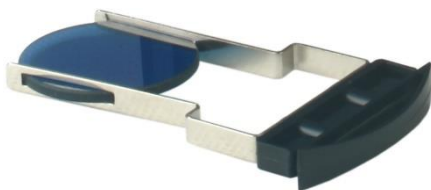
Ring Flexible Fiber

### Introduction

BSL2-150A Cold Light Source is designed as an auxiliary lighting device for stereo and other microscopes to get better observation results. The Cold light source provides high quality illumination, long working life and saves energy.

### Features

1. More stable power supply with CE standard electrical parts and circuit.
2. Reliable with stable structure.
3. Long working life and low noise.
4. Filter holder is available to change the color temperature from 3000K to 5000K.





**Specification**

Item	Specification	BSL2-150A-1	BSL2-150A-2	BSL2-150A-O
Power Supplier	Input Voltage: 176V-265V, 50Hz (110V is optional)	●	●	●
	21V/150W, Philips Lamp (Lamp Model No.: 13629)			
	Lamp Life: 500 hours			
	Color temperature: 3000K			
	Illuminance: 100000Lx			
	Brightness Adjustable			
	Optical Fiber Interface: Φ16mm			
	Cooling: Built In Large-area Radiator and Cooling Fan			
	Size: 230mm×101.6mm×150mm			
	Gross Weight: 2.7 kgs (Optical Fiber not included)			
	Net Weight: 2.1 kgs (Optical Fiber not included)			
Single Light Guide	Single Rigid Fiber, length 550mm, diameter 8mm, with Condenser, 5/8" Standard Interface	●		
Dual Light Guide	Double Rigid Fiber, length 550mm, diameter 8mm, with Condenser, 5/8" Standard Interface		●	
Ring Light Guide	Ring Flexible Fiber, length 550mm, diameter 8mm, 5/8" Standard Interface, Adapter Ring Size Φ50mm/ Φ60mm			●
Filter Holder	Used to change the color temperature	●	●	●
Filter	Light Blue	●	●	●
	Navy Blue, Red, Green	○	○	○
Package	1 set/carton, 285mm×230mm×255mm, 3kg	●	●	●
	4 sets/carton, 540mm*320mm*470mm, 12kg	●	●	●

Note: ● Standard Outfit, ○ Optional

## 2. LED Light Source

### (1) BSL-15A LED Light Source



Single Rigid Fiber

Double Rigid Fiber

Ring Flexible Fiber

#### Introduction

BSL-15A LED Light Source is designed as an auxiliary lighting device for stereo and other microscopes to get better observation results. The LED light source provides high quality illumination, long working life and saves energy.

#### Features

1. More stable power supply with CE standard electrical parts and circuit.
2. Reliable with stable structure.
3. Long working life and low noise.

#### Specification

Item	Specification	BSL-15A-1	BSL-15A-2	BSL-15A-O
Power Supplier	Input Voltage: 100V-240V/ 50-60Hz			
	15W LED light lamp			
	Lamp Life: 50000 hours			
	The color temperature: 6000K	•	•	•
	Illuminance: 90000Lx			
	Brightness Adjustable			
	Optical Fiber Interface: Φ16mm			

	Cooling: Built In Large-area Radiator and Cooling Fan			
	Size: 230mm×101.6mm×150mm			
	Gross Weight: 2.9 kgs (Optical Fiber not included)			
	Net Weight: 2.4 kgs (Optical Fiber not included)			
Single Light Guide	Single Rigid Fiber, length 550mm, diameter 8mm, with Condenser, 5/8" Standard Interface	•		
Dual Light Guide	Double Rigid Fiber, length 550mm, diameter 8mm, with Condenser, 5/8" Standard Interface		•	
Ring Light Guide	Ring Flexible Fiber, length 550mm, diameter 8mm, 5/8" Standard Interface, Adapter Ring Size Φ50mm/ Φ60mm			•
Package	1 set/carton, 285mm×230mm×255mm, 3kg	•	•	•
	4 sets/carton, 540mm*320mm*470mm, 12kg	•	•	•

Note: ● Standard Outfit, ○ Optional

## (2) BSL-3A LED Light Source



BSL-3A is a popular goose neck LED illuminator. It adopts LED as the light source, it has features of low energy consumption and long working life. It is mainly used as an auxiliary lighting source for stereo microscopes or other microscopes.

### Feature

1. Illumination intensity is adjustable, Step-less dimming.
2. Easy change detachable Gooseneck light guide, angle can be adjusted.
3. Adopt high refractive index glass lens, high brightness.

### Specification

LED Qty	2pcs LED lamps
Power Consumption	2*3W
Input Voltage	AC 100-240V, 50-60HZ
Color Temperature	Standard is 6400K, other color temperature can be customized

Goose-neck Length	550mm
Housing Material	Steel metal casing
Lumens	≈300lm
Working life	>10000 hours
Working Temperature	≤50°C
Packing	1pc/carton, 31x30x18cm, 2kg; 3pcs/carton, 32 x 32 x 57cm, 6kg

### (3) BSL-3B LED Light Source



BSL-3B is a popular goose neck LED illuminator. It adopts LED as the light source, it has features of low energy consumption and long working life. It is mainly used as an auxiliary lighting source for stereo microscopes or other microscopes.

#### Feature

1. Illumination intensity is adjustable, Step-less dimming.
2. Easy change detachable Gooseneck light guide, angle can be adjusted.
3. Adopt high refractive index glass lens, high brightness.

#### Specification

LED Qty	2pcs LED lamps
Power Consumption	6.5W
Input Voltage	AC 110-240V, 50-60HZ
Color Temperature	6500K
Goose-neck Length	400mm is standard, 500mm is optional
Housing Material	Steel metal casing
Illuminance	18000Lux (one light guide at 100mm working distance )
Working life	>10000 hours
Working Temperature	≤50°C
Packing	4pcs/carton, 53 x 41 x 23cm, 8kg

### 3. BAL-2, BAL-3 Fluorescent Ring Light



BAL-2B



BAL-2A/2C



BAL-3A



BAL-3B



BAL-3C

With high brightness and even illumination, simple structure and easy to operate, BAL-2, BAL-3 Series fluorescent ring light can be used as incident illumination for various stereo microscopes. The difference of BAL-2A and 2C is the lamp is different.

Model	BAL-2A	BAL-2B	BAL-2C	BAL-3A	BAL-3B	BAL-3C
Voltage	110V/220V					
Power	8w			10w		
Color Temperature	6400K-7000K					
Mounting Diameter	Φ30-Φ60mm					
Light adjustment	No Light adjustment					Light adjustment



## 4. LED Ring Light

### (1) BAL-8 LED Ring Light



With high brightness and even illumination, simple structure and easy to operate, BAL-8 LED ring light is used as incident illuminator for stereo microscopes.

Specification:

LED: 110V or 220V, 54 Pieces LED lamps,  $\Phi 30\text{-}\Phi 60\text{mm}$

### (2) BAL-72 LED Ring Light



#### Application

BAL-72 LED ring light can be used as incident illumination on stereo microscopes and machine vision systems. It has four-zone lighting control separately, long working life and save energy features.

#### Feature

1. Intensity Adjustment, Good Variable Control Permit Gradual Increase in Brightness with Four-zone Lighting Control Separately.
2. Reliability and Durability.
3. Low Power consumption, Super Brightness.
4. Metal Shell and ESD.
5. Reasonable Design, Uniformity Light, Non-flicker & Shadow.

#### Specification

LED Quantity	72LED lamps
--------------	-------------

Mounting Diameter	Φ62mm
Input Power	DC12V 600mA
Input Voltage	Universal 100-240V AC
Output Power	7.2W
Color Temperature	6500K
LED Luminance	>15000mcd
LED Lifetime	50,000 hours
Working Distance	95-115mm
Standard Set	BAL-72 LED ring light, Light Control Box, DC12V Power Supply

### (3) BAL-48 series LED Ring Light



BAL-48A



BAL-48B



BAL-48C

BAL-48 series LED ring light are high quality light source featuring high brightness, low temperature and flash free, they can be used as auxiliary illumination for industrial monocular microscopes, stereo microscopes and similar lens.

#### Specification

Model	BAL-48A	BAL-48B	BAL-48C
Input Voltage	Universal 100-240V AC	Universal 100-240V AC	Universal 100-240V AC
Output Voltage	12V/DC	12V/DC	12V/DC
Current	240mA	240mA	240mA
Mounting Diameter	Φ40mm, Outer Diameter: Φ58mm	Φ62mm, Outer Diameter: Φ100mm	Φ62mm, Outer Diameter: Φ100mm
LED Quantity	48pcs LED lamps	48pcs LED lamps	48pcs LED lamps
LED Lifetime	100,000hrs	100,000hrs	100,000hrs
LED Color	White (Other Colors are Optional )	White (Other Colors are Optional )	White (Other Colors are Optional )
Color Temperature	±7000K	±7000K	±7000K
Luminance	16000-18000mcd	16000-18000mcd	16000-18000mcd
LED Angle	30° (Consistent)	30° (Consistent)	30° (Consistent)
Working Distance	40-90mm	40-90mm	40-90mm
Input Power	3 W	3 W	3 W
Light Control	Brightness Adjustment	Brightness Adjustment	Brightness Adjustment
Light head material	Aluminum	Plastic	Aluminum
Packing	BAL-48A LED ring light, Light Control Box, DC12V Power Supply	BAL-48B LED ring light, Light Control Box, DC12V Power Supply	BAL-48C LED ring light, Light Control Box, DC12V Power Supply

### (4) BAL-60A / 60B / 64 LED Ring Light



BAL-60A



BAL-60B/72B



BAL-64

#### Application

BAL-60A/60B/72B/64 LED ring light are simple and compact, they can be used as incident illumination on stereo microscopes and machine vision systems. BAL-60B has four-zone lighting control separately, these LED ring lights have long working life and save energy features.

#### Feature

1. Light intensity can be adjusted to get best contrast.
2. BAL-60B has Four-zone lighting control separately to enhance contrast and reduce reflection.
3. Reliability and Durability.
4. Low Power consumption, Super Brightness.
5. Reasonable Design, Uniformity Light, Non-flicker & Shadow.

#### Specification

Model	BAL-60A	BAL-60B/72B	BAL-64
LED Quantity	60 LED lamps	60/72 LED lamps	64 LED lamps
Color	Black	Black	White
Mounting Diameter	Φ60mm	Φ60mm	Φ60mm
Light Head Material	Plastic	Aluminum	Plastic
Input Power	DC12V	DC12V	DC12V
Input Voltage	Universal 100-240V AC	Universal 100-240V AC	Universal 100-240V AC
Color Temperature	6500K-7000K	6000K-6500K	6500K-7000K
LED Luminance	0-12000 Lux	0-16000 Lux	0-12000 Lux
LED Lifetime	50,000 hours	50,000 hours	50,000 hours
Brightness	0-100% adjustable	0-100% adjustable, 4 zone control separately	0-100% adjustable
Working Distance	30-120mm	60-120mm	30-120mm
Standard Set	BAL-60A LED ring light, DC12V Power Supply	BAL-60B/72B LED ring light, DC12V Power Supply	BAL-60B LED ring light, DC12V Power Supply

### (5) BAL2A Series LED Ring Light



BAL2A-60/78

BAL2A series LED ring light have features of high brightness, low temperature and flash free, they can be used as auxiliary illumination for industrial monocular microscopes, stereo microscopes and similar lens.

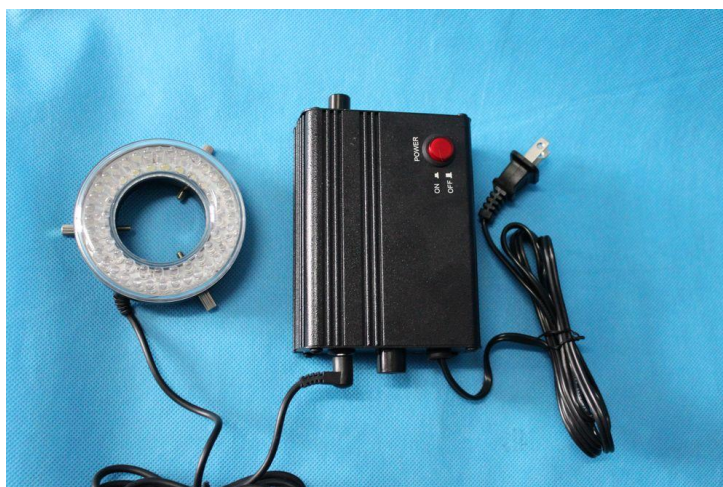
### Feature

1. The power controlling adapter and light head adopt ABS plastic material, simple and smart.
2. Adopt  $\phi$ 5mm LED lamps, with excellent light focus effect and high efficiency.
3. Continues light intensity adjustment can meet different requirement.
4. Reliable circuit board ensures safety and long working life.
5. ESD treatment is optional.

### Specification

Model	BAL2A-60	BAL2A-78
Input Voltage	Universal 100-240V AC	Universal 100-240V AC
Input Power	6 W	7 W
Mounting Diameter	$\phi$ 60mm	$\phi$ 70mm
LED Quantity	60pcs LED lamps	78pcs LED lamps
LED Lifetime	50,000hrs	50,000hrs
LED Color	White (Other Colors can be customized )	White (Other Colors can be customized )
Color Temperature	6400K, other color temperature can be customized	6400K, other color temperature can be customized
Illuminance@100mm	24000lx	24000lx
Light Control	Brightness Adjustable	Brightness Adjustable
Light head material	ABS Plastic	ABS Plastic
Packing	BAL2A-60 LED ring light head, Light Control Box, Power cable	BAL2A-78 LED ring light head, Light Control Box, Power cable

### (6) BAL2B Series LED Ring Light



BAL2B-60/78

BAL2B series LED ring light have features of high brightness, low temperature and flash free, they can be used as auxiliary illumination for industrial monocular microscopes, stereo microscopes and similar lens.

#### Feature

1. The light head adopt ABS plastic material and  $\phi 5\text{mm}$  LED lamps, with excellent light focus effect and high efficiency.
2. The power controlling adapter adopt aluminum case, solid and reliable.
3. Continues light intensity adjustment can meet different requirement.
4. Reliable circuit board ensures safety and long working life.
5. ESD light head treatment is optional.

#### Specification

Model	BAL2B-60	BAL2B-78
Input Voltage	Universal 100-240V AC	Universal 100-240V AC
Input Power	5 W	6 W
Mounting Diameter	$\phi 61\text{mm}$	$\phi 70\text{mm}$
LED Quantity	60pcs LED lamps	78pcs LED lamps
LED Lifetime	50,000hrs	50,000hrs
LED Color	White (Other Colors can be customized )	White (Other Colors can be customized )
Color Temperature	6400K, other color temperature can be customized	6400K, other color temperature can be customized
Illuminance@100mm	24000lx	25000lx
Light Control	Brightness Adjustable	Brightness Adjustable
Light head material	ABS Plastic	ABS Plastic
Packing	BAL2B-60 LED ring light head, Aluminum Light Control Box, Power cable	BAL2B-78 LED ring light head, Aluminum Light Control Box, Power cable



**(7) BAL2B-78P Polarizing LED ring light**



BAL2B-78P

BAL2B-78P Polarizing LED ring light has features of high brightness, low temperature and flash free, it can be used as auxiliary illumination for industrial monocular microscopes, stereo microscopes and similar lens. It adopts a high extinction ratio polarizing set, can be used to observe or analyse surface of high reflective materials.

**Feature**

1. The light head adopt ABS plastic material and  $\phi 5\text{mm}$  LED lamps, with excellent light focus effect and high efficiency.
2. The power controlling adapter adopt aluminum case, solid and reliable.
3. With polarizing set, can reduce the reflective light on the surface of materials, improve the observation result.
4. Continues light intensity adjustment can meet different requirement.
5. Reliable circuit board ensures safety and long working life.
6. ESD light head treatment is optional.

**Specification**

Model	BAL2B-78
Input Voltage	Universal 100-240V AC
Input Power	6 W
Mounting Diameter	$\phi 70\text{mm}$
Outside Diameter of light head	$\phi 104\text{mm}$
LED Quantity	78pcs LED lamps
LED Lifetime	50,000hrs
LED Color	White (Other Colors can be customized )
Color Temperature	6400K, other color temperature can be customized

Illuminance@100mm	25000lx
Light Control	Brightness Adjustable
Light head material	ABS Plastic
Polarizing Set	Polarizer and Analyzer (Polarizer is 360°adjustable)
Packing	BAL2B-78 LED ring light head, Aluminum Light Control Box, Power cable, Polarizing set

### (8) LED-56A / 64A / 144A LED Ring Light



LED-56A



LED-56A(Rotatable)



LED-64A



LED-144A

#### Application

LED-56A/56A(rotatable)/64A/144A LED ring light are simple and compact, they can be used as incident illumination on stereo microscopes and machine vision systems. LED-56A has a rotatable ring, so easy to change the direction of the LED lamp, these LED ring lights have long working life and save energy features.

#### Feature

1. Light intensity can be adjusted to get best contrast.
2. LED-56A(rotatable) has a rotatable ring, easy to change the direction of the LED lamp.
3. Reliability and Durability.
4. Low Power consumption, Super Brightness.
5. Reasonable Design, Uniformity Light, Non-flicker & Shadow.

#### Specification

Model	LED-56A	LED-56A(Rotatable)	LED-64A	LED-144A
LED Quantity	56pcs LED lamps	56pcs LED lamps	64 LED lamps	144 LED lamps
Color	White	White	White	White
Mounting Diameter	Φ61mm	Φ58mm/Φ63mm	Φ61mm	Φ61mm
Light Head Material	Plastic	Plastic	Aluminum	Plastic
Input Power	DC12V, 2W	DC12V, 2W	DC12V, 2.2W	DC12V, 4.2W
Input Voltage	Universal 100-240V AC	Universal 100-240V AC	Universal 100-240V AC	Universal 100-240V AC
Color Temperature	8000K	8000K	8000K	8000K
LED Luminance	0-12000 Lux	0-12000 Lux	0-12000 Lux	0-14000 Lux
LED Lifetime	50,000 hours	50,000 hours	50,000 hours	50,000 hours
Brightness	0-100% adjustable	0-100% adjustable	0-100% adjustable	0-100% adjustable
Working Distance	30-150mm	30-150mm	30-150mm	30-150mm
Standard Set	LED-56A LED ring light, DC12V Power Supply	LED-56A LED ring light, DC12V Power Supply	LED-64A LED ring light, DC12V Power Supply	LED-144A LED ring light, DC12V Power Supply

### 5. Stand and other accessories



<p><b>BSZ-F1 Stand</b> Column height: 400mm, <math>\Phi</math>38mm Column for focus Arm: <math>\Phi</math>30mm</p>	<p><b>BSZ-F2 Stand</b> Column height: 454mm, <math>\Phi</math>29.5mm Base size: 396*276mm Column for focus Arm: <math>\Phi</math>30mm</p>	<p><b>BSZ-F3 Stand</b> Column height: 490mm, <math>\Phi</math>38mm Base size: 253*253mm, Cross bar length: 446mm, Column for focus Arm: <math>\Phi</math>30mm</p>
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<p><b>BSZ-F4 Stand</b> Column for focus Arm: <math>\Phi</math>30mm</p>	<p><b>BSZ-F9 Stand</b> Column height: 280mm Glass plate: <math>\Phi</math>100mm Microscope mount: <math>\Phi</math>76mm</p>	<p><b>BSZ-F10 Stand</b> Column height: 280mm Glass plate: <math>\Phi</math>140mm Microscope mount: <math>\Phi</math>76mm</p>
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<p><b>BSZ-F11 Stand</b> Column height: 280mm Glass plate: <math>\Phi</math>100mm Microscope mount: <math>\Phi</math>76mm</p>	<p><b>BSZ-F12 Stand</b> Halogen incident and transmitted illumination Microscope mount: <math>\Phi</math>76mm</p>	<p><b>BSZ-F13 Stand</b> Clamp Size: 103*77*115mm Max. Table thickness: 52mm Length of Horizontal Arm: 507mm Microscope mount: <math>\Phi</math>76/<math>\Phi</math>40/<math>\Phi</math>45mm</p>
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<p><b>BSZ-F14 Stand</b> Base Size: 382*260*24mm Column height: 408mm, <math>\Phi</math>32mm Microscope mount: <math>\Phi</math>76/<math>\Phi</math>40/<math>\Phi</math>45mm</p>	<p><b>BSZ-F15 Stand</b> Base Size: 382*260*24mm Column height: 408mm, <math>\Phi</math>32mm Cross bar Length: 408mm Microscope mount: <math>\Phi</math>76/<math>\Phi</math>40/<math>\Phi</math>45mm</p>	<p><b>BSZ-F16 Stand</b> Base Size: 318*308*16mm Column height: 326mm Focusing Range: 160mm Microscope mount: <math>\Phi</math>76/<math>\Phi</math>40/<math>\Phi</math>45mm</p>
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<p><b>BSZ-F17 Stand</b>            Base Size: 318*308*16mm            Column height: 326mm            Focusing Range: 160mm            Microscope Arm: <math>\Phi 76/\Phi 40/\Phi 45</math>mm</p>	<p><b>BSZ-F18 Stand</b>            Base Size: 318*308*16mm            Column height: 500mm            Focusing Range: 160mm            Microscope Arm: <math>\Phi 76/\Phi 40/\Phi 45</math>mm</p>	<p><b>BSZ-F19 Stand(For Camera)</b>            Base Size: 318*308*16mm            Column height: 326mm            Focusing Range: 160mm</p>
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<p><b>BMS-302 X-Y Stage</b>            Stage Size: 180×155×26mm,            Moving Rang: X-75mm, Y-55mm,            Accuracy: 0.1mm</p>	<p><b>BMS-304 X-Y Stage</b>            Stage size: 254×203×25mm,            Moving Range: 100mm×100mm,            Glass Stage: <math>\Phi 140</math>mm</p>	<p><b>BMS-311 Measuring Stage</b>            Stage Size: 160×123×21mm,            Moving Rang: X-75mm, Y-50mm, Accuracy:            0.1mm</p>
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## BS-4000 Industrial Inspection Microscope





### Introduction

BS-4000 series microscopes are specially designed for precise industrial inspection. They adopt infinite optical system and long working distance high-power objective lens. They provide an outstanding optical performance and available to IT industry, large-scale integrated circuits, chips observation and testing.

### Feature

1. Big stage with extra large moving range 250×250mm.
2. Well designed structure, easy to operate.
3. Excellent optical quality with Infinite Optical System and LWD high magnification objective.
4. Stage speedy movement by hand to get observation point immediately.
5. Easy, Safe and Reliable Lamp Replacement.
6. Comfortable and enjoyable operation with low and pre position control knob.

 <p>BS-4000A BS-4000B</p>	<p>Suitable for different Specimen Observation with Polarization Set.</p>
	<p>Big stage with extra large moving range, both movement by hand and precise adjustment by knob are available.</p>

### Application

It is specially used in IT Industry for Large Area Integrate Circuit board, Wafer Observation and other industrial Inspection.

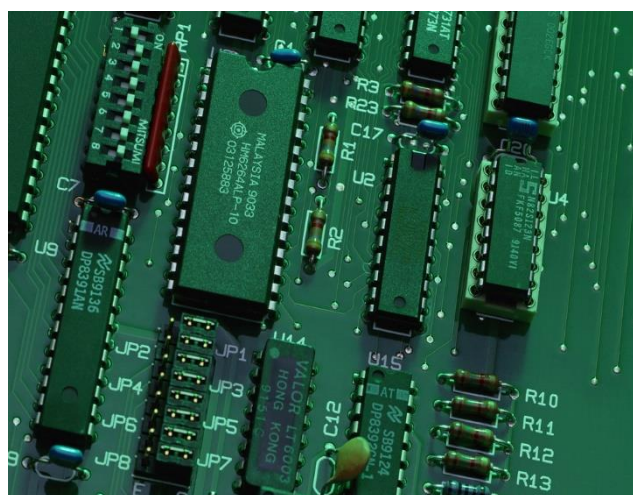
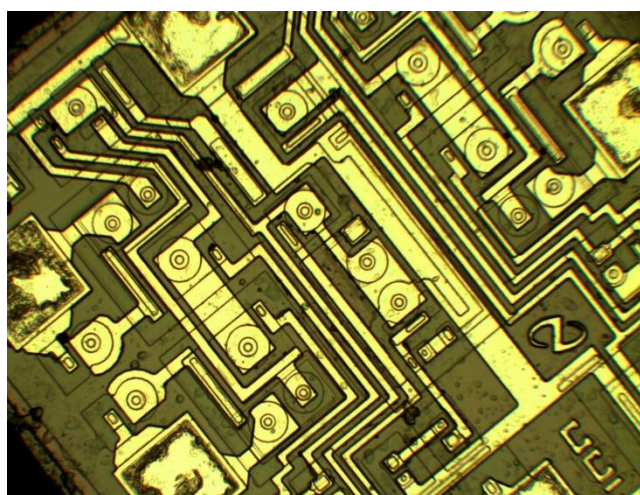


## Specification

Item	Specification	BS-4000A	BS-4000B	
Viewing Head	Seidentopf type trinocular head, Inclined at 30°, 360° Rotatable, Interpupillary 48-75mm	●	●	
Eyepiece	Extra Wide Field Eyepiece EW10×/ 22	●	●	
Objective	Infinite Plan Achromatic Objectives	4×/0.1/∞/- WD 17.8mm	●	
		5×/0.12/∞/- WD 15.5mm	○	●
		10×/0.25/∞/- WD 10.0mm	●	
		10×/0.25/∞/- (BF/DF) WD 10.0mm		●
		20×/0.40/∞/0 WD 5.8mm	●	
		20×/0.40/∞/0 (BF/DF) WD 4.3mm		●
		40×/0.6/∞/0 WD 2.9mm	●	
		50×/0.75/∞/0 WD 0.32mm	○	●
	100×/0.8/∞/0 WD 2.0mm	○	●	
Nosepiece	Quadruple Nosepiece	●		
	Quintuple Nosepiece		●	
Stage	Stage size 300×268mm, Moving range 250×250mm	●	●	
Focusing	Coaxial coarse & fine Adjustment, Moving Range 24mm	●	●	
Illumination	6V/ 20W Halogen Lamp, Brightness Adjustable	●		
	24V/ 100W Halogen Lamp, Brightness Adjustable		●	
Polarization Set	Analyzer and Polarizer	○	○	
Filter	Blue, Green, Yellow and Frosted glass filters	●	●	
Photo Adapter	Used to connect DSLR cameras(Nikon & Canon)	○	○	
Video Adapter	1× or 0.5× C-Mount	○	○	

Note: ● Standard Outfit, ○ Optional

## Sample Image



## BS-5000 Series Polarizing Microscope

### 1. BS-5040 Polarizing Microscope



BS-5040B



BS-5040T

#### Introduction

The BS-5040 series transmitted polarizing microscopes are equipped with a smooth, rotating, graduated stage and a set of polarizers that allow observation of all types of transmitted light polarized specimens such as thin sections of minerals, polymers, crystals and particulates. It is equipped with an infinite optical system, a comfortable viewing head and a set of Strain-free Infinite Plan Objectives which offers a magnification range of 40X – 400X. Digital camera can be used together with BS-5040T for image analysis.

