BS-2052 Biological Microscope

BS-2052A

BS-2052A(ECO)

BS-2052B

BS-2052B(ECO)

BS-2052AT

BS-2052AT(ECO)

BS-2052BT

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.

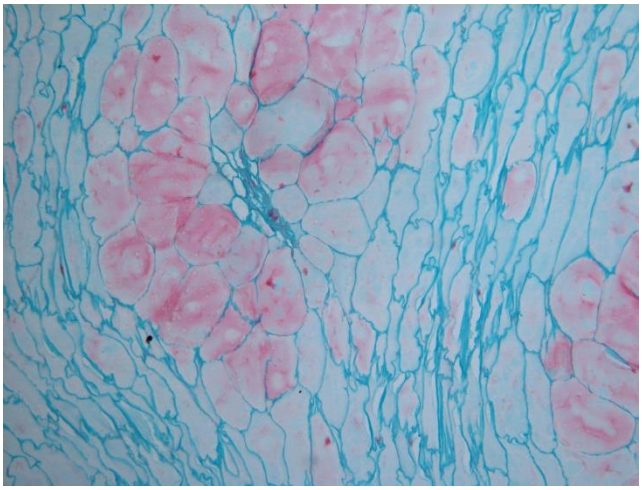
Specification

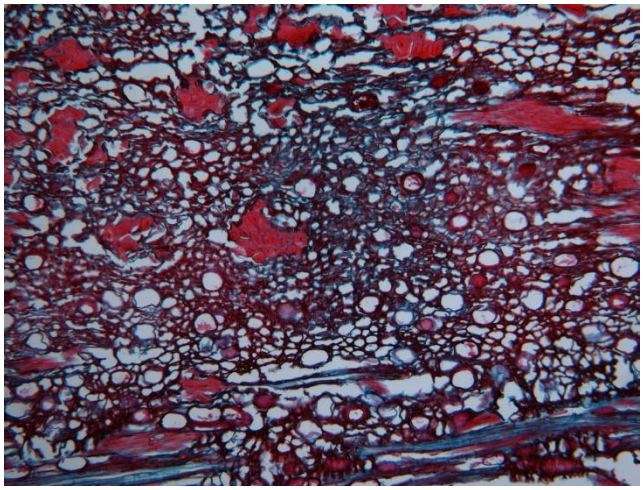
Item	Specification	BS-2052AT(ECO)	BS-2052BT(ECO)
Optical System	Finite Optical System	●	
	Infinite Optical System		●
Eyepiece	WF10×/18mm	●	
	WF10×/20mm		●
Viewing Head	Monocular Head, inclined at 30°	○	
	Seidentopf Binocular Head, inclined at 30°, Interpupillary 47-78mm	○	○
	Seidentopf Trinocular Head, 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	●	●

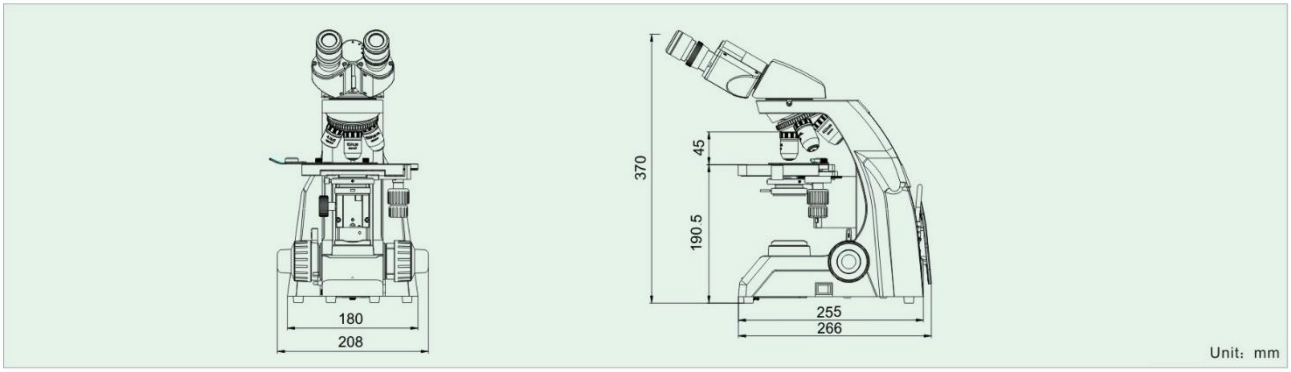
Note: ● Standard Outfit, ○ Optional

Sample Image





Dimension



25. BS-2053, 2054 Biological Microscope

BS-2053B

BS-2053T

BS-2054B

BS-2054T

Introduction

BS-2053 and BS-2054 series microscopes are specially designed for various microscopy needs such as teaching and clinical diagnosis. It has good optical quality, wide field of view, excellent objective performance, clear and reliable

imaging. Ergonomic design provides better comfort and use experience, pays attention to the user's operating habits, starts from the details, and constantly optimizes. Modular design can realize various observation methods such as bright field, dark field, phase contrast, fluorescence, etc., providing more possibilities for your scientific research and exploration. It takes up little space and is very convenient for handling, storage and maintenance, it is the first choice for microscope beginners.

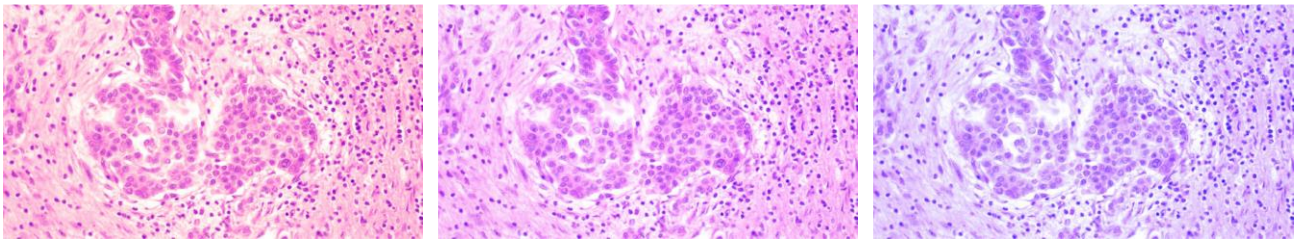
Feature

1. Excellent Image Quality

NIS optical system and optical elements using advanced coating technology make it easy to obtain good quality imaging. Excellent optical system is the guarantee of obtaining plan and clear images. Infinite achromatic semi-pan objective and even plan objective can be used in this microscope. It can provide clear images with high contrast, and the clear range can reach to the edge of the field of view. It also has bright and uniform illumination.

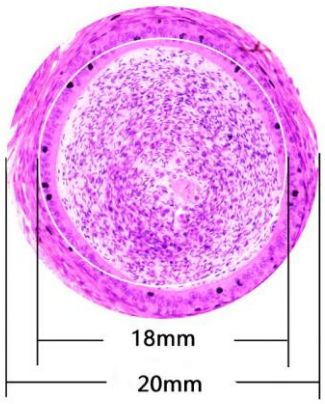
2. BS-2054 has color temperature adjustable function

BS-2054 has color temperature adjustable function, the color temperature can be adjusted to makes the sample present natural color. Its color temperature changes according to observation needs, even if the user changes the brightness, it can maintain the brightness and color temperature comfortably. The LED design life is 60,000 hours, which not only reduces maintenance costs, but also stabilizes the brightness during the whole service life.



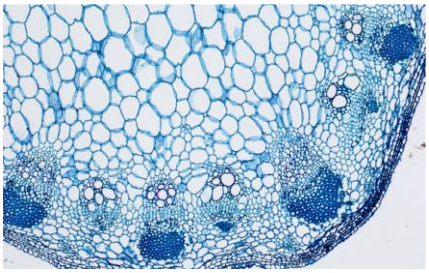
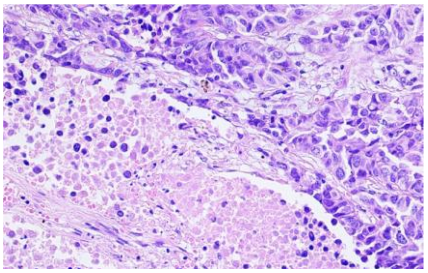
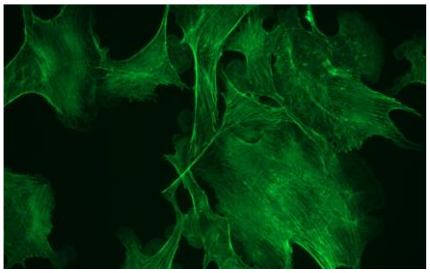
3. Wide Field of View

BS-2053, 2054 series microscopes can achieve the 20mm wide field of view under the 10X eyepiece, with more comprehensive observation field and faster sample observation. The eyepiece adopts the plan and distortion-free design to prevent blurring at the edges of the field of view and stray light.



4. Realize Various Observation Methods

Bright Field	Dark Field	Phase Contrast	Fluorescence	Simple Polarization
●	●	●	●	●

5. Applicable to Any Environment

Anti-mold treatment greatly extends the service life of the microscope. Since the objective, eyepiece and observation tube are all effectively anti-mildew treated, they can ensure continuous clear image and prolong the service life of the microscope. Even working in hot and high humid environment is not affected the working life.

6. Easy to Store and Transport

BS-2053, BS2054 series microscopes are small enough to fit into a common classroom cabinet. There is a special carrying handle at the back, and it has light weight, good stability and stable structure. The back panel of the microscope is designed with a hub device, which can effectively store the long power cord, improve the cleanliness of the laboratory, and also reduce the trip accidents caused by the long power cord during transportation. Wooden storage box as an optional accessory can bring great convenience for storage and handling.

7. External power adapter, safer than ordinary microscopes.

External power adapter with DC5V input, safer than ordinary microscopes.

8. Ergonomic Design

BS-2053, BS2054 series microscopes adopt ergonomic design, high eye point, low-hand focusing mechanism, low-hand stage and other ergonomic designs to ensure that users can operate the microscope under the most comfortable conditions and minimize the working fatigue.

9. Extremely Smooth Nosepiece

The nosepiece adopts a low damping design, high-precision machining ensures smoothness and durability in use. The nosepiece has a rubber ring, which is ergonomic and easy to convert.

10. Stage Designed for Beginners

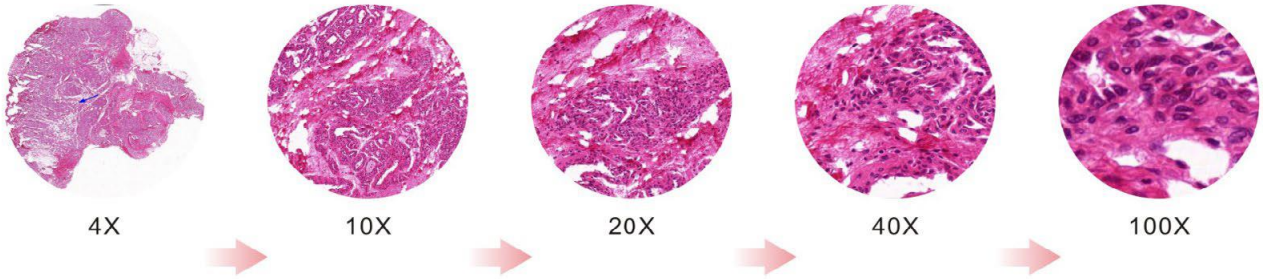
The rackless stage prevents users from being scratched by exposed rack during use. The slide clip can be easily operated with one hand. When the upper limit of the stage is locked, accidental contact between the objectives and the slide can be avoided, which can prevent damage to samples and objectives. The coarse focus torque adjustment device can adjust the comfort of use according to personal operating habits.

11. Binocular head with built-in WIFI digital camera is optional

Built-in high-definition HDMI&WIFI digital camera, support 5.0MP picture capture, 1080P video preview and capture. Supporting Android, IOS, windows operating system. The high-definition images under the microscope can be output to external devices in real time, and there is no data cable connection, the operator is more free to move. Observation, analysis and processing of microscopic imaging can be realized in external equipment, including photographing, measurement, image adjustment, storage, processing, etc.

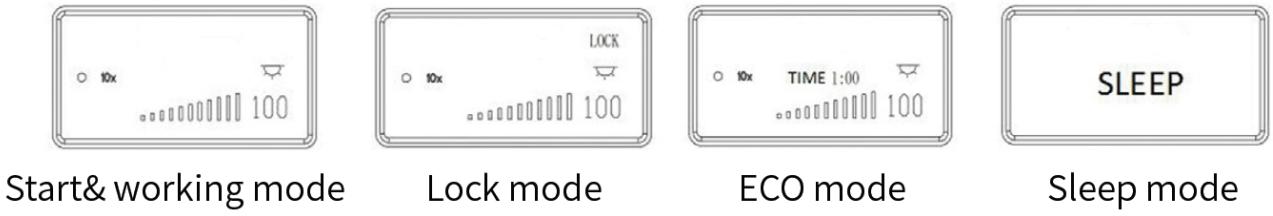
12. Coded Nosepiece

BS-2054 has coded nosepiece, the illumination brightness could be remembered. When different objectives are switched, the light intensity is automatically adjusted to reduce visual fatigue and improve work efficiency.



13. Microscope Use Status Display

The LCD screen in the front of the BS-2054 series microscopes can display the working status of the microscope, including magnification, light intensity, standby status, etc.



Start& working mode Lock mode ECO mode Sleep mode

Application

BS-2053, 2054 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.

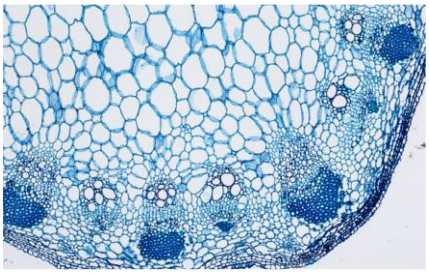
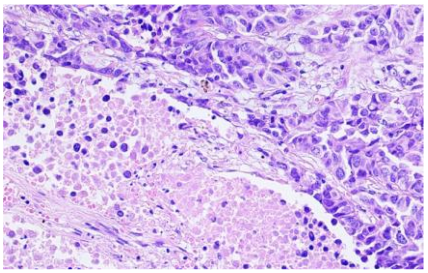
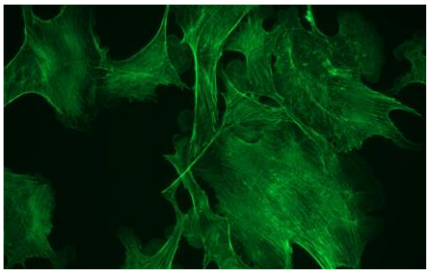
Specification

Item	Specification		BS-2053B	BS-2054B
Optical System	Infinite Optical System		●	●
Eyepiece	WF10×/20mm		●	●
Viewing Head	Seidentopf Binocular Head, inclined at 30°, Interpupillary 47-78mm, both eyepiece tube diopter adjustable		●	●
	Seidentopf Trinocular Head, inclined at 30°, Interpupillary 47-78mm, both eyepiece tube diopter adjustable		○	○
	Seidentopf Binocular Head with built-in USB2.0 digital camera (8.3MP/5.1MP, 30fps), inclined at 30°, Interpupillary 47-78mm, both eyepiece tube diopter adjustable		○	○
	Seidentopf Binocular Head with built-in HDMI&WIFI digital camera (5.0MP image capture, 1080P video preview and capture, 30fps), inclined at 30°, Interpupillary 47-78mm, both eyepiece tube diopter adjustable		○	○
Objective	Infinite Semi-Plan Achromatic Objectives	4×, NA=0.10, WD=28mm	●	●
		10×, NA=0.25, WD=5.8mm	●	●
		40× (S), NA=0.65, WD=0.43mm	●	●
		100× (S, Oil), NA=1.25, WD=0.13mm	●	●
	Infinite Plan Achromatic Objectives	2×, NA=0.05, WD=18.3mm	○	○

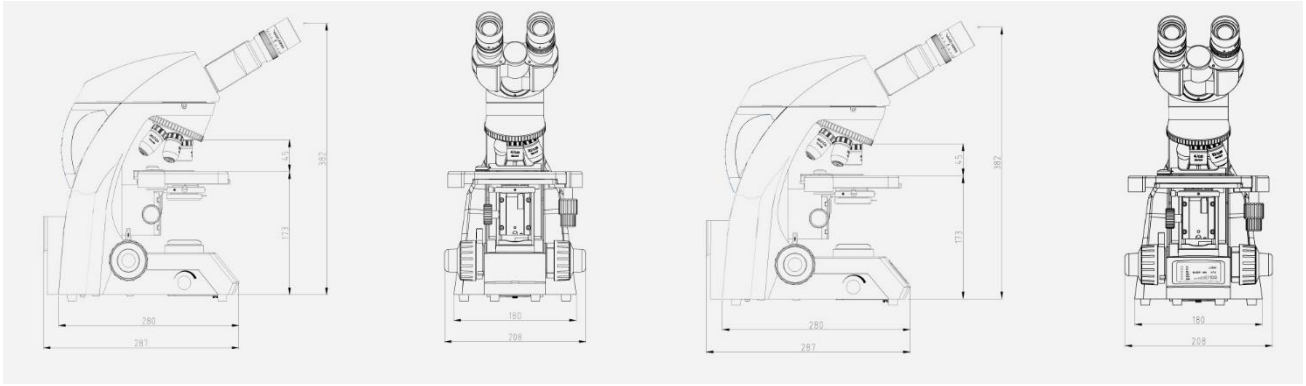
		4×, NA=0.10, WD=28mm	○	○
		10×, NA=0.25, WD=10mm	○	○
		20×, NA=0.40, WD=5.1mm	○	○
		40× (S), NA=0.65, WD=0.7mm	○	○
		50× (S, Oil), NA=0.90, WD=0.12mm	○	○
		60× (S), NA=0.80, WD=0.14mm	○	○
		100× (S, Oil), NA=1.25, WD=0.18mm	○	○
	Infinite Plan Fluorescent Objective	4×, NA=0.13, WD=16.3mm	○	○
		10×, NA=0.30, WD=12.4mm	○	○
		20×, NA=0.50, WD=1.5mm	○	○
		40× (S), NA=0.75, WD=0.35mm	○	○
		100× (S, Oil), NA=1.30, WD=0.13mm	○	○
Nosepiece	Backward Quintuple Nosepiece		●	
	Backward Coded Quintuple Nosepiece			●
Stage	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, Left hand has Height Limit Lock, Right Hand has Coarse Tension Adjustment Function. Coarse Stroke 37.7mm per Rotation, Fine division 0.002mm, Fine Stroke 0.2mm per Rotation, Moving Range 20mm		●	●
Illumination	3W LED Illumination, Brightness Adjustable		●	●
	Kohler Illumination		○	○
	Illumination management system, LCD Displays Magnification, Brightness, Color Temperature adjustment, etc		○	●
Other Accessories	Dust Cover		●	●
	Power Adapter DC5V Input		●	●
	Instruction Manual		●	●
	Green Filter		●	●
	Blue/Yellow/Red Filter		○	○
	0.5× C-mount Adapter		○	○
	1× C-mount Adapter		○	○
	BPHB-4 Phase Contrast Kit		○	○
	Simple Polarizing Set		○	○
	FL-LED Epi-fluorescent Attachment		○	○
	Mercury Fluorescent Illumination		○	○
Reliability	Anti-mold Treatment on all the optics		●	●
Packing	1pc/carton, 36*26*46cm, gross weight: 8kg		●	●

Note: ● Standard Outfit, ○ Optional

Sample Image

Dimension



BS-2053B BS-2054B

Unit: mm

26. 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.