#### Feature

1. Color Corrected Infinite Optical System.
2. Infinite Strain-free Plan Objectives, ensuring excellent resolution and clarity.
3. Center adjustable nosepiece and center adjustable rotating platform make the operation more accurate and reliable.

#### Application

The BS-5040 series polarizing microscopes are specifically designed for geology, minerals, metallurgy, university teaching laboratories and other sectors. They also can be used in chemical fiber industry, semiconductor industry and the pharmaceutical inspection industry.

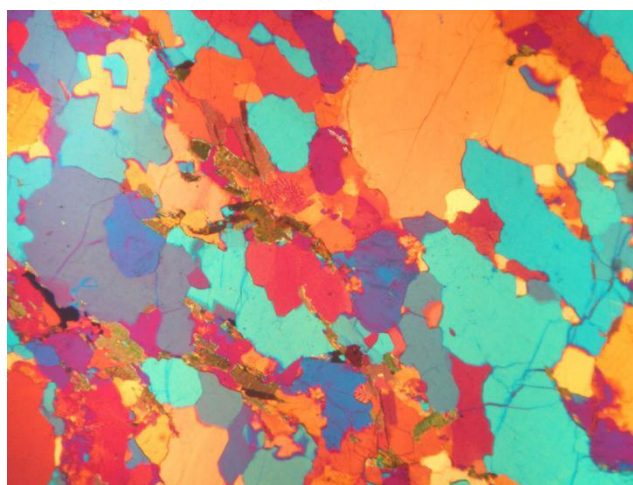
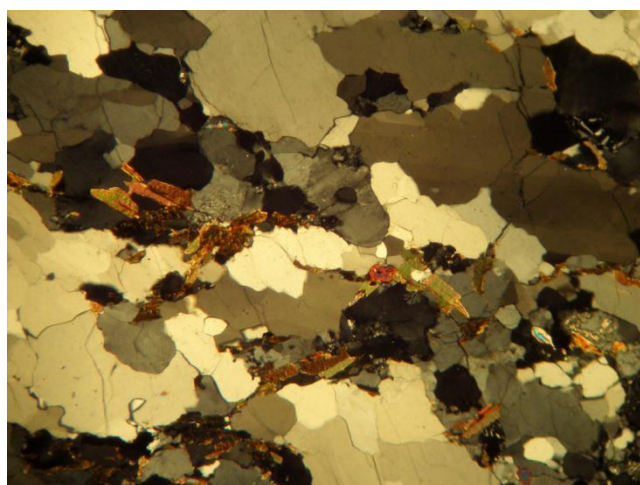
#### Specification

Item	Specification	BS-5040B	BS-5040T
Optical System	Color Corrected Infinite Optical System	•	•
Viewing Head	Seidentopf Binocular Head, Inclined 30°, Rotatable 360°, Interpupillary Distance: 48-75mm.	•	
	Seidentopf Trinocular Head, Inclined 30°, Rotatable 360°, Interpupillary Distance: 48-75mm. Light Distribution: 20:80		•

Eyepiece	WF 10×/18mm	●	●	
	WF 10×/18mm (Reticule 0.1mm)	●	●	
Objective	Strain-free Infinite Plan Objective	4×	●	●
		10×	●	●
		20× (S)	●	●
		40× (S)	●	●
		60× (S)	○	○
Nosepiece	Center Adjustable Quadruple Nosepiece	●	●	
Focusing	Coaxial Coarse & Fine Focusing knobs, Travel Range: 26mm, Scale:2um	●	●	
Analyzing Unit	0-90°, it can be moved out of the optical path for single polarizing observe	●	●	
Bertrand Lens	It can be moved out of the optical path	●	●	
Optical Compensator	$\lambda$ Slip, First Class Red	●	●	
	1/4 $\lambda$ Slip	●	●	
	( I -IV Class) Quartz Wedge	●	●	
Stage	360° Rotatable Round Stage, Center Adjustable, Division 1°, Vernier division 6', can be locked, stage diameter 146mm	●	●	
	Polarizing Attached Mechanical Stage	○	○	
Condenser	Abbe N.A. 1.25 Strain-free condenser	●	●	
Polarizing Unit	With Scale Rotatable 360°, Can Be Locked, It can be moved out of the optical path	●	●	
Illumination	6V/20W Halogen Lamp	●	●	
	6V/30W Halogen Lamp	○	○	
Filter	Blue(Built in)	●	●	
	Amber	○	○	
	Green	○	○	
	Neutral	○	○	
C-mount	1×		○	
	0.5× (Focus adjustable)		●	
Package	1pc/carton, 57×27.5×45cm, Gross Weight: 8.6 kgs	●	●	

Note: ● Standard outfits, ○ Optional.

## Sample Image



## 2. BS-5062 Polarizing Microscope



BS-5062B



BS-5062BR



BS-5062BTR



BS-5062T



BS-5062TR



BS-5062TTR

### Introduction

BS-5062 series polarizing microscopes feature a highly robust construction and first class optics to provide a long life and excellent quality images. Accessories like Gypsum slide, Mica slide, Quartz wedge and Mechanical stage are available. The microscopes are specifically designed for geology, minerals and material areas. They also can be used in chemical fiber, semiconductor and pharmaceutical industries.

### Feature

1. Excellent Infinite Optical System.
2. Widely used in geology, Mineralogy, Fossil fuel exploration.
3. Single polarization, orthogonol polarization or conosopic observation is available.



Professional dedicated polarizing binocular / trinocular head can keep the cross in the right-hand eyepiece always same when the eyepiece tubes turned.

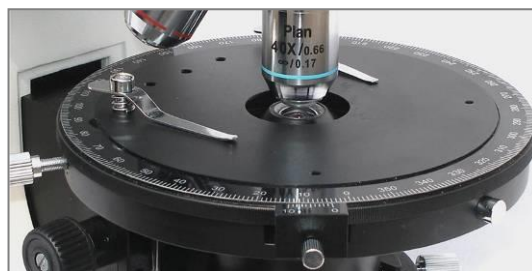


Bertrand lens  
360° rotatable analyzer(with division, can be locked), can be moved out of the light path.





Centering Nosepiece



Centering Revolving Round Stage



Polarizer



Swing-out Condenser



Compensator



Polarizing Attached Mechanical Stage

## Application

BS-5062 series polarizing microscopes are ideal instrument in geology, petroleum, coal, mineral, chemicals, semiconductor and pharmaceutical inspection fields. They are widely used in academic demonstration and scientific research areas.

## Specification

Item	Specification	BS-5062B	BS-5062BR	BS-5062BTR
Optical System	Infinite Optical System	•	•	•
Viewing Head	Seidentopf Binocular Head, inclined at 30°, 360° Rotatable, Interpupillary Distance: 48-76mm.	•	•	•
	Seidentopf Trinocular Head, inclined at 30°, 360° Rotatable, Interpupillary Distance: 48-76mm, Light distribution (both) 100:0 (100% for eyepiece), 80:20 (80% for trinocular head and 20% for eyepiece)	○	○	○
Eyepiece	WF10×/22mm	•		
	WF10×/22 mm (Reticule 0.1mm)	•		



	WF10×/20 mm		•	•
	WF10×/20 mm (Reticule 0.1mm)		•	•
Infinite Strain Free Plan Achromatic Objective (Transmitted)	4×/0.10 W.D=12.1mm	•		•
	10×/0.25 W.D=4.64mm	•		•
	20×/0.40(S) W.D=2.41mm	•		•
	40×/0.66(S) W.D=0.65mm	•		•
	60×/0.80 (S) W.D=0.33mm	○		○
	100×/1.25 (S, Oil) W.D=0.12mm	○		○
LWD Infinite Strain Free Plan Achromatic Objective (Reflected)	5×/0.13 (S) W.D=24.23mm		•	○
	10×/0.25 (S) W.D=18.48mm		•	○
	20×/0.40 (S) W.D=8.35mm		•	○
	50×/0.70 (S) W.D=1.95mm		•	•
	100×/0.90 (S, Dry) W.D=1.1mm		○	○
Nosepiece	Backward Quintuple nosepiece, center adjustable	•	•	•
Analyzer Unit	Rotatable 360°, module type, can be locked	•	•	•
Bertrand Lens	Built In, Center Adjustable	•	•	•
Optical Compensator	$\lambda$ Slip(First Class Red), 1/4 $\lambda$ Slip, Quartz Wedge ( I - IV Class)	•	•	•
Revolving Round Stage	Diameter $\Phi$ 156mm, Rotatable 360°, Center Adjustable, Division 1°, Vernier Division 6'	•	•	•
Attachable Mechanical Stage	Polarizing Attached Mechanical Stage with X-Y movement	○	○	○
Focusing	Coaxial Coarse & Fine Adjustment, Range 25mm, Fine Stroke 0.2mm, Fine Division 0.002mm	•	•	•
Swing-out Condenser	N.A.0.9/0.13 swing out condenser	•		•
Polarizing Unit	with Scale, Rotatable 360°, Can Be Locked	•		•
Transmitted Illumination	5W LED lamp (Input voltage:100V~240V)	•		•
	Koehler Illumination 6V/30W Halogen Lamp (Input voltage: 100V~240V)	○		○
Reflected Illumination	5W LED lamp (Input voltage:100V~240V)		•	•
	With field diaphragm, aperture diaphragm, polarizer, 12V/50W halogen lamp (Input voltage:100V~240V)		○	○
Filter	Blue	•	•	•
	Amber	○	○	○
	Green	○	○	○
	Neutral	○	○	○
C-mount	1× (Focus adjustable)	○	○	○
	0.75× (Focus adjustable)	○	○	○
	0.5× (Focus adjustable)	○	○	○
Packing	Packing size 565mm×310mm×410mm, Gross Weight 12.5kgs, Net Weight 10kgs	•		

	Packing size 750mm×360mm×450mm, Gross Weight 15kgs, Net Weight 11kgs		●	
	Packing size 750mm×360mm×450mm, Gross Weight 16kgs, Net Weight 12kgs			●

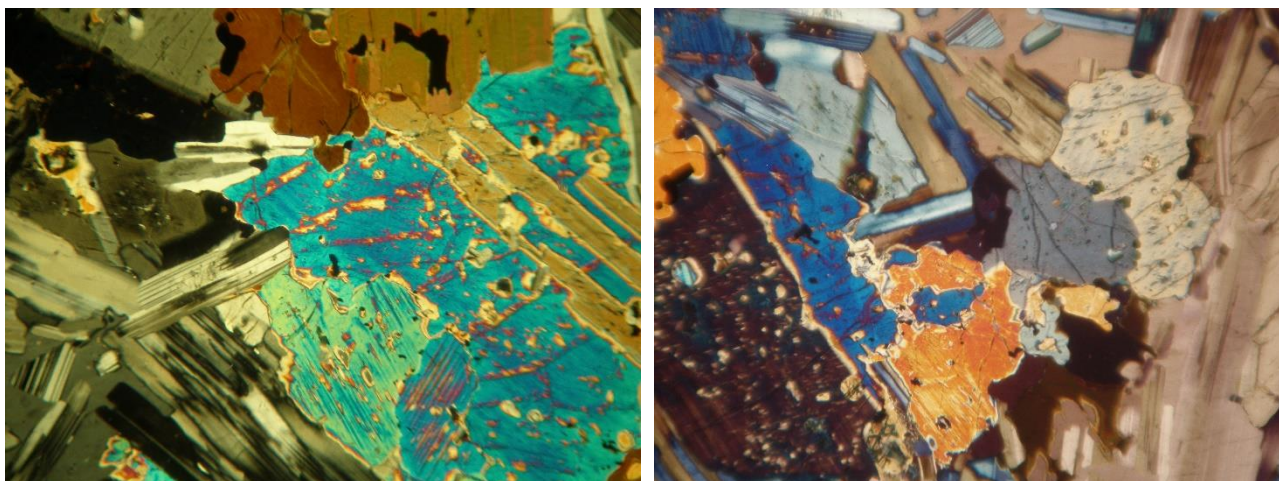
Note: ● Standard Outfit, ○ Optional

Item	Specification	BS-5062T	BS-5062TR	BS-5062TTR
Optical System	Infinite Optical System	●	●	●
Viewing Head	Seidentopf Binocular Head, inclined at 30°, 360° Rotatable, Interpupillary Distance: 48-76mm.	○	○	○
	Seidentopf Trinocular Head, inclined at 30°, 360° Rotatable, Interpupillary Distance: 48-76mm, Light distribution (both) 100: 0 (100% for eyepiece), 80:20 (80% for trinocular head and 20% for eyepiece)	●	●	●
Eyepiece	WF10×/22mm	●		
	WF10×/22 mm (Reticule 0.1mm)	●		
	WF10×/20 mm		●	●
	WF10×/20 mm (Reticule 0.1mm)		●	●
Infinite Strain Free Plan Achromatic Objective (Transmitted)	4×/0.10 W.D=12.1mm	●		●
	10×/0.25 W.D=4.64mm	●		●
	20×/0.40(S) W.D=2.41mm	●		●
	40×/0.66(S) W.D=0.65mm	●		●
	60×/0.80 (S) W.D=0.33mm	○		○
	100×/1.25 (S, Oil) W.D=0.12mm	○		○
LWD Infinite Strain Free Plan Achromatic Objective (Reflected)	5×/0.13 (S) W.D=24.23mm		●	○
	10×/0.25 (S) W.D=18.48mm		●	○
	20×/0.40 (S) W.D=8.35mm		●	○
	50×/0.70 (S) W.D=1.95mm		●	●
	100×/0.90 (S, Dry) W.D=1.1mm		○	○
Nosepiece	Backward Quintuple nosepiece, center adjustable	●	●	●
Analyzer Unit	Rotatable 360°, module type, can be locked	●	●	●
Bertrand Lens	Built In, Center Adjustable	●	●	●
Optical Compensator	λ Slip(First Class Red), 1/4λ Slip, Quartz Wedge ( I - IV Class)	●	●	●
Revolving Round Stage	Diameter Φ156mm, Rotatable 360°, Center Adjustable, Division 1°, Vernier Division 6'	●	●	●
Attachable Mechanical Stage	Polarizing Attached Mechanical Stage with X-Y movement	○	○	○
Focusing	Coaxial Coarse & Fine Adjustment, Range 25mm, Fine Stroke 0.2mm, Fine Division 0.002mm	●	●	●
Swing-out Condenser	N.A.0.9/0.13 swing out condenser	●		●
Polarizing Unit	with Scale, Rotatable 360°, Can Be Locked	●		●

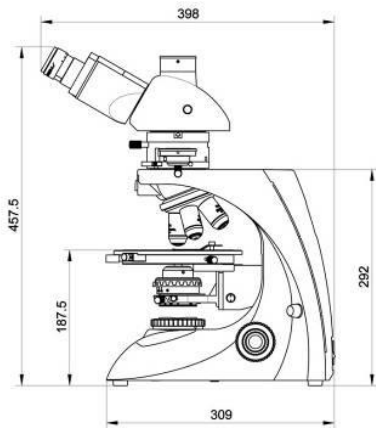
Transmitted Illumination	5W LED lamp (Input voltage:100V~240V)	●		●
	Koehler Illumination 6V/30W Halogen Lamp (Input voltage:100V~240V)	○		○
Reflected Illumination	5W LED lamp (Input voltage:100V~240V)		●	●
	With field diaphragm, aperture diaphragm, polarizer, 12V/50W halogen lamp (Input voltage:100V~240V)		○	○
Filter	Blue	●	●	●
	Amber	○	○	○
	Green	○	○	○
	Neutral	○	○	○
C-mount	1× (Focus adjustable)	○	○	○
	0.75× (Focus adjustable)	○	○	○
	0.5× (Focus adjustable)	○	○	○
Packing	Packing size 565mm×310mm×410mm, Gross Weight 12.5kgs, Net Weight 10kgs	●		
	Packing size 750mm×360mm×450mm, Gross Weight 15kgs, Net Weight 11kgs		●	
	Packing size 750mm×360mm×450mm, Gross Weight 16kgs, Net Weight 12kgs			●

Note: ● Standard Outfit, ○ Optional

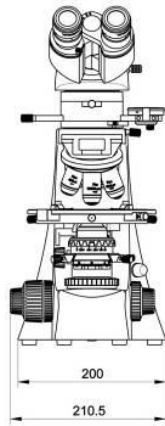
### Sample Image



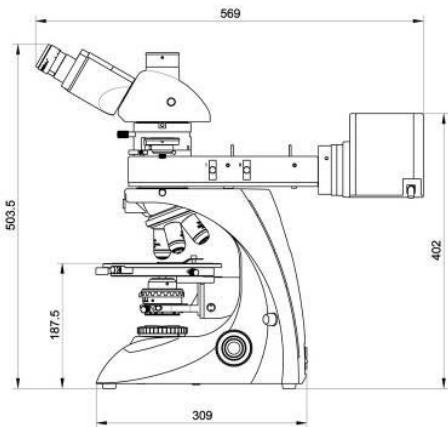
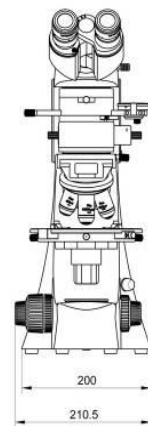
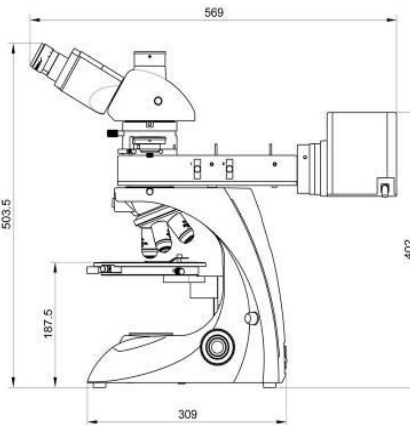
Dimension



BS-5062T



BS-5062TR



BS-5062TTR



### 3. BS-5070 Polarizing Microscope



BS-5070B



BS-5070BTR

#### Introduction

BS-5070 polarizing microscope features a highly robust construction and first class optics designed to provide a long life and excellent quality images. BS-5070BTR and BS-5070TTR have transmitted and reflected illumination system, which give a much better effect and wider application. The microscopes can be used for Single polarization, orthogonal polarization and conoscopic observation. Digital camera can be used together with the microscope for image analysis. Accessories like Gypsum slide, Mica slide, Quartz wedge and Mechanical stage are available.

#### Feature

1. Excellent Infinite Optical System.
2. Widely used in geology, Mineralogy, Fossil fuel exploration.
3. Single polarization, orthogonal polarization or conoscopic observation is available.
4. Transmitted and reflected illumination system of BS-5070BTR and BS-5070TTR offers a much better effect and wider application.
5. Attachable stage is optional.





## Application

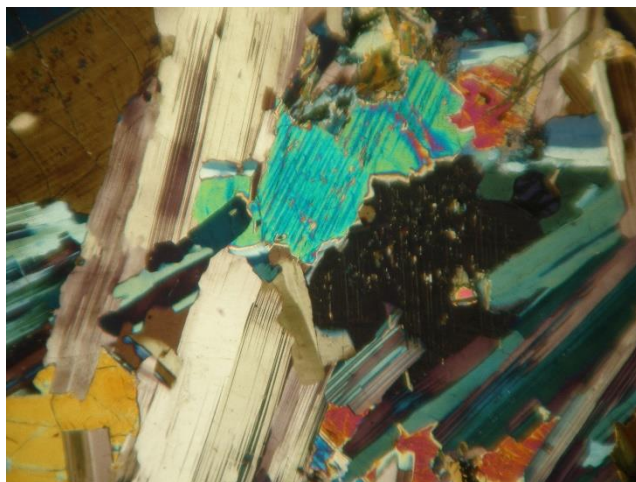
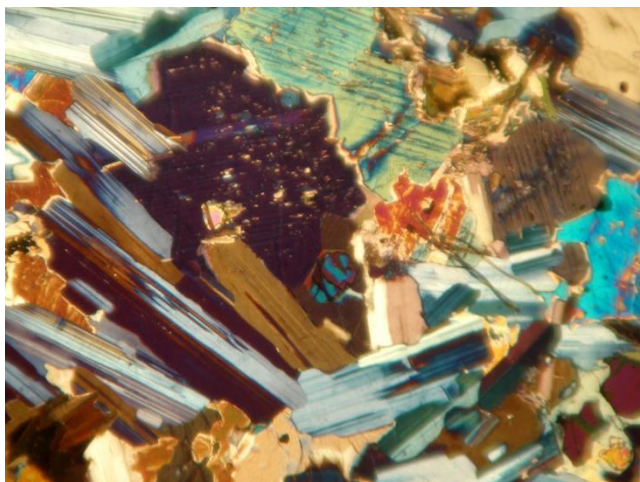
BS-5070 series polarizing microscopes are ideal instrument in geology, petroleum, coal, mineral, chemicals fiber, semiconductor and pharmaceutical industry for structure identify and analysis. They can be widely used in material research, academic demonstration, scientific research, university teaching laboratories and other sectors.

## Specification

Item	Specification	BS-5070B	BS-5070BTR
Optical System	Infinite Optical System	●	●
Viewing Head	Seidentopf Binocular Head, inclined at 30°, 360° Rotatable, Interpupillary Distance: 48-75mm	●	●
	Seidentopf Trinocular Head, inclined at 30°, 360° Rotatable, Interpupillary Distance: 48-75mm, Light Distribution: 20:80	○	○
Eyepiece	WF10×/ 20mm	●	●
	WF10×/ 20mm with cross hair	●	●
	WF10×/ 20mm with scale of cross hair	●	●
Infinite strain free plan achromatic objective	Objective 4×, 10× for Reflected/Transmitted System	●	●
	Objective 20×, 40×, 60× for Transmitted System	●	●
	Objective 100× for Transmitted System	○	○
	Objective 20×, 40×, 60×, 100× for Reflected System		○
Nosepiece	Backward quadruple nosepiece, center adjustable	●	●
Epi-Illumination	12V/50W halogen lamp with iris aperture diaphragm and iris field diaphragm, brightness adjustable		●
Analyzer	Rotatable analyzer with gradation 0°-360°	●	●
Bertrand Lens	Bertrand lens, focus/center adjustable, sliding in/out of optical path	●	●
Optical Compensator	$\lambda$ Slip (first class red), 1/ 4 $\lambda$ Slip, Quartz wedge	●	●
Revolving Round Stage	Diameter $\Phi$ 160mm, Graduated in 1° increments, Minimum resolution 6' when using vernier scale	●	●
Condenser	NA 0.9 Abbe Condenser with Iris Diaphragm	●	●
Focusing	Coaxial Coarse & Fine Adjustment, Range 24mm, Fine Division 0.002mm	●	●
Polarizer	360° Rotatable with Filter	●	●
Transmitted Illumination	12V/ 20W Halogen Lamp, Brightness Adjustable	●	●
Accessories	C- Mount 0.4×	○	○
	2× SLR Camera adapter for Nikon or Canon DSLR camera	○	○
	Mechanical stage, moving range 30×40mm	○	○
	Specimen presser	○	○
	Micrometer 0.01mm	●	●
	Filter	●	●

Note: ● Standard Outfit, ○ Optional

Sample Image



## 4. BS-5092 Polarizing Microscope



BS-5092

### Introduction

BS-5092 polarizing microscope is specifically designed for university colleges, geology, mining, metallurgy, pharmacy and other institutions for teaching, research and production. It can be used to analyze and identify various minerals and specimens, it can also be used to inspect chemical fiber, semiconductor products and medicines. Users can do single-polarized observation, orthogonal polarization observation, conoscope observation and photography with the microscope. This microscope is a set of powerful and good quality polarizing microscope.

### Feature

1. Supply high quality and contrast image with special strain free objectives.
2. Can be used for single polarization, othorgonal polarization and conoscopic observation.
3. Transmitted illumination, 24V/100W long life halogen lamp.
4. Stage with 45° located, attachable mechanical stage with large moving range, no interference when change objectives.
5. Gypsum  $\lambda$  plate, mica  $\lambda/4$  plate, quartz wedge plate are equipped.

### Application

BS-5092 polarizing microscope can be used for geology, petroleum, chemicals, mining, metallurgy, pharmacy, polymer, LED and other field. It can be used in university colleges, industrial laboratories and other institutions for teaching, research and production.