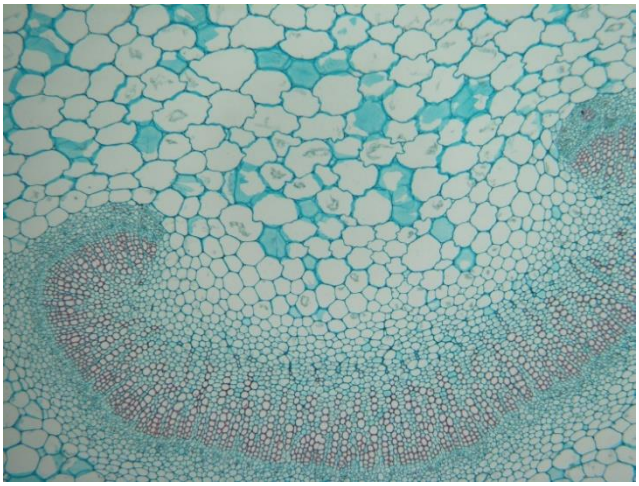
Specification

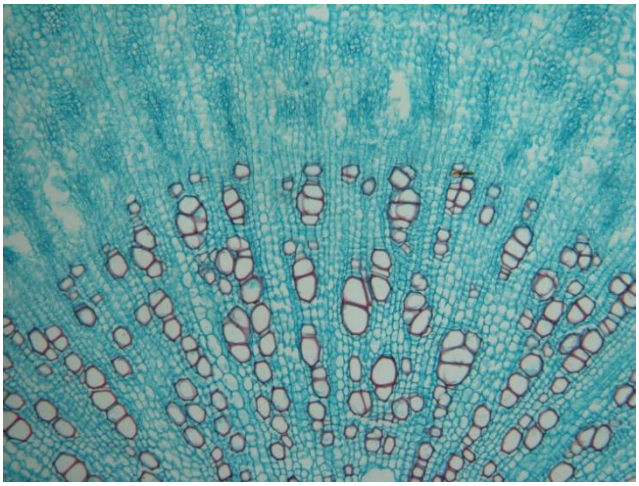
Item	Specification	BS-2063B	BS-2063T
Optical System	Color Corrected Infinite Optical System	●	●
Viewing Head	Seidentopf Binocular Head, Inclined 30°, Rotatable 360°, Interpupilary Distance: 48-76mm	●	
	Seidentopf Trinocular Head, Inclined 30°, Rotatable 360°, Interpupilary Distance: 48-76mm, Light distribution (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, 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	●	●

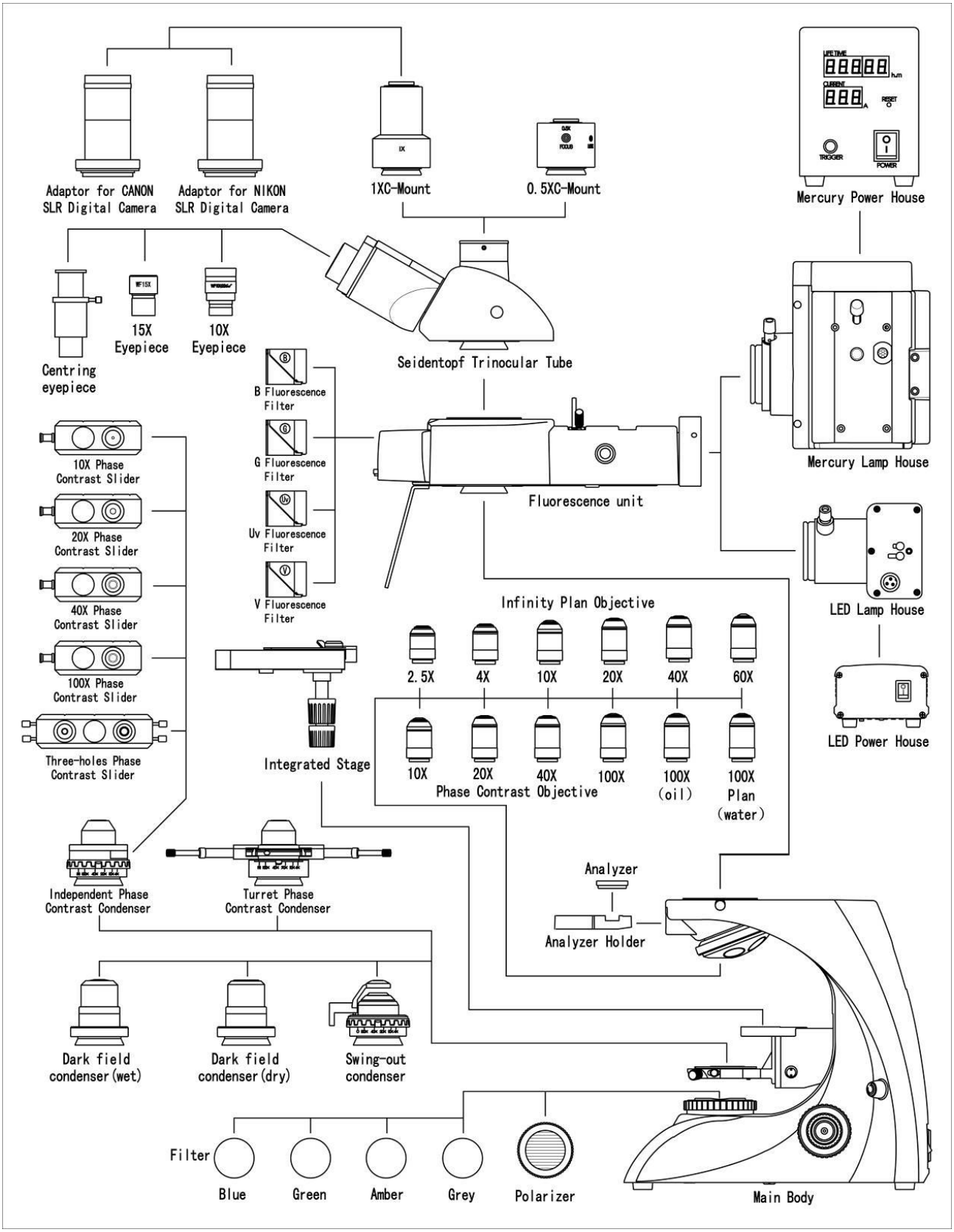
Note: ●Standard Outfit, ○Optional

Sample Image

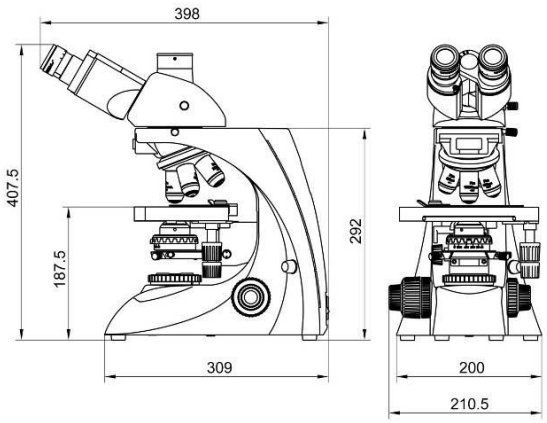




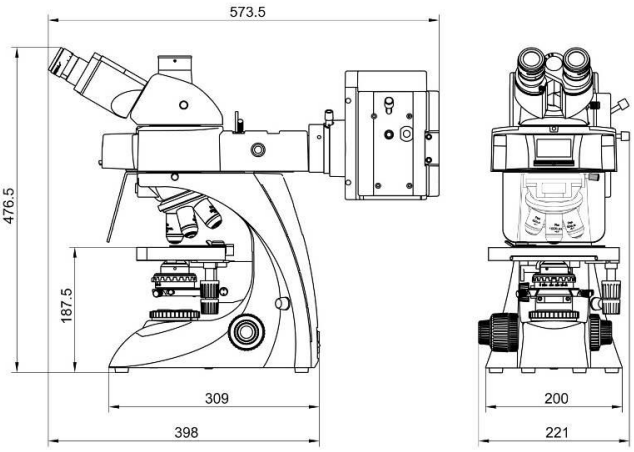
System Diagram



Dimension



BS-2063T Dimension



BS-2063FT Dimension

27. 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

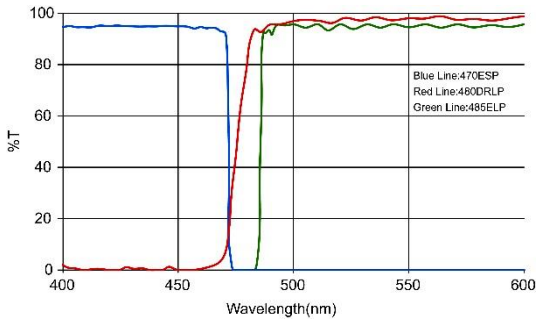
Item	Specification	BS-2063 FB(LED)	BS-2063 FT(LED)
Optical System	Color Corrected Infinite Optical System	●	●
Viewing Head	Seidentopf Binocular Head, Inclined 30°, Rotatable 360°, Interpupilary Distance: 48-76mm	●	
	Seidentopf Trinocular Head, Inclined 30°, Rotatable 360°, Interpupilary Distance: 48-76mm, 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	●	●

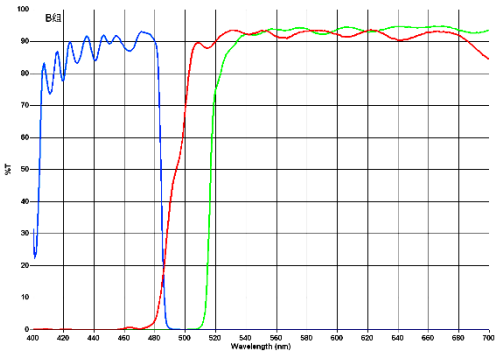
Note: "●"In Table Is Standard outfits, "○" Is Optional Accessories.

Fluorescent filters

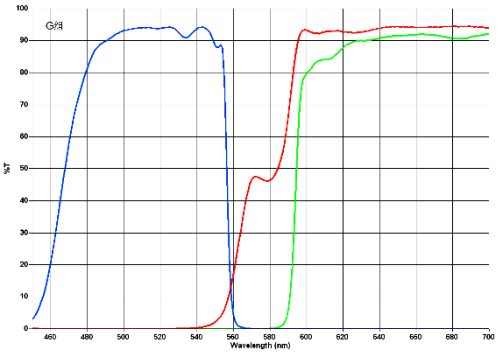
Auramine O	Wavelength (nm)
Exciter	470Sp
Dichroic	480DRLP
Barrier	485LP



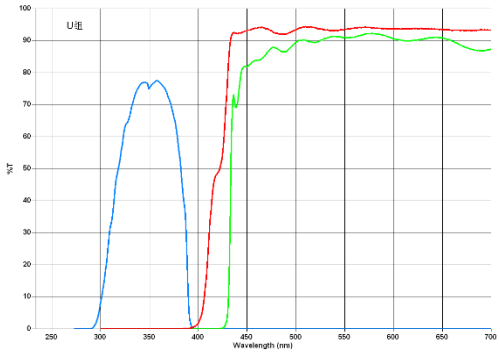
B Excitation	Wavelength (nm)
Exciter	470/37
Dichroic	505LP
Barrier	515LP



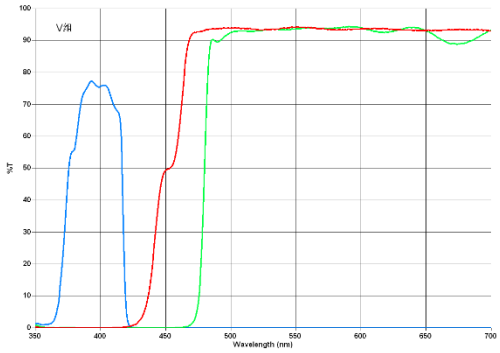
G Excitation	Wavelength (nm)
Exciter	500-550
Dichroic	575
Barrier	590



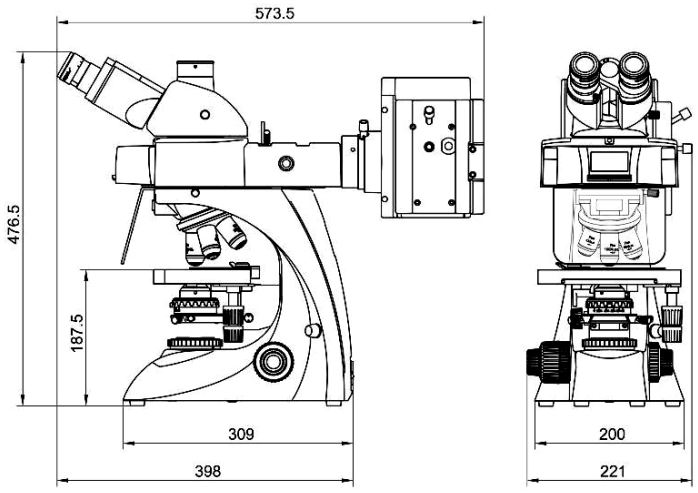
Uv Excitation	Wavelength (nm)
Exciter	330-380
Dichroic	400
Barrier	435



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

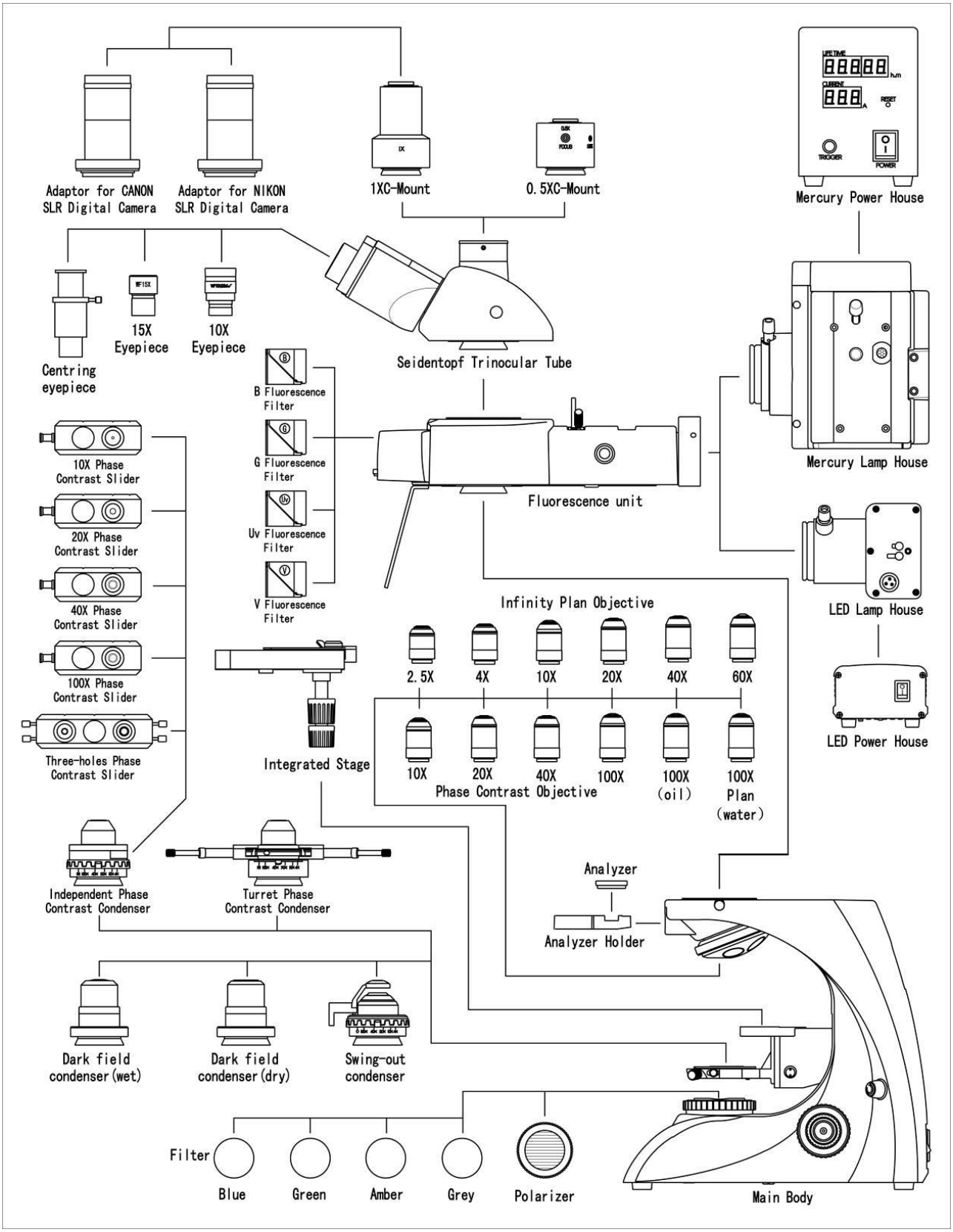


Dimension



Unit: mm

Layout Diagram



28. 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

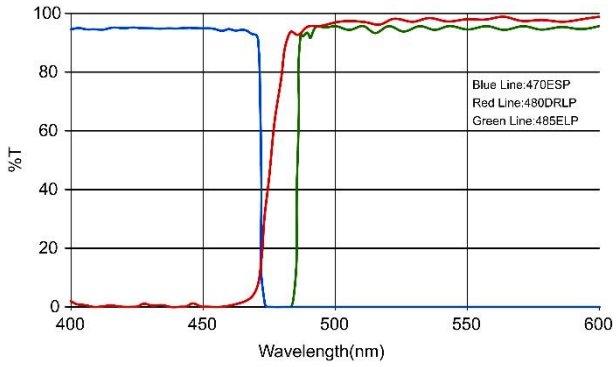
Item	Specification	BS-2063FB (LED,TB)	BS-2063FT (LED,TB)
Optical System	Color Corrected Infinite Optical System	●	●
Viewing Head	Seidentopf Binocular Head, Inclined 30°, Rotatable 360°, Interpupillary Distance: 48-76mm	●	
	Seidentopf Trinocular Head, Inclined 30°, Rotatable 360°, Interpupillary Distance: 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

Auramine O	Wavelength (nm)
Exciter	470Sp
Dichroic	480DRLP
Barrier	485LP



29. BS-2064 Biological Microscope

BS-2064B

BS-2064T

BS-2064FB(LED)

BS-2064FT

BS-2064T with Ceramics stage

Introduction

BS-2064 series microscopes are high end microscopes which are specially designed for college education, medical and laboratory teaching and research. With excellent infinity color corrected optical system, new upgraded Koehler illumination system, presents a clear & bright micro-image under each magnification. Ergonomically designed to provide better comfort and experience. The modular design allows for various viewing modes such as brightfield, darkfield, phase contrast, fluorescence and simple polarizing. This series microscopes are widely apply to clinical diagnosis, teaching experiment, pathological test and other micro-fields.

Features

1. High rigidity body structure.

Fire-new designed integrative Y-shaped body, all-metal diecasted under high pressure, High image quality with high stability under every magnification observation. Ensures the test precision of multi-channel fluorescence diagnosis.

2. High precise low position focusing system.

Low position high precise coaxial coarse and fine adjustment, with ergonomics design, create the best comfort to operator.

3. Screwdriver storage device.

The screwdriver storage device makes full use of the space of the microscope, the screwdriver at users' fingertips enables users to improve work efficiency.

4. Mechanical stage.

(1) Standard 175×145mm right-hand double-layer mechanical stage, damping double slice clamp design, can place two slices at the same time for inspection and comparative analysis.

(2) Optional 150mm×162mm ceramic spray mechanical stage, which is not only wear-resistant and anti-corrosive, but also can reduce platform deformation caused by temperature changes.

(3) Optional 187×166mm super large double-layer mechanical stage, two-way linear rail transmission, left and right hand positions are optional.

5. Safe carrying design.

The rear side of the microscope has been designed with a handle position, which makes it safe and easy when carry the whole microscope.

Application

BS-2064 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, clinics, medical colleges and universities.