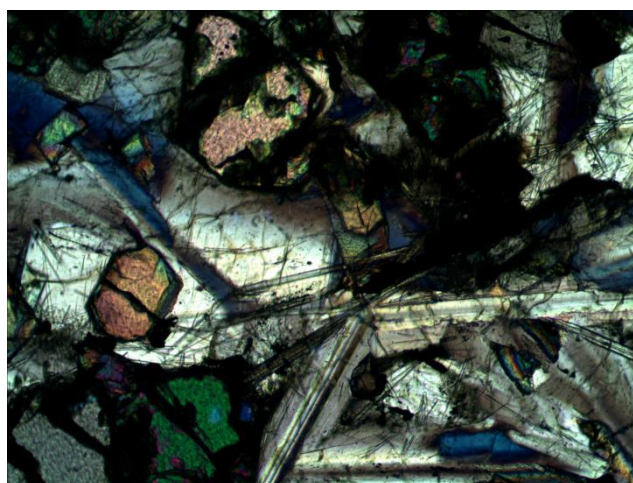
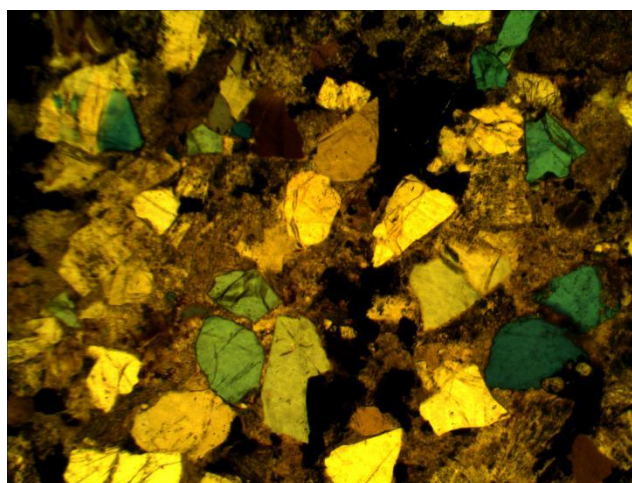
### Specification

Item	Specification	BS-5092
Optical System	Infinite Optical System	•
Viewing Head	Seidentopf trinocular head, Inclined at 30°, Interpupillary 48-75mm	•
Eyepiece	Plan eyepiece EW10×/22mm	•

	Plan eyepiece with scale of crosshair, crosshair, gridding	●
Strain-Free Plan Achromatic Objective	4x/0.10/∞/-, WD 17.3mm	●
	10x/0.25/∞/0.17, WD 10.0mm	●
	20x/0.40/∞/0.17, WD 5.10mm	○
	40x/0.65/∞/0.17, WD 0.54mm	●
	100x/1.25/∞/0.17, WD 0.13mm	●
Nosepiece	Backward quintuple nosepiece, Center adjustable	●
Analyzer	0°-360° rotatable analyzer with gradation, minimum gradation: 0.1° (Vernier scale)	●
Conoscopic Observation	Switch between orthoscopic and conoscopic observation, Bertrand lens position adjustable	●
Optical Compensator	λ plate (first class red), 1/ 4λ plate, quartz wedge plate	●
Polarizing Rotatable Stage	Diameter Φ170mm, center adjustable, 360° scale, minimum division 1°, minimum reading vernier scale 6', 45° click stop knob	●
Attachable Stage	Moving range 30mm×40mm	○
Condenser	Strain free swing out condenser NA0.9/0.25	●
Focusing	Coaxial coarse & fine adjustment, range 32mm, fine division 0.001mm, coarse stroke 37.7mm per rotation, Fine stroke 0.1mm per rotation	●
Polarizer	360° Rotatable, 0° position adjustable	●
Illumination	Transmitted light: 24V/100W Halogen lamp, brightness adjustable	●
Filter	Blue filter Φ45mm	●
	ND6 Neutral density filter Φ45mm	○
	ND25 Neutral density filter Φ45mm	○
Attachment	Video attachment	○
	0.01mm micrometer	○

Note : ● Standard Outfit, ○ Optional

## Sample Image



## 5. BS-5092RF/TRF Polarizing Microscope



BS-5092TRF

### Introduction

BS-5092 series transmitted and (or) reflected polarizing microscopes are specifically designed for university colleges, geology, mining, metallurgy, pharmacy and other institutions for teaching, research and production. They can be used to analyze and identify various minerals and specimens, they can also be used to inspect chemical fiber, semiconductor products and medicines. Users can do single-polarized observation, orthogonal polarization observation, conoscope observation and photography with the microscope. Gypsum  $\lambda$  plate, mica  $\lambda/4$  plate, quartz wedge plate and moving stage, wrenches come with the microscope. This microscope is a set of powerful and good quality polarizing microscope.

### Feature

1. Trinocular head, digital cameras can be easily used on this microscope for image and video taking.
2. Supply high quality and contrast image with special strain free objectives.
3. Can be used for single polarization, orthogonal polarization and conoscopic observation.
4. Transmitted and (or) reflected illumination, 24V/100W long life halogen lamp.
5. Stage with 45° located, attachable mechanical stage with large moving range, no interference when change objectives.
6. Gypsum  $\lambda$  plate, mica  $\lambda/4$  plate, quartz wedge plate are equipped.
7. High quality professional polarizing microscope for geology, petroleum, chemicals, mining, metallurgy, pharmacy, polymer, LED and other field.

### Application

BS-5092 series transmitted and (or) reflected polarizing microscopes can be used for university colleges, geology, mining, metallurgy, pharmacy and other institutions for teaching, research and production.

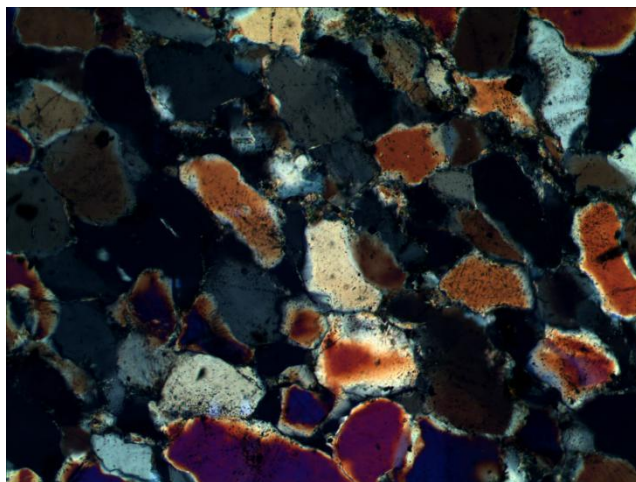
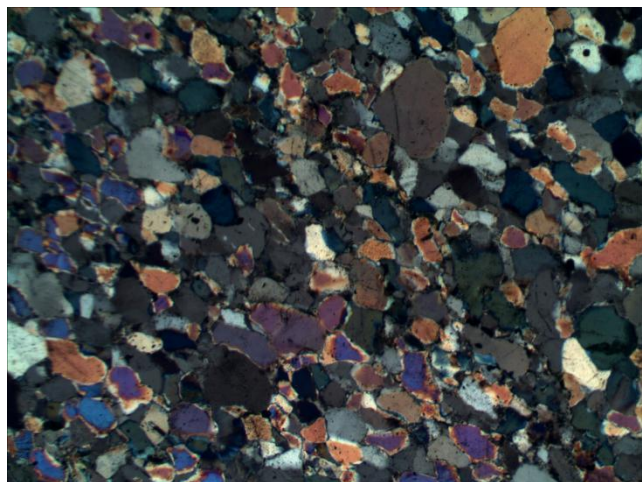


**Specification**

Item	Specification	BS-5092RF	BS-5092TRF
Optical System	Infinite Optical System	●	●
Viewing Head	Seidentopf trinocular head, Inclined at 30°, Interpuillary 48-75mm	●	●
Eyepiece	Plan eyepiece EW10×/22mm	●	●
	Plan eyepiece with scale of crosshair, Plan eyepiece with crosshair, Plan eyepiece with gridding	●	●
Strain-Free Plan Achromatic Objective	5×/0.12/∞/-, WD 15.5mm	●	●
	10×/0.25/∞/-, WD 10.0mm	●	●
	20×/0.4/∞/0, WD 5.8mm	●	●
	50×/0.75/∞/0, WD 0.32mm	●	●
	100×/0.8/∞/0, WD 2mm	●	●
	40×/0.65/∞/0.17, WD 0.54mm		●
	100×/1.25/∞/0.17, WD 0.13mm		●
Nosepiece	Backward quintuple nosepiece, Center adjustable	●	●
Analyzer	0°-360° rotatable analyzer with gradation, minimum gradation: 0.1°	●	●
Conoscopic Observation	Switch between orthoscopic and conoscopic observation, Bertrand lens position adjustable	●	●
Optical Compensator	λ plate (first class red), 1/ 4λ plate, quartz wedge plate	●	●
Polarizing Rotatable Stage	Diameter Φ170mm, center adjustable, 360° scale, minimum division 1°, minimum reading vernier scale 6', 45° click stop knob	●	●
Attachable Stage	Moving range 30mm×40mm	○	○
Condenser	Strain free swing out condenser NA0.9/0.25		●
Focusing	Coaxial coarse & fine adjustment, range 32mm, fine division 0.001mm, coarse stroke 37.7mm per rotation, fine stroke 0.1mm per rotation	●	●
Polarizer	Transmitted: 360° Rotatable, 0° position adjustable		●
	Reflected: Fixed	●	●
Illumination	Reflected light: 24V/100W Halogen lamp, brightness adjustable	●	●
	Transmitted light: 24V/100W Halogen lamp, brightness adjustable		●
Filter	Blue filter Φ45mm		●
	ND6 Neutral density filter Φ45mm		○
	ND25 Neutral density filter Φ45mm		○
	Blue filter Φ25mm	○	○
	ND6 Neutral density filter Φ25mm	○	○
	ND25 Neutral density filter Φ25mm	○	○
Attachment	Video attachment	○	○
	0.01mm micrometer	○	○

Note: ●Standard parts    ○Optional parts

Sample Image



## 6. BS-5095 Research Polarizing Microscope



BS-5095TRF

### Introduction

BS-5095 series scientific research polarizing microscopes have been specially designed for laboratory and scientific research work and university education, the microscopes combine with the practical, easy operation and superior optical system, can be used for single polarization, orthogonal polarization, conoscopic light observation. They can provide you reliable, high resolution and high contrast image. The microscopes can be used for multipurpose polarized light observation in fields such as geology, mineralogy and fossil fuel resource exploration.

### Feature

1. Research-grade Polarizing Microscope with Wide Application Range and High Reliability.
  - (1) Transmission observation: Bright Field, Dark Field, Phase Contrast.
  - (2) Reflection observation: Bright Field, Dark Field, Polarizing, Fluorescent, Phase Contrast (DIC).
  - (3) Multiple Types of Compensators are available.

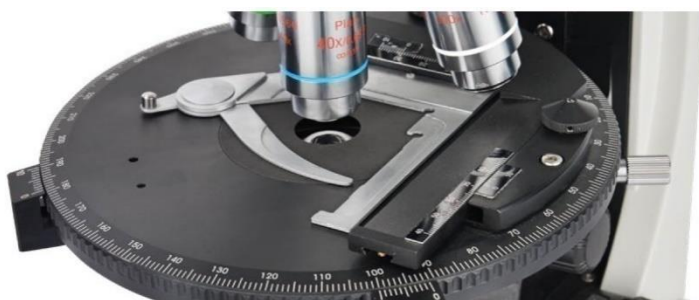


2. Excellent Optical Quality and Strong Stability.
  - (1) Infinite optical system and 10X/25mm eyepiece provide a high definition and wide view field.
  - (2) Kohler Illumination System with Uniform Illumination makes the microscopic imaging more realistic and the results are highly repeatable.

- (3) Strain-free Plan objectives Make Imaging More Accurate.
- (4) Center Adjustable Sextuple Nosepiece allow more objectives.



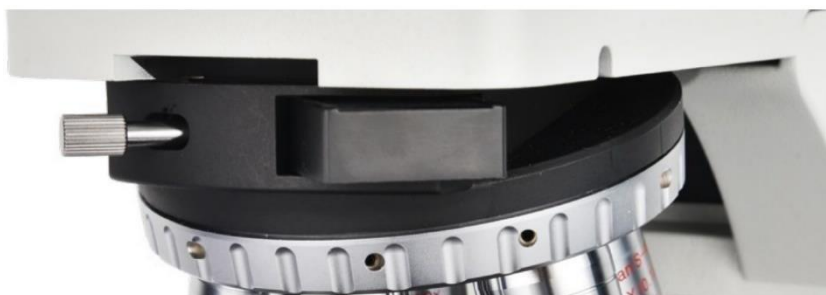
- (5) High-precision Revolving Round Stage, diameter 190mm, pre-centered, attachable X-Y stage is optional.



- (6) The polarizing set includes 0-360° rotatable analyzer, Bertrand lens can switch very quickly from conoscopic and orthoscopic images.



- (6) Compensator Slot on nosepiece. Various compensators can be used to enhance the advanced quantitative measurement of the signal of the weak birefringent material.



- 3. Tilting Seidentopf Trinocular Viewing Head can be operated in a more comfortable position.



4. Rotary Observation Module. Up to 6 observation modules can be placed in the rotating disc structure, different observation method can be quickly switched.



5. ECO Function. The transmitted light would be off automatically after 30 minutes from operators leave. It can save energy and extend the lamp life.



### Application

BS-5095 series polarizing microscopes are ideal instrument in geology, petroleum, coal, mineral, chemicals, semiconductor and pharmaceutical inspection fields. They are widely used in academic demonstration and scientific research areas.

### Specification

Item	Specification	BS-5095	BS-5095 RF	BS-5095 TRF
Optical System	NIS60 Infinite Plan Semi-Apochromatic Optical System	●	●	●
Viewing Head	Seidentopf Trinocular Head, inclined at 30°, 360° Rotatable, Interpupillary Distance: 47-78mm	●	●	●
	Tilting Seidentopf Trinocular Head, inclined at 0-35°, 360° Rotatable, Interpupillary Distance: 47-78mm	○	○	○

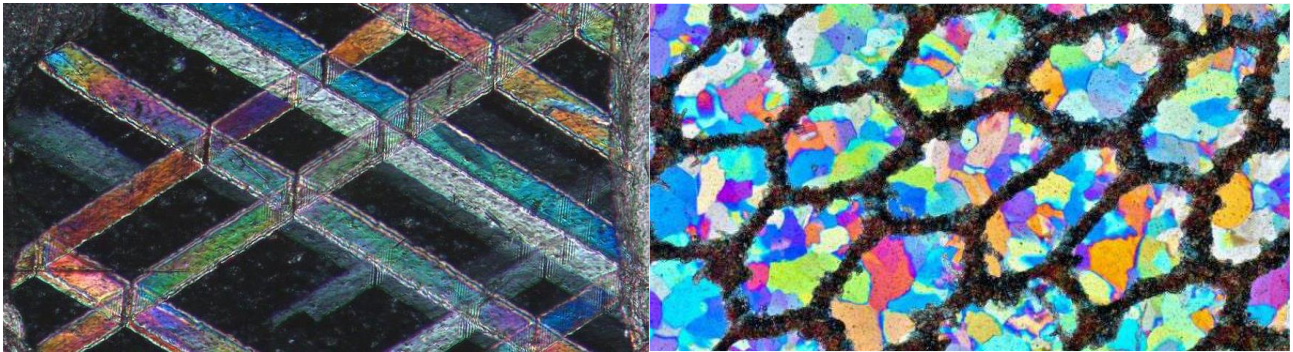


Eyepiece	SW10×/25mm (2 pieces)	●	●	●
	SWF10×/25 with cross line reticle, with fixing pin (1 piece)	●	●	●
	SWF10×/25 with cross line, with fixing pin (1 piece)	●	●	●
	SWF10×/25 with grid reticle, with fixing pin (1 piece)	●	●	●
Infinite Strain Free Plan Achromatic Objective (Transmitted)	4×/0.10 W.D=30.0mm	●		●
	10×/0.25 W.D=10.2mm	●		●
	20×/0.40 W.D=12mm	○		○
	40×/0.65(S) W.D=0.7mm	●		●
	60×/0.80 (S) W.D=0.3mm	○		○
	100×/1.25 (S, Oil) W.D=0.2mm	●		●
LWD Infinite Strain Free Plan Achromatic Objective (Reflected)	5×/0.13 W.D=24mm		●	●
	10×/0.25 W.D=10.2mm		●	●
	20×/0.40 W.D=12mm		●	●
	50×/0.70 (S) W.D=1.95mm		●	●
LWD Infinite Strain Free Semi-APO Plan Objective (Reflected)	5×/0.15 W.D=20mm		○	○
	10×/0.3 W.D=11mm		○	○
	20×/0.45 W.D=3.0mm		○	○
LWD Infinite Strain Free APO Plan Objective (Reflected)	50×/0.80 (S) W.D=1..0mm		○	○
Nosepiece	Backward Sextuple Nosepiece with DIC Slot, center adjustable	●	●	●
Condenser	Strain-free swing out condenser N.A.0.9/0.25	●		●
Transmitted Illumination	Koehler Illumination 12V/100W Halogen Lamp (Input voltage: 100V-240V)	●		●
Reflecting Illumination	Koehler Illumination 12V/100W Halogen Lamp (Input voltage: 100V-240V)		●	●
Focusing	Coaxial Coarse & Fine Adjustment, Fine Stroke 0.1mm, Coarse Stroke 35mm, Fine Division 0.002mm, Sample Space 50mm	●	●	●
Stage	High-precision Revolving Round Stage, Diameter 190mm, Center Adjustable, 360° Rotatable, Minimum Division 1°, Vernier Division 6', 45° Click Stop Knob	●	●	●
Attachable Stage	Attached Mechanical Stage with X-Y movement, Moving Range 30mm×30mm	○	○	○
Analyzer Unit	Rotatable 360°, Minimum Scale Reading: 0.1°(Vernier Scale)	●	●	●
Conoscopic observation	Switch between Orthoscopic and Conoscopic Observation, Bertrand Lens Position Adjustable	●	●	●
Optical Compensator	λ Plate(First Class Red), 1/4λ Plate, Quartz Wedge Plate	●	●	●
Transmitted Polarizer	With Scale, Rotatable 360°, Can Be Locked	●		●
Reflected Polarizer	Fixed Polarizer		●	●
Filter	Blue	●	●	●
	Amber	○	○	○
	Green	○	○	○
	Neutral	○	○	○

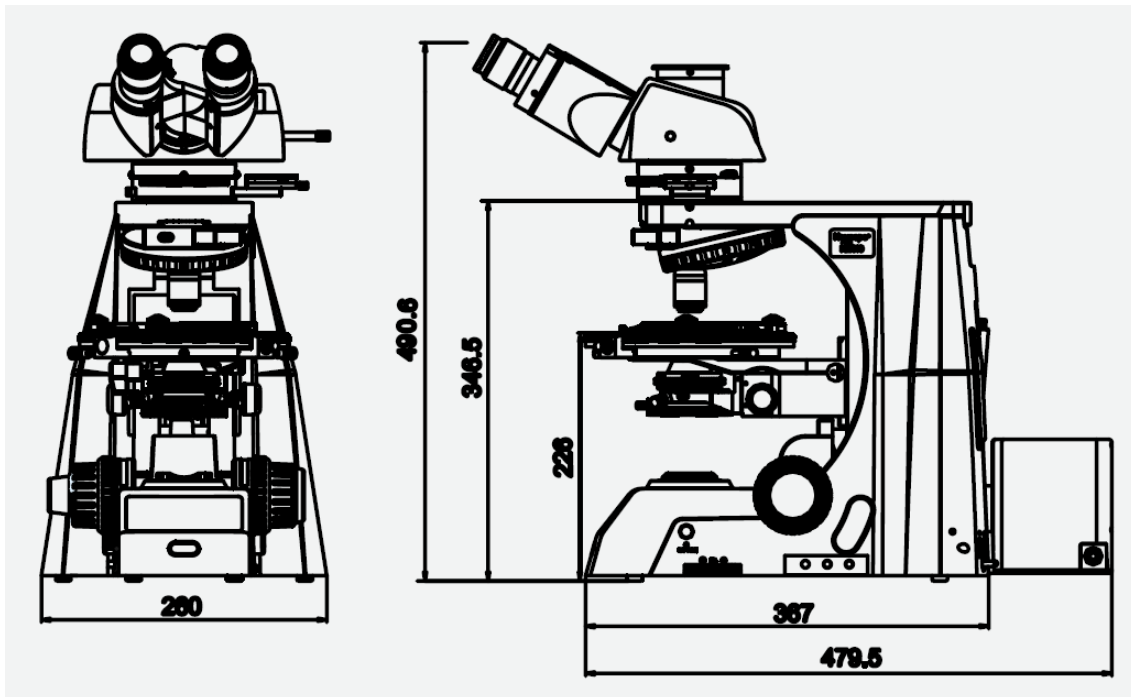
C-mount	1×	○	○	○
	0.5×	○	○	○

Note: ● Standard Outfit, ○ Optional

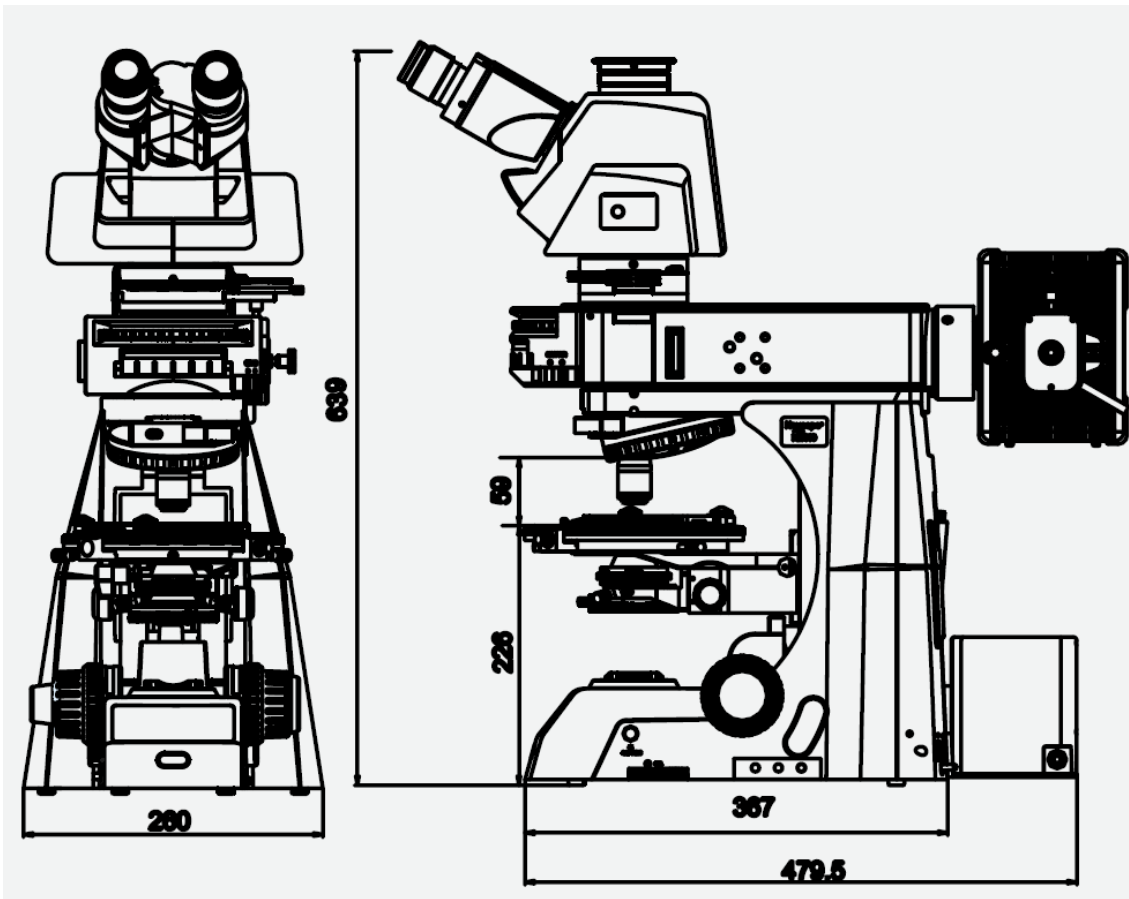
### Sample Image



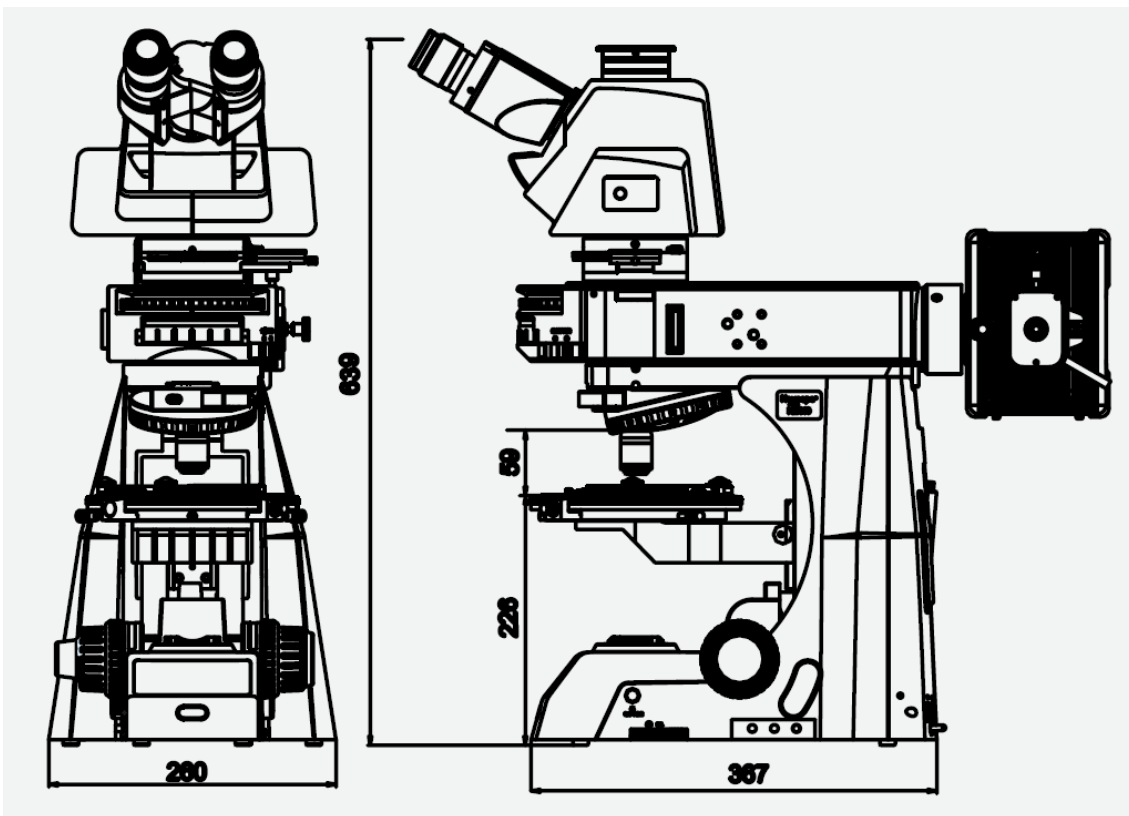
### Dimension



BS-5095



BS-5095RF



BS-5095TRF

## BS-6000 Series Metallurgical Microscope

### 1. BS-6000A Metallurgical Microscope



BS-6000A



BS-6000AT(Transmitted)

### Introduction

BS-6000A series metallurgical microscopes are designed for metallography analysis. With excellent optical system, ingenious stand and convenient operation, they will be your best choice.

### Feature

1. Excellent infinite optical system.
2. High magnification objective with long working distance.
3. Comfortable operation with low position focus knob.
4. Easy, safe and reliable lamp replacement device.

### Application

BS-6000A series metallurgical microscopes are widely used in industrial areas for PCB board, LCD display, metal structure observation and inspection. It also can be used in colleagues for metallography education and research.