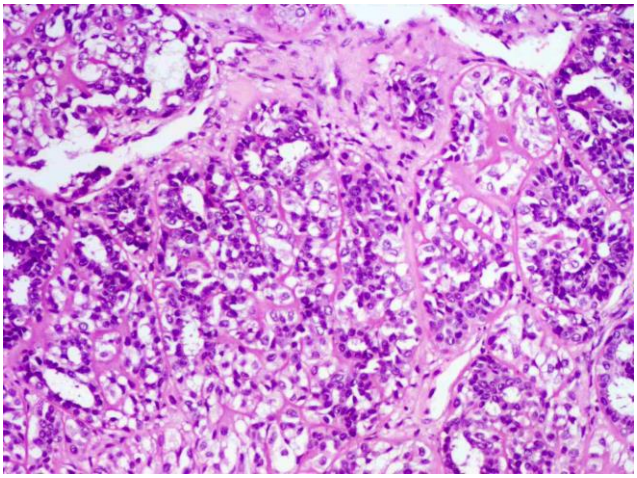
Specification

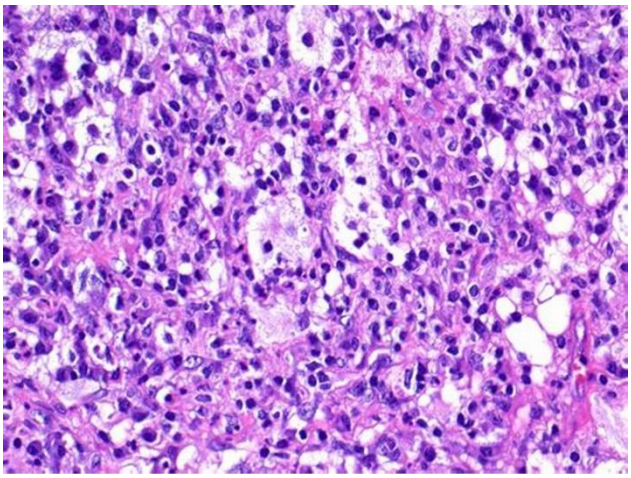
Item	Specification		BS-2064B	BS-2064T
Optical System	Infinity color corrected optical system		●	●
Eyepiece	High eye-point wide field plan eyepiece PL10x/22mm, reticle can be assembled.		●	●
	High eye-point wide field plan eyepiece PL15x/16mm		○	○
Viewing Head	Seidentopf Binocular Viewing Head, Inclined at 30°, 360° Rotatable, Interpupillary distance 54-75mm, diopter +/- 5 adjustable on left tube, Anti-Fungus, Tube Diameter 30mm		●	
	Seidentopf Trinocular Viewing Head, Inclined at 30°, 360° Rotatable, Interpupillary distance 54-75mm, Splitting ratio(trinocular:eyepiece): 0:100 or 50:50, diopter +/- 5 adjustable on left tube, Anti-Fungus, Tube Diameter 30mm			●
	Seidentopf Trinocular Viewing Head, Inclined at 30°, 360° Rotatable, Interpupillary distance 54-75mm, Splitting ratio(trinocular:eyepiece): 0:100 or 100:0, diopter +/- 5 adjustable on left tube, Anti-Fungus, Tube Diameter 30mm		○	○
	Seidentopf Trinocular Tilting Viewing Head, Inclined at 5°-35°, Interpupillary distance 54-75mm, Splitting ratio(trinocular:eyepiece): 0:100 or 100:0, diopter +/- 5 adjustable on left tube, Anti-Fungus, Tube Diameter 30mm		○	○
	Seidentopf Binocular Tilting Viewing Head, Inclined at 30°-60°, Interpupillary distance 54-75mm, diopter +/- 5 adjustable on left tube, Anti-Fungus, Tube Diameter 30mm		○	○
Objective	Infinite Plan Achromatic Objective	Plan2× (N.A.:0.06, W.D.:5.0mm)	○	○
		Plan 4× (N.A.:0.10, W.D.:11.9mm)	●	●
		Plan 10× (N.A.:0.25, W.D.:12.1mm)	●	●
		Plan 20× (N.A.:0.45, W.D.:1.5mm)	○	○
		Plan 40× (N.A.:0.65, W.D.:0.36mm)	●	●
		Plan 60× (N.A.:0.85, W.D.:0.3mm)	○	○
		Plan 100× (N.A.:1.25, W.D.:0.18mm)	●	●
	Infinite Plan Phase Contrast Achromatic Objective	PH10× (N.A.:0.25, W.D.:12.1mm)	○	○
		PH20× (N.A.:0.45, W.D.:1.5mm)	○	○
		PH40× (N.A.:0.65, W.D.:0.36mm)	○	○
		PH100× (N.A.:1.25, W.D.:0.18mm)	○	○
	Infinite Plan Semi-APO Fluorescent Objective	Plan Fluor 4× (N.A.:0.13, W.D.:16.43mm)	○	○
		Plan Fluor 10× (N.A.:0.30, W.D.:8.13mm)	○	○
		Plan Fluor 20× (N.A.:0.50, W.D.:2.03mm)	○	○
		Plan Fluor 40× (N.A.:0.75, W.D.:0.73mm)	○	○
		Plan Fluor 100× (N.A.:1.28, W.D.:0.18mm)	○	○
Nosepiece	Backward Quintuple Nosepiece		●	●

Stage	175x145mm double layer mechanical stage (X, Y moving hand wheel in right or left hand); moving range: 76x50mm, precision: 0.1mm.	●	●
	150x162mm rackless double layer mechanical stage, moving range: 76x50mm, precision: 0.1mm; only X-direction wire movement, ceramics coated.	○	○
	187x166mm rackless double layer mechanical stage (X, Y moving hand wheel in right or left hand), moving range: 80x55mm, precision: 0.1mm; Tension adjustable.	○	○
Condenser	N.A.1.2/0.22 swing-out type achromatic condense	●	●
	N.A.0.9 swing-out type achromatic condenser	○	○
	N.A.1.25 quintuple phase contrast condenser	○	○
	N.A.0.9 dry dark field condenser	○	○
	N.A.1.25 oil dark field condenser.	○	○
Focusing	Low position Coaxial coarse and fine adjustment, with upper limited and tension adjustment; moving range: 30mm; fine division: 0.002mm; focus height adjustable	●	●
Transmitted Illumination	Wide voltage: 100-240V, built-in transmitted Koehler illumination; 6V/30W halogen, pre-centered, intensity adjustable.	●	●
	Wide voltage: 100-240V, built-in transmitted Koehler illumination; 3W high brightness LED lamp, pre-centered, intensity adjustable.	○	○
LED Fluorescent Attachment	Reflected fluorescence illumination, 6-position, B, G, U, V fluorescent filters are available	○	○
	3W LED, LED lamps for B, G, U, V fluorescent filters are available	○	○
Mercury Fluorescent Attachment	Reflected fluorescence Koehler illumination with alterable field diaphragm and aperture diaphragm (Center adjustable), 6-position, B, G, U, V fluorescent filters are available	○	○
	Mercury lamp house, the center and focal length of filament is adjustable	○	○
	Digital power control box of mercury lamp, wide voltage: 100-240V AC	○	○
	OSRAM 100W DC mercury bulb	○	○
Polarizing kit	Analyzer 360° rotatable; polarizer and analyzer can be out of light path	○	○
C-mount Adapters (Adjustable)	0.35× C-mount adapter	○	○
	0.5× C-mount adapter	○	○
	0.65× C-mount adapter	○	○
	1× C-mount adapter	○	○
Filter	Blue(45mm)	●	●
	Green, Yellow, neutral filter, ND25, ND50(45mm)	○	○
Package	1pc/carton, Carton size: 44cm*42cm*55cm, Net/Gross Weight: 15kg/16kg	●	●

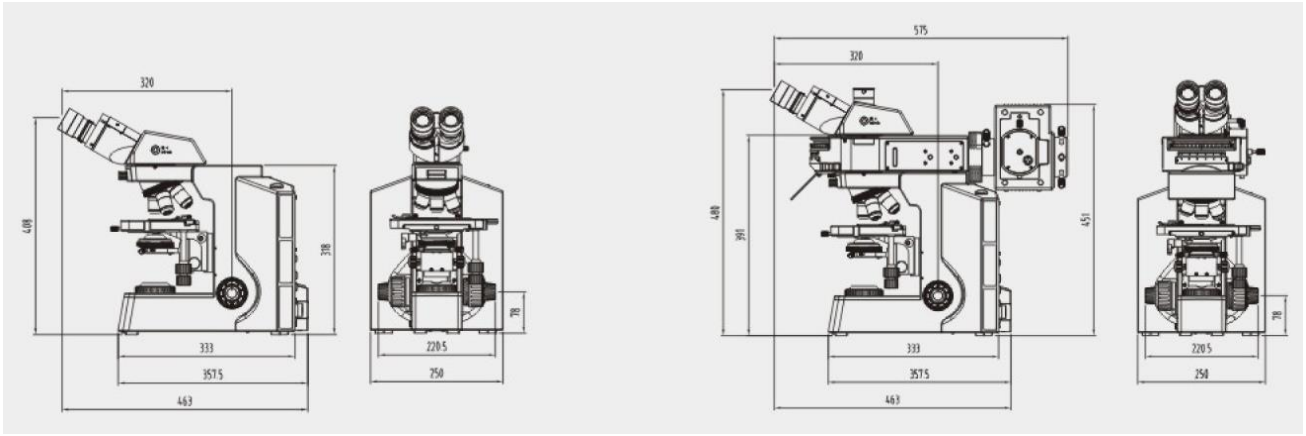
Note: ●Standard Outfit, ○Optional

Sample Image





Dimension



Unit: mm

30. BS-2073 Biological Microscope

BS-2073B

BS-2073T

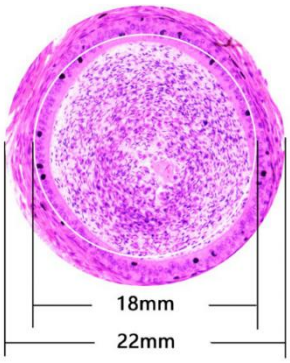
BS-2073FB(LED)

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.

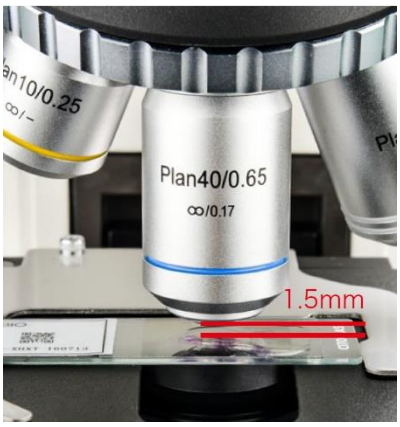
Observation Methods	Bright Field	Dark Field	Phase Contrast	Fluorescent	Simple Polarizing
	●	●	●	●	●

(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 4×-100× 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

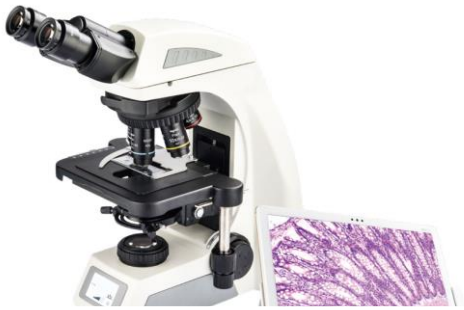
air pollution and improper cleaning. The water-immersion objective uses water as the medium, it is easy to clean, it also reduces the damage to the user's health and environmental pollution.

(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.

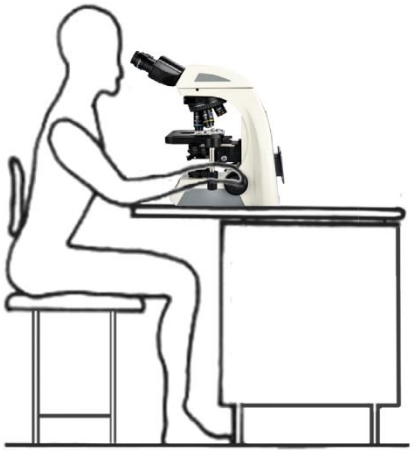
(4) External rechargeable battery can be used as the power source. A USB charging port is reserved on the back of the microscope, external rechargeable portable battery can be connected to this port and used as power source of the microscope. So this microscope can be used outdoor or during power outages.

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.

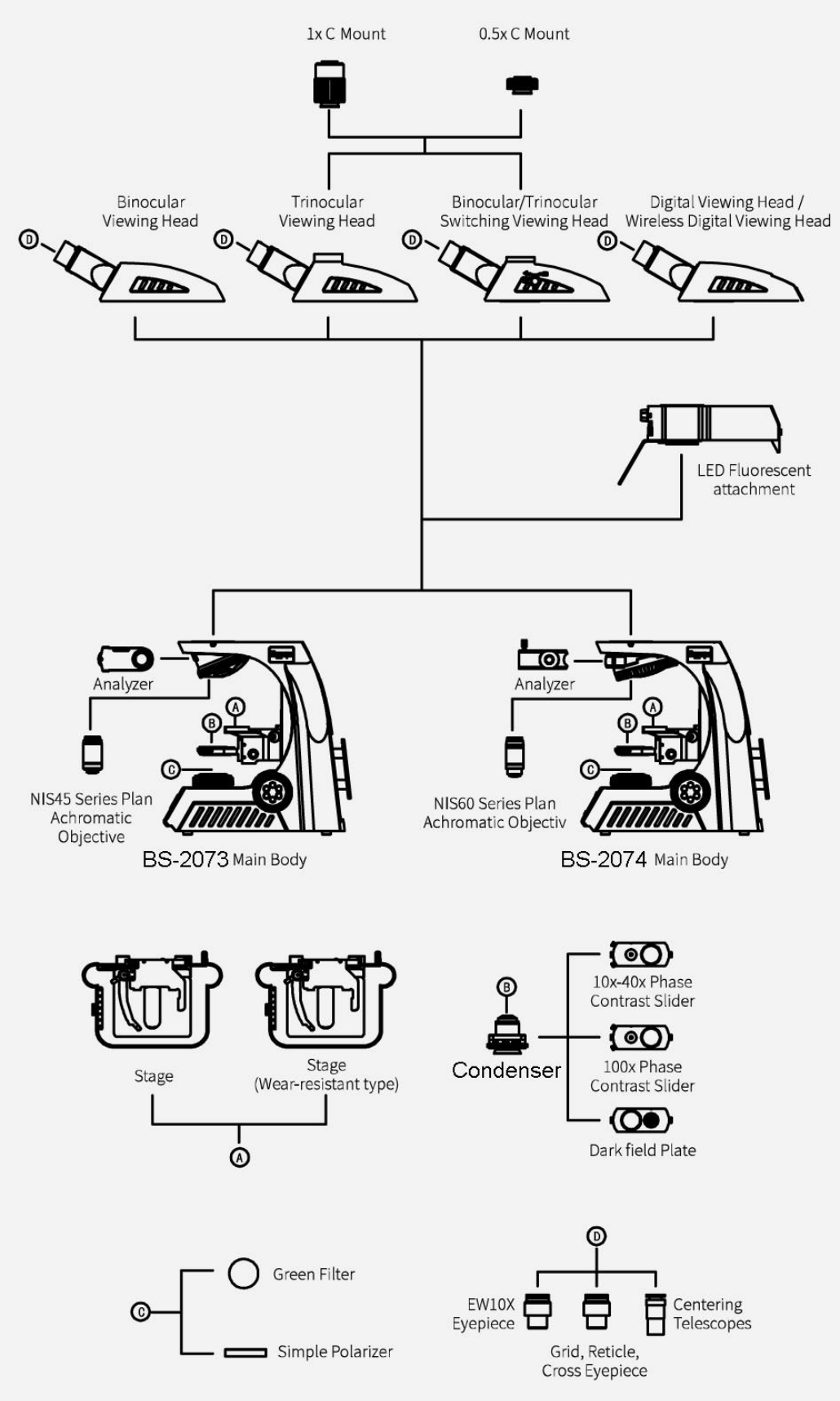
Specification

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	○	○

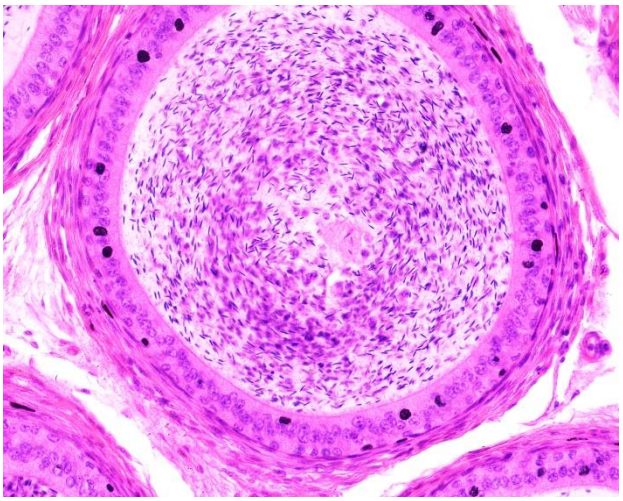
Viewing Head	Seidentopf Binocular Viewing Head, Inclined at 30°, 360° Rotatable, Interpupillary 47-78mm, Anti-Fungus, Tube Diameter 30mm	●	
	Seidentopf Trinocular Viewing Head, Inclined at 30°, 360° Rotatable, Interpupillary 47-78mm, Splitting ratio 5:5, Anti-Fungus, Tube Diameter 30mm		●
	Seidentopf Binocular Viewing Head with Built-in 5.0MP Digital Camera, USB2.0 output interface, Inclined at 30°, 360° Rotatable, Interpupillary 47-78mm, 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.:0.16mm)	●	●
	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 Achromatic Objective 100× (Water, N.A.:1.10, W.D.:0.2mm)	○	○
	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	●	●

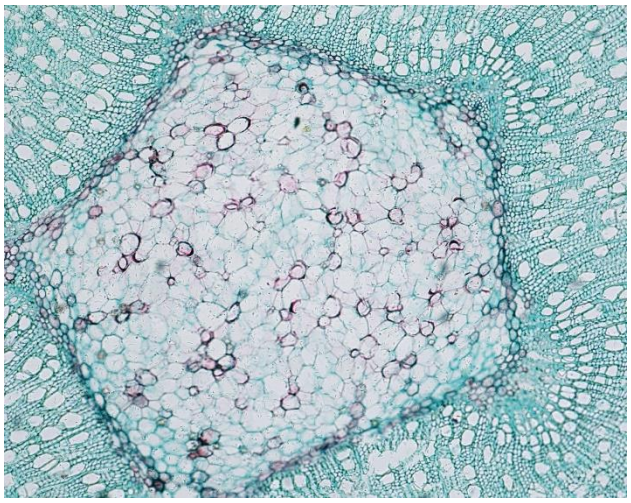
Note: ●Standard Outfit, ○Optional

System Diagram

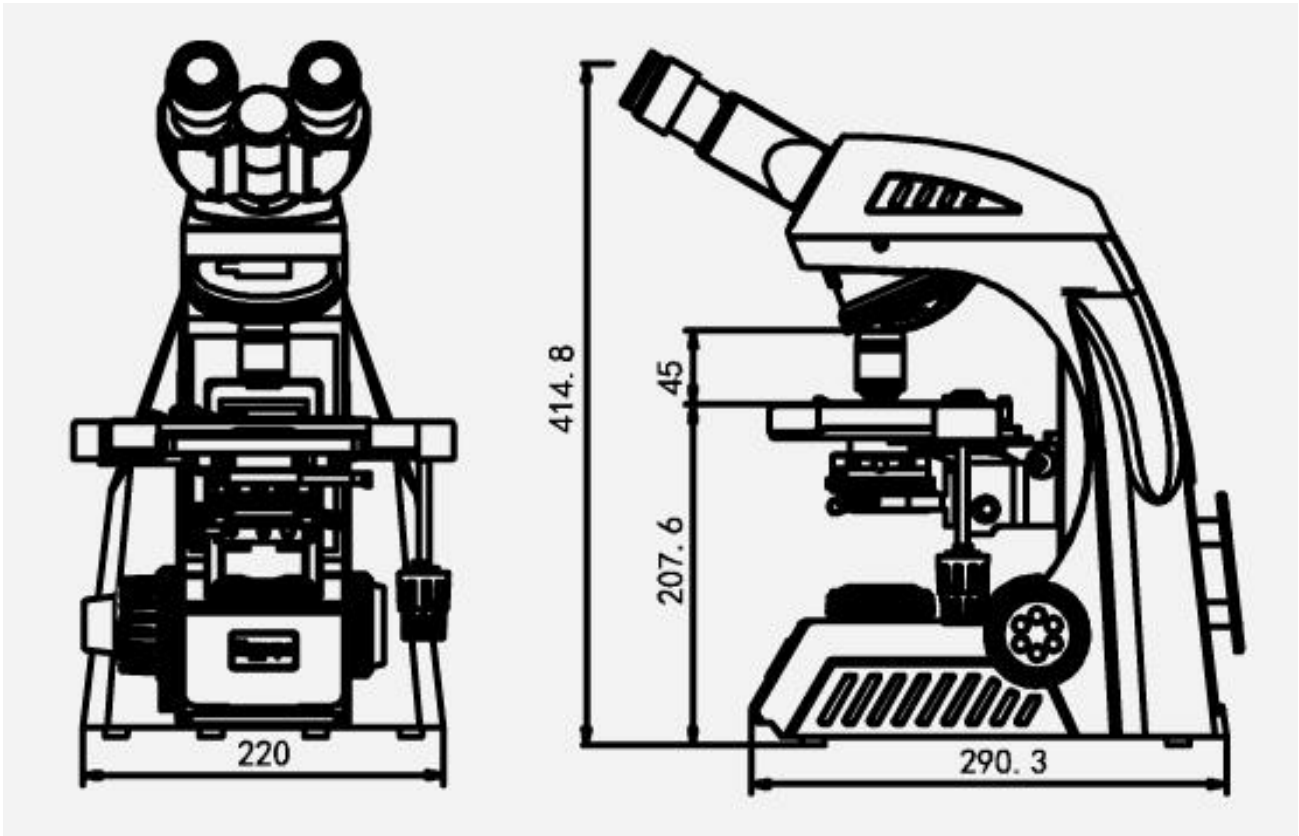


Sample Image





Dimension



Unit:mm

31. BS-2074 Biological Microscope

BS-2074B

BS-2074T

BS-2074FB(LED)

Introduction

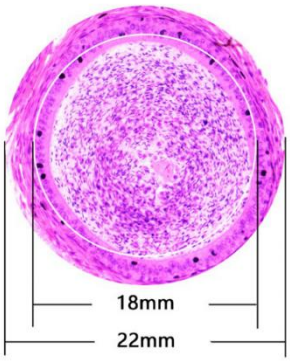
BS-2074 series microscopes are high level microscopes which are specially designed for college education, medical and laboratory research. With excellent optical quality, large field of view, excellent objective lens performance, clear and reliable imaging. Ergonomically designed to provide better comfort 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.