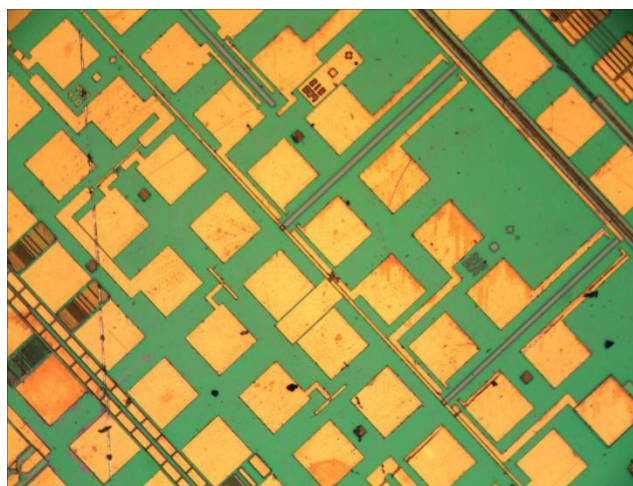
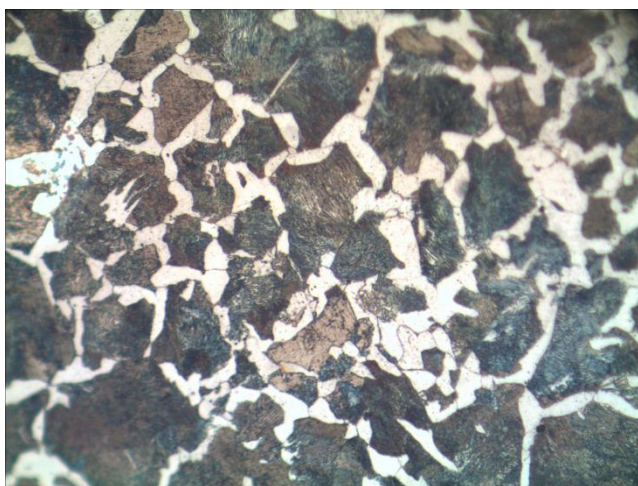
### Specification

Item	Specification	BS-6000A	BS-6000AT
Viewing Head	Seidentopf type binocular head, inclined at 30°, 360° rotatable, interpupillary distance 48-75mm	●	
	Seidentopf type trinocular head, inclined at 30°, 360° rotatable, interpupillary distance 48-75mm, Light distribution: 20:80		●
Eyepiece	WF10×/18mm	●	●
	WF8×/18mm	○	○
	WF10×/18mm with 0.1mm Micrometer & cross hair	○	○
	WF12.5×/15mm	○	○

Infinite Plan Achromatic Objectives	4×/0.1/∞/- WD 17.3mm	●	●
	5×/0.12/∞/- WD 15.5mm	○	○
	10×/0.25/∞/- WD 10.0mm	●	●
	20×/0.40/∞/0 WD 5.8mm	○	○
	40×/0.60/∞/0 WD 2.9mm	●	●
	40×/0.65/∞/0 WD 0.52mm	○	○
	50×/0.75/∞/0 WD 0.32mm	○	○
	80×/0.90/∞/0 WD 0.2mm	○	○
	100×/0.80/∞/0 WD 2mm	○	○
Nosepiece	Quadruple Nosepiece	●	●
Stage	Double layer mechanical stage 150×140mm, moving range 75×50mm	●	●
Focusing	Coaxial Coarse & Fine Adjustment, Fine Division 0.002mm, Coarse Stroke 37.7mm per Rotation, Fine Stroke 0.2mm per Rotation, Range 20mm	●	●
Illumination	Kohler Illumination, Epi-illuminator with iris aperture diaphragm and iris field diaphragm, 6V/20W Halogen lamp, Brightness adjustable	●	●
	Kohler Illumination, Epi-illuminator with iris aperture diaphragm and iris field diaphragm, 3W LED illumination, Brightness adjustable	○	○
	Transmitted Illumination, 6V/20W Halogen Lamp, Brightness Adjustable	○	○
Filters	Blue, Green, Yellow & Ground filters	●	●
Polarizing Set	Polarizer and Analyzer	○	○
Specimen Presser	For metallurgical specimen preparation	○	○
Photo Adapter	Used to connect DSLR camera to the microscope	○	○
Video Adapter	1×, 0.5× C-mount adapter	○	○

Note: ●Standard parts, ○Optional parts

## Sample Image





## 2. BS-6000B Inverted Metallurgical Microscope



BS-6000B



Attachable  
X-Y stage



BS-6000B with double layer X-Y stage

### Introduction

BS-6000B not only can identify and analyze a variety of metals, alloys, non-metallic material and the organizational structure and integrated circuits, but also micro-particles, wires, fibers, surface coating such as some of the surface conditions. Digital cameras can be added to the trinocular tube to take images and make image analysis.

### Features

1. Infinite optical system provides excellent optical functions.
2. With the stable stand structure, advanced stage design and comfortable operation.
3. Double layer X-Y stage is optional.

### Application

BS-6000B is widely used in institutes and laboratories to observe and identify the structure of various metal and alloy, it also can be widely used in electronics, chemical and instrumentation industry, observe the opaque material and transparent material, such as metal, ceramics, integrated circuits, electronic chips, printed circuit boards, LCD panels, film, powder, toner, wire, fibers, plated coatings, other non-metallic materials and so on.

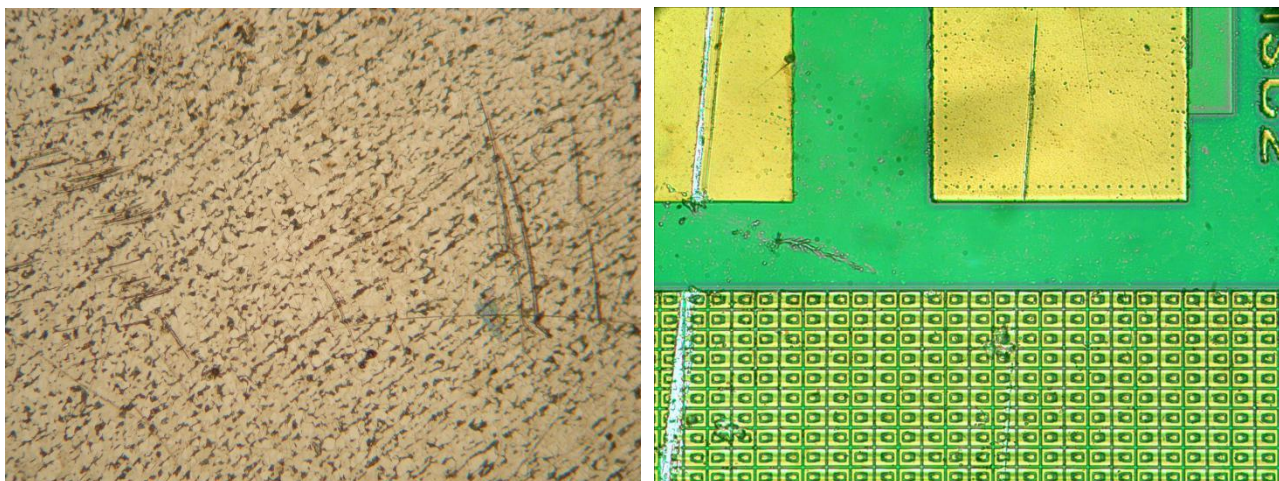
### Specification

Item	Specification	BS-6000B
Optical System	Infinite Optical System	●
Viewing Head	Trinocular head inclined at 30°, interpupillary distance 48-75mm	●
Eyepiece	High-point, extra wide field eyepiece EW10×/ 20mm	●
Infinite Plan Achromatic Objective	4×/ 0.1/∞/- WD 17.3mm	●
	5×/0.12/∞/- WD 15.4mm	○
	10×/0.25/∞/- WD 10.0mm	●
	20×/0.40/∞/0 WD 5.8mm	●

	40×/0.65/∞/0 WD 0.52mm	●
	40×/0.60/∞/0 WD 2.9mm	○
	50×/0.75/∞/0 WD 0.32mm	○
	80×/0.90/∞/0 WD 0.2mm	○
	100×/0.80/∞/0 WD 2mm	○
Nosepiece	Quintuple nosepiece	●
Stage	Plain stage with slide clips 160×250mm	●
	Attachable mechanical stage, X-Y coaxial control, moving range 120×78mm	○
	Double layer mechanical stage 226×178mm, Moving range 50×50mm	○
	Auxiliary stage	○
Focusing	Coaxial coarse & fine adjustment, Vertical objective movement, Coarse stroke 37.7mm per rotation, Fine stroke 0.2mm per rotation, Fine Division 0.002mm. Moving range upto 8mm, down 3mm	●
Kohler Illumination	Halogen lamp 6V/ 30W, Kohler illumination	●
Filter	Blue, Yellow, Green and Frosted filters	●
Polarization Set	Polarizer and Analyzer	●
Specimen Presser	For metallurgical specimen preparation	○
Photo Adapter	Used to connect DSLR camera to the microscope	○
Video Adapter	1×, 0.5× C-mount adapter	○

Note: ●Standard parts, ○Optional parts

### Sample Image



### 3. BS-6002R/TR Metallurgical Microscope



BS-6002TR



BS-6002TTR

#### Introduction

BS-6002R/TR Series metallurgical microscopes are high level professional microscopes which are specially designed for metallurgical analysis. With excellent optical system, ingenious stand and convenient operation, they will be your best choice.

#### Features

1. Infinite optical system provide excellent resolution and definition.
2. Infinite long working distance objective, provide wide space for specimens.
3. Powerful transmitted and reflected system with Kohler illumination.
4. Polarizing attachment and other accessories are available.

#### Application

BS-6002R/TR series metallurgical microscopes are widely used in institutes and laboratories to observe and identify the structure of various metal and alloy, they also can be widely used in electronics, chemical and instrumentation industry, observe the opaque material and transparent material, such as metal, ceramics, integrated circuits, electronic chips, printed circuit boards, LCD panels, film, powder, toner, wire, fibers, plated coatings, and other non-metallic materials and so on.

#### Specification

Item	Specification	BS-6002 BR	BS-6002 BTR
Optical System	Infinite Optical System	•	•
Viewing Head	Seidentopf Binocular Head, Inclined 30°, Rotatable 360°, Interpupillary Distance: 48-76mm, Tube diameter: 30mm	•	•

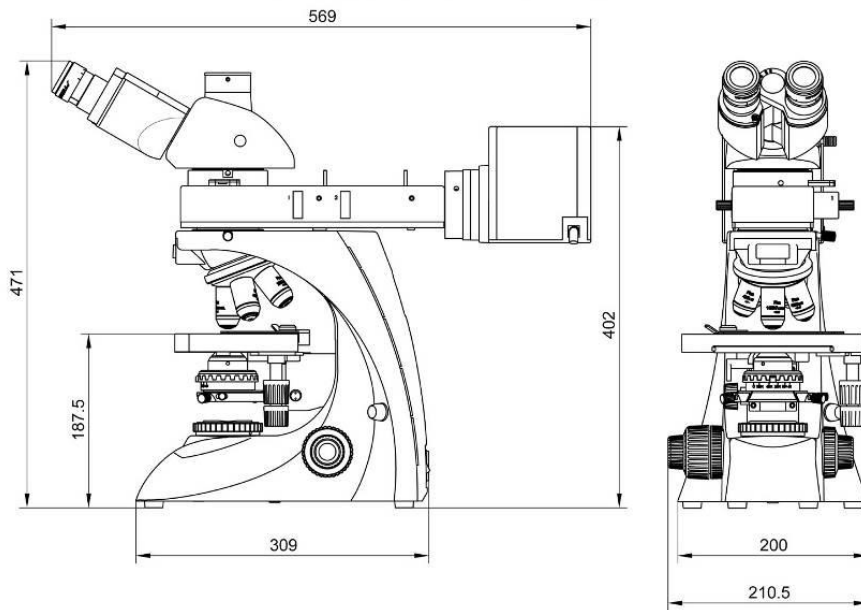
	Seidentopf Trinocular Head, Inclined 30°, Rotatable 360°, Interpupillary Distance: 48-76mm, Tube diameter: 30mm. Light distribution (both): 100:0 (100% for eyepiece), 80:20 (80% for trinocular head and 20% for eyepiece)		○	○
Eyepieces	WF10× / 22mm (adjustable)		●	●
	WF10× / 22mm (adjustable , reticule 0.1mm)		●	●
Long Working Distance Infinite Plan Objective	5×/0.10	W.D=24.23mm	●	●
	10×/0.25	W.D=18.48mm	●	●
	20×/0.40 (S)	W.D=8.35mm	●	●
	40×/0.65 (S)	W.D=3.90mm	○	○
	50×/0.7 (S)	W.D=1.95mm	●	●
	80×/0.80 (S)	W.D=0.85mm	○	○
	100×/0.90 (S)	W.D=1.00mm	○	○
Nosepiece	Backward Quintuple Nosepiece		●	●
Mechanical Stage	Stage size: 200mm × 150mm, Travel range: 77mm × 52mm. Stage fast lowering unit: Up-Down moving range can be increased to 50mm		●	
	Stage size: 182mm × 140mm, Travel range: 77mm × 52mm Two slid holder, Metal plate size: 200mm x 150mm			●
Focus	Coaxial Coarse and Fine Focusing, Fine Division 0.002mm, Fine Stroke 0.2mm per Rotation, Moving Range 25mm. Tightness adjustment, upper distance limiter		●	●
Micrometer	Stage Micrometer 0.01mm		○	○
Polarizing Unit	Polarizing and Analyzer attachment		●	●
Condenser	Abbe N.A. 1.25 with Iris Diaphragm			●
Illumination	Reflected Illumination, 12V/50W Halogen lamp (Input voltage: 100V~240V), Field diaphragm		●	●
	Transmitted Illumination, 6V/20W Halogen lamp (Input voltage: 100V~240V), Field diaphragm, Center adjustable.			●
Filter	Blue		●	●
	Green		○	○
	Amber		○	○
	Grey		○	○
C-mount Adapter	1× C-mount		○	○
	0.5× C-mount (Focus Adjustable)		○	○
Packing	Packing Size: 750×360×450mm, Gross Weight: 16 kgs, Net Weight: 12kgs		●	●

Note: ●Standard Outfit, ○Optional

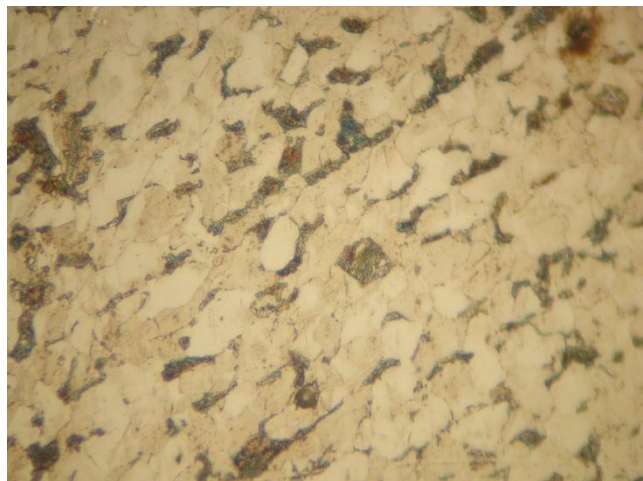
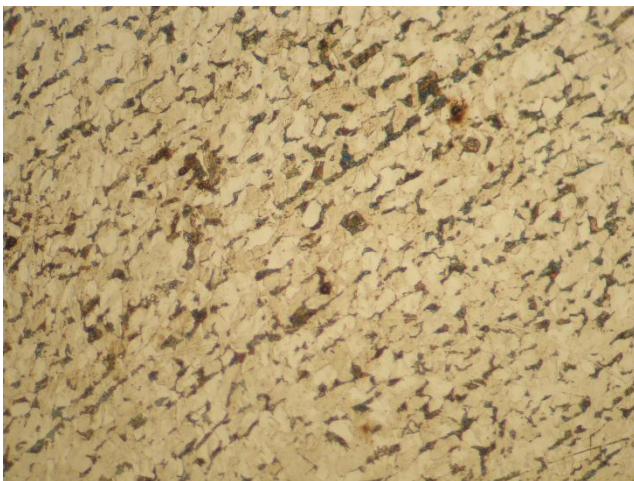


### Dimension

Unit: mm



### Sample Image





## 4. BS-6003 Inverted Metallurgical Microscope



### Introduction

BS-6003 inverted metallurgical microscope is widely used in schools and laboratory to identify and analyze structure of metals and alloys, as well as do researching on metallurgical material after heating.

### Feature

1. Perfect for education, experiment and normal testing.
2. Easy operation, also supply high quality image.

### Specification

Item	Specification	BS-6003M	BS-6003B	BS-6003T
Optical System	Finite optical system	●	●	●
Viewing Head	Monocular viewing head	●	○	○
	Sliding binocular viewing head	○	●	○
	Tinocular viewing head	○	○	●
	Integrated sliding binocular digital head(3.0MP)	○	○	○
Eyepiece	Wide field eyepiece WF10×/18mm	●	●	●
	Wide field eyepiece WF12.5×/14mm	●	●	●
	Wide field eyepiece WF16×/11mm	○	○	○
Objective	Achromatic objective 10×/0.25, WD=6.3mm	●	●	●
	Plan achromatic objective 40×/0.65, WD=0.7mm	●	●	●
	LWD Plan achromatic objective 50×/0.75, WD=2mm	○	○	○
	Achromatic objective 100×/1.25(oil), WD=0.1mm	●	●	●
Nosepiece	Triple nosepiece	●	●	●
Focusing	Coaxial coarse and fine adjustment, Fine division 0.002mm, Focusing range 30mm	●	●	●
Stage	Mechanical stage 180×155mm, Moving range 40×30mm, Stage Clips	●	●	●
Illumination	Kohler illumination, 12V/20W Halogen lamp, brightness adjustable	●	●	●
Filter	Blue, Green, Yellow and Ground filter	●	●	●

Note: ● Standard Outfit, ○ Optional

## 5. BS-6004 Inverted Metallurgical Microscope



### Introduction

BS-6004 inverted metallurgical microscope adopts professional metallurgical objective and plan eyepiece to provide superior image, high resolution and comfortable observation. It is widely used in teaching and research of metallographic analysis, semiconductor silicon wafer inspection, geology mineral analysis, precision engineering and similar fields.

### Feature

1. Low position high precision coaxial focusing system, left and right side can be adjusted. Easy to get a clear and comfortable image. Coarse stroke 38mm, fine focus accuracy 0.002mm.



2. Large size mechanical stage provides a more efficient working environment for the user, right hand operate. Size 180 × 155mm, moving range: 75 × 40mm.



3. Reflected Koehler illumination system with iris diaphragm and centerable field diaphragm, wide range voltage 90-240V, 6V/30W high brightness halogen bulb and long working life LED bulb(optional).



**Specification**

Item	Specification	BS-6004
Optical System	Finite optical system	●
Viewing Head	Trinocular viewing head, 45° inclined, Diopter adjustment ±5 for each side, Interpupillary distance: 54-75mm, light distribution: binocular: trinocular =80%:20%	●
Eyepiece	High eyepoint wide field plan eyepiece PL10×/18mm	●
	High eyepoint wide field eyepiece WF15X/13mm	○
	High eyepoint wide field eyepiece WF20×/10mm	○
Metallurgical Objective	LWD plan achromatic metallurgical objective 5×/0.13, WD=15.5mm	●
	LWD plan achromatic metallurgical objective 10×/0.25, WD=8.7mm	●
	LWD plan achromatic metallurgical objective 20×/0.40, WD=8.8mm	●
	LWD plan achromatic metallurgical objective 50×/0.60, WD=5.1mm	●
	LWD plan achromatic metallurgical objective 100×/0.8, WD=2.0mm	○
Nosepiece	Backward quadruple nosepiece	●
	Backward quintuple nosepiece	○
Focusing	Low position coaxial coarse and fine adjustment. With tightness adjustment. Coarse stroke per rotation 38mm; fine focus accuracy: 2μm.	●
Stage	Three-layers mechanical stage, size 180mm×155mm, right hand low position control, Moving range:75mm× 40mm; Metal stage plate, center hole dia.φ12mm	●
Illumination	Reflected Koehler illumination with iris diaphragm and centerable field diaphragm, wide-range voltage 90-240V, 5W LED bulb, with continuous intensity adjustment.	●
	Reflected Koehler illumination with iris diaphragm and centerable field diaphragm, wide-range voltage 90-240V, 6V/30W halogen bulb, with continuous intensity adjustment.	○
Polarizing kit	Polarizer and the analyzer can be removed from the optical path, the analyzer can be rotated 360°.	○
Video Adapter	1× C-mount adapter, focus adjustable	○
	0.5× C-mount adapter, focus adjustable	●
Filter	Blue filter (φ 32mm)	●

Note: ● Standard Outfit, ○ Optional

## 6. BS-6005 Inverted Metallurgical Microscope



### Introduction

BS-6005 series inverted metallurgical microscopes adopt professional metallurgical objective and plan eyepiece to provide superior image, high resolution and comfortable observation. They combine bright field, dark field and polarizing observation. They are widely used in teaching and research of metallographic analysis, semiconductor silicon wafer inspection, geology mineral analysis, precision engineering and similar fields.

### Feature

1. Dark field objectives are available, make observation in dark & bright field.
2. Wide view field eyepiece, view field up to 22mm for comfortable observation.



3. 12V/50W Halogen lamp provide high intensity illumination, can detect the details better.
4. High quality bright field, bright field&dark field metallurgical objective.



Metallurgical LWD Infinite Plan Objectives



Metallurgical LWD Infinite Plan Objectives for Bright & Dark Field

5. Large size (210 mm×180mm) three-layer working stage, more choice for samples.



6. Light distribution (both): 100 : 0 (100% for eyepiece); 80 : 20 (80% for trinocular head and 20% for eyepiece), easy to use camera and have high definition and high resolution images.



7. Polarizing set is standard.



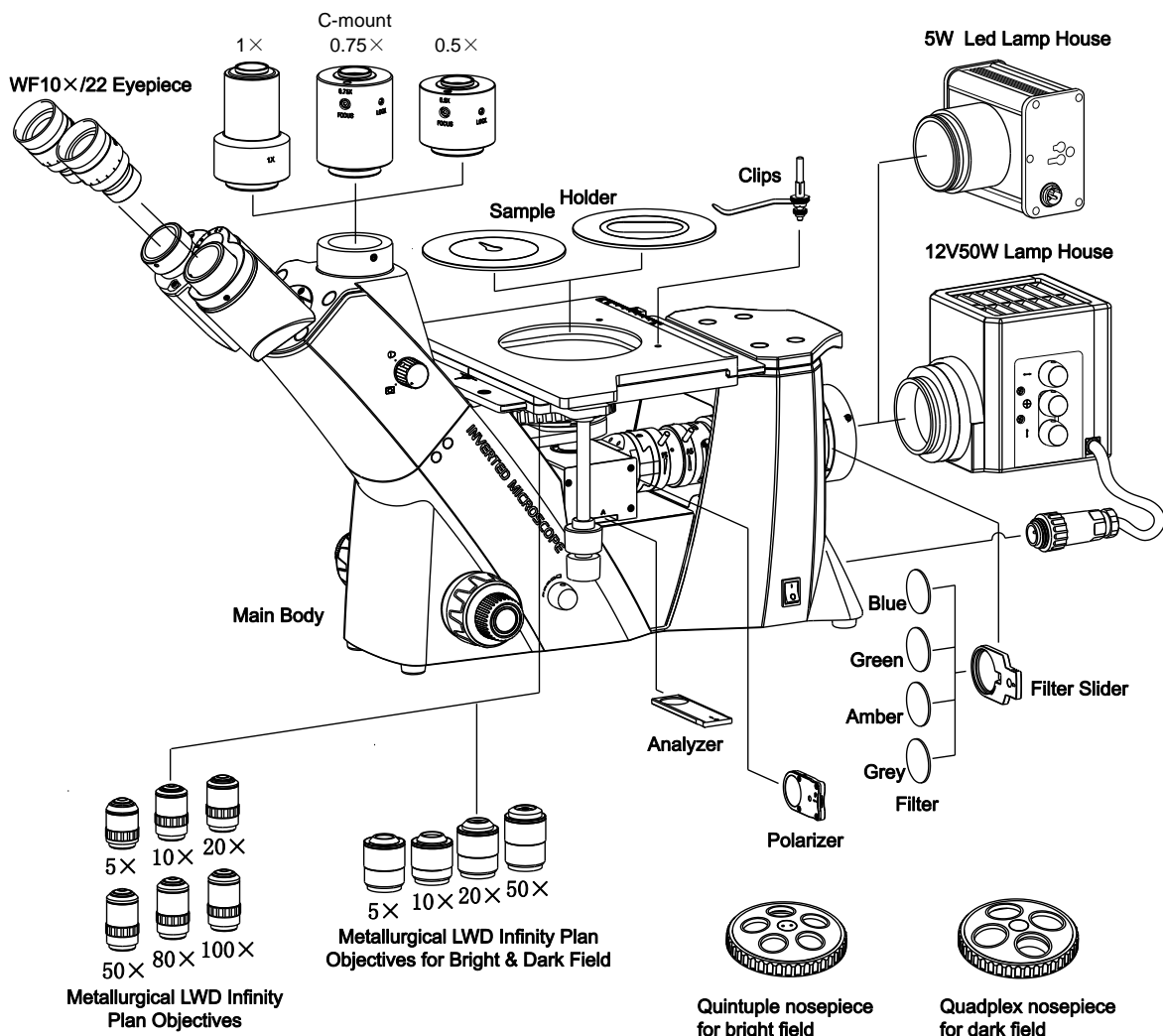
## Specification

Item	Specification	BS-6005	BS-6005D
Optical System	Infinite optical system	●	●
Viewing Head	Seidentopf trinocular viewing head, 45° inclined, Interpupillary distance: 48-76mm, Light distribution (both): 100: 0 (100% for eyepiece), 80:20 (80% for trinocular head and 20% for eyepiece)	●	●
Eyepiece	WF10× / 22mm (adjustable)	●	●
	WF10× / 22mm (adjustable, reticule 0.1mm)	●	●
Metallurgical LWD Infinite Plan Objectives	LPL 5×/0.13, WD=16.04mm	●	○
	LPL 10×/0.25, WD=18.48mm	●	○
	LPL 20×/0.40, WD=8.35mm	●	○
	LPL 50×/0.70, WD=1.95mm	●	○
	LPL 80×/0.80, WD=0.85mm	○	○
	LPL 100×/0.9(Dry), WD=1.1mm	○	○
Metallurgical LWD Infinite Plan Objectives for Bright & Dark Field	M Plan 5×/0.13 BD, WD=16.04mm		●
	M Plan 10×/0.25 BD, WD=18.48mm		●
	M Plan 20×/0.40 BD, WD=8.35mm		●
	M Plan 50×/0.70 BD, WD=1.95mm		●
Nosepiece	Quintuple nosepiece	●	
	Quadruple nosepiece (specially for bright&dark field objectives)		●
Focusing	Low position coaxial coarse and fine adjustment. With tightness adjustment. Coarse stroke per rotation 10mm, fine stroke per rotation 0.2mm; fine division 2μm.	●	●

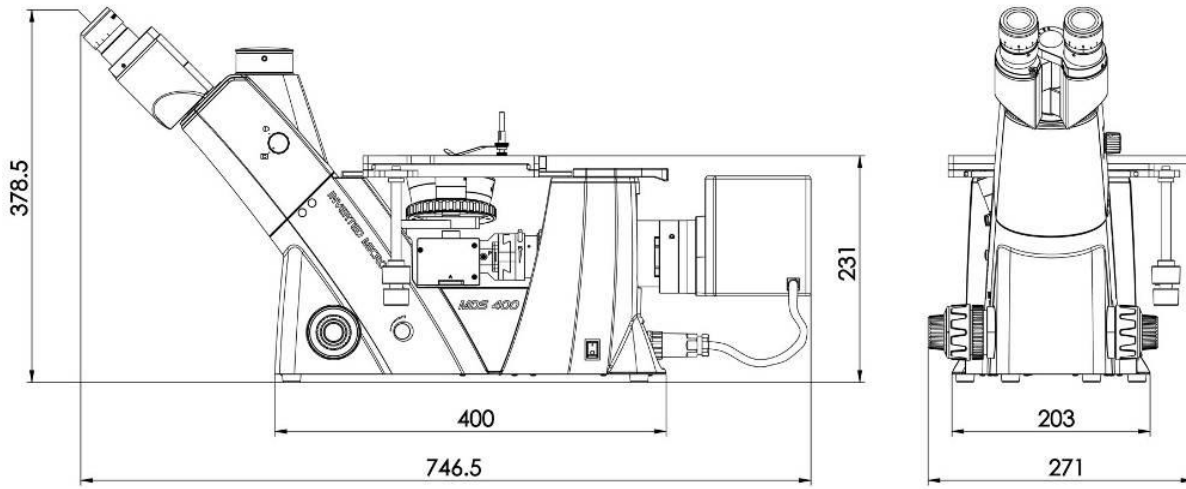
Stage	Three-layers mechanical stage, size 210mm×180mm, right hand low position control, Moving range 50mm× 50mm, scale 0.1mm	●	●
Illumination	Reflected Koehler illumination with iris diaphragm and centerable field diaphragm, 12V/50W Halogen (Input voltage: 100V-240V)	●	●
	Reflected Koehler illumination with iris diaphragm and centerable field diaphragm, 5W LED lamp (Input voltage: 100V-240V)	○	○
Auto power on-off system	Power off automatically upon user leaving 10 minutes, power on automatically upon user approaching	○	○
Polarizing kit	Polarizer and the analyzer	●	●
Filter	Blue filter	●	●
	Green/ Amber/ Grey	○	○
Video Adapter	1× C-mount adapter, focus adjustable	○	○
	0.75× C-mount adapter, focus adjustable	○	○
	0.5× C-mount adapter, focus adjustable	○	○
Packing	Packing Size: 660mm×590mm×325mm, Gross Weight: 17 kgs, Net Weight: 12.5 kgs	●	●

Note: ● Standard Outfit, ○ Optional

### System Diagram



**Dimension**



Unit: mm

## 7. BS-6010R/TR Metallurgical Microscope



BS-6010BR



BS-6010BTR

### Introduction

BS-6010R/TR Metallurgical Microscopes are high level metallurgical microscopes with Reflected / Transmitted & Reflected illumination system, they not only can be used to identify and analyze a variety of metals, alloys, non-metallic material and the organizational structure and integrated circuits, but also can be applied to micro-particles, wires, fibers, surface coating such as some of the surface conditions. Digital cameras can be added to the trinocular tube to take images and make image analysis.