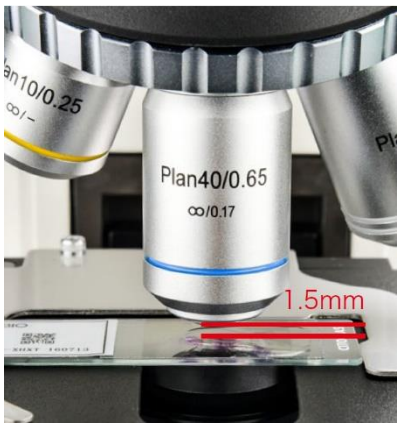
Observation Methods	Bright Field	Dark Field	Phase Contrast	Fluorescent	Simple Polarizing
	●	●	●	●	●

(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 4×-100× 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.

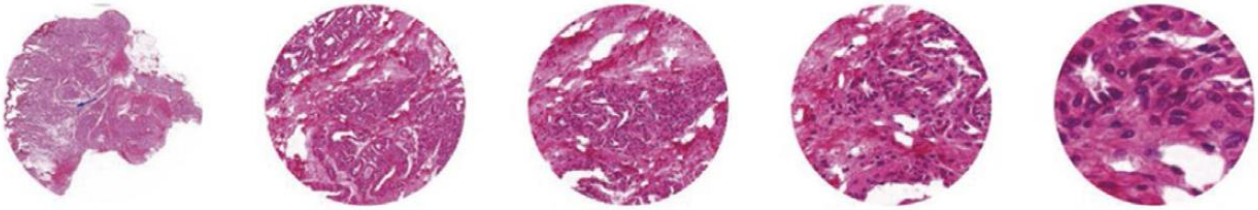
(3) Perform image preview and processing by scanning with Mobile devices. By scanning the QR code on the microscope, installing the APP and identifying the microscope, you can view the microscopic image on your phone and tablet.

(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

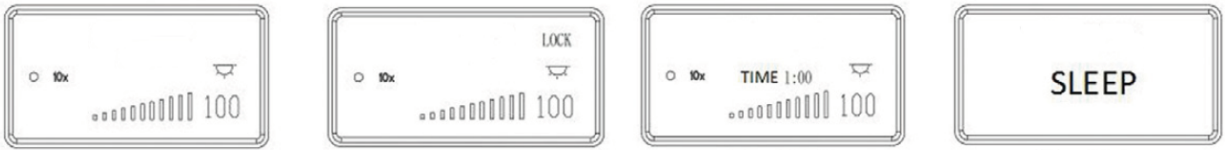
Press + Up-spin: Switch to the upper light source

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.

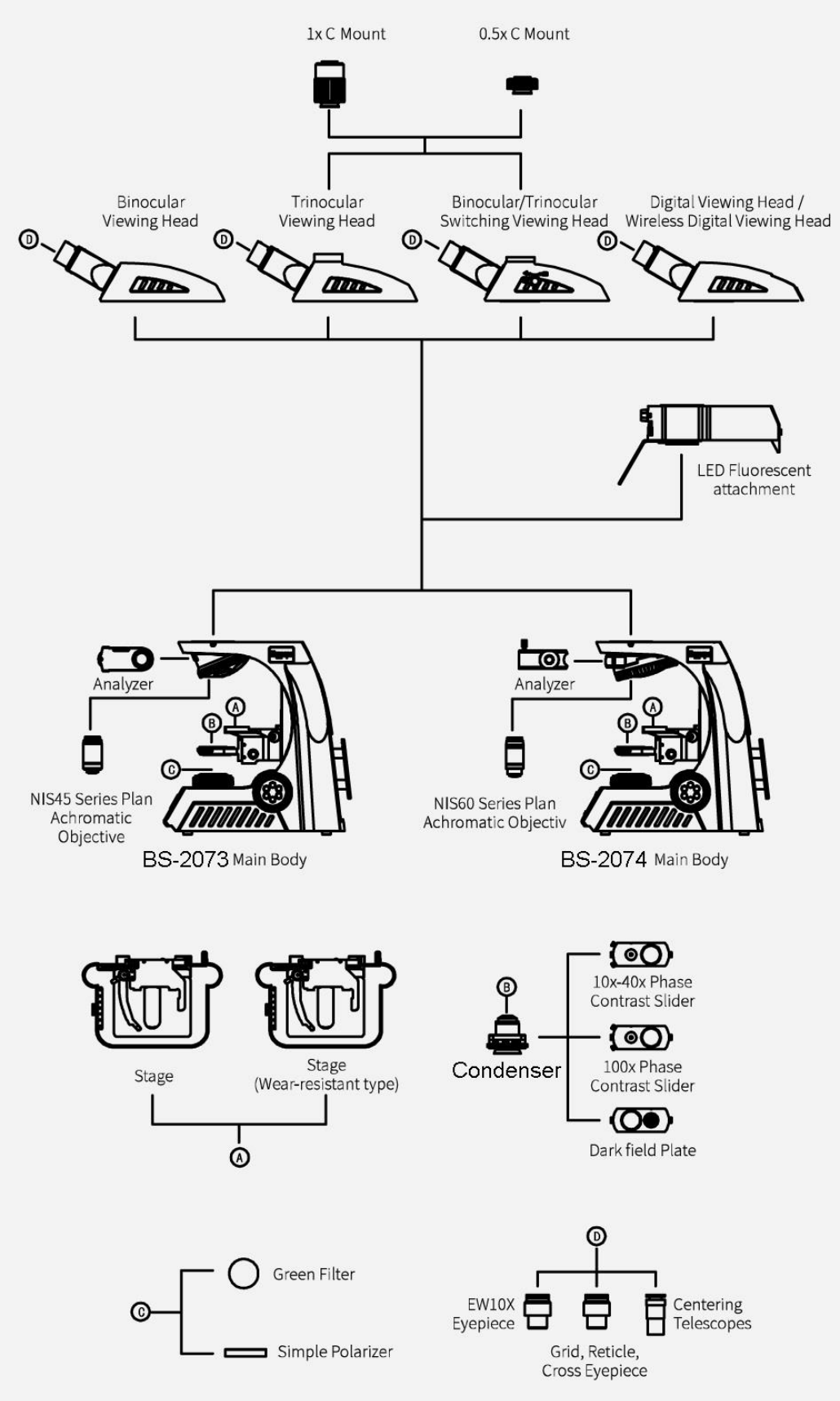
Specification

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

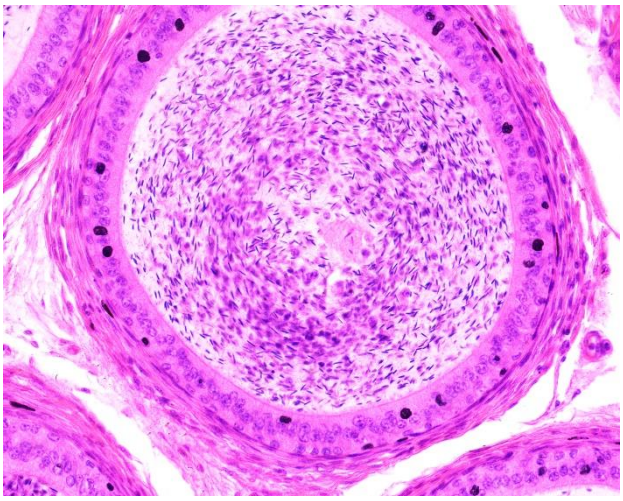
	Wide Field Eyepiece WF20×/12mm	○	○
Viewing Head	Seidentopf Binocular Viewing Head, Inclined at 30°, 360° Rotatable, Interpupillary 47-78mm, Anti-Fungus, Tube Diameter 30mm	●	
	Seidentopf Trinocular Viewing Head, Inclined at 30°, 360° Rotatable, Interpupillary 47-78mm, Splitting ratio 5:5, Anti-Fungus, 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	●	●

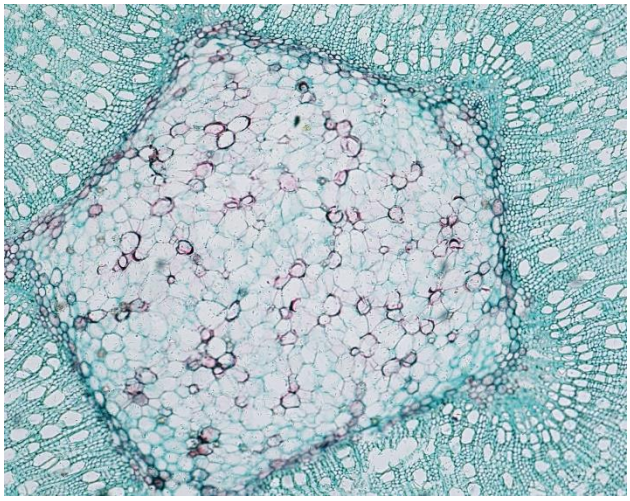
Note: ●Standard Outfit, ○Optional

System Diagram

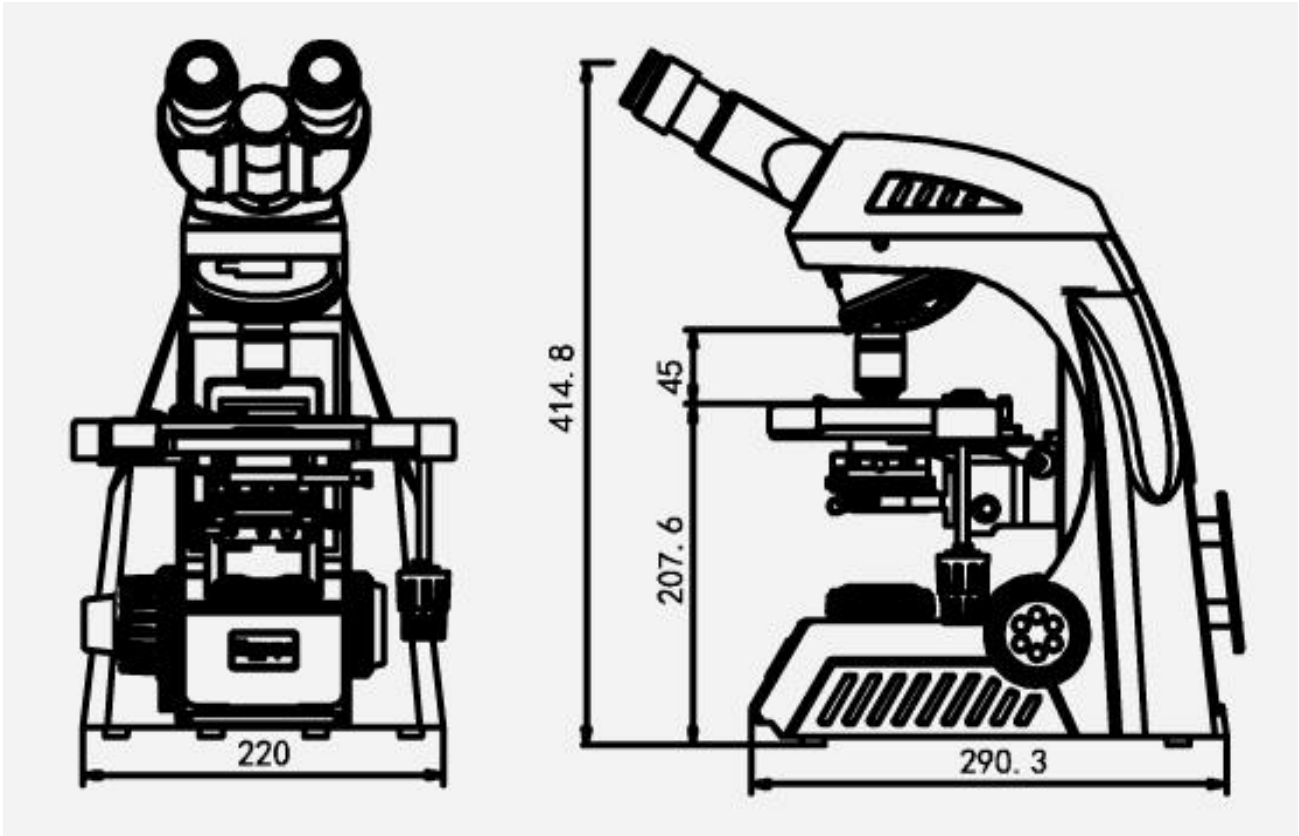


Sample Image





Dimension



Unit: mm

32. BS-2076 Research Biological Microscope

BS-2076T

Introduction

The latest BS-2076 series microscopes are designed for professional laboratory microscopic observation. On the one hand it has upgraded optical system, NIS infinity optics system provides excellent extendibility for this microscope, high numerical aperture (NA) plan achromatic objective and various types of optical components which have adopted multilayer coating technology could ensure the high image quality. On the other hand, improving comfort and operation convenience continuously, and the LCD screen in front of the microscope displays real-time working status of microscope, universal condenser, stopper that can be used to set the upper limit of the stage height etc., these structures ensure that even beginners can use it smoothly. Ergonomic design helps you to stay focused for longer by reducing the strain on your body, which is the best choice for scientific research experimenters and medical examiners for microscopic observation.

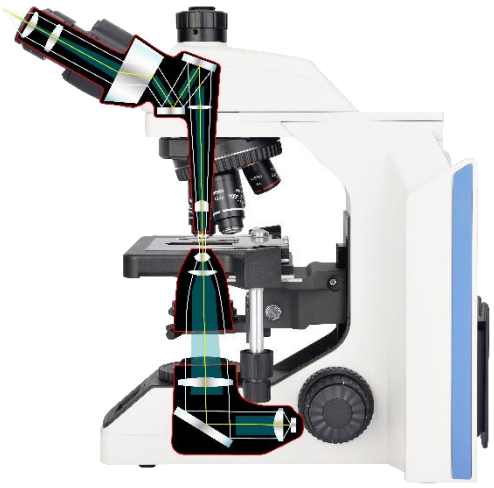
Features

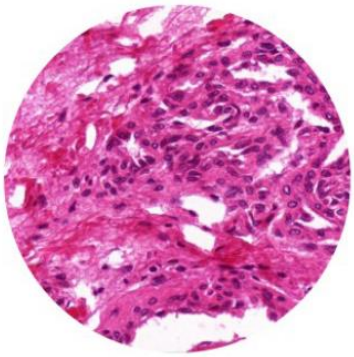
1. High quality Infinite Plan Achromatic Objectives.

BS-2076 has adopted NIS series infinite plan achromatic objectives, which feature flat, sharp images up to the periphery of the field of view. High numerical aperture(NA) and long working distances, high resolution, can restore the real colors and realize accurate observation of samples.

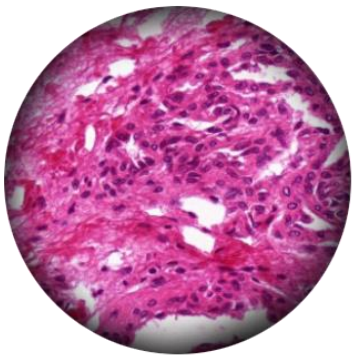
2. Kohler illumination, uniform brightness throughout the field of view.

Adding a Kohler mirror in front of light source to provide bright and uniform field of view. Work together with the infinite optical system and high-resolution objective, provides you perfect microscopic imaging.





Kohler Illumination



Critical Illumination

3. Comfortable and worry-free focus knob.

Low position focus knob design, different areas on the specimen slide can be easily explored while resting your hands on the table, with adjustable torque could improve comfort. BS-2076 is equipped with a stopper that can be used to set the upper limit of the stage height, the stage stops at the set height even when the focus knob is turned, thereby eliminating the risk of over-focusing and breaking the slides or damaging the objectives.

4. Put slide by one hand.

Slides can be quickly slid in and out with one hand. The universal sample holder is suitable for a variety of slide types, such as Hemocytometer.

5. Easy-to-rotate coded quintuple nosepiece.

High-precision machining ensures smoothness and durability in use. The coded nosepiece features an easy grip for smooth rotation, and accommodates up to five objectives, users can also choose 2X objective with large field of view, phase contrast and semi-APO objectives.

6. Uniform and stable brightness.

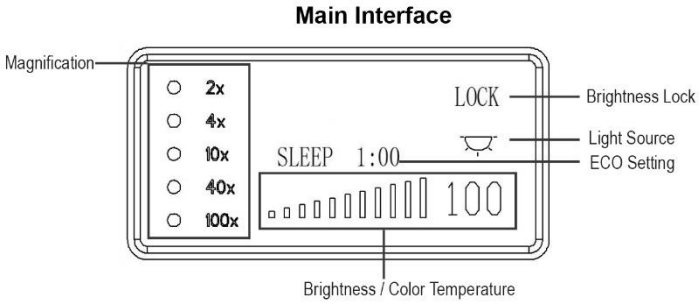
The LED light source with color temperature adjustment function, which could produce daylight lighting conditions, so that the sample presents a natural color. The designed life span of LED lamp is 50,000 hours, which not only reduces maintenance costs, but also keeps the brightness stable during use.

7. Universal condenser is more convenient to use.

Users can switch from 4X to 100X without moving the top lens. Contrast adjustment is performed by adjusting the iris diaphragm.

8. Working status display.

Working status including magnification, brightness, color temperature, stand by status are shown on the LCD screen which is in front of microscope.

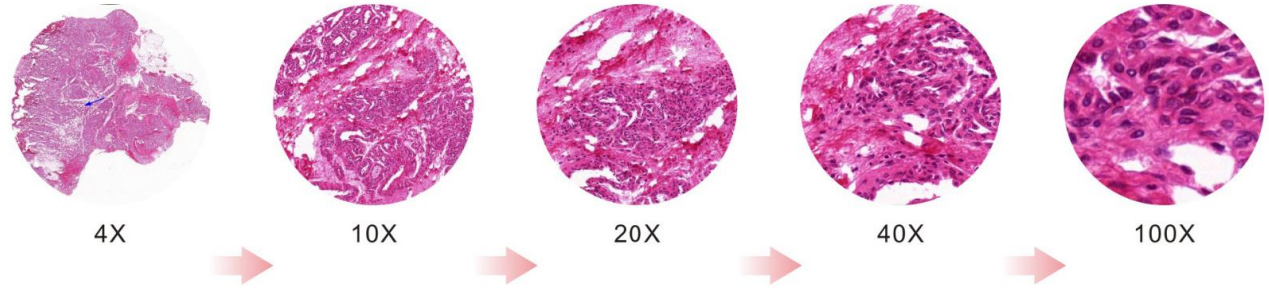


9. Smart illumination management design.

Longtime microscope observation requires frequent magnification switching, brightness adjustment, color temperature adjustment, etc. BS-2076 simplifies these repetitive mechanical operations and displays status on the LCD to improve work efficiency and provide comfortable operation experience.

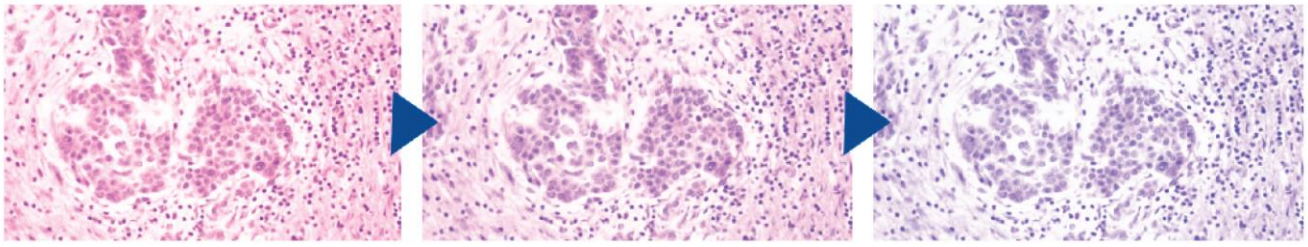
(1) Maintains comfortable brightness when switching magnifications.

BS-2076 features intelligent Light Intensity Management which automatically remembers and sets the light intensity level for each objective, with this function, users can increase comfort and save time when it requires frequent magnification changes.



(2) Color temperature adjustable.