### Feature

1. Infinite optical system provides excellent optical functions.
2. Laboratory metallurgical microscope, including bright field, dark field, polarization and DIC observation system.
3. Powerful transmitted and reflected system with Kohler illumination.
4. Ideal instrument for industry inspection and science research.

### Application

BS-6010R/TR is widely used in institutes and laboratories to observe and identify the structure of various metal and alloy, it also can be widely used in electronics, chemical and instrumentation industry, observe the opaque material and transparent material, such as metal, ceramics, integrated circuits, electronic chips, printed circuit boards, LCD panels, film, powder, toner, wire, fibers, plated coatings, and other non-metallic materials and so on.

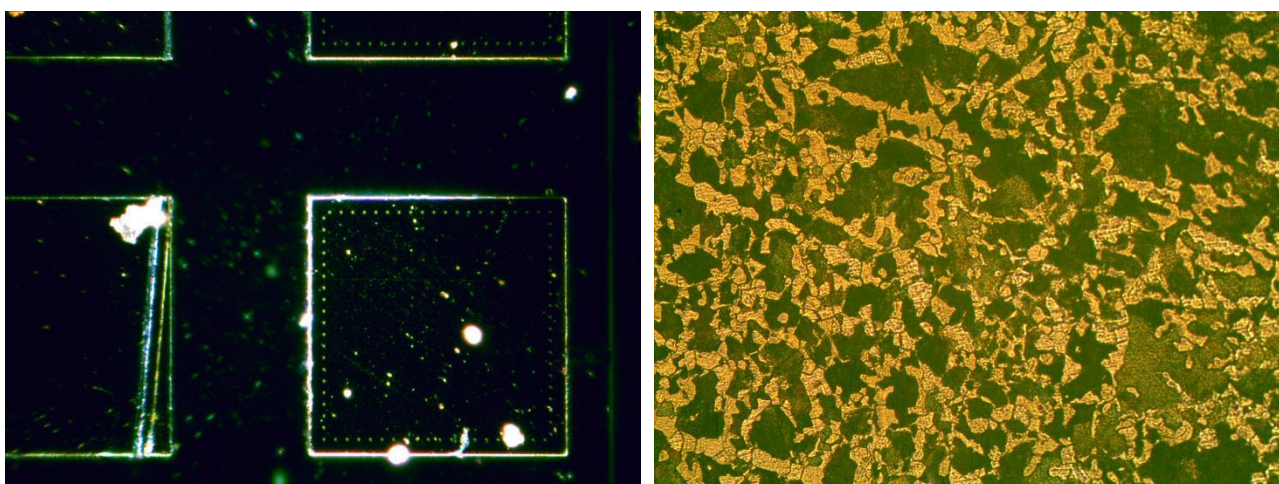
### Specification

Item	Specification	BS-6010BR	BS-6010BTR
Optical System	Infinite Optical System	•	•
Viewing Head	Siedentopf binocular viewing head, inclined at 30°, interpupillary distance 48-75mm	•	•
	Siedentopf trinocular viewing head, inclined at 30°, interpupillary distance 48-75mm	○	○

Extra Wide Field Eyepiece	WF10×/22mm	●	●
	WF10×/22mm Eyepiece with scale of cross hair	●	●
	EW15×/16mm	○	○
	EW20×/12mm	○	○
Infinite Plan Achromatic Objective	5×/0.12/∞/- (BF&DF) LWD 10mm	●	●
	10×/0.25/∞/- (BF&DF) LWD 10mm	●	●
	20×/0.40/∞/0 (BF&DF) LWD 5.0mm	●	●
	50×/0.75/∞/0 (BF&DF) LWD 1.3mm	●	●
	100×/0.90(Dry)/∞/0 (BF&DF) LWD 0.7mm	●	●
	40×/0.65/∞/0.17 (BF) WD 0.6mm		●
	100×/1.25/∞/0.17 (BF) WD 0.16mm		●
Nosepiece	Backward quintuple nosepiece	●	●
Stage	Double layer mechanical stage 216×150mm, Moving range 78×54mm		●
	Double layer mechanical stage 188×148mm, Moving range 78×54mm	●	
Focusing	Coaxial coarse & fine adjustment, fine division 2μm, moving range 30mm	●	●
Kohler Illumination	Reflected 12V/50W Halogen light, Center and brightness adjustable	●	●
	Transmitted 12V/20W Halogen light, Center and brightness adjustable		●
	Polarizer and analyzer	●	●
	DIC attachment	○	○
	Green, Gray and ground glass filter	●	●
Accessories	Specimen Presser	○	○
	Photo Adapter(Used to connect DSLR camera to the microscope)	○	○
	0.5× Video adapter with C-mount	●	●
	Stage Micrometer 0.01mm	●	●

Note: ●Standard parts, ○Optional parts

## Sample Images





## 8. BS-6012RF/TRF Laboratory Metallurgical Microscope



BS-6012RF/TRF

### Introduction

BS-6012RF/TRF metallurgical microscopes are high level professional microscopes which are specially designed for metallurgical analysis and industrial inspections. With excellent optical system, ingenious stand and convenient operation, they will be your best choice.

### Feature



1. With the most suitable viewing degree, 30 °inclined head holds everyone in the best working state, less tension and fatigue. You can adjust the interpupillary distance to optimum according to the scale on viewing head.
2. Reflected illuminator with field/aperture diaphragm and oblique light device, as well as slots for polarizing kit and filters, adopts Koehler illumination system.
  - 2.1 Comparing with other LED, single 5W LED with warm white light(3000-3300K) greatly reduces the fatigue on observer's vision.
  - 2.2 With pull-rod devices for adjusting the centers of field and aperture diaphragm, stray light can be eliminated by expanding or shrinking the illumination zone.
  - 2.3 Simple polarizing observation is available with insert polarizer kit. More ideal images are here with different filters.
3. The highest sample can be tested is 28mm with transmitted & reflected frame while 78mm high sample is available with reflected frame, as the stage can be dropped 50mm by loosening the screw in the stage holder.
4. M4 wrench for socket head screws places in the frame, making the best of the available space and improving your working efficiency.
5. Up-limit device is helpful to avoid the damage caused by impact between sample and objective lens.
6. Using the outstanding swing-out condenser system, much more transmitted light can be through with bigger numerical.

## Application

BS-6012RF/TRF are widely used in institutes and laboratories to observe and identify the structure of various metal and alloy, they also can be widely used in electronics, chemical and instrumentation industry, observe the opaque material and transparent material, such as metal, ceramics, integrated circuits, electronic chips, printed circuit boards, LCD panels, film, powder, toner, wire, fibers, plated coatings and other non-metallic materials and so on.

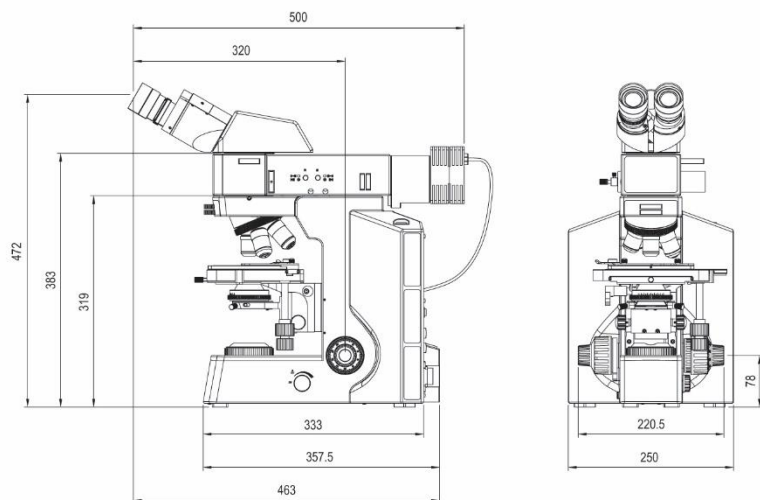
## Specification

Item	Specification	BS-6012RF	BS-6012TRF
Optical System	Infinite optical system, Tube length 180mm, parfocal distance 45mm	●	●
Viewing Head	Siedentopf trinocular viewing head, inclined at 30°, interpupillary distance 54mm-75mm, left diopter ±5 adjustable, splitting ratio R:T=100:0 or 50:50, eyepiece tube Φ30mm	●	●
	Siedentopf binocular viewing head, inclined at 30°, interpupillary distance 54mm-75mm, left diopter ±5 adjustable, eyepiece tube Φ30mm	○	○
Eyepiece	High eye-point wide field plan eyepiece PL10×/22mm	●	●
	High eye-point wide field plan eyepiece PL10×/22mm, with reticle	○	○
	High eye-point wide field plan focusing eyepiece PL10×/22mm	○	○
	High eye-point wide field plan eyepiece PL15×/16mm	○	○
Infinite LWD Plan	5×/ 0.15/∞/ 0 (BF)      WD 10.80mm	●	●

Achromatic	10×/ 0.30/∞/ 0 (BF)    WD 10.0mm	●	●
Metallurgical	20×/ 0.45/∞/ 0 (BF)    WD 4.00mm	●	●
Objective	50×/ 0.55/∞/ 0 (BF)    WD 7.90mm	●	●
	100×/ 0.80/∞/ 0 (BF)    WD 2.10mm	●	●
Nosepiece	Backward quintuple nosepiece	●	●
Maximum	28mm		●
Sample Height	78mm	●	
Frame and Focusing	Transmitted & Reflected frame, coaxial focus system with tension adjustment and up-limited device, moving range: 28mm, fine precision: 0.002mm. Stage can be adjusted up and down, 28mm high sample is available.		●
	Reflected frame, coaxial focus system with tension adjustment and up-limited device, moving range: 28mm, fine precision: 0.002mm. Stage can be adjusted up and down, 78mm high sample is available.	●	
Stage	Double layer mechanical stage with X-Y coaxial adjustment, size: 175mm×145mm, moving range: 76mm×42mm.	●	●
	Metal plate for reflected frame	●	●
	Glass plate for transmitted & reflected frame		●
Reflected Illumination	Wide-range voltage 100V-240V, AC50/60Hz, reflected lamp-house with single 5W LED, warm color. Koehler illuminator with oblique light device, center adjustable field and aperture diaphragm	●	●
Transmitted Illumination	Wide-range voltage 100V-240V, AC50/60Hz, transmitted lamp-house with single 5W LED, warm color.		●
Condenser	N.A.0.9 swing-out achromatic condenser for transmitted frame, with center adjustable aperture iris diaphragm.		●
Polarizing Attachment	Polarizer plate (for reflected illumination, Φ30mm)	○	○
	360° rotatable analyzer plate	○	○
	Polarizer plate (for transmitted illumination, Φ40mm)	○	○
Other Accessories	Yellow/neutral/IF550/LBD filter(Φ45mm) for transmitted light		○
	Digital camera adapter: 1×, 0.67×, 0.5×, 0.35× focusing C-mount adapter	○	○
	3.2X photo eyepiece	○	○
	Photo tube with PK or MD mount for DSLR camera	○	○
	Relay lens	○	○
	Interference filter for reflected light: Blue filter ≤ 480nm; Green filter 520nm~570nm; Red filter 630~750nm; White balance filter	○	○
High precision micrometer, scale value 0.01mm	○	○	

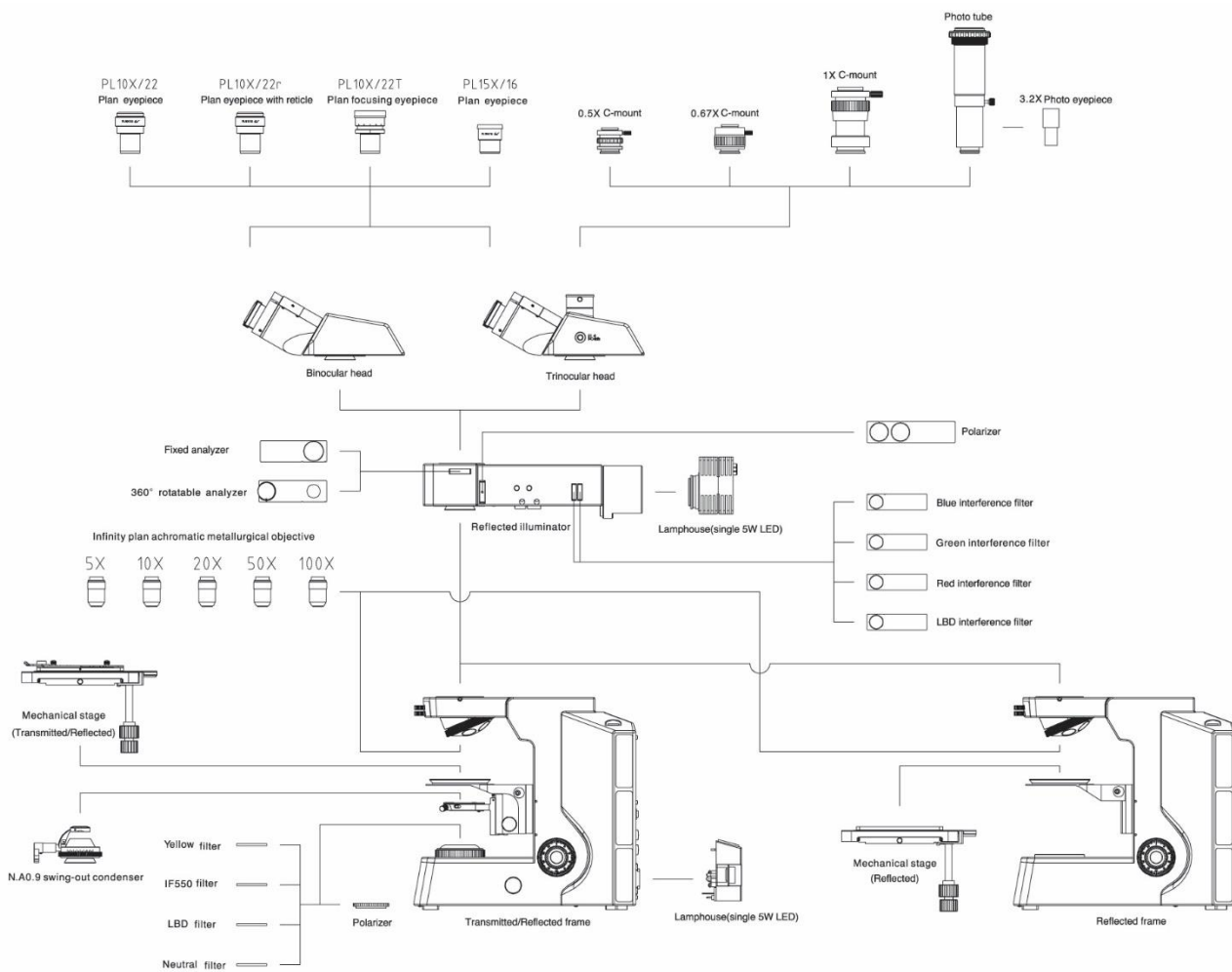
Note: ●Standard Outfit, ○Optional

### Dimension



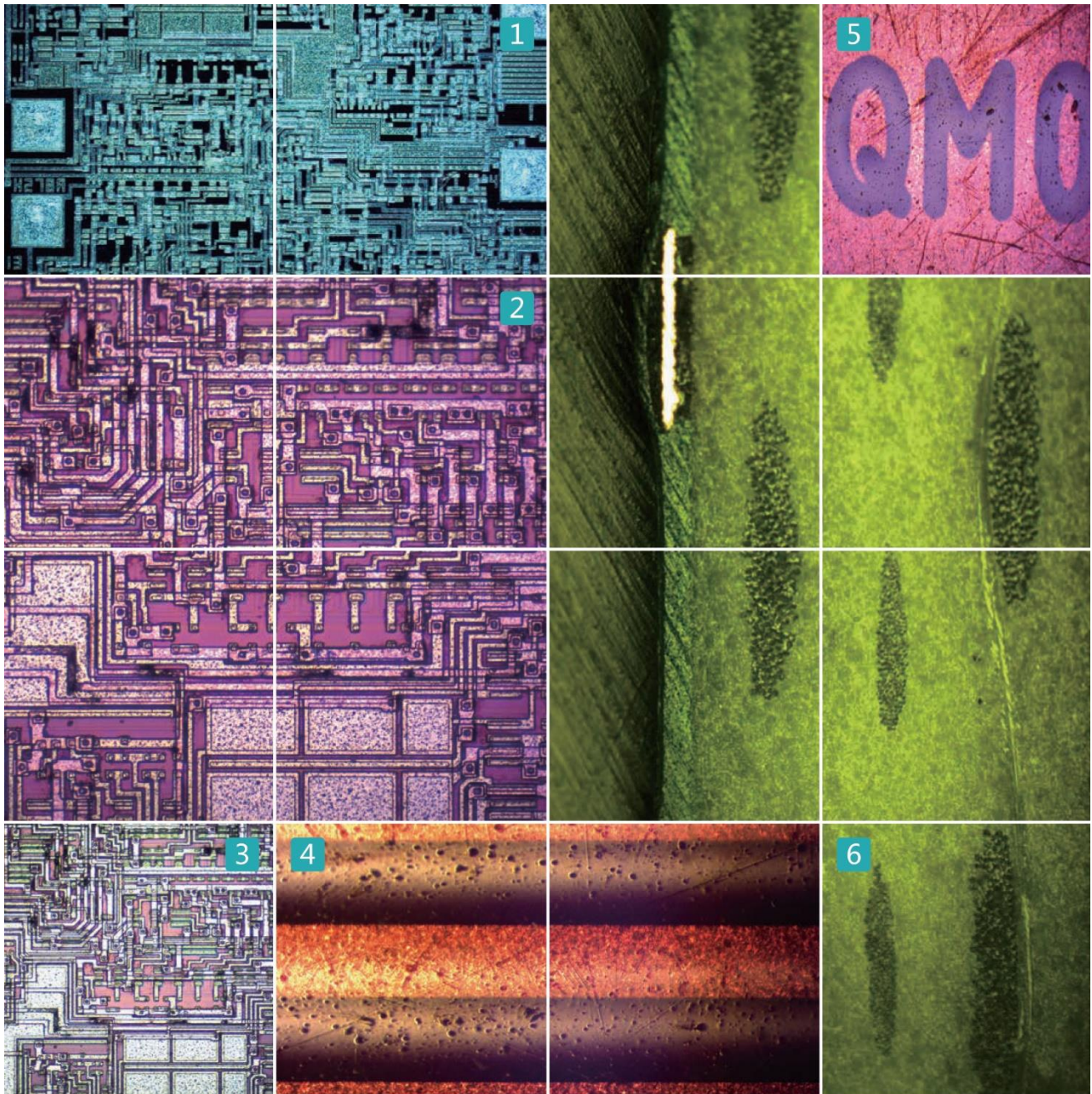
Unit: mm

### System Diagram





Sample Image



1,2,3 are Bright field image  
 4,5 are Oblique light image  
 6 is Simple polarizing image



## 9. BS-6020RF/TRF Laboratory Metallurgical Microscope



BS-6020TRF

### Introduction

BS-6020RF/TRF metallurgical microscopes are high level professional microscopes which are specially designed for metallurgical analysis. With excellent optical system, ingenious stand and convenient operation, they will be your best choice.

### Feature

1. Laboratory metallurgical microscope, including bright field, dark field and polarization observation system.
2. Powerful transmitted and reflected system with Kohler illumination.
3. Ideal instrument for metallurgical analysis, industry inspection and science research.

### Application

BS-6020RF/TRF are widely used in institutes and laboratories to observe and identify the structure of various metal and alloy, they also can be widely used in electronics, chemical and instrumentation industry, observe the opaque material and transparent material, such as metal, ceramics, integrated circuits, electronic chips, printed circuit boards, LCD panels, film, powder, toner, wire, fibers, plated coatings, and other non-metallic materials and so on.

**Specification**

Item	Specification	BS-6020RF	BS-6020TRF
Optical System	Infinite optical system	●	●
Viewing Head	Siedentopf trinocular viewing head, inclined at 30°, interpupillary distance 48mm-75mm	●	●
Eyepiece	Extral wide field eyepiece EW10×/22mm, eyepiece tube Ø30mm	●	●
Infinite Plan Achromatic Objective	5×/ 0.12/∞/ - (BF) WD 15.5mm	●	●
	10×/ 0.25/∞/ - (BF&DF) WD 10.0mm	●	●
	20×/ 0.4/∞/ 0 (BF&DF) WD 4.3mm	●	●
	50×/ 0.75/∞/ 0 (BF) WD 0.32mm	●	●
	100×/ 0.8/∞/ 0 (BF) WD 2mm	●	●
	40×/ 0.65/∞/ 0.17 WD 0.54mm		●
	100×/ 1.25/∞/ 0.17 WD 0.13mm		●
	5×/ 0.12/∞/ - (BF&DF) WD 12mm	○	○
	40×/ 0.6/∞/ 0 (BF&DF) WD 2.9mm	○	○
	50×/ 0.75/∞/ 0 (BF&DF) WD 0.32mm	○	○
100×/ 0.8/∞/ 0 (BF&DF) WD 2mm	○	○	
Maximum Sample Height	30mm		●
	50mm	●	
Reflected Light	24V/100W Halogen light, Brightness adjustable	●	●
	Kohler illumination and aspherical condenser	●	●
	Polarizer and analyzer	○	○
	An integrate device for polarizer and analyzer	○	○
	Blue, Green, Yellow and Ground glass filter	●	●
Transmitted Light	Swing-out condenser NA0.9/ 0.25		●
	24V/100W Halogen light and aspherical condenser		●
	Blue filter		●
Filter	ND25, ND6	○	○
Focusing	Coaxial Coarse and Fine Adjustment, Fine Division 0.001mm, Coarse Stroke 37.7mm per Rotation, Fine Stroke 0.1mm per Rotation, Moving Range 30mm	●	●
Nosepiece	Backward quintuple nosepiece	●	●
Stage	Double layer mechanical stage(without hole) 186×138mm/ 74mm×50mm	●	
	Double layer mechanical stage 186×138mm/ 74mm×50mm		●
	Glass specimen preparation plate	○	○
	Specimen preparation plate		●
	Slide glass		●
Accessories	Specimen Presser	○	○
	Photo Attachment	○	○
	Video Attachment, C-mount 1×, 0.5×	○	○

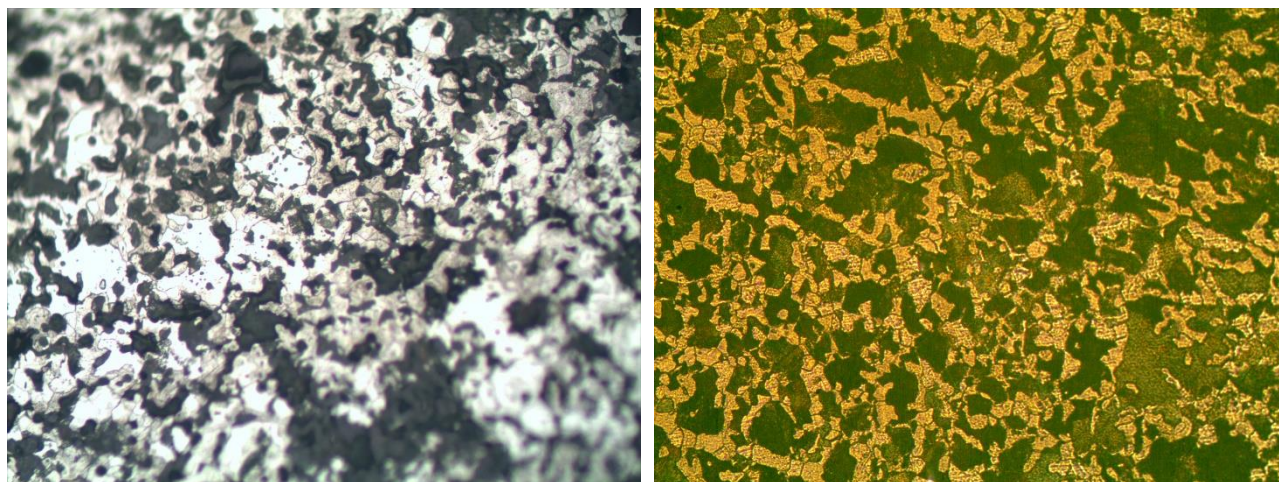
Note: ●Standard Outfit, ○Optional

**Accessory**



Specimen Presser

**Sample Image**



## 10. BS-6022RF/TRF Laboratory Metallurgical Microscope



BS-6022TRF

### Introduction

BS-6022RF/TRF metallurgical microscopes are high level professional microscopes which are specially designed for metallurgical analysis. With excellent optical system, ingenious stand and convenient operation, they will be your best choice. DIC observation attachment is optional for these microscopes to meet some special requirements.

### Features

1. Laboratory metallurgical microscope, including bright field, dark field and polarization observation system, DIC attachment is also optional.
2. Powerful transmitted and reflected system with Kohler illumination.
3. Ideal instrument for metallurgical analysis, industry inspection and science research.

### Application

BS-6022RF/TRF are widely used in institutes and laboratories to observe and identify the structure of various metal and alloy, they also can be widely used in electronics, chemical and instrumentation industry, observe the opaque material and transparent material, such as metal, ceramics, integrated circuits, electronic chips, printed circuit boards, LCD panels, film, powder, toner, wire, fibers, plated coatings, and other non-metallic materials and so on.

**Specification**

Item	Specification	BS-6022RF	BS-6022TRF
Optical System	Infinite optical system	●	●
Viewing Head	Siedentopf trinocular viewing head, inclined at 30°, interpupillary distance 48mm-75mm	●	●
Eyepiece	Extral wide field eyepiece EW10×/22mm, eyepiece tube Φ30mm	●	●
Infinite Plan Achromatic Objective	5×/ 0.12/∞/ - (BF&DF) WD 12mm	●	●
	10×/ 0.25/∞/ - (BF&DF) WD 10.0mm	●	●
	20×/ 0.4/∞/ 0 (BF&DF) WD 4.3mm	●	●
	40×/ 0.65/∞/ 0.17 WD 0.54mm		●
	100×/ 1.25/∞/ 0.17 WD 0.13mm		●
	40×/ 0.6/∞/ 0 (BF&DF) WD 2.9mm	○	○
	50×/ 0.75/∞/ 0 (BF&DF) WD 0.32mm	●	●
	100×/ 0.8/∞/ 0 (BF&DF) WD 2mm	●	●
DIC Attachment	20×, 100×	○	○
Maximum Sample Height	30mm		●
	50mm	●	
Reflected Light	24V/100W Halogen light, Brightness adjustable	●	●
	Kohler illumination and aspherical condenser	●	●
	Polarizer and analyzer	○	○
	An integrate device for polarizer and analyzer	○	○
	Blue, Green, Yellow and Ground glass filter	●	●
Transmitted Light	Swing-out condenser NA0.9/ 0.25		●
	24V/100W Halogen light and aspherical condenser		●
	Blue filter		●
Filter	ND25, ND6	○	○
Focusing	Coaxial Coarse and Fine Adjustment, Fine Division 0.001mm, Coarse Stroke 37.7mm per Rotation, Fine Stroke 0.1mm per Rotation, Moving Range 30mm	●	●
Nosepiece	Backward quintuple nosepiece	●	●
Stage	Double layer mechanical stage(without hole) 186×138mm/ 74mm×50mm	●	
	Double layer mechanical stage 186×138mm/ 74mm×50mm		●
	Glass specimen preparation plate	○	○
	Specimen preparation plate		●
	Slide glass		●
Accessories	Specimen Presser	○	○
	Photo Attachment	○	○
	Video Attachment, C-Mount 1×, 0.5×	○	○
	0.01mm stage micrometer	○	○

Note: ●Standard Outfit, ○Optional



**Accessory**

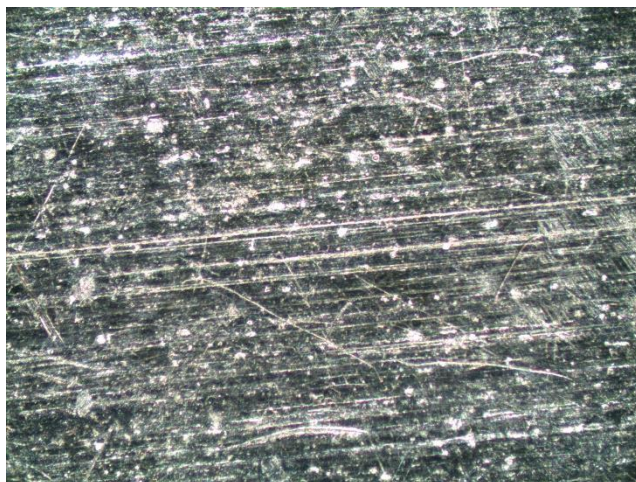
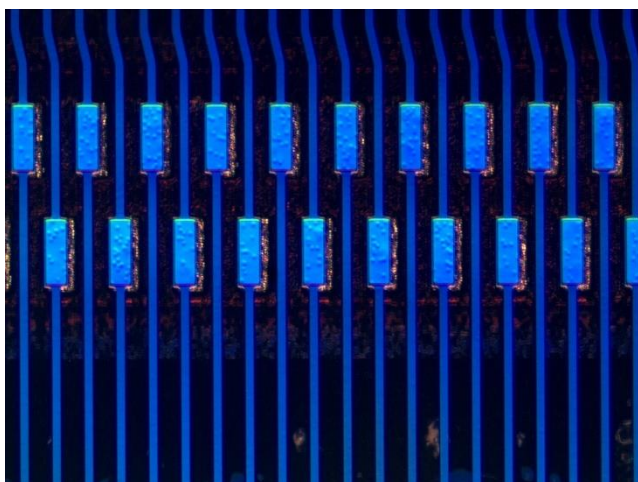


Specimen Presser



DIC Attachment

**Sample Image**



## 11. BS-6023B/BD Metallurgical Microscope



BS-6023BD

### Introduction

BS-6023B/BD metallurgical microscopes are high level professional microscopes which are specially designed for metallurgical analysis. These microscopes can be used for bright field, dark field, polarizing and DIC observation. With compact structure, excellent optical system and abundant outfit, they can be your best support in research and daily work. The structure is convenient for large-size and thick specimens.

### Feature

1. Can be used for bright field, dark field, simple polarization and DIC observation, compact and flexible.
2. Halogen light, 150W cold light source, 40W LED cold light source are available, the brightness is sufficient to meet a variety of observation requirements.
3. Large base, high column. Convenient for large-size LCD panel, PCB board and thicker or larger sample observation.
4. Ideal instrument for metallurgical analysis, industry inspection and science research.

### Application

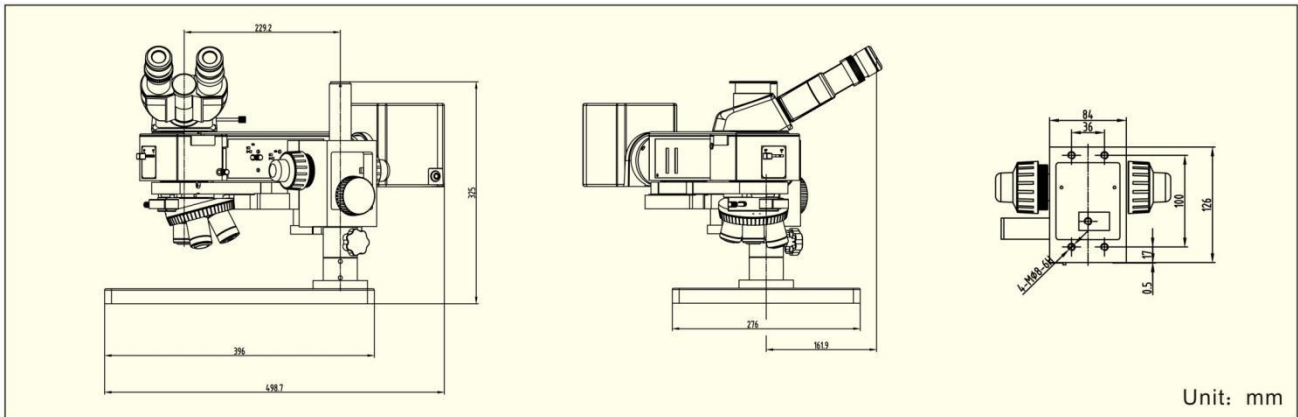
BS-6023B/BD are widely used in institutes and laboratories to observe and identify the structure of various metal and alloy, they also can be used in electronics, chemical and instrumentation industry, observe the opaque material and transparent material, such as metal, ceramics, integrated circuits, electronic chips, printed circuit boards, LCD panels, film, powder, toner, wire, fibers, plated coatings, other non-metallic materials and so on.

**Specification**

Item	Specification	BS-6023B	BS-6023BD
Optical System	Infinite optical system	●	●
Viewing Head	Siedentopf trinocular viewing head, inclined at 30°, rotate 360°, interpupillary distance 48mm-75mm, light distribution: 80:20	●	●
Eyepiece	Extra wide field eyepiece EW10×/22mm, eyepiece tube Φ30mm	●	
Infinite Plan Achromatic Objective	5×/ 0.12/∞/ - (BF) WD 15.5mm	●	
	10×/ 0.25/∞/ - (BF) WD 10.0mm	●	
	20×/ 0.4/∞/ 0 (BF) WD 5.8mm	●	
	50×/ 0.75/∞/ 0 (BF) WD 0.32mm	●	
	100×/ 0.8/∞/ 0 (BF) WD 2.0mm	●	
	5×/ 0.12/∞/ - (BF&DF) WD 12.0mm		●
	10×/ 0.25/∞/ - (BF&DF) WD 10.0mm		●
	20×/ 0.4/∞/ 0 (BF&DF) WD 4.3mm		●
	50×/ 0.75/∞/ 0 (BF&DF) WD 0.32mm		●
	100×/ 0.8/∞/ 0 (BF&DF) WD 2.0mm		●
DIC	DIC Attachment 20×, 100×	○	○
Reflected Light	24V/100W Halogen light, Brightness adjustable	●	●
	150W Cold Light, Brightness adjustable	○	○
	40W LED illumination, Brightness adjustable	○	○
	Polarizer and analyzer	○	○
	Blue, Green, Yellow and Frosted filter	●	●
Focusing	Coaxial coarse and fine adjustment, Fine Division 0.001mm, Moving Range 32mm	●	●
Nosepiece	Backward quintuple nosepiece	●	●
Stand	Size of the base: 396×276mm×22mm, the height of the column 300mm, diameter 30mm	●	●
Accessories	Specimen Presser	○	○
	Photo Attachment for Nikon or Canon DSLR camera	○	○
	Video Attachment, C-Mount 1×, 0.5×	○	○

Note: ●Standard Outfit, ○Optional

Dimension



Accessory

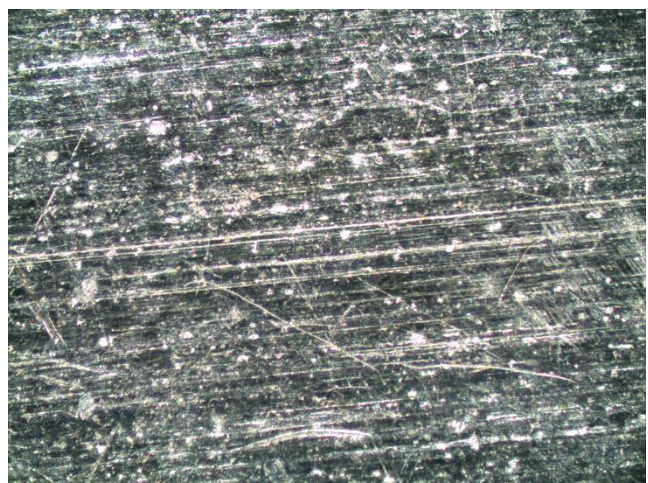
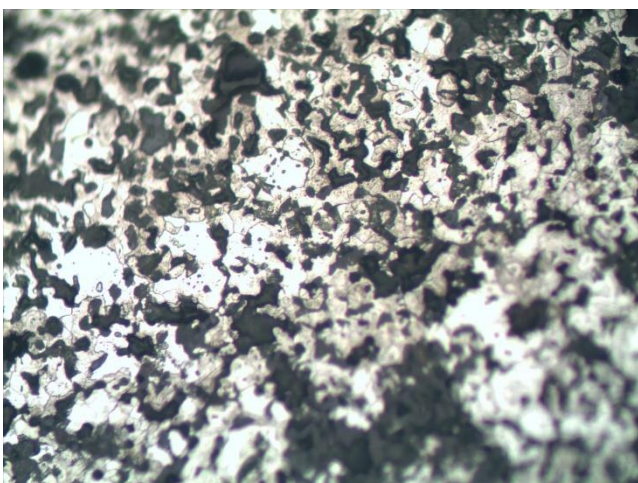


Specimen Presser



DIC Attachment

Sample Image





## 12. BS-6030 Inverted Metallurgical Microscope



### Introduction

BS-6030 Inverted Metallurgical Microscope is a research level metallurgical microscope, it can identify and analyze not only a variety of metals, alloys, non-metallic material and the organizational structure and integrated circuits, but also micro-particles, wires, fibers, surface coating and so on. Digital cameras can be added to the trinocular tube to take images and make image analysis. DIC observation is optional.

### Feature

1. Infinite optical system provides excellent optical functions.
2. DIC observation is optional.
3. Meet most of your requirements by high performance optical system, technological innovation and high stability.

### Application

BS-6030 can be used in institutes and laboratories to observe and identify the structure of various metal and alloy, it also can be widely used in electronics, chemical and instrumentation industry, observe the opaque material and transparent material, such as metal, ceramics, integrated circuits, electronic chips, printed circuit boards, LCD panels, film, powder, toner, wire, fibers, plated coatings, and other non-metallic materials and so on.



**Specification**

Item	Specification	BS-6030
Optical System	Infinite optical system	●
Viewing Head	Siedentopf trinocular head, inclined at 30°, interpupillary distance 48-75mm	●
Extra Wide Field Eyepiece	WF10×/ 22mm	●
	WF10×/ 20mm Eyepiece with scale of cross hair	●
	WF15×/ 16mm	○
	WF20×/ 12mm	○
Infinite LWD Plan Achromatic Objective	5×/0.12/∞/0 (BF/DF) LWD 10.0mm	●
	10×/0.25/∞/0 (BF/DF) LWD 10.0mm	●
	20×/0.40/∞/0 (BF/DF) LWD 5.0mm	●
	50×/0.75/∞/0 (BF/DF) LWD 1.3mm	●
	100×/0.90/∞/0 (BF/DF) LWD 0.7mm	●
Nosepiece	Backward quintuple nosepiece	●
Stage	Double layer mechanical stage 226×178mm, Moving range 40mm×40mm	●
	Small stage plate, Φ20mm, Φ30mm, water drop type	●
Focusing	Coaxial coarse & fine adjustment, fine division 2μm, move up 1mm, down 7mm	●
Kohler Reflected Illumination	12V/50W Halogen light, center and brightness adjustable	●
	Polarizer and analyzer	●
	DIC attachment	○
	Built-in Green, Blue, Yellow, Gray and Ground glass filters	●
Optional Accessories	Photo Adapter(Used to connect Nikon/Canon DSLR camera to the microscope)	○
	0.5× C-mount Video Adapter	●
	Micrometer scale 0.01mm	●

Note: ●Standard parts ○Optional parts

## 13. BS-6060 Metallurgical Microscope



### Introduction

BS-6060 series metallurgical microscopes are developed for research with a number of pioneering design in appearance and functions, with wide field of view, high definition and bright & dark field semi-apochromatic metallurgical objectives, they are born to provide a perfect detection solution and develop a new pattern of industrial field.

### Feature

#### 1. High eye point wide field plan eyepiece.

The eyepiece field of view has been upgraded from traditional 22mm to 25mm and 26.5mm, provide more flat field of view and improve working efficiency. With wider diopter adjustment range and foldable rubber eye guard.



#### 2. Viewing head with multi-splitting ratio.

The viewing head is designed of multiple options for splitting ratio.

(1) Trinocular head with erected image is standard, splitting ratio Binocular: Trinocular=100:0 or 0:100. The moving direction of samples is the same as observed.

(2) Trinocular head with inverted image is optional, splitting ratio Binocular: Trinocular=100:0 or 20:80 or 0:100. Except for concentrating 100% light to eyepiece tube or camera tube, there is another option with 20% light to eyepiece tube and 80% to camera tube, so that eyepiece observation and image output can be available at the same time.



### 3. Polarization system.

The polarizer and analyzer in polarization system contribute to eliminate the stray light in semiconductor and PCB detection, image with clear detail is achievable. There are fixed analyzer and rotatable analyzer for option. The sample can be observed at different polarizing angles with 360° rotatable analyzer. Besides, this polarization system can be upgraded to Nomarski differential interference contrast system after installing a new developed DIC attachment.



### 4. Nomarski differential interference contrast system(DIC).

The weeny asperities on the surface which can not be found in bright field, is able to be detected by using U-DICR attachment to create high contrast stereo relievo effect. It is widely used for testing the electric-conductive particles of LCD, surface scratches of precision disk.



#### **5. Linkage between the neutral density filter and the switch for BF & DF.**

The lever in front of illuminator is used to switch between bright field and dark field, and it is in tandem with a neutral density filter (ND50). When you switch from DF to BF, the built-in ND50 filter takes the role to reduce the light intensity. More scientific and more comfortable.

#### **6. Multiple choice for Nosepiece.**

The new nosepiece reduces the angle between the optical axis and the rotating axis to 15°, improving the accuracy of the centering and parfocality, and the appearance is more compact.



### **Application**

BS-6060 is widely used in institutes and laboratories to observe and identify the structure of various metal and alloy, it also can be used in electronics, chemical and instrumentation industry, observe the opaque material and transparent material, such as metal, ceramics, integrated circuits, electronic chips, printed circuit boards, LCD panels, film, powder, toner, wire, fibers, plated coatings, and other non-metallic materials and so on.

**Specification**

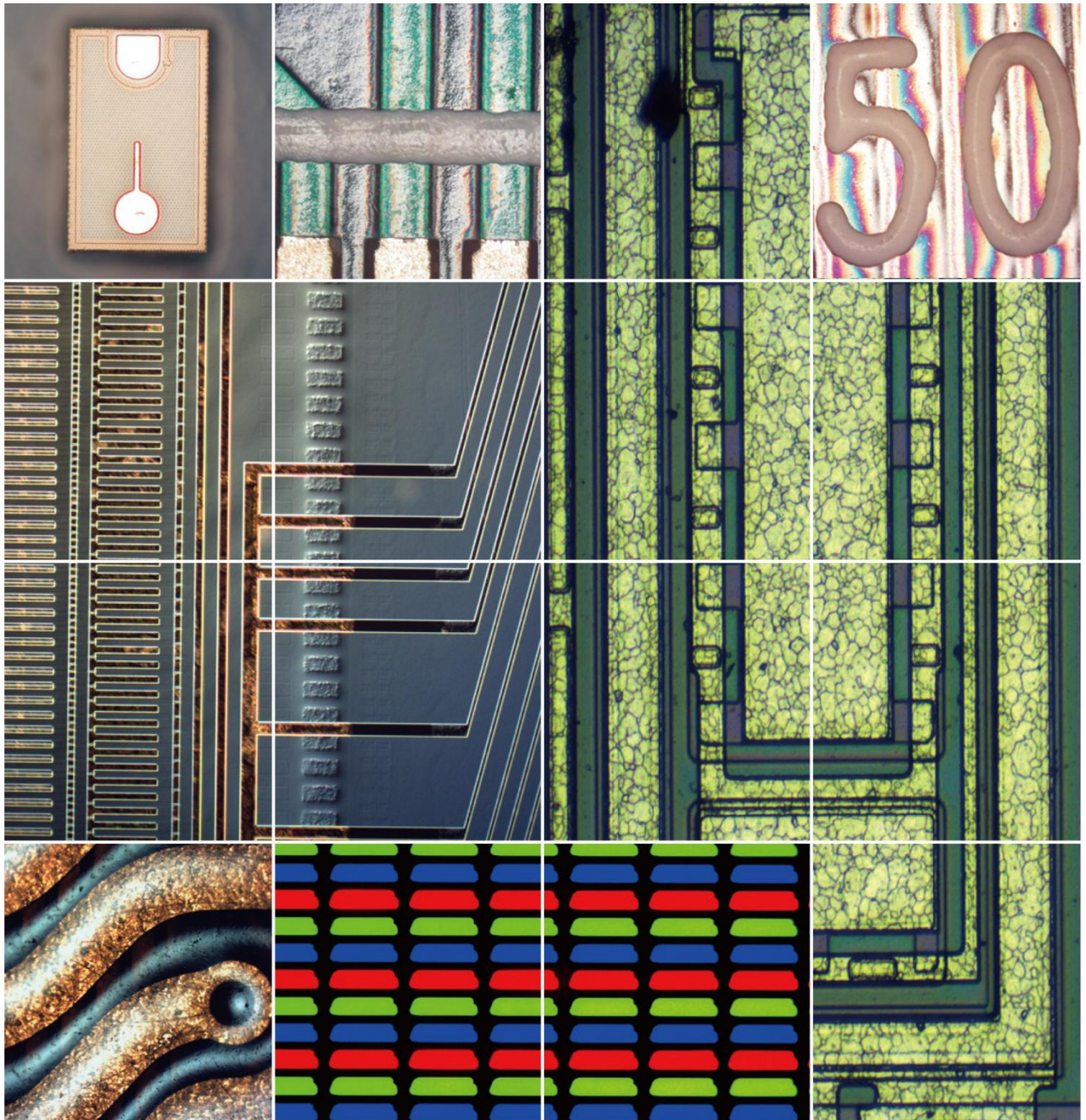
Item	Specification	BS-6060
Optical System	Infinite Color Corrected Optical System	●
Viewing Head	Siedentopf trinocular head, Erect image, 30° inclined, interpupillary distance: 50mm~76mm; splitting ratio Eyepiece:Trinocular=100:0 or 0:100	●
	Siedentopf trinocular head, Inverted image, inclined at 30°, interpupillary distance: 50mm~76mm; splitting ratio Eyepiece:Trinocular=100:0 or 20:80 or 0:100	○
Eyepiece	High eyepoint wide field plan eyepiece PL10X/25mm, diopter adjustable	●
	High eyepoint wide field plan eyepiece PL10X/25mm, with reticle, diopter adjustable	○
	High eyepoint wide field plan eyepiece PL10X/26.5mm, diopter adjustable	○
	High eyepoint wide field plan eyepiece PL10X/26.5mm, with reticle, diopter	○
Objective	Bright & Dark Field Semi-Apochromatic Metallurgical Objective 5X, NA=0.15, WD=13.5mm	●
	Bright & Dark Field Semi-Apochromatic Metallurgical Objectives 10X, NA=0.30, WD=9mm	●
	Bright & Dark Field Semi-Apochromatic Metallurgical Objectives 20X, NA=0.50, WD=2.5mm	●
	Bright & Dark Field Semi-Apochromatic Metallurgical Objectives 50X, NA=0.80, WD=1.0mm	●
	Bright & Dark Field Semi-Apochromatic Metallurgical Objectives 100X, NA=0.90, WD=1.0mm	●
	Bright Field Semi-Apochromatic Metallurgical Objective 5X, NA=0.15, WD=19.5mm	○
	Bright Field Semi-Apochromatic Metallurgical Objectives 10X, NA=0.30, WD=10.9mm	○
	Bright Field Semi-Apochromatic Metallurgical Objectives 20X, NA=0.50, WD=3.2mm	○
	Bright Field Semi-Apochromatic Metallurgical Objectives 50X, NA=0.80, WD=1.2mm	○
Bright Field Semi-Apochromatic Metallurgical Objectives 100X, NA=0.90, WD=1.0mm	○	
Nosepiece (with DIC slot)	Bright & Dark Quintuple Nosepiece	●
	Bright & Dark Sextuple Nosepiece	○
	Bright Field Sextuple Nosepiece	○
	Bright Field Septuple Nosepiece	○
Frame	Reflected & Transmitted body, low-position coaxial coarse and fine adjustment, coarse adjustment distance: 25mm; fine precision: 0.001mm. With coarse adjustment stop and tightness adjustment. Built-in 100-240V wide voltage transformer, double way power output; intensity adjustable by digital set and reset; switch for reflection and transmission; built-in transmitted filters (LBD/ND6/ND25).	●
	Reflected body, coaxial coarse and fine adjustment, coarse adjustment distance: 25mm; fine precision: 0.001mm. With coarse adjustment stop and tightness adjustment.	○
Stage	4 inch three layers mechanical stage with glass plate, moving range: 102mm(Y) *105mm(X)	●
Condenser	Swing-out type achromatic condenser (N.A.0.9)	●
Reflected Illuminator	BD reflected illuminator with iris field diaphragm and aperture diaphragm, central adjustable. With filter slot and polarizing slot. With switch for bright and dark field.	●
Lamp House	12V/100W halogen lamp house, center pre-set	●
Other Accessories	Camera adapter: 0.5X focusing C-mount	●
	Fixed polarizer, fixed analyzer, 360° rotatable analyzer	○
	DIC attachment	○



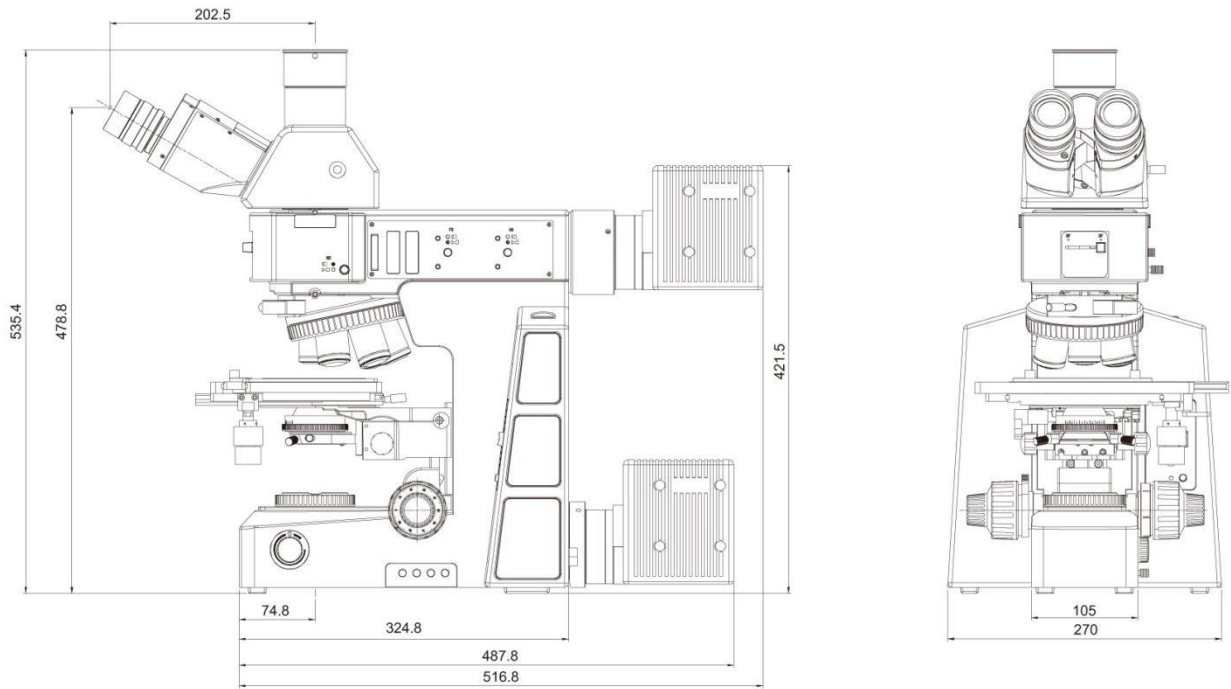
	Interference filters for reflected light	○
	High precision micrometer, scale value 0.01mm	○

Note: ●Standard parts ○Optional parts

**Sample Image**



Dimension



## BS-7000 Series Laboratory Fluorescent Microscope

### 1. BS-7000A Upright Fluorescent Biological Microscope



#### Introduction

BS-7000A fluorescence microscope is a laboratory fluorescent microscope with perfect infinite optical system. The microscope uses mercury lamp as the light source, the fluorescent attachment has 6 positions for filter blocks, which allows easy change of filter blocks for various fluorochrome.