With color temperature adjustment function, the LED light source produces daylight lighting conditions, so that the sample presents a natural color. Since the color temperature can be changed according to observation demand, the brightness and color temperature could keep users feel comfortable.



(3) Realize various functions with one brightness control knob.

*Single click: enter standby status

*Double click: light intensity lock or unlock

*Rotate: adjust brightness

*Press and rotate up direction: adjust brightness

*Press and rotate down direction: adjust color temperature

*Hold the press for 3s: setting ECO

(4) Automatically power off after a period of inactivity.

BS-2076 is equipped with an ECO mode which automatically turns off the illumination after a certain period of inactivity, the length of the inactivity period is adjustable, with ECO mode, it helps you save power and extend microscope life.

10. Easier transportation and storage.

BS-2076 is equipped with a special handle, which is light and stable. Its back board is designed with a hub device, which effectively accommodates excessive long power cords and improves cleanliness of the laboratory.
At the same time, it also reduces trip accidents caused by excessive long power cords during transportation.

Application

BS-2076 series research microscopes are ideal instruments in biological, histological, pathological, bacteriological, hematological, immunological, pharmaceutical and life science fields, they could be widely used in medical and sanitary establishments, laboratories, institutes, academic laboratories, colleges and universities for teaching, research and examinations.

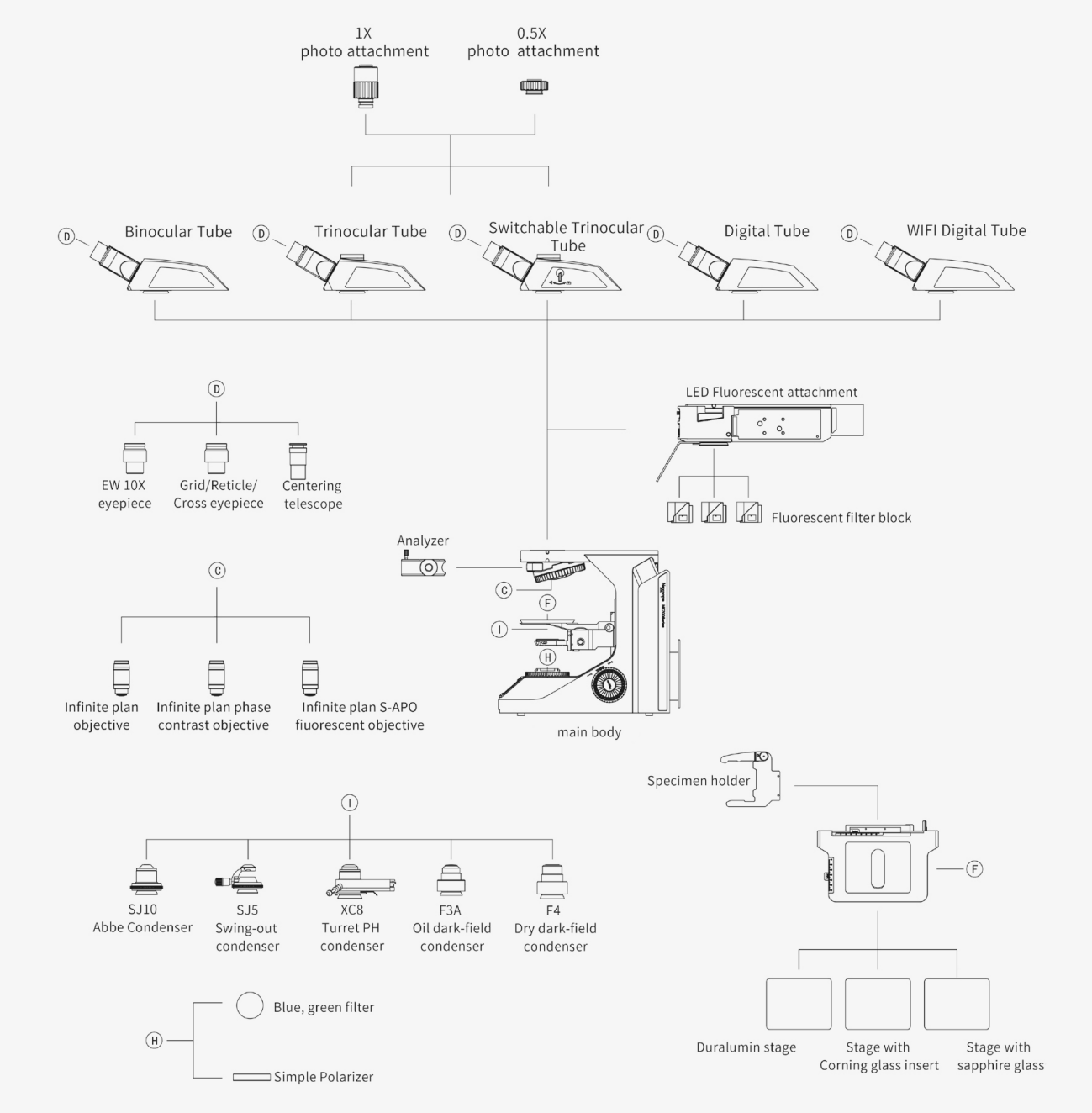
Specification

Item	Specification		BS-2076B	BS-2076T
Optical System	NIS60 Infinite Color Corrected Optical System		●	●
Viewing Head	Seidentopf Binocular Head, 30° inclined, 360° rotation, interpupillary distance: 47mm-78mm		●	○
	Seidentopf Trinocular Head, 30° inclined, interpupillary distance: 47mm-78mm; splitting ratio(fixed): Eyepiece:Trinocular=50:50		○	●
	Seidentopf Trinocular Head, 30° inclined, interpupillary distance: 47mm-78mm; splitting ratio(adjustable): Eyepiece:Trinocular=100:0/0:100		○	○
	Ergo Tilting Seidentopf Binocular Head, adjustable 0-35° inclined, interpupillary distance: 47mm-78mm		○	○
	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 with built-in USB2.0 digital camera, 30° inclined, 360° rotation, interpupillary distance: 47mm-78mm		○	○
	Seidentopf Binocular Head with built-in WIFI & HDMI digital camera, 30° inclined, 360° rotation, interpupillary distance: 47mm-78mm		○	○
Eyepiece	Super wide field plan eyepiece SW10X/22mm, diopter adjustable		●	●
	Extra wide field plan eyepiece EW12.5X/17.5mm, diopter adjustable		○	○
	Wide field plan eyepiece WF15X/16mm, diopter adjustable		○	○
	Wide field plan eyepiece WF20X/12mm, diopter adjustable		○	○
Objective	Infinite Plan Achromatic 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 100X(Water)/NA=1.10, WD=0.2mm	○	○
	Infinite 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	○	○
	Infinite 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 Quintuple Coded Nosepiece (with DIC slot)		●	●

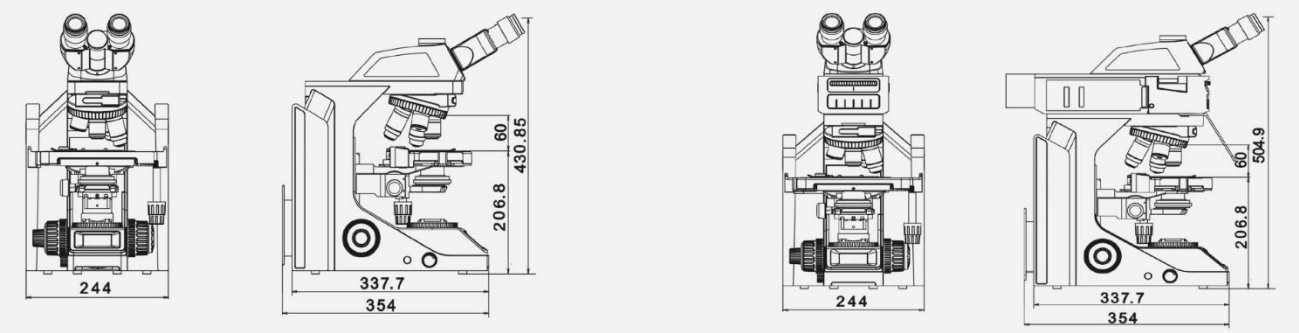
Condenser	Abbe Condenser N.A.0.9, with Iris diaphragm	●	●
	Swing-out achromatic condenser N.A.0.9/0.25, with Iris diaphragm	○	○
	NA1.25 Sliding-in Turret Phase Contrast Condenser	○	○
	NA0.7-0.9 Dark-field Condenser (Dry), used for objectives lower than 100X	○	○
	NA1.3-1.26 Dark-field Condenser (Oil), used for 100X objective	○	○
Transmitted Illumination	3W S-LED lamp, center pre-set, intensity adjustable; LCD screen displays magnification, time sleeping, brightness and lock, color temperature adjustable	●	●
LED Fluorescent Attachment	LED fluorescent attachment with LED illumination, 4-position fluorescent turret, with iris diaphragm, B,G,U,R fluorescent filters are available	○	○
Mercury Fluorescent Attachment	Turret with 6 filter block cubes position, with iris field diaphragm and aperture diaphragm, central adjustable; with filter slot; with B, G, U fluorescence filters (B, G, U, V, R, FITC, DAPI, TRITC, Auramine, Texas Red and mCherry 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	○	○
Focusing	Low-position coaxial coarse and fine focusing, fine division 1μm, Moving range 28mm	●	●
Stage	Double Layer Rackless Stage 235x150mm, moving range 78x54mm, hard oxidized plate; can be upgraded to tempered glass stage or sapphire stage, precision: 0.1mm	●	●
DIC Kit (Should work with Semi-APO objectives)	10X, 20X/40X, 100X Warrior Prism (works in the DIC Turret Condenser)	○	○
	Polarizer for DIC Kit	○	○
	10X-20X DIC insert plate (can be inserted into the DIC slot on nosepiece)	○	○
	40X-100X DIC insert plate (can be inserted into the DIC slot on nosepiece)	○	○
	DIC Turret Condenser	○	○
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

System Diagram

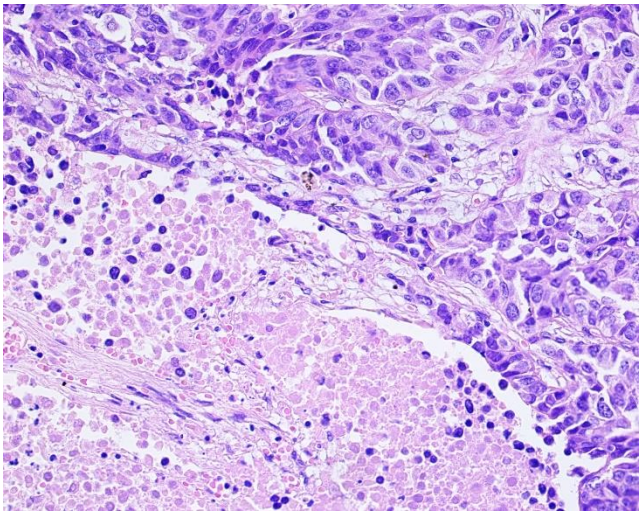


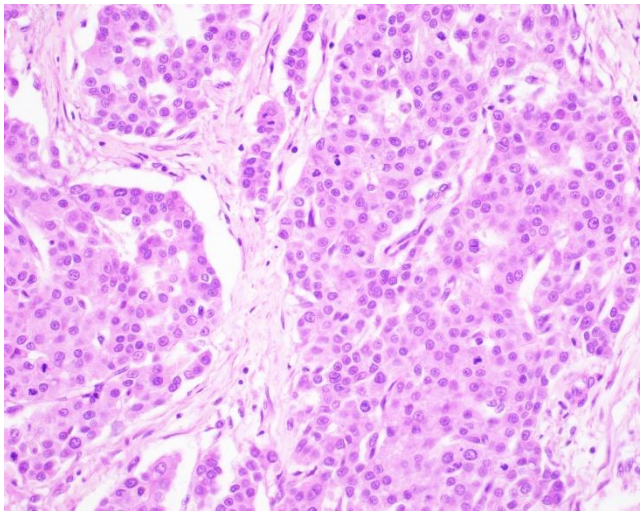
Dimension



Unit: mm

Sample Image





33. 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.

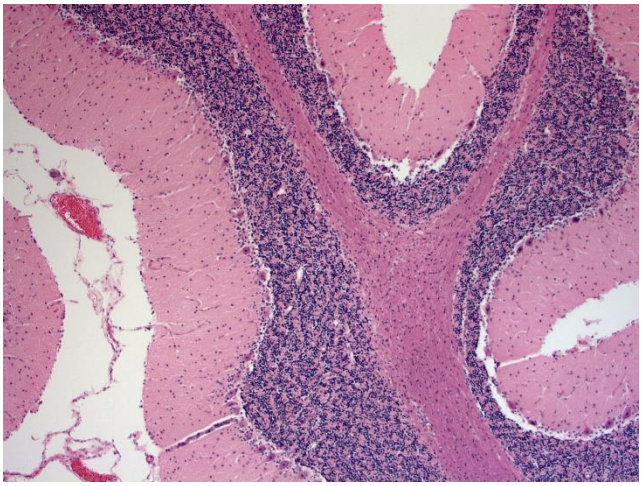
Specification

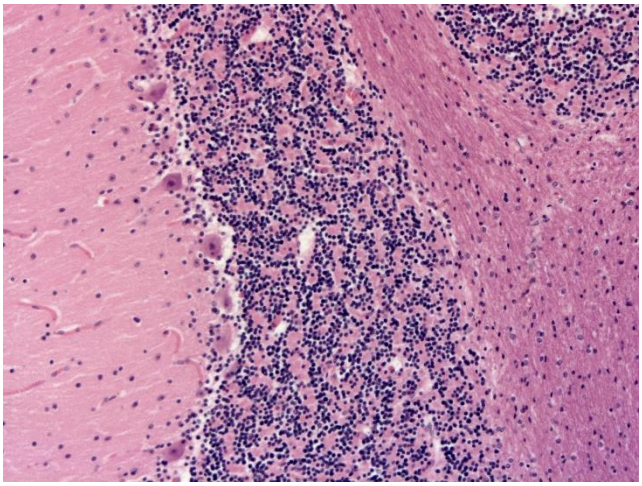
Item	Specification	BS-2080
Optical System	Infinite Optical System	●
Viewing Head	Siedentopf Trinocular Head, Inclined at 30°, 360° Rotatable, Interpupillary 48-75mm	●
	5°-35° Tiltable Binocular/ Trinocular Head	○
Eyepiece	Extra Wide Field Eyepiece EW10×/ 22mm, Eyepiece Tube Diameter 30mm	●
Nosepiece	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 Φ20 when with the accessories

34. 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

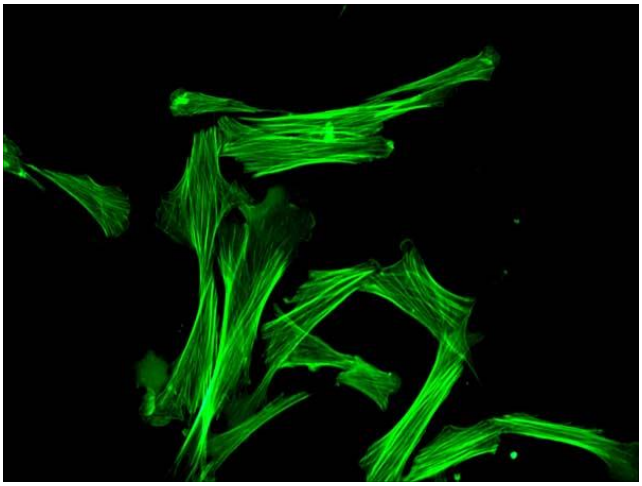
BS-2080F(LED) LED Fluorescence microscope is used to study the absorbing, transportation, chemicals distribution and positioning in cells. It is widely used in disease examination, immune diagnosis and life science areas.

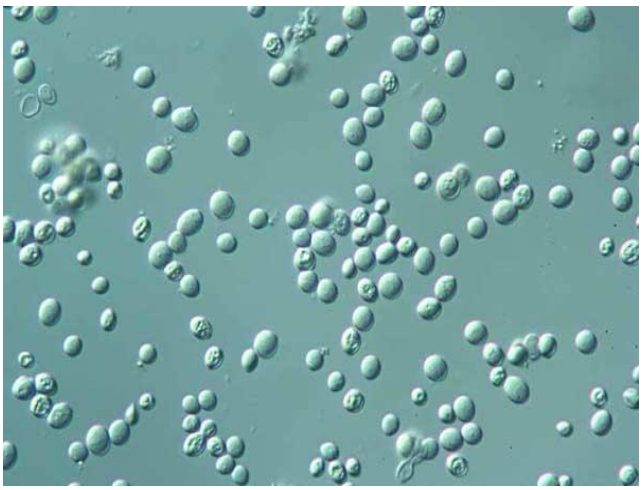
Specification

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





35. BS-2081 Research Biological Microscope

BS-2081

BS-2081F

BS-2081L

Introduction

BestScope continues to explore the research needs of specialized fields such as pathology, cytology and virology, and continuously optimizes and upgrades the BS-2081 series of scientific grade upright microscopes to have near-perfect optical performance and mechanical structure design. NIS Infinity Optical System has precise imaging and chromatic aberration correction capabilities. The illumination system with high color reproduction, high-quality optics and full-featured accessories makes these microscopes ideal for cutting-edge life science research where darkfield of view, differential interference contrast or high-performance fluorescence are required. In addition, a wide range of motorized and intelligent components and powerful imaging software meet the needs of quick sample overview and detailed sample inspection, making repetitive tasks easy and greatly increasing ease and comfort for maximum productivity. No matter in a clinical laboratory or a research laboratory, the BS-2081 series microscopes provide the ideal microscopy imaging solution.

Features

1. Sapphire Glass Stage is optional.

Mechanical stage with sapphire glass insert is optional, it is endurable, 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.

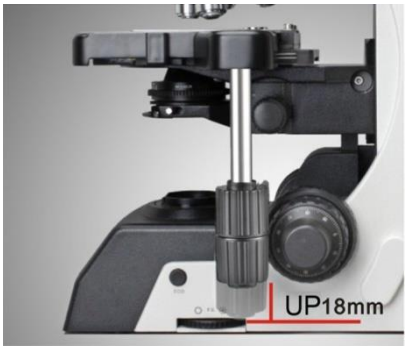
3. Tilting Trinocular Head is optional.

(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.

6. BS-2081L has Intelligent operating system.

(1) Coded Nosepiece with light intensity memory function.

The BS-2081L 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

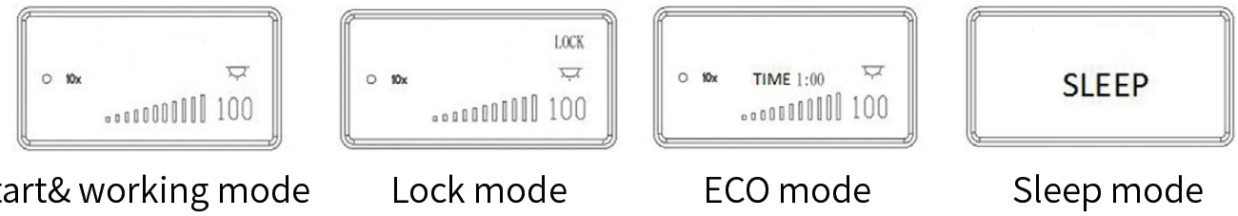
Press + Up-spin: Switch to the upper light source

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.



(4) Color temperature adjustment function.

The color temperature can be adjusted from yellow to white, which can lead to a better contrast and meet the requirements of various research.