#### Feature

1. Perfect image with infinite optical system.
2. High resolution fluorescent objectives are optional for excellent fluorescent images.
3. Advanced and precision lamp housing reduces the light leak.
4. Reliable power supply with digital display and timer.

#### Application

BS-7000A Fluorescence microscope is used to study the absorbing, transportation, chemicals distribution and positioning in cells. It is widely used in universities, hospitals and life science labs for disease examination, immune diagnosis and scientific research.

**Specification**

Item	Specification				BS-7000A
Optical System	Infinite Optical System				●
Viewing Head	Seidentopf Trinocular Head, Inclined at 30°, Interpupillary Distance 48-75mm				●
Eyepiece	Extra Wide Field Eyepiece EW10×/22mm, Eyepiece tube diameter 30mm				●
Nosepiece	Backward Quintuple Nosepiece				●
	Backward Sextuple Nosepiece				○
Objective	Infinite Plan Achromatic Objective	2×/0.05,	W.D.=18.3mm		○
		4×/0.10,	W.D.=17.3mm		●
		10×/0.25,	W.D.=10mm		●
		20×/0.40,	W.D.=5.1mm		○
		40×/0.65(S),	W.D.=0.54mm		●
		60×/0.8(S),	W.D.=0.14mm		○
		100×/1.25(S, Oil),	W.D.=0.13mm		●
	Infinite Plan Fluorescent Objective	4×/0.13,	W.D.=16.3mm		○
		10×/0.30,	W.D.=12.4mm		○
		20×/0.50,	W.D.=1.5mm		○
40×/0.75(S),		W.D.=0.35mm		○	
	100×/1.3(S, Oil),	W.D.=0.13mm		○	
Condenser	Swing Condenser NA 0.9/ 0.25				●
Focusing	Coaxial Coarse and Fine Adjustment, Fine Division 0.001mm, Coarse Stroke 37.7mm per Rotation, Fine Stroke 0.1mm per Rotation, Moving Range 24mm				●
Stage	Double Layers Mechanical Stage 185×142mm, Moving Range 75×55mm				●
Photo Adapter	Used to connect Nikon or Canon DSLR camera to the microscope				○
Video Adapter	1× or 0.5× C-mount adapter				○
Transmitted Kohler Illumination	External Illumination, Aspherical Collector with Kohler Illumination, Halogen Lamp 6V/30W, Brightness Adjustable				●
	External Illumination, Aspherical Collector with Kohler Illumination, Halogen Lamp 24V/100W, Brightness Adjustable				○
	3W LED Illumination, Brightness Adjustable				○
	5W LED Illumination, Brightness Adjustable				○
Reflected Light Source		Excitation	Dichroic Mirror	Barrier Filter	
	Blue Excitation	BP460~490	DM500	BA520	●
	Blue Excitation(B1)	BP460~495	DM505	BA510-550	○
	Green Excitation	BP510~550	DM570	BA590	●
	Ultraviolet Excitation	BP330~385	DM400	BA420	○
	Violet Excitation	BP400~410	DM455	BA455	○
	Red Excitation	BP620~650	DM660	BA670-750	○
Lamp	100W HBO Ultra Hi-voltage Spherical Mercury Lamp				●
Protection barrier	Barrier to Resist the Ultraviolet Light				●
Power Supplier	Power Supplier NFP-1, 220V/ 110V Voltage Interchangeable, Digital Display				●



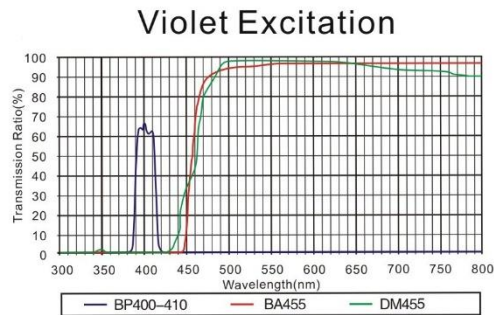
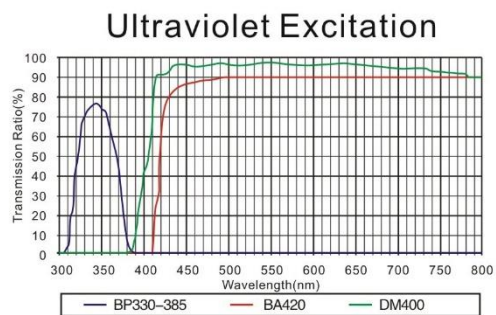
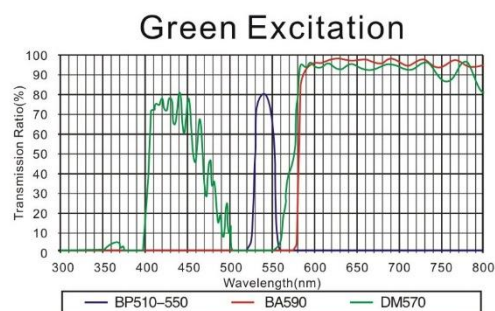
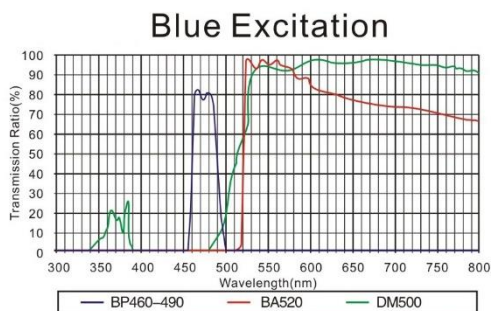
Immersion Oil	Fluorescent Free Oil	●
Filter	Neutral ND25/ ND6 Filter	○
Centering Target		○

Note: ●Standard Outfit, ○Optional

### Epi-fluorescent Attachment

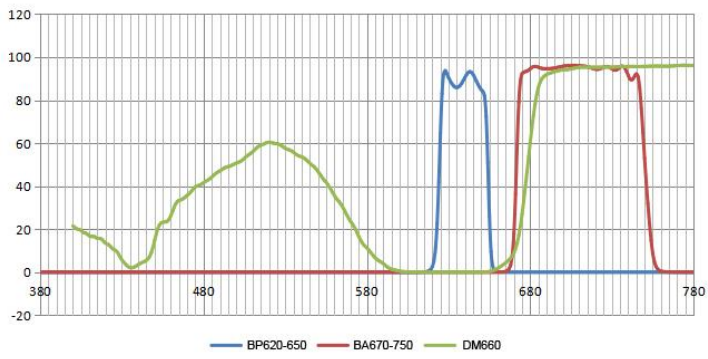


### Characteristics of Mirror Units Wavelength

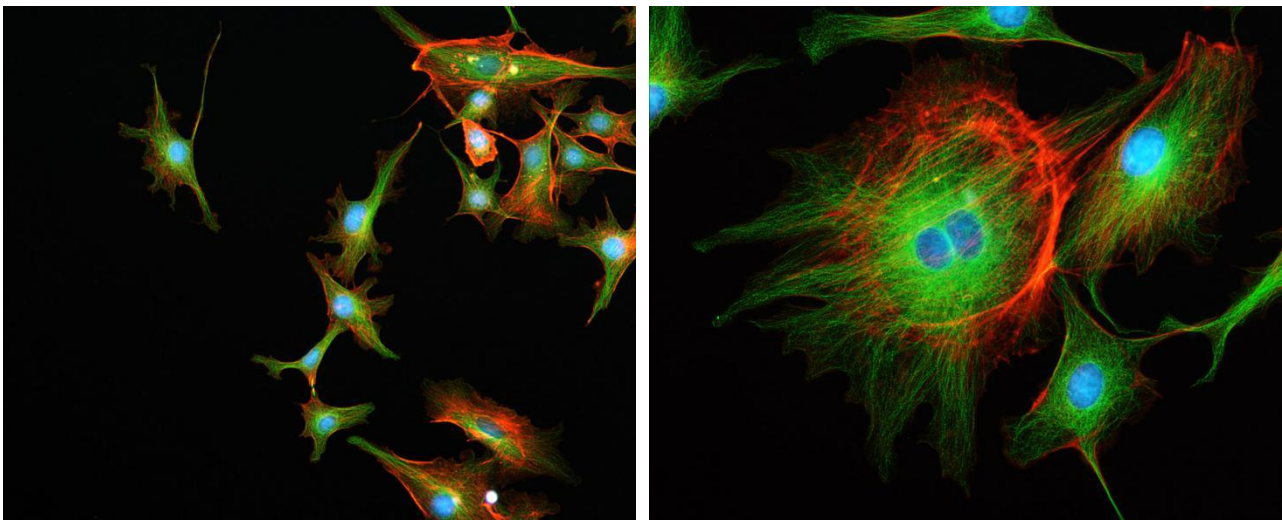




Red Excitation



Sample Image



## 2. BS-7000B Inverted Fluorescent Biological Microscope



### Introduction

BS-7000B Inverted Fluorescent Biological Microscope is specifically designed for the observation of cell culture. Infinite Optical System gives excellent Optical performance. Excellent high resolution fluorescent objectives are optional to generate high quality fluorescent images. This microscope can be your best assistant in laboratory research.

### Feature

1. Perfect image with infinite optical system.
2. High resolution fluorescent objectives are optional for excellent fluorescent images.
3. Advanced and precision lamp housing reduces the light leak.
4. Reliable power supply with digital display and timer.
5. Innovative structure and sharp Image is perfect for viewing cell tissue.

### Application

BS-7000B Inverted Fluorescent Biological Microscope is specifically designed for the observation of cell culture. It is widely used in universities, hospitals and life science labs for disease examination, immune diagnosis and scientific research.

### Specification

Item	Specification		BS-7000B
Optical System	Infinite Optical System		●
Viewing Head	Seidentopf Trinocular Head Inclined at 30°, Interpupillary 48-75mm		●
Eyepiece	High-point, Extra Wide Field Eyepiece EW10×/ 22		●
Nosepiece	Quintuple Nosepiece		●
Objective	LWD Infinite Plan	4×/0.1, W.D.= 17.3mm	●
	Objective	10×/0.25, W.D.= 10mm	○

		20×/0.4, W.D.= 5.1mm	○		
		40×/0.6, W.D.= 2.1mm	●		
	Infinite Plan Phase Objective	PH 10×/0.25, W.D.= 10mm	●		
		PH 20×/0.4, W.D.= 5.1mm	●		
		PH 40×/0.6, W.D.= 2.1mm	○		
	Infinite Plan Fluorescent Objective	4×/0.13, W.D.= 16.3mm	○		
		10×/0.30, W.D.= 12.4mm	○		
20×/0.5, W.D.= 1.5mm		○			
40×/0.6, W.D.= 2.2mm		○			
Condenser	ELWD Condenser NA 0.3, LWD 72mm (Without condenser 150mm)		●		
Telescope	Centering Telescope(Φ30)		○		
Phase Annulus	10×-20×, 40× Phase Annulus Plate (Fixed)		●		
	10×-20×, 40× Phase Annulus Plate (Adjustable)		○		
Stage	Plain stage 160×250 mm		●		
	Glass Insert Plate		●		
	Attachable Mechanical Stage, X- Y Coaxial Control, Moving Range 120×78 mm		○		
	Auxiliary Stage 70×180mm		●		
	Terasaki Holder		○		
	Petri Dish Holder Φ35mm		○		
	Slide Glass Holder Φ54mm		○		
	Petri Dish Holder Φ90mm		○		
Focusing	Coaxial Coarse and Fine Adjustment, Fine Division 0.002mm, Coarse Stroke 37.7mm/Rotation, Fine Stroke 0.2mm/Rotation, Moving Range up 8mm, down 3mm		●		
Transmitted Illumination	6V/30W Halogen Lamp		●		
	3W LED lamp		○		
Filter	Blue, Green and Ground glass filters, Diameter 45mm		●		
Photo Attachment	Photo Adapter for Nikon and Canon DSLR cameras		○		
Video Adapter	Video Adapter 1× / 0.5× C-mount		○		
Reflected Light Source		Excitation	Dichroic Mirror	Barrier Filter	
	Blue Excitation	BP460~490	DM500	BA520	●
	Blue Excitation (B1)	BP460~495	DM505	BA510-550	○
	Green Excitation	BP480~550	DM570	BA590	●
	Ultraviolet Excitation	BP330~385	DM400	BA420	○
	Violet Excitation	BP400~410	DM455	BA455	○
	Red Excitation	BP620~650	DM660	BA670-750	○
Lamp	100W HBO Ultra Hi-voltage Spherical Mercury Lamp			●	
Protection barrier	Barrier to Resist the Ultraviolet Light			●	
Power Supplier	Power Supplier NFP-1, 220V/ 110V Voltage interchangeable, Digital Display			●	
Filter	Neutral ND25/ ND6 Filter			○	
Centering Target				○	

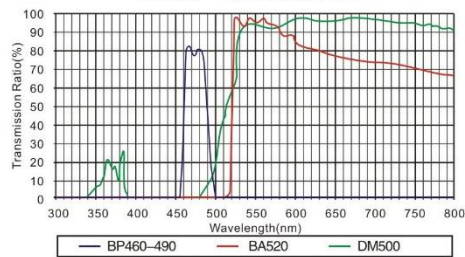
Note: ● Standard Outfit, ○ Optional

### BS-7000B Inverted Fluorescent Attachment

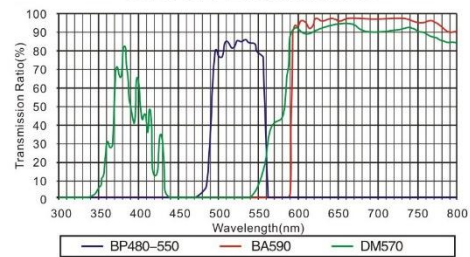


### Characteristics of Mirror Units Wavelength

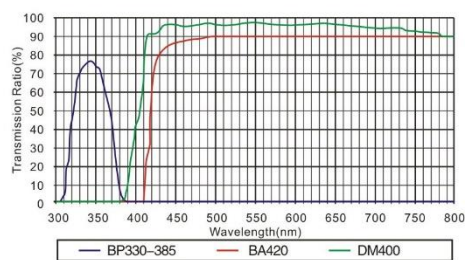
Blue Excitation



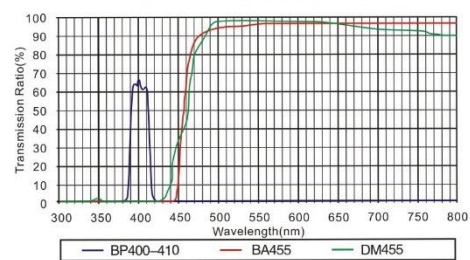
Green Excitation



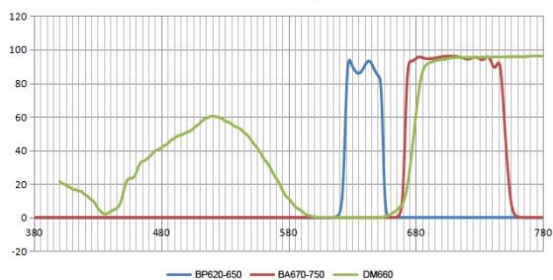
Ultraviolet Excitation



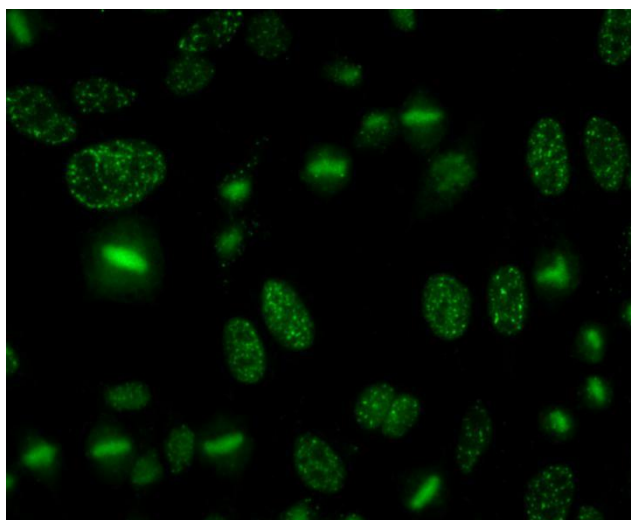
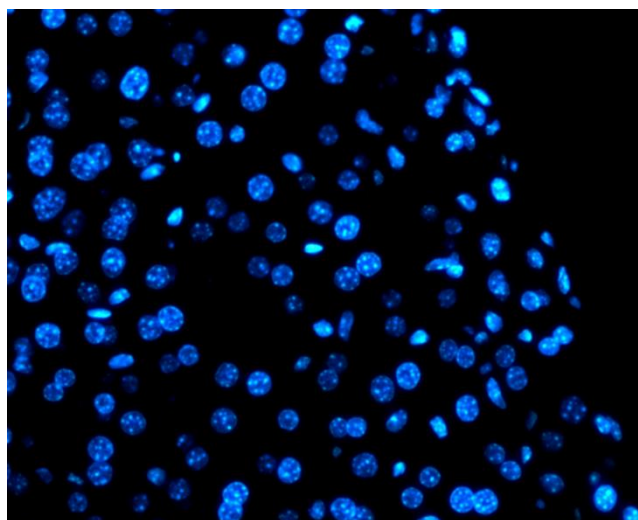
Violet Excitation



Red Excitation



Sample Image





### 3. BS-7020 Inverted Fluorescent Biological Microscope



#### Introduction

BS-7020 inverted fluorescence microscope uses mercury lamp as the light source, objects which are radiated then fluoresce, and then the shape of an object and its location can be observed under the microscope. The Microscope is specifically designed for the observation of cell culture. Excellent high resolution objectives provide high quality fluorescent images. Infinite Optical System gives excellent Optical performance. This microscope can be your best assistant in laboratory research.

#### Feature

1. Perfect image with infinite optical system.
2. High resolution fluorescent objectives are optional for excellent fluorescent images.
3. Advanced and precision lamp housing reduces the light leak.
4. Reliable power supply with digital display and timer.
5. Innovative structure and sharp Image is perfect for viewing cell tissue.

#### Application

BS-7020 Inverted Fluorescent Biological Microscope is specifically designed for the observation of cell culture. It is widely used in universities, hospitals and life science labs for disease examination, immune diagnosis and scientific research.

#### Specification

Item	Specification	BS-7020
Optical System	Infinite Optical System	●
Viewing Head	Seidentopf Trinocular Viewing Head, Inclined at 45°, 360° Rotatable, Interpupillary Distance 48-75mm	●
Eyepiece	Wide Field Eyepiece WF10×/ 20mm, Eyepiece Tube Diameter 30mm	●
	Wide Field Eyepiece WF15×/ 16mm	○

	Wide Field Eyepiece WF20×/ 12mm				○
Objective	LWD(Long Working Distance) Infinite Plan Achromatic Objective 4×/0.1, W.D.= 22mm				●
	LWD(Long Working Distance) Infinite Plan Achromatic Phase Objective	10×/ 0.25,	W.D.= 6mm		●
		20×/ 0.4,	W.D.= 3.1mm		●
		40×/ 0.55,	W.D.= 2.2mm		●
	High Level Phase Contrast Objective	10×/ 0.25,	W.D.= 6mm		○
		20×/ 0.4,	W.D.= 3.1mm		○
		40×/ 0.55,	W.D.= 2.2mm		○
Lamp House Adjustment Objective				○	
Nosepiece	Backward Quintuple Nosepiece				●
Condenser	ELWD(Extra Long Working Distance) Condenser NA 0.3, LWD 72mm (Without Condenser 150mm)				●
Telescope	Centering Telescope (Φ30mm)				●
Phase Annular	10×, 20×, 40× Phase Annular Plate(Center Adjustable)				●
Stage	Plain Stage 230×170mm				●
	Glass Insert Plate				●
	Attachable Mechanical Stage, X,Y Coaxial Control, Moving Rang 80mm×120mm				●
	Auxiliary Stages 70mm×180mm				●
	Terasaki Holder				●
	Petri Dish Holder Φ38mm				●
	Petri Dish Holder Φ54mm				●
Focusing	Coaxial Coarse and Fine Adjustment, Fine Division 0.002mm, Moving Range up 4.5mm, down 4.5mm				●
Transmitted Illumination	Halogen Lamp 6V/30W, Brightness Adjustable				●
	LED lamp 5W, Brightness Adjustable				○
Reflected Light Source		Excitation	Dichroic Mirror	Barrier Filter	
	Blue excitation	BP460~490	DM500	BA520	●
	Green excitation	BP480~550	DM570	BA590	●
	Ultraviolet excitation	BP330~385	DM400	BA420	○
	Violet excitation	BP400~410	DM455	BA455	○
	Red Excitation	BP620~650	DM660	BA670-750	○
Lamp	100W HBO Ultra Hi-voltage Spherical Mercury Lamp				●
Protection barrier	Barrier to Resist the Ultraviolet Light				●
Power Supplier	Power Supplier NFP-1, 220V/ 110V interchangeable, Digital Display				●
Centering Target					●
Filter	Blue, Green and Ground Glass, Diameter 45mm				●
Accessories	Photo Adapter (Used to connect Nikon or Canon DSLR camera to the microscope)				○
	0.5× C-mount (Used to directly connect a C-mount digital camera to the microscope)				●
	Modulation Contrast				○
Package	2 cartons/set, 36*61*62cm, 18kg; 38*45*26cm, 6kg				●

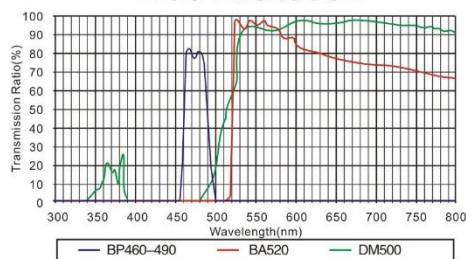
Note: ● Standard Outfit, ○ Optional

## BS-7020 Inverted Fluorescent Attachments

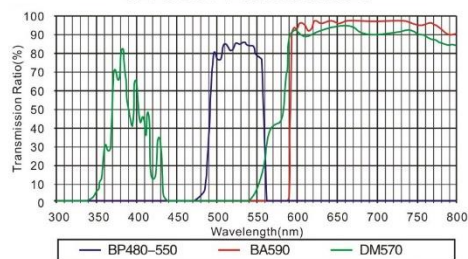


### Characteristics of Mirror Units Wavelength

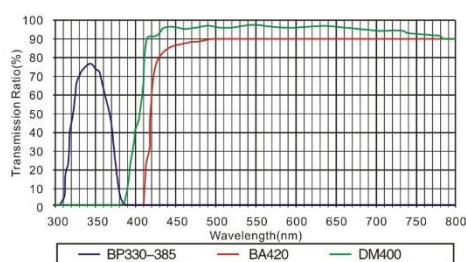
Blue Excitation



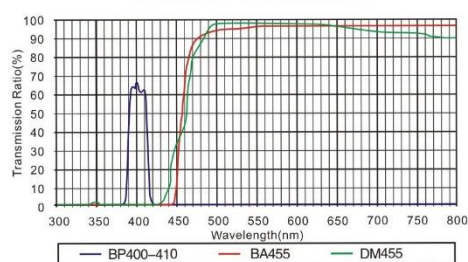
Green Excitation



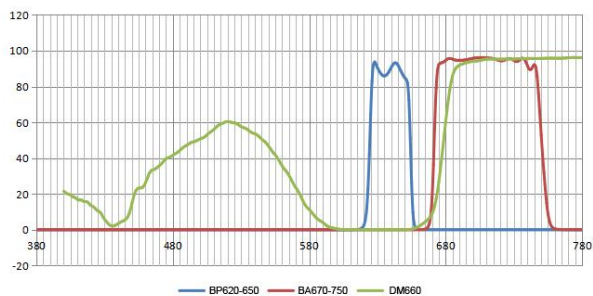
Ultraviolet Excitation



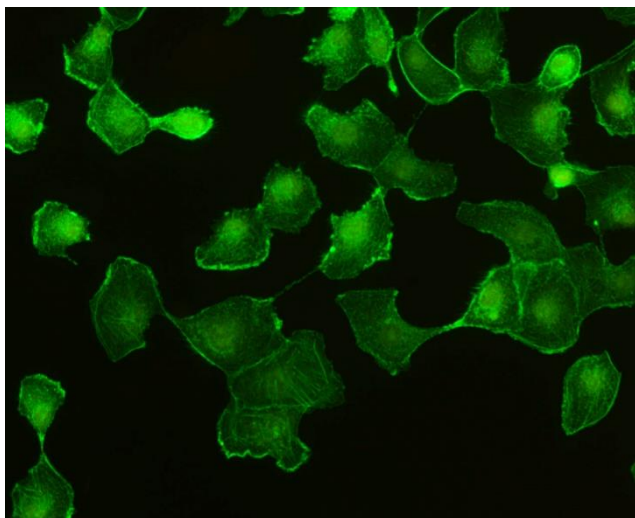
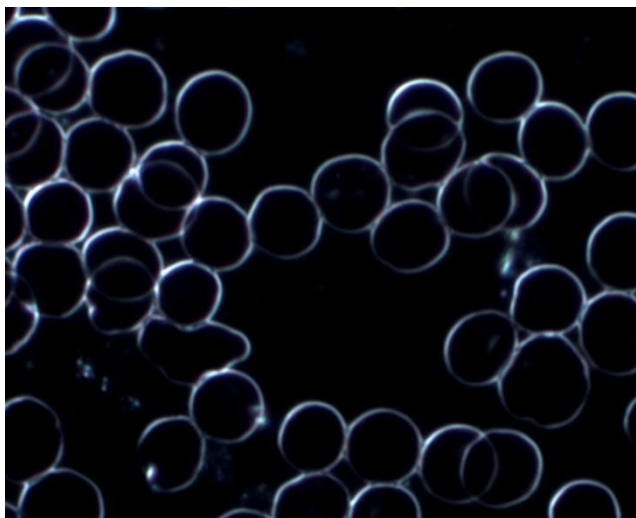
Violet Excitation



Red Excitation



Sample Image



## BS-8000 Series Gemological Microscope

### 1. BS-8020B&BS-8030B/T Gemological Microscope



BS-8020B



BS-8030B

#### Introduction

A gemological microscope is the microscope used by jewelers and gem stone experts. Equipped with good illumination, gem clamp and dark field attachment, BS-8020B&BS-8030B/T gemological microscopes can meet most of the works for gem experts. The most obvious advantage of them is cost effective and affordable. They are especially designed to view precious stone samples and the pieces of jewelry that are contained in them.

#### Feature

1. Good quality illumination, come with gem clamp and dark field attachment.
2. Cost effective and affordable gemological microscopes.

#### Application

BS-8020 and BS-8030 series gemological microscopes are usually used to identify the authenticity of gemstones. They also can be used in the design, creation, production and repair of jewelry. The gemological microscopes are precision microscopes that are capable of inspecting diamonds, emeralds, rubies and all other types of precious stones.

#### Specification

Item	Specification	BS-8020B	BS-8030B	BS-8030T
Viewing Head	Inclined Binocular head, 360° Rotatable, Interpupillary distance 55-75mm	•	•	
	Inclined Trinocular head, 360° Rotatable, Interpupillary distance 55-75mm			•



Eyepiece	WF10×/20mm	●	○	○
	WF10×/22mm		●	●
	WF15×/15mm	○	○	○
	WF20×/10mm	○	○	○
Objective	1×-4×		●	●
	0.7×~3.6×		○	○
	2×, 4×	●		
	1×, 2×	○		
	1×, 3×	○		
Auxiliary Objective	0.5×	○	○	○
	0.75×	○	○	○
	1.5×	○	○	○
	2×	○	○	○
Incident Illumination	Halogen lamp 12V/10W	●	●	●
	Fluorescent 10W	○	●	●
Transmitted Illumination	Halogen lamp 12V/10W	●	●	●
	LED illumination	○	○	○
Accessories	High quality Jewel clamp	●	●	●
	Darkfield working stage (with Iris diagram)	●	●	●

Note: ● Standard Outfit, ○ Optional

#### Optical Parameters

Model	Objective	Working Distance(mm)	Field of View(mm)
BS-8030B & BS-8030T	1×-4×	90.5	22-5.5
	0.7×~3.6×	86	26-5.8
BS-8020B	1×	75	20
	2×	91	91
	3×	69	10
	4×	70	5

## 2. BS-8060 Gemological Microscope



BS-8060B



BS-8060BD



BS-8060 Stand

### Introduction

A gemological microscope is the microscope used by jewelers and gem stone experts, the gemological microscope is the most important tool in their jobs. BS-8060 gemological microscope is especially designed to view precious stone samples and the pieces of jewelry that are contained in them. These microscopes are equipped with multiple illumination systems to enhance the image of the samples.

### Feature

1. Offering sharp and high resolution image with high bright LED point light, dark field illumination and even fluorescent light source. It is a high level professional gemological microscope.
2. Designing with ergonomic idea can greatly improve the working efficiency, it is also easy to operate and makes operators feel more comfortable.

### Application

BS-8060 gemological microscopes are precision microscope that are capable of inspecting diamonds, emeralds, rubies and all other types of precious stones. They are usually used to identify the authenticity of gemstones, they are widely used in design, produce and repair of jewelry.



**Specification**

Item	Specification	BS-8060B	BS-8060T	BS-8060BD
Viewing Head	Binocular Viewing Head, Inclined at 45°, Interpupillary Distance: 55-75mm	●		
	Trinocular Viewing Head, Inclined at 45°, Interpupillary Distance: 55-75mm		●	
	Binocular Digital Viewing Head, Inclined at 45°, Interpupillary Distance: 55-75mm, 3.2MP(2048×1536)			●
Eyepiece	WF15×/16mm with diopter adjustment	●	●	●
	WF10×/22mm	○	○	○
	WF20×/12mm	○	○	○
	WF30×/9mm	○	○	○
Zoom Objective	Zoom range 0.8×-5×, zoom ratio 1:6.3, working distance 115mm	●	●	●
Auxiliary Objective	0.5×, W.D.:220mm	○	○	○
	0.7×, W.D.:125mm	○	○	○
	2×, W.D.:125mm	○	○	○
Bright & Dark Field Illumination	Iris diaphragm 2mm-41mm, Bright and dark viewing field illumination is adjustable	●	●	●
Illumination	9W Fluorescent lamp	●	●	●
	LED Point Light	●	●	●
	6V/20W Halogen illumination, lamp can be changed	●	●	●
Focusing	Focusing range: 110mm, suitable for observing different size gem and sample	●	●	●
Gem Clamp	High quality steel clamp is perfect to hold the gem for observation from all directions	●	●	●
Stage	At both side, there is a gem clamp fixing holds for you to choose	●	●	●
Stand	0-38° Inclined, so the height and angle of eyepiece can be adjusted, easy to operate	●	●	●
Base	0°-325° Rotatable	●	●	●

Note: ● Standard Outfit, ○ Optional

## Multi-Head Microscope

### 1. BS-2030MH Multi-Head Microscope



BS-2030MH4A



BS-2030MH4B



BS-2030MH10

## Introduction

BS-2030MH Series Multi-Head Microscopes are equipped with multi-head for more persons observing at the same time. The optical system is high quality and reliable.

## Feature

1. Sharp image display with excellent optical system.
2. Small space occupancy with integral stand design, low environment requirement with anti-mould technology.
3. Users friendly and comfortable operation with ergonomic design.

## Application

BS-2030MH Series Multi-Head Microscopes are mainly used in medical teaching and biological teaching. They also can be used for biological analysis for more experts at the same time. They can be widely used in medical and sanitary establishments, laboratories, institutes, colleges and universities.

## Specification

Item	Specification	BS-2030 MH4A	BS-2030 MH4B	BS-2030 MH10
Viewing Head	Sliding Binocular Head, inclined at 45°, Interpupillary Distance: 55-75mm, Anti-mould	2PCS	1PC	5PCS
	Monocular Head, inclined at 45°, Anti-mould		2PCS	
	Sliding Trinocular Head, inclined at 45°, Interpupillary Distance: 55-75mm, Anti-mould	○	○	○
Eyepiece	Wide Field Eyepiece WF10×/18mm	4PCS	4PCS	10PCS
	Wide Field Eyepiece WF16×/11mm			
Nosepiece	Quadruple Nosepiece	●	●	●
Objective	Achromatic Objective 4×, 10×, 40×, 100×	●	●	●
	Achromatic Objective 20×, 60×	○	○	○
	Semi- Plan Achromatic Objective 4×, 10×, 20×, 40×, 60×, 100×	○	○	○
	Plan Achromatic Objective 4×, 10×, 20×, 40×, 60×, 100×	○	○	○
Condenser	Abbe Condenser NA1.25	●	●	●
Focusing	Coaxial Coarse & Fine Focus Adjustment, Fine Division 0.002mm, Coarse Stroke 37.7mm per Rotation, Fine Stroke 0.2mm per Rotation, Moving Range 28mm	●	●	●
Stage	Double Layers Mechanical Stage 140×140mm/ 75×50mm	●	●	●
Illumination	1W S-LED illumination, Brightness adjustable	●	●	●
	Halogen Lamp 6V/ 20W	○	○	
	Halogen Lamp 24V/ 100W			○
Pointer	Green LED Pointer, Brightness Adjustable			●

Note: ●Standard Outfit, ○Optional



## 2. BS-2080MH Multi-Head Microscope



BS-2080MH4A



BS-2080MH4



BS-2080MH6



BS-2080MH10

### Introduction

BS-2080MH Series Multi-Head Microscopes are high level microscopes equipped with multi-head for more persons to observe specimen at the same time. With the features of infinite optical system, effective high brightness illumination, LED pointer and images coherence, they are widely used in clinical medicine, scientific research and teaching demonstration areas.

### Feature

1. Sharp image display with excellent infinite optical system.
2. Small space occupancy with integral stand design, low environment requirement with anti-mould technology.
3. Users friendly and comfortable operation with ergonomic design.

### Application

BS-2080MH Series Multi-Head Microscopes are mainly used in medical teaching and biological teaching. They also can be used for biological analysis for more experts at the same time. They can be widely used in medical and sanitary establishments, laboratories, institutes, colleges and universities.

**Specification**

Item	Specification	BS-2080 MH4/4A	BS-2080 MH6	BS-2080 MH10
Optical System	Infinite Optical System	●	●	●
Viewing Head	Seidentopf Trinocular Head, Inclined at 30°, 360° Rotatable, Interpupillary Distance 48-75mm	1PC	1PC	1PC
	Seidentopf Binocular Head, Inclined at 30°, 360° Rotatable, Interpupillary Distance 48-75mm	1PC	2PCS	4PCS
Eyepiece	Extra Wide Field Eyepiece EW10×/ 20mm	4PCS	6PCS	10PCS
Nosepiece	Backward Quintuple Nosepiece	●	●	●
Objective	Infinite Plan Achromatic Objective 4×, 10×, 40×, 100×	●	●	●
	Infinite Plan Achromatic Objective 20×, 60×	○	○	○
Condenser	Swing Condenser N.A.0.9/ 0.25	●	●	●
Focusing	Coaxial Coarse & Fine Focus Adjustment, Fine Division 0.001mm, Coarse Stroke 37.7mm per Rotation, Fine Stroke 0.1mm per Rotation, Moving Range 24mm	●	●	●
Stage	Double Layers Mechanical Stage 185×142mm, Moving Range 75×55mm	●	●	●
Kohler Illumination	External Illumination, Halogen Lamp 24V/ 100W	●	●	●
	5W LED Illumination	○	○	○
Pointer	Green LED Pointer, Brightness Adjustable	●	●	●
	Dual Color LED Pointer, Brightness Adjustable	○	○	○
Photo Adapter	Used to connect Nikon or Canon DSLR camera to the microscope	○	○	○
Video Adapter	C-Mount 1×	○	○	○
	C-Mount 0.5×	○	○	○

Note: ●Standard Outfit, ○Optional

## BSC Series Comparison Microscope

### 1. BSC-200 Comparison Microscope



#### Introduction

BSC-200 Comparison Microscope can observe two objects with a pair of eyepiece at the same time. Using field cutting, jointing and overlapping methods, two (or more) objects can be compared together. BSC-200 has clear image, high resolution and can identify tiny differences between objects accurately. It is basically used in forensic science, police schools and related departments.

#### Feature

1. Can be used for Left or Right single view field observation, overlapping view field observation, segmentation and jointing view field observation.
2. With inner changeable objectives, right and left objectives can be adjusted to consistency.
3. Stage size: 100mm×100mm, Moving range: The transverse, longitudinal, vertical directions are 0-54mm, horizontal rotation 0° -360°, stage inclined to any direction of 0° - 45°.
4. Two stages can be adjusted horizontally at the same time, moving range: 0-54mm.
5. Coarse lifting range of 0 - 60mm.
6. Equipped with 12V/50W air-cooled high power LED lamps, light intensity is adjustable.
7. Polarizing attachment, used to eliminate stray and glare light.

8. Coaxial illumination device(optional), used for observation of deep hole, small hole and smooth surface.
9. With C-mount video attachment, digital cameras can be used for synchronous observation, images and videos can be saved and analyzed.
- 10 With Photo attachment, Nikon or Olympus DSLR cameras can be used to take pictures.


**Bullet Holder**

**Filters**

**Polarizing Attachment**

## Application

BSC-200 is the ideal device for Public Security Bureaus, procuratorates, courts and their colleges to compare and identify the bullet, tool marks, fingerprints, seals, text, signatures, drawings and bank notes. It also can be applied to electronic, biochemical, agriculture, archaeology, banking, Customs and industries or sectors who have the requirements to detect or identify objects.

## Specification

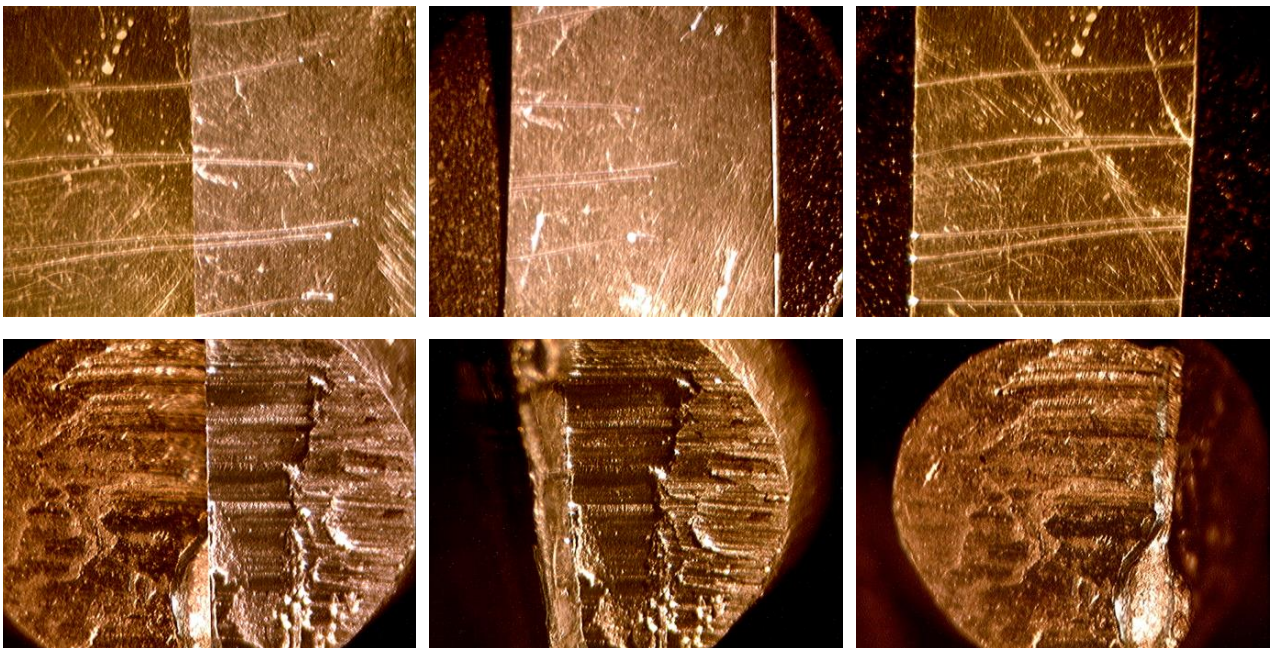
Item	Specification	BSC-200
Total Optical Magnification	9.6×~115×	●
Viewing Head	Seidentopf Trinocular Head, Inclined at 45°, Interpupillary Distance 55-75mm	●
Eyepiece	Wide Field Eyepiece WF10×/ 22mm, diopter adjustment	●
	Wide Field Eyepiece WF20×/ 12mm, diopter adjustment	●
Comparison Mode	Left or Right single view field observation, overlapping view field observation, segmentation and jointing view field observation	●
Objective	0.8×, 1.25×, 2×, 3.2×, 4.8× changeable objective	●
Auxiliary Objective	0.4×, 2× Auxiliary Objective (with auxiliary objective, the total magnification can be extended to 3.8× ~ 230×)	○
Stage	Manually operate stage, moving range: X-54mm, Y-54mm, Z-54mm	●
	Two stage horizontal moving range: 54mm, The coarse vertical lifting range: 60mm	●
Illumination	High power LED illumination, brightness and angel adjustable	●
	Side illumination, 12V/50W air cooled reflecting lamps	●
	Coaxial illumination device	○
Accessories	Bullet Holder	●
	Polarizing attachment	●
	Blue, Green and red filters	●
	Photo attachment for DSLR digital camera(Nikon, Canon)	●
	C -mount for microscope digital cameras	●

### Eyepieces and Objective Parameters

Objective	Bridge	Magnification/FOV(mm)		Video Attachment	Photo Attachment	Working Distance (mm)
		10× Eyepiece	20× Eyepiece			
0.8×	1.2×	9.6×/φ28	19.2×/φ17	3×	2.5×	101
1.25×		15×/φ18	30×/φ11			
2×		24×/φ11	48×/φ7			
3.2×		36×/φ7	77×/φ4.5			
4.8×		58×/φ4.2	115×/φ2.3			

Note: With 0.8× objective, 10× eyepiece, the magnification=0.8×1.2×10×=9.6×

### Sample Image





## 2. BSC-300 Comparison Microscope



### Introduction

BSC-300 Comparison Microscope can observe two objects with a pair of eyepiece at the same time. Using field cutting, jointing and overlapping methods, two (or more two) objects can be compared together. BSC-300 has clear image, high resolution and can identify tiny differences between objects accurately. BSC-300 has excellent optical performance and complete comparison function, it is suitable for various comparison demands, so it has a very wide range of applications. It is basically used in forensic science, police schools and related departments.

### Feature

1. Can be used for Left or Right single view field observation, overlapping view field observation, segmentation and jointing view field observation.
2. With sextuple nosepiece, comes with 0.5 $\times$ , 1 $\times$ , 1.5 $\times$ , 2 $\times$ , 4 $\times$ , 6 $\times$  objectives, nosepiece has stop clicks, comfortable to change the objectives.
3. Stage size: 100mm $\times$ 100mm, Moving range: The transverse, longitudinal, vertical directions are 0-62mm, horizontal rotation 0 $^{\circ}$  -360 $^{\circ}$ , stage inclined to any direction of 0 $^{\circ}$  - 60 $^{\circ}$ .
4. Two stages can be adjusted horizontally at the same time, moving range: 0-60mm.
5. Coarse lifting range of 0 - 60mm.
6. Equipped with 12V/50W air-cooled high power LED lamps, light intensity is adjustable.
7. Polarizing attachment, used to eliminate stray and glare light.
8. Coaxial illumination device(optional), used for observation of deep hole, small hole and smooth surface.
9. With C-mount video attachment, digital cameras can be used for synchronous observation, images and videos can be saved and analyzed.
- 10 With Photo attachment, Nikon or Olympus DLSR cameras can be used to take pictures.



Bullet Holder



Filters



Polarizing Attachment

## Application

BSC-300 is the ideal device for Public Security Bureaus, procuratorates, courts and their colleges to compare and identify the bullet, tool marks, fingerprints, seals, text, signatures, drawings, and bank notes. It also can be applied to electronic, biochemical, agriculture, archaeology, banking, Customs and industries or sectors who have the requirements to detect or identify objects.

## Specification

Item	Specification	BSC-300
Total Optical Magnification	5×~120×	●
Viewing Head	Seidentopf Trinocular Head, Inclined at 45°, Interpupillary Distance 55-75mm	●
Eyepiece	Wide Field Eyepiece WF10×/ 22mm, diopter adjustment	●
	Wide Field Eyepiece WF20×/ 12mm, diopter adjustment	●
Field of View	Φ2mm~Φ60mm	
Comparison Mode	Left or Right single view field observation, overlapping view field observation, segmentation and jointing view field observation	●
Objective	0.5×, 1×, 1.5×, 2×, 4×, 6×	●
Auxiliary Objective	0.4×, 2× Auxiliary Objective (with auxiliary objective, the total magnification can be extended to 2× ~ 240×)	○
Nosepiece	Sextuple nosepiece	●
Stage	Manually operate stage, moving range: X-54mm, Y-54mm, Z-54mm	●
	Two stage horizontal moving range: 60mm, The coarse vertical lifting range: 60mm	●
Illumination	High power LED illumination, brightness and angel adjustable	●
	Side illumination, 12V/50W air cooled reflecting lamps	●
	Polarizing attachment	●
	Coaxial illumination device	○
Accessories	Bullet Holder	●
	Polarizing attachment	●
	Blue, Green and red filters	●
	Photo attachment for DSLR digital camera(Nikon, Canon)	●
	C -mount for microscope digital cameras	●
Dimension	39(L) ×38(W) ×70(H)cm	●

### Eyepieces and Objective Parameter

Objective	Magnification/FOV(mm)		Working Distance (mm)
	10× Eyepiece	20× Eyepiece	
0.5×	5×/Φ60	10×/Φ24	143
1×	10×/Φ21	20×/Φ12	102
1.5×	15×/Φ15	30×/Φ8	
2×	20×/Φ11	40×/Φ6	
4×	40×/Φ6	80×/Φ3	
6×	60×/Φ3.9	120×/Φ2	

### Sample Image



## BLM Series LCD Digital Video Microscope

### 1. BLM-280 LCD Digital Biological Video Microscope



#### Introduction

BLM-280 LCD digital microscope is a new generation microscope that has an Android system. It comes with a 9.7" LCD screen, 4-core 1.8G processor, HDMI video output and TF card. You can take photos, take videos and do measurement on the microscope. With friendly man-machine interface, powerful processing function (real-time preview, dynamic calibrating and measuring), easy to operate and comfortable mechanical design, it is your best assistant in biological and medical teaching, inspection and research!

#### Feature

1. BLM-280 digital LCD microscope is a new generation microscope with Android OS, just like a tablet PC.
2. Support WIFI wireless and blue tooth. It's easy to extend the application.
3. With 9.7-inch IPS LCD screen, 4-core 1.8G processor, support 5 point touch, HDMI video output and SD card expansion.

#### Application

BLM-280 LCD Digital microscope is an ideal instrument in biological, histological, pathological field and can be widely used in medical and sanitary establishments, laboratories, institutes, academic laboratories, colleges and universities.

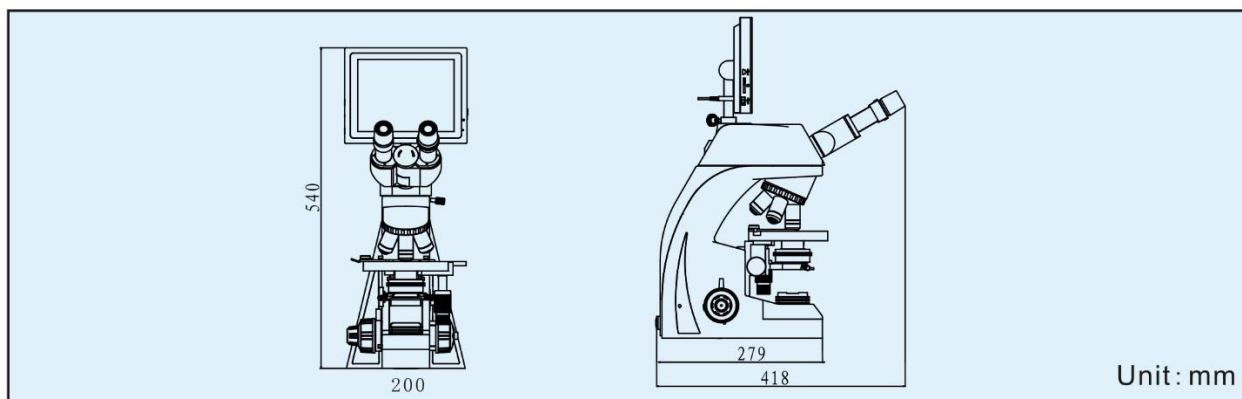
#### Specification

Item	Specification	BLM-280
Digital part	5.0 Mega Pixels CMOS Sensor	●
	Support Wifi and Bluetooth	●
Viewing Head	Compensation Free binocular head, 30° inclined, 360° Rotatable, interpupillary 52-75mm	●
Eyepiece	Wide Field Eyepiece WF10×/18mm	●
	Wide Field Eyepiece WF10×/20mm	○

Objective	Infinite Semi-Plan Achromatic Objective 4×, 10×, 40×, 100×	●
	Infinite Plan Achromatic Objectives 2×, 4×, 10×, 20×, 40×, 60×, 100×	○
Nosepiece	Backward Quadruple Nosepiece	●
	Backward Quintuple Nosepiece	○
Stage	Double Layers Mechanical Stage 140×140mm, moving range: 75×50mm	●
Condenser	Sliding-in centerable condenser NA1.25	●
Focusing	Coaxial Coarse & Fine Adjustment, Fine Division 0.002mm, Coarse Stroke 37.7mm per Rotation, Fine Stroke 0.2mm per Rotation, Moving Range 20mm	●
Illumination	6V/20W Halogen Lamp Illumination, Brightness Adjustable	○
	S-LED Illumination, Brightness Adjustable	●
LCD Screen	9.7-Inch LCD Touching Screen, resolution 2048×1536	●
Output	USB2.0, Mini HDMI	●
OS	Android 5.1	●
Software	S-EYE	●
SD Card	Support TF Card	○
Mouse		○

Note: Note: ● Standard Outfit, ○ Optional

### Dimension



### Sample Image