Application

BS-2081 series research 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-2081	BS-2081L	BS-2081F	BS-2081F (LED)
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/17.5mm, 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	○	○	○	○

	N-PLFN PH Plan Semi-apochromatic Fluorescent Phase Contrast Objective	N-PLFN PH 10X/NA=0.30, WD=15.8mm	○	○	○	○
		N-PLFN PH 20X/NA=0.50, WD=2.7mm	○	○	○	○
		N-PLFN PH 40X/NA=0.75, WD=1.35mm	○	○	○	○
		N-PLFN PH 100X(Oil)/NA=1.40, WD=0.18mm	○	○	○	○
	N-PLPN Plan Apochromatic Objective	N-PLPN 10X/NA=0.45, WD=4.0mm	○	○	○	○
		N-PLPN 20X/NA=0.75, WD=1.1mm	○	○	○	○
		N-PLPN 40X/NA=0.95, WD=0.21mm	○	○	○	○
		N-PLPN 60X(Oil)/NA=1.42, WD=0.25mm	○	○	○	○
		N-PLPN 100X(Oil)/NA=1.45, WD=0.13mm	○	○	○	○
Nosepiece	Backward Sextuple Nosepiece (with DIC slot)		●	○	●	●
	Backward Coded 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		●	○	●	●
	3W S-LED lamp, center pre-set, intensity adjustable. LCD screen with illumination management system		○	●	○	○
	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, with Ultra-hard Glass Insert		●	●	●	●
	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	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 (10X, 20X/40X, 100X Warrior Prism inside)		○	○	○	○
Reflected Fluorescence Illuminator (with mercury lamp)	Turret with 6 filter block cubes position, with iris field diaphragm and aperture diaphragm, central adjustable; with filter slot; with fluorescence B, G 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		○	○	○	○
	U, V, R, FITC, DAPI, TRITC, Auramine, mCherry, FL-BG fluorescent filters		○	○	○	○

Reflected Fluorescent Attachment (with LED lamps)	LED Reflected Fluorescent Attachment, Turret with 6-position for filter block cubes, including B, G fluorescent filters and B, G, U, R LED lamps (the LED lamps can be used for B, G, U, R, FITC, DAPI, TRITC fluorescent filters), there are 4 positions for the LED lamps	○	○	○	●
	U, R, FITC, DAPI, TRITC fluorescent filters	○	○	○	○
Filter for Transmitted Illumination	Green Filter 45mm	○	○	○	○
	Blue Filter 45mm	○	○	○	○
	Yellow Filter 45mm	○	○	○	○
	Red Filter 45mm	○	○	○	○
	ND6 Filter	○	○	○	○
	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

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.

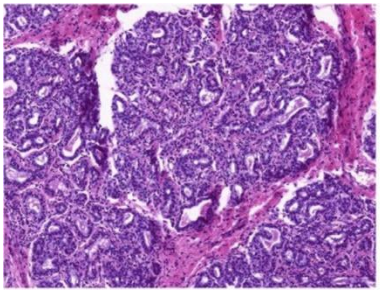
3. N-PLFN Series Plan Semi-APO Fluorescent Objectives.

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. N-PLPN Plan Apochromatic Fluorescent Objective

The newly developed advanced apochromatic objective lenses have high level of chromatic aberration correction capability and high resolution, ensuring a high level of wave-phase contrast correction with full field of view, these APO objectives are ideal for routine laboratory observation work and digital imaging.

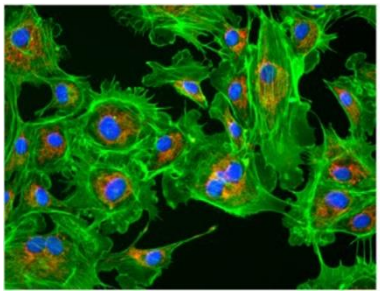
5. Bright field Viewing.



Mammary Gland (active stage)

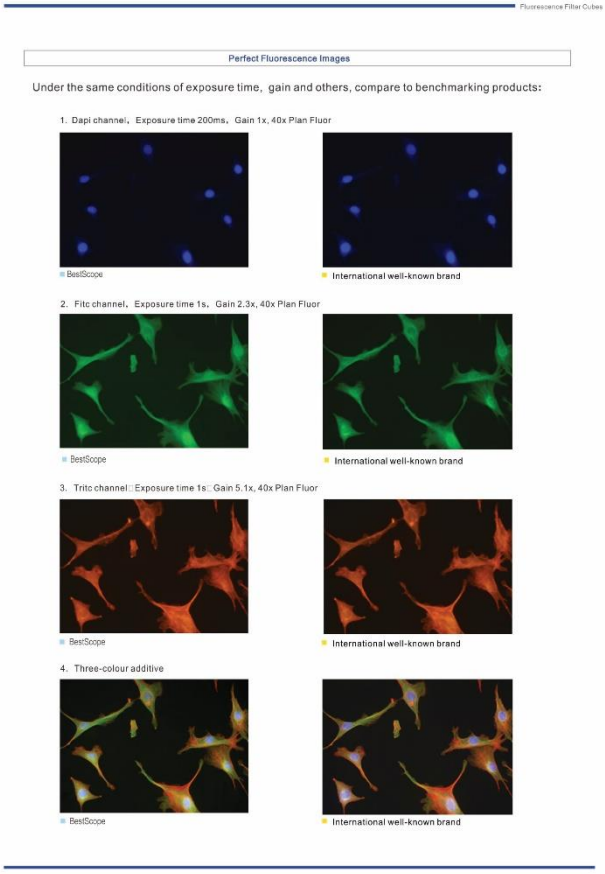
Brighter image, high resolution and flatness, suitable for all the magnifications.

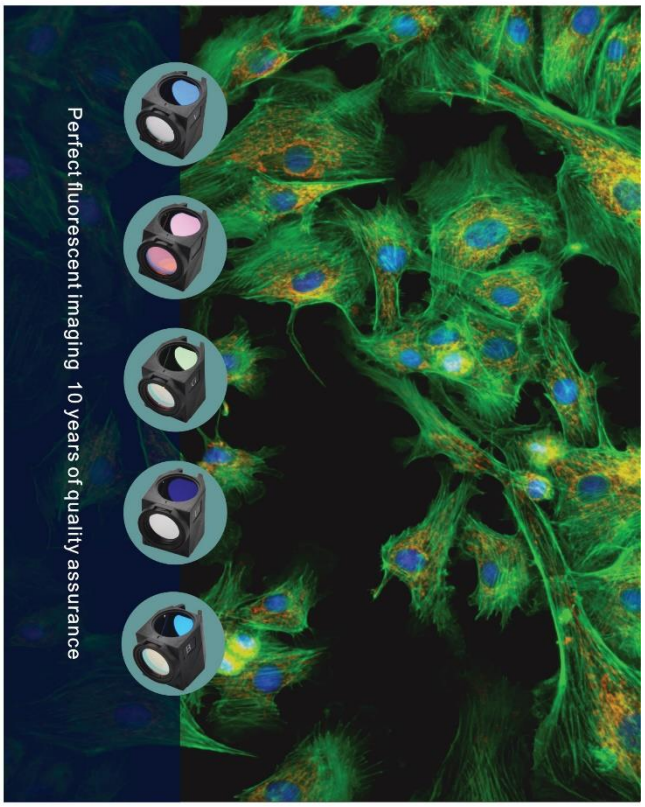
6. Fluorescent Viewing.



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.





Fluorescence Filter Cubes Product Manual

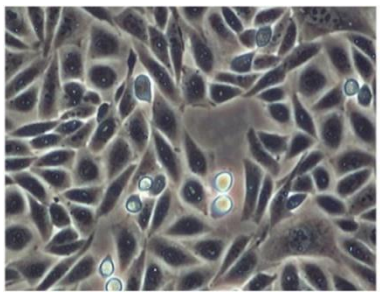
Excitation	Excitation Filter	Dichroic Mirror	Barrier Filter	LED lamp Wave Length	Application
B	BP460-495	DM505	BA510	485nm	·FITC: Fluorescent antibody method ·Acidine orange: DNA, RNA ·Auramine: Tubercle bacillus ·EGFP, S657, RSGFP
G	BP510-550	DM570	BA575	535nm	·Rhodamine, TRITC: Fluorescent antibody method ·Propidium iodide: DNA ·RFP
U	BP330-385	DM410	BA420	365nm	·Auto-fluorescence observation ·DAPI: DNA staining ·Hoechest 332528, 33342: used for Chromosome staining
V	BP400-410	DM455	BA460	405nm	·Catecholamines ·5-hydroxy tryptamine ·Tetracycline: Skeleton, Teeth
R	BP620-650	DM660	BA670-750	640nm	·Cy5 ·Alexa Fluor 633, Alexa Fluor 647
FITC	BP460-495	DM505	BA510-550	485nm	·FITC: Fluorescent antibody method

DAPI	BP360-390	DM415	BA435-485	365nm	DAPI: DNA staining
TRITC	BP528-553	DM565	BA578-633	535nm	·TRITC: Fluorescent antibody method
FL-Auramine	BP470	DM480	BA485	450nm	·Auramine O, Testing for tuberculosis
Texas Red	BP540-580	DM595	BA600-660	560nm	It is commonly conjugated to antibodies and proteins for cellular imaging applications.
mCherry	BP542-582	DM593	BA605-675	560nm	Molecular labeling and cellular component localization
FL-BG	BP 453-490/533-588	DM 495-548/595-705	BA 500-540/603-664	485nm/525nm	·FITC: Fluorescent antibody method ·Acidine orange: DNA, RNA ·Auramine: Tubercle bacillus ·EGFP, S657, RSGFP ·Rhodamine, TRITC: Fluorescent antibody method ·Propidium iodide: DNA ·RFP

Note: 1. All the above fluorescent filters can be used on BS-2081F.

2. Filters Size in fluorescent block: Excitation and Barrier Filters is Φ24.8mmX3.6mm (thickness with metal edge), Dichroic Mirror is 37.5X28.5X1mm, the filters can be installed in the block.

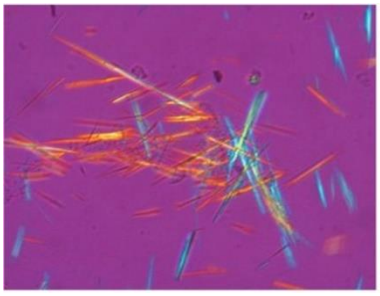
7. Phase Contrast Viewing.

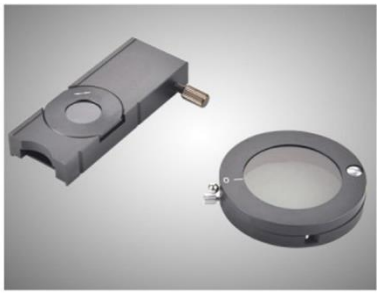


Rat Ovarian Cell

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

8. Polarizing Viewing.

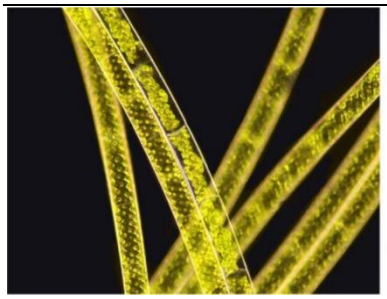




Uric Acid Crystal

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

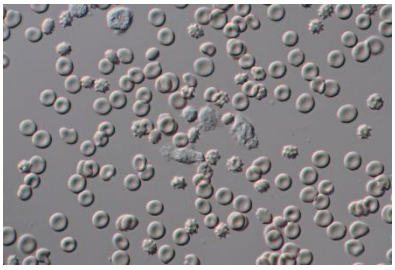
9. Dark-field Viewing.



Spirogyra

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

10. DIC Attachment.



The DIC attachment can be used to observe unstained specimens. It including:

1. Semi-APO objective
2. Turret DIC condenser
3. Polarizer
4. DIC Plate

11. Multi Viewing Heads.

BS-2083MH4A (For 2 users, Face to Face)

BS-2083MH4B (For 2 users, Side by Side)

BS-2083MH6(For 3 users)

BS-2083MH10(For 5 users)

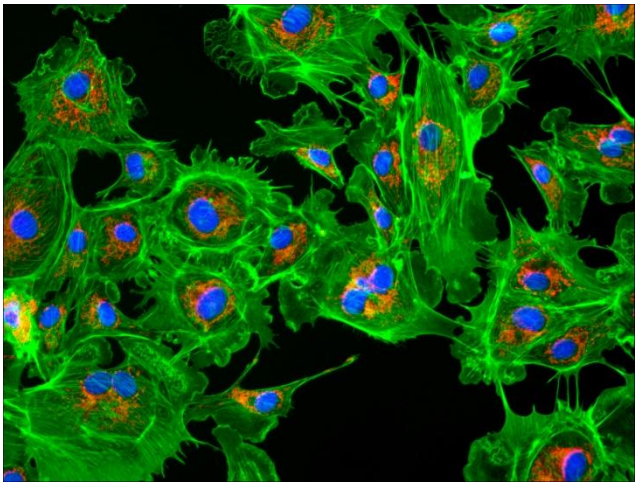
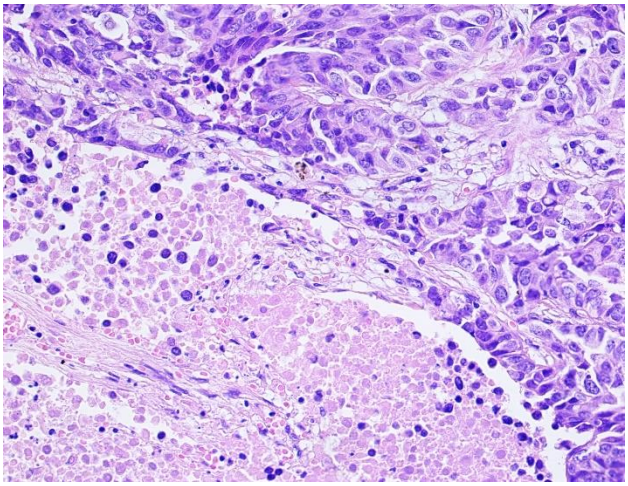
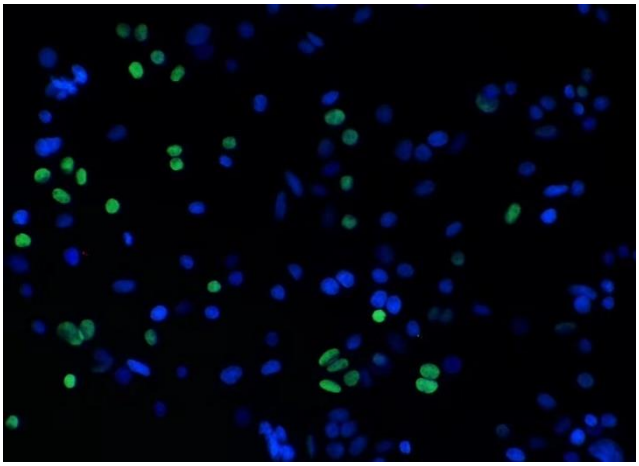
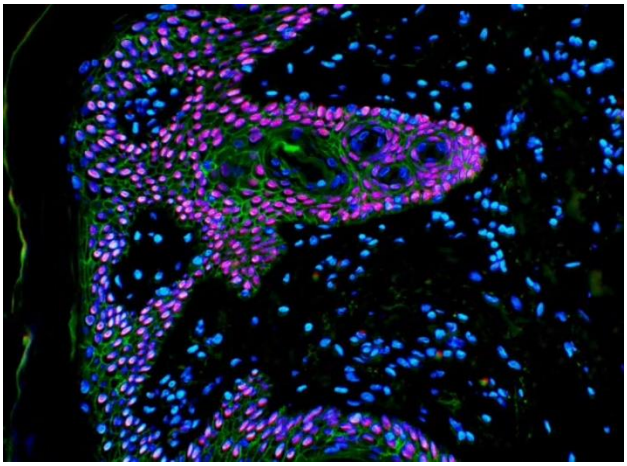
BS-2081MH20 (For 10 users)

Note: We have not captured images with BS-2081, so we use BS-2083 to illustrate, BS-2081MH series are different with BS-2083 series on main microscope body.

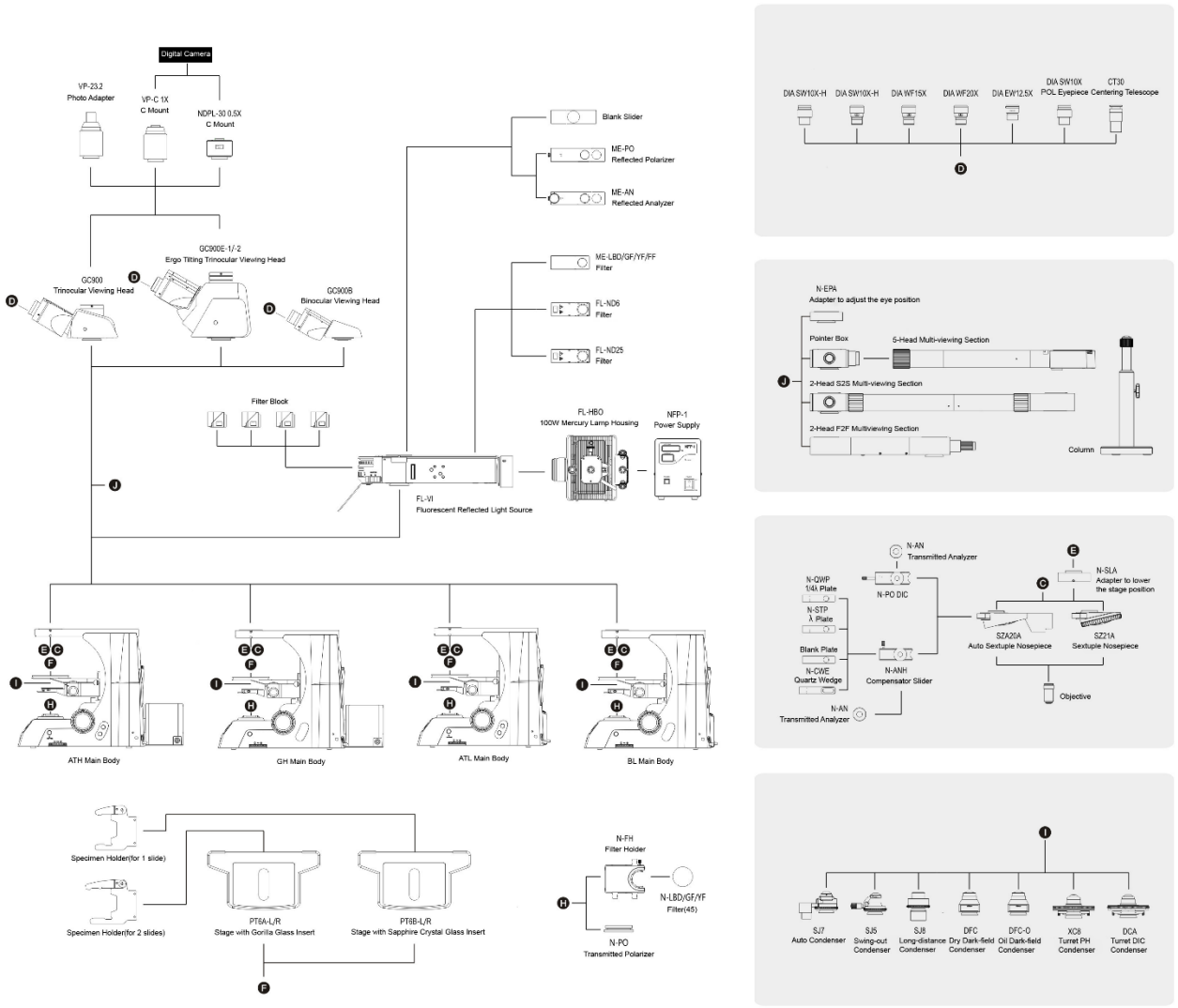
11. LED Fluorescent Attachment.

The LED Reflected Fluorescent Attachment has turret with 6-position for filter block cubes, standard configuration including B, G fluorescent filters and B, G, U, R LED lamps, the LED lamps can be used for B, G, U, R, FITC, DAPI, TRITC fluorescent filters (U, R, FITC, DAPI, TRITC fluorescent filters are optional), there are 4 positions for the LED lamps. The fluorescent filters are reliable and precise, which offers high performance for various demands.

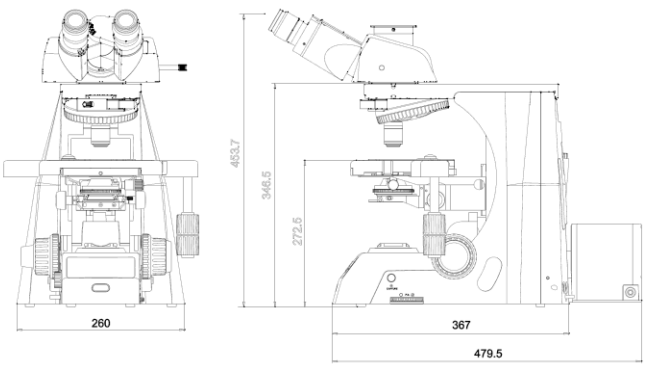
Sample Image

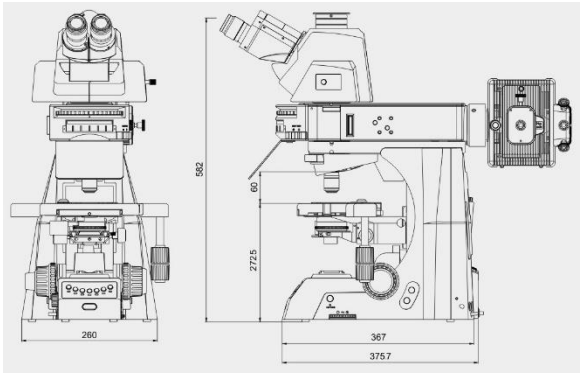
System Diagram



Dimension



BS-2081&BS-2081L



BS-2081F

Unit: mm

36. 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

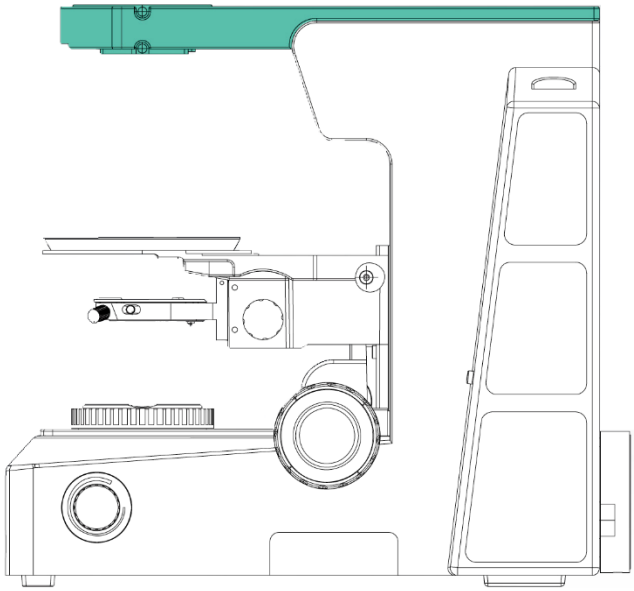
and anti-friction. The platform with an arc transition design reduces the stress concentration and damage from impact.

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 1μm. 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.

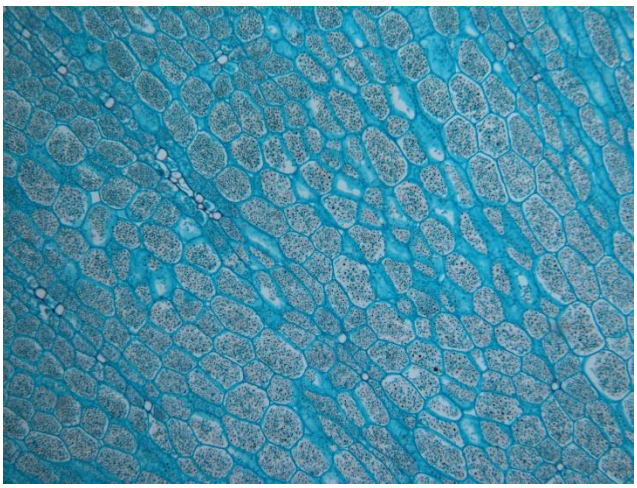
Specification

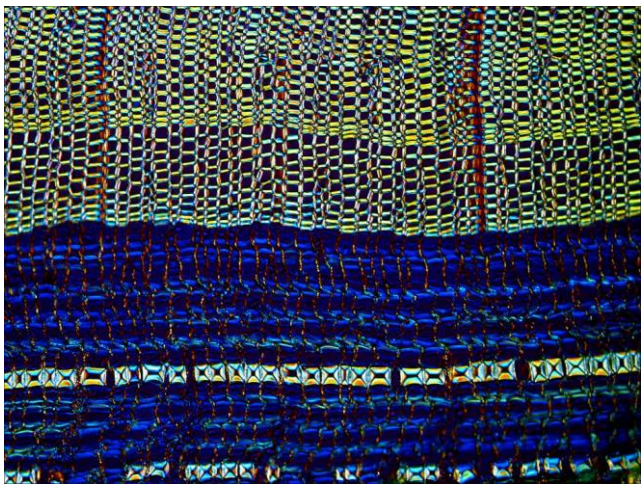
Item	Specification	BS-2082	BS-2082F	BS-2082 MH10
Optical System	Infinite color corrected optical system	●	●	●
Viewing Head	Seidentopf trinocular head(Inverted image), 30° inclined, interpupillary distance: 50mm-76mm; splitting ratio Eyepiece:Trinocular=100:0 or 20:80 or 0:100	●	●	●
	Seidentopf trinocular 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





37. BS-2083 Research Biological Microscope

BS-2083

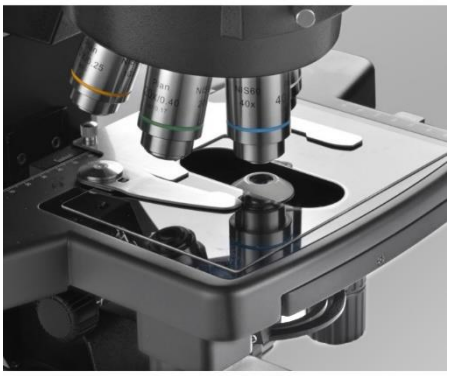
BS-2083F

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 endurable, 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.

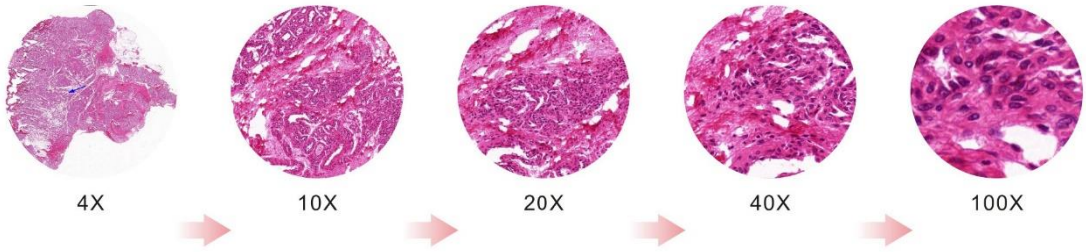
This microscope has the function of motorized rotating nosepiece with the 2 buttons.

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

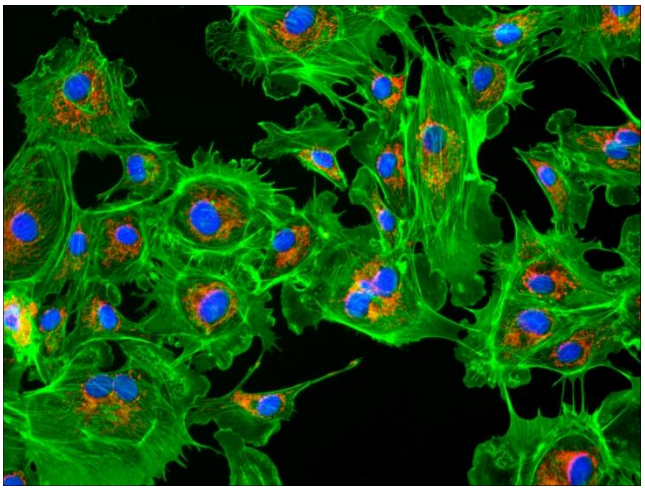
Item	Specification		BS-2083	BS-2083F
Optical System	NIS60 Infinite Color Corrected Optical System		●	●
Viewing Head	Ergo Tilting Trinocular Head, adjustable 0-35° inclined, interpupillary distance 47mm-78mm; splitting ratio Eyepiece:Trinocular=100:0 or 20:80 or 0:100		●	●
	Seidentopf Trinocular Head, 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	○	○
	N-PLFN PH Plan Semi-apochromatic Fluorescent Phase Contrast Objective	N-PLFN PH 10X/NA=0.30, WD=15.8mm	○	○
		N-PLFN PH 20X/NA=0.50, WD=2.7mm	○	○
		N-PLFN PH 40X/NA=0.75, WD=1.35mm	○	○
		N-PLFN PH 100X(Oil)/NA=1.40, WD=0.18mm	○	○
		N-PLFN PH 10X/NA=0.30, WD=15.8mm	○	○

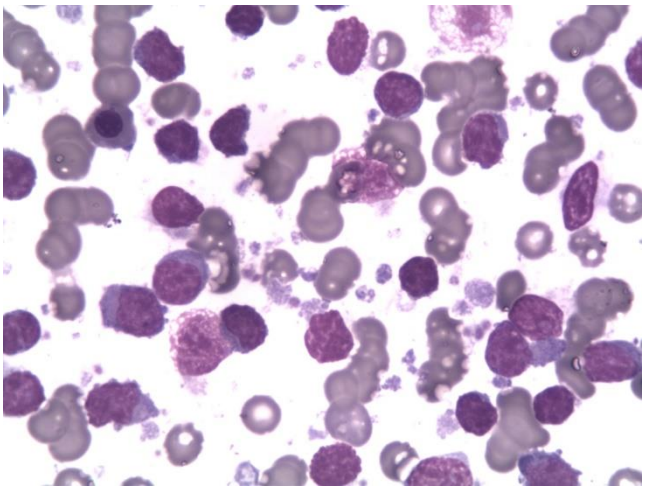
	N-PLPN Plan Apochromatic Objective	N-PLPN 10X/NA=0.45, WD=4.0mm	○	○
		N-PLPN 20X/NA=0.75, WD=1.1mm	○	○
		N-PLPN 40X/NA=0.95, WD=0.21mm	○	○
		N-PLPN 60X(Oil)/NA=1.42, WD=0.25mm	○	○
		N-PLPN 100X(Oil)/NA=1.45, WD=0.13mm	○	○
Nosepiece	Motorized Backward Sextuple Nosepiece (with DIC slot)		●	●
Condenser	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 (with mercury lamp)	Turret with 6 filter block cubes position, with iris field diaphragm and aperture diaphragm, central adjustable; with filter slot; with fluorescence B, G 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		○	○
	U, V, R, FITC, DAPI, TRITC, Auramine, mCherry, FL-BG fluorescent filters		○	○
Reflected Fluorescent Attachment (with LED lamps)	LED Reflected Fluorescent Attachment, Turret with 6-position for filter block cubes, including B, G fluorescent filters and B, G, U, R LED lamps (the LED lamps can be used for B, G, U, R, FITC, DAPI, TRITC fluorescent filters), there are 4 positions for the LED lamps		○	○
	U, R, FITC, DAPI, TRITC fluorescent filters		○	○
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.

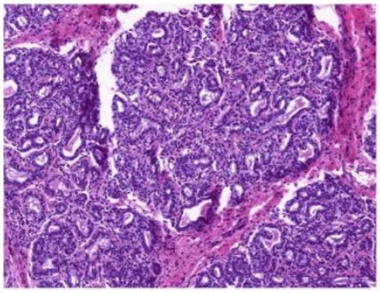
2. N-PLN PH Series Plan Phase Contrast Objectives.

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.

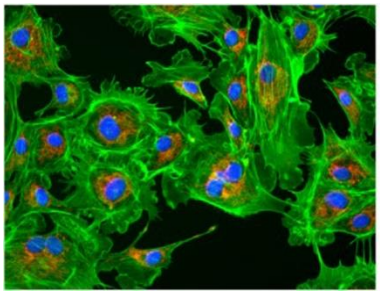
4. Bright field Viewing.



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

Mammary Gland (active stage)

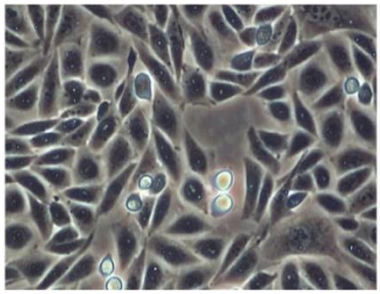
5. Fluorescent Viewing.



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

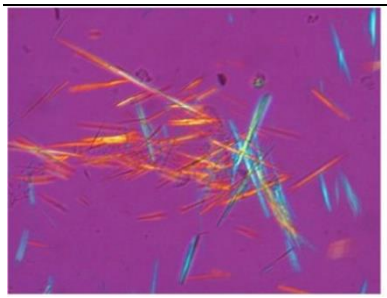
6. Phase Contrast Viewing.



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

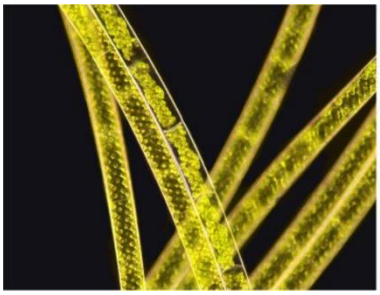
7. Polarizing Viewing.




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.

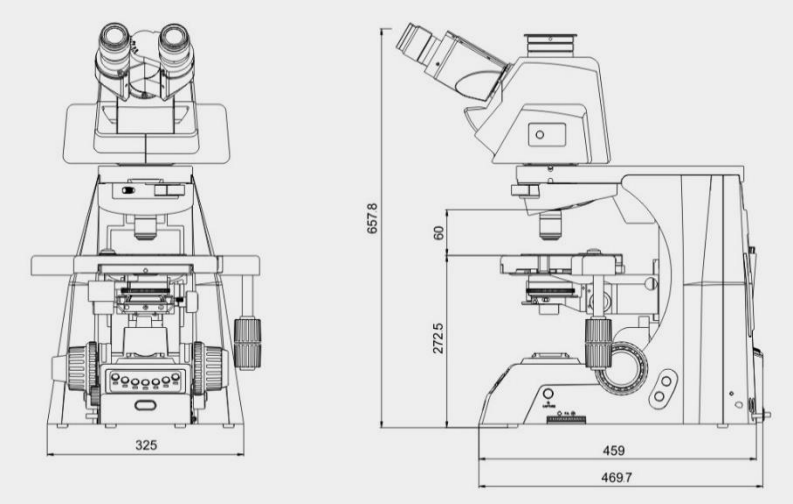
9. Multi Viewing Heads.

2 Viewing heads (Face to Face)

2 Viewing heads (Side to Side)

5 Viewing heads

Dimension



Unit: mm

38. 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 X-Y stage and nosepiece, auto focusing, touch screen controller and powerful software 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. 4pcs slide can be placed on the stage for automatic scanning, a LCD touch screen in front of the microscope, which can show magnification and illumination information. With perfectly performed structure, high-definition optical image and ergonomical operations, BS-2085/BS-2085F realize professional analysis and meet all the needs of research in biological, medical, life science and other fields.

Features

1. Adopt line motor and screw driving mode.

Low-hand electric focusing mechanism, independent operation of left and right hand wheels, three speed adjustment, focusing range 30mm, repeat positioning accuracy: 0.1μm.

2. Tilting Trinocular Head is optional.

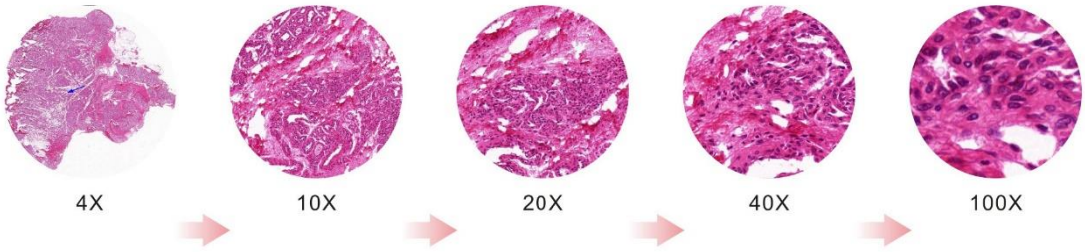
(1) The eye tube can be adjusted from 0°-35°.
(2) Digital cameras or DSLR cameras can be connected to the trinocular tube.
(3) The beam splitter has 3-position (100:0, 20:80, 0:100).
(4) The splitter bar can be assembled on the either side according to user's requirements.

3. Nosepiece Rotating Buttons.

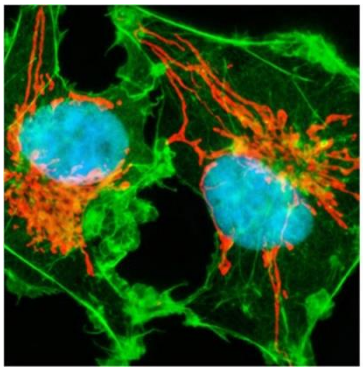
This microscope has the function of motorized rotating nosepiece with the 2 buttons.

4. Light Intensity Management.

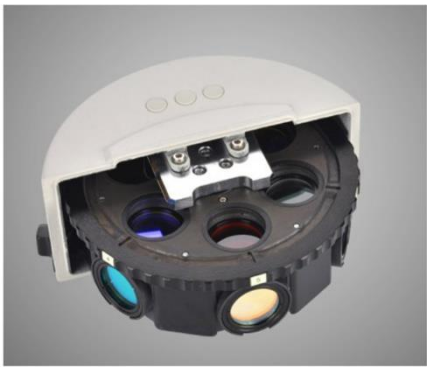
With motorized and coded nosepiece, when the objective is changed, the light intensity will also be changed accordingly. Thus, from low to high magnification, the field of view maintains the same brightness. There is no need to manually adjust the intensity of the light and also reduce eye fatigue. The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



5. 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.

6. Can be controlled by the control handle and software.

Control Handle

This microscope can realize LED brightness, objective lens switching, auto focus, and electric adjustment of X-Y-Z axis through the software 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

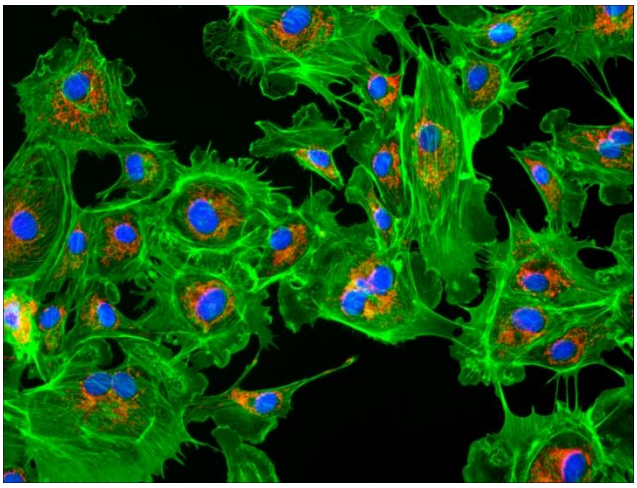
Item	Specification		BS-2085	BS-2085F
Optical System	NIS60 Infinite Color Corrected Optical System		●	●
Viewing Head	Seidentopf Trinocular Head, 30° inclined, interpupillary distance: 47mm-78mm; splitting ratio Eyepiece:Trinocular=100:0 or 20:80 or 0:100		●	●
	Ergo Tilting Trinocular Head, adjustable 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/17.5mm, 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	○	○

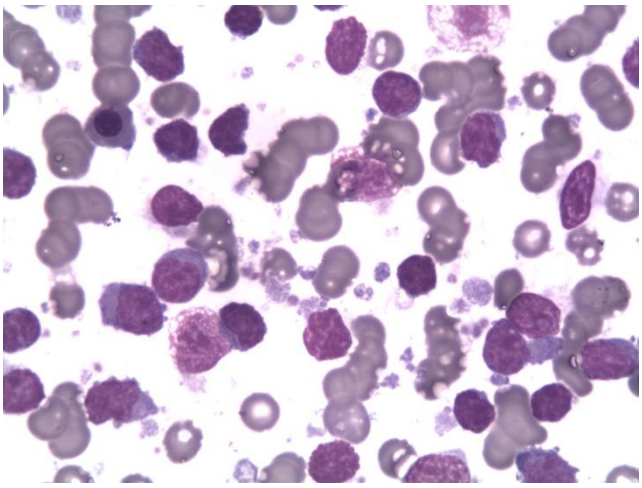
		N-PLN-I 100X (Oil, with Iris Diaphragm)/ NA=0.5-1.25, WD=0.2mm	○	○
	N-PLN PH Plan Phase Contrast Objective	N-PLN PH 10X/NA=0.25, WD=10.2mm	○	○
		N-PLN PH 20X/NA=0.40, WD=12mm	○	○
		N-PLN PH 40X/NA=0.65, WD=0.7mm	○	○
		N-PLN PH 100X(Oil)/NA=1.25, WD=0.2mm	○	○
	N-PLFN Plan Semi-apochromatic Fluorescent 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	○	○
	N-PLFN PH Plan Semi-apochromatic Fluorescent Phase Contrast Objective	N-PLFN PH 10X/NA=0.30, WD=15.8mm	○	○
		N-PLFN PH 20X/NA=0.50, WD=2.7mm	○	○
		N-PLFN PH 40X/NA=0.75, WD=1.35mm	○	○
		N-PLFN PH 100X(Oil)/NA=1.40, WD=0.18mm	○	○
	N-PLPN Plan Apochromatic Objective	N-PLPN 10X/NA=0.45, WD=4.0mm	○	○
		N-PLPN 20X/NA=0.75, WD=1.1mm	○	○
		N-PLPN 40X/NA=0.95, WD=0.21mm	○	○
		N-PLPN 60X(Oil)/NA=1.42, WD=0.25mm	○	○
		N-PLPN 100X(Oil)/NA=1.45, WD=0.13mm	○	○
Nosepiece	Motorized Backward Sextuple Nosepiece (with DIC slot)		●	●
Condenser	Universal Condenser (4X-100X)		●	●
	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-hand Motorized auto focusing mechanism, independent operation of left and right hand wheels, three-speed speed adjustment, focusing range 30mm, repeat positioning accuracy: 0.1μm, motorized escape and recovery mechanism		●	●
Stage	High-precision motorized X-Y double layers mechanical stage, size 275 X 239 X 44.5 mm; travel: X axis, 125mm; Y axis, 75mm. Repeat positioning accuracy ±1.5μm, maximum 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; with fluorescence B, G filters		○	●
	100W mercury lamp house, filament center and focus adjustable; with reflected mirror, mirror center and focus adjustable.		○	●

(with mercury lamp)	Digital power controller, wide voltage 100-240VAC	○	●
	ND6/ND25 Filter	○	○
	U, V, R, FITC, DAPI, TRITC, Auramine, mCherry, FL-BG fluorescent filters	○	○
Reflected LED Fluorescence Attachment	Fluorescent epi-illuminator, compound eye illumination, with UV eye protection plate	○	○
	Turret with 6 filter block cubes position, up to 4 fluorescent filters can be installed, with fluorescence filters (B,G fluorescent filters)	○	○
	3W LED fluorescent illumination, up to 4 color fluorescent light sources can be installed, and the brightness is adjustable	○	○
	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	○	○
	0.7X C-mount Adapter	○	○
	Dust Cover	●	●
	Power Cord	●	●
	Cedar Oil 5ml	●	●
	Simple Polarizing kit	○	○
	Turret Phase Contrast attachment(condenser, objectives, telescope)	○	○
	Calibration slide 0.01mm	○	○

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.

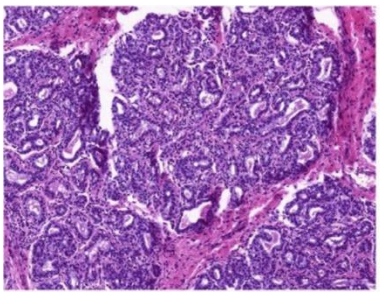
2. N-PLN PH Series Plan Phase Contrast Objectives.

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.

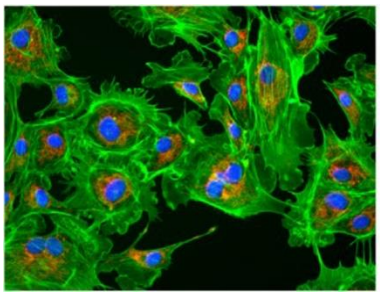
4. Bright field Viewing.



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

Mammary Gland (active stage)

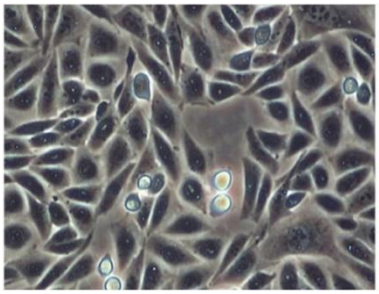
5. Fluorescent Viewing.




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.

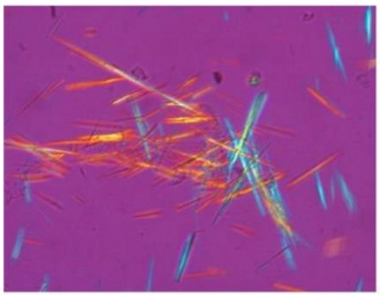
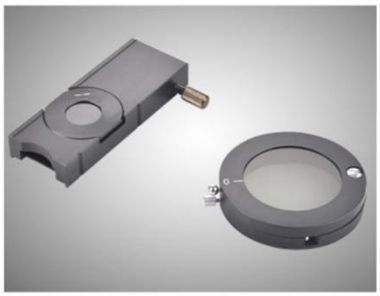
6. Phase Contrast Viewing.




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.

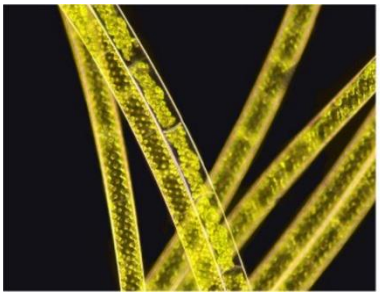
7. Polarizing Viewing.

Uric Acid Crystal

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

8. Dark-field Viewing.



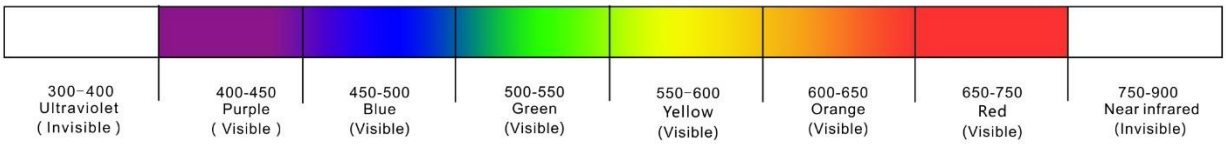

Spirogyra

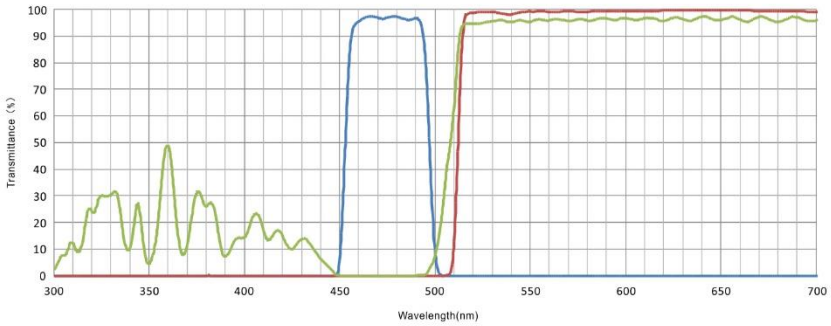
It can be used for clearly viewing of blood or flagellum etc., fine structing.

9. 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 Φ25mm, Dichroic Mirror is 5.8X37.5/1mm, the filters can be installed in the block.		

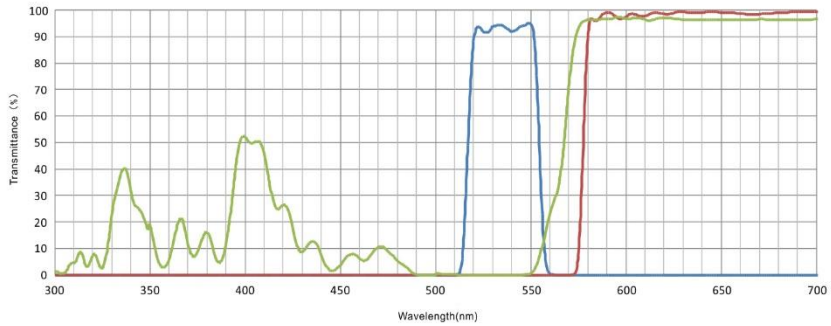
Spectral range





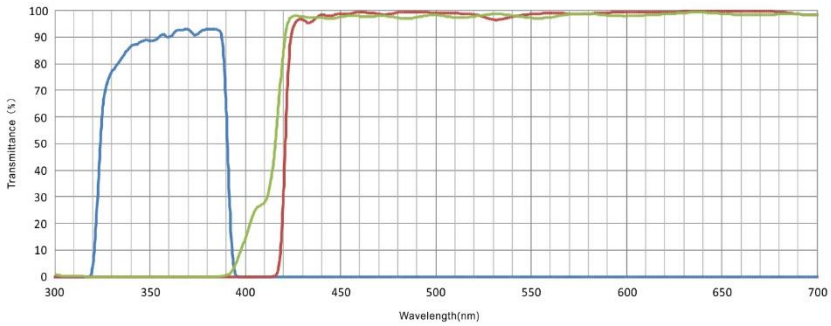
FL-B

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



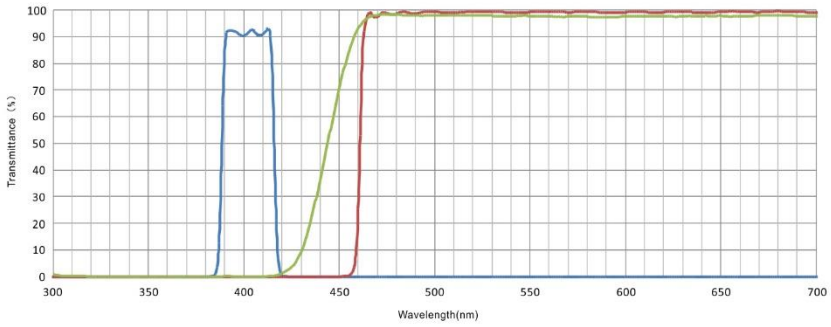
FL-G

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



FL-U

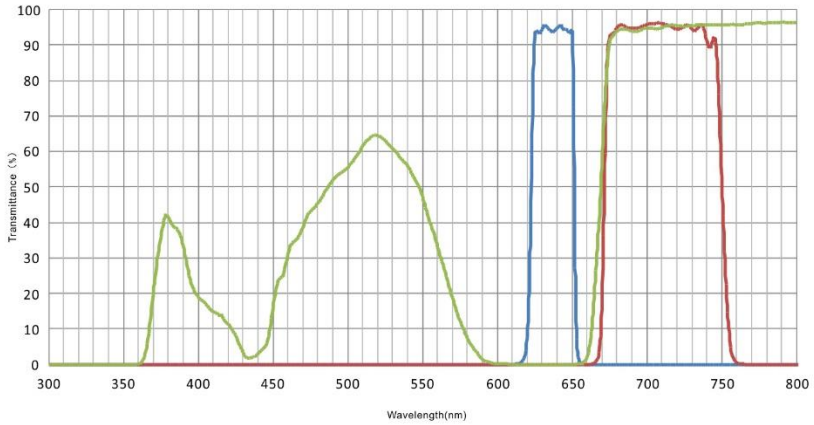
- BP 330-385
- DM 410
- BA 420IF



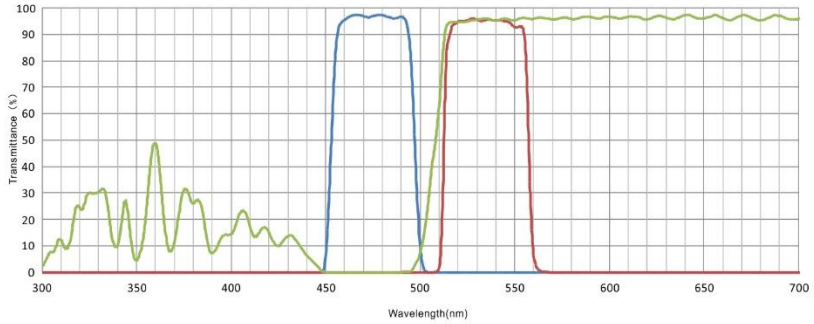
FL-V

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

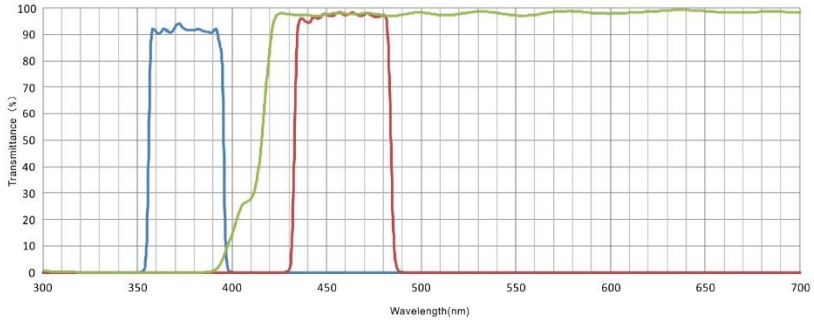
Spectral range



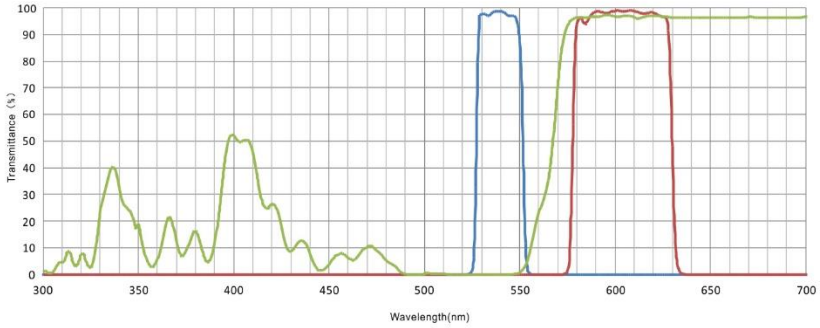
FL-R
- BP620-650
- DM660
- BA670-750



FL-FITC
- BP460-495
- DM505
- BA510-550



FL-DAPI
- BP360-390
- DM415
- BA435-485



FL-TRITC
- BP528-553
- DM565
- BA578-633

39. BS-2091 Inverted Biological Microscope

BS-2091

BS-2091F

Introduction

BS-2091 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 and tissues. 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. The microscope has smooth and comfortable operation, intelligent energy conservation system, it could be the best assistant for your work.

Feature

1. Ergonomic viewing head.

360° rotatable viewing head with 50mm-75mm adjustable inter-pupillary distance, the eye-point can be raised 34mm directly by rotating the tube at 65mm IPD, more convenient and faster than traditional way.

2. Safe and efficient LED.

Both the transmitted and EPI-fluorescent illumination have adopted LED lamps, energy saving and long-lasting, low heat, the illumination is safe and stable. X-Y mechanical stage and various specimen holders are available.

3. Intelligent ECO system

Based on the concept of energy conservation and environment protection, BS-2091 has been designed with ECO system. The illumination power can be automatically on or off through infrared induction.

4. Marking objective is available.

New designed "marking objective" with ink inside for marking the target, it is very practical and effective to extract the target cell when observe and culture the living cells.

5. Smart phone connection kit.

Specially designed kit which can be inserted into the eyepiece tube for combining a smart phone on a microscope, keep record on time by taking photo or video.

6. Professional LED reflected fluorescence illumination system.

BS-2091F is equipped with a professional LED reflected fluorescence illumination system, and can be equipped with high-quality fluorescent objective lenses and fluorescent filters, which can meet various research tasks.

(1) The fluorescence module has 4 positions. The standard configuration is Blue and Green fluorescence filters. Up to 3 sets of fluorescence filters can be installed.

(2) Using high-brightness narrow-band LED lamps as the light source, the service life can reach more than 50,000 hours, which is safe, efficient, does not need to be replaced, and is more environmentally friendly and energy-saving.

(3) BS-2091F inverted fluorescence microscope has added fluorescence filter status display, through the built-in sensor, the currently used fluorescent filter is displayed in front of the microscope, making research work more convenient and efficient.

7. Long working distance infinite plan achromatic objective and fluorescent objectives are available.

Long working distance infinite plan and phase contrast achromatic objective

Long working distance fluorescent infinite plan and phase contrast achromatic objective

Infinite plan Relief phase contrast achromatic objective

Application

BS-2091 inverted microscope can be 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

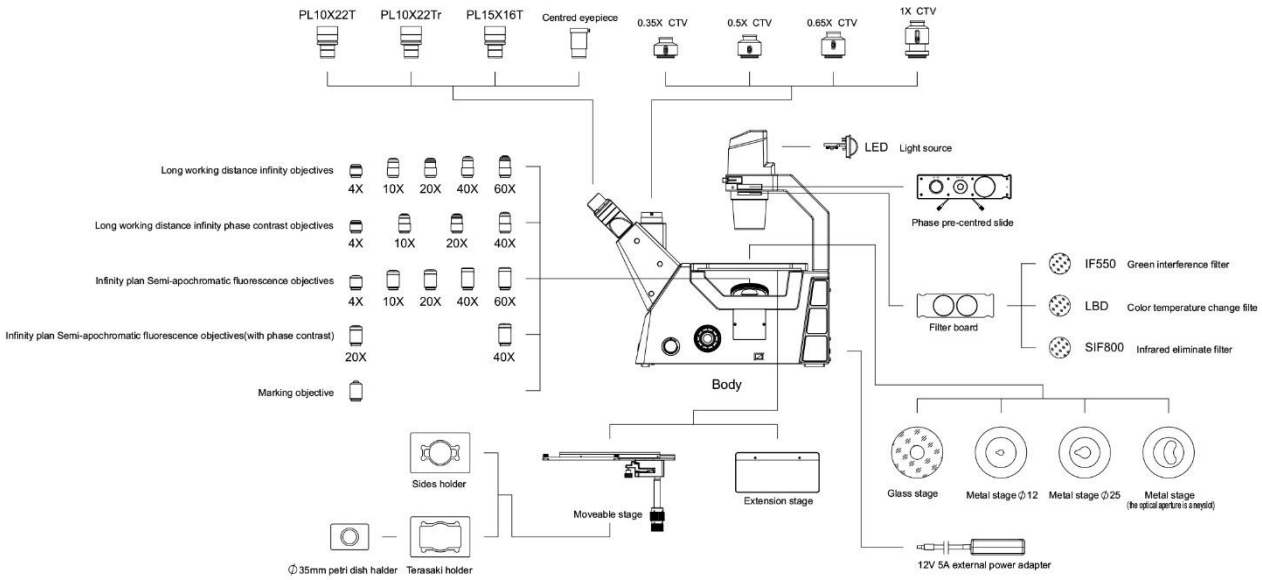
Item	Specification		BS-2091	BS-2091F
Optical System	Infinite Optical System, Tube Length 180mm, Parfocal Distance 45mm		●	●
Viewing Head	45° inclined Seidentopf trinocular head, 360° rotatable, fixed eyepiece tube, inter-pupillary range: 50-75mm, fixed splitting ratio, eyepiece: camera=20:80, Eyepiece Tube Diameter 30mm		●	
	45° inclined Seidentopf trinocular head, 360° rotatable, fixed eyepiece tube, inter-pupillary range: 50-75mm, 2 steps splitting ratio, eyepiece: camera=0:100, 100:0, Eyepiece Tube Diameter 30mm			●
Eyepiece	High eye-point wide field plan eyepiece PL10×/22mm, with adjustable diopter		●	●
	High eye-point wide field plan eyepiece PL10×/22mm, with adjustable diopter and eyepiece micrometer		○	○
	High eye-point wide field plan eyepiece PL15×/16mm, with adjustable diopter		○	○
Objective (Parfocal distance 45mm, RMS (20.32x 0.706mm))	Infinite LWD Plan Achromatic Objective	4× /0.13, WD=10.40mm	○	○
		10×/0.25, WD=7.30mm	○	○
		20×/0.40, WD=6.79mm	○	○
		40×/0.65, WD=3.08mm	○	○
		60×/0.70, WD=1.71mm	○	○
	Infinite LWD Plan Phase Contrast Achromatic Objective	PH4×/0.13, WD=10.43mm	●	○
		PH10×/0.25, WD=7.30mm	●	○
		PH20×/0.40, WD=6.80mm	●	○
		PH40×/0.65, WD=3.08mm	●	○
	Infinite LWD Plan Fluorescent Objective	Fluor 4×/0.13, WD=18.52mm	○	●
		Fluor 10×/0.30, WD=7.11mm	○	●
		Fluor 20×/0.45, WD=5.91mm	○	○
		Fluor 40×/0.65, WD=1.61mm	○	○
		Fluor 60×/0.75, WD=1.04mm	○	○
	Infinite LWD Plan Phase Contrast and Fluorescent Objective	FL PH20×/0.45, WD=5.60mm	○	●
		FL PH40×/0.65, WD=1.61mm	○	●
	Infinite LWD Plan Relief Phase Contrast Achromatic Objective	RPC 4×/0.13, WD=10.43mm	○	○
		RPC 10×/0.25, WD=7.30mm	○	○
		RPC 20×/0.40 RPC, WD=6.80mm	○	○
		RPC 40×/0.65 RPC, WD=3.08mm	○	○
	Marking Objective	Used to mark on petri-dishes	○	○
Nosepiece	Inward Quintuple Nosepiece		●	●
	Inward Quadruple Nosepiece		○	○
Condenser	N.A. 0.3 LWD Condenser, Working Distance 72mm, detachable		●	●
Telescope	Centering Telescope(Φ30mm): used to adjust the center of phase annulus		●	●
Phase Annulus	4×, 10×-20×, 40× Phase Annulus Plate (center adjustable)		●	●
RPC Plate	RPC Plate, used with Relief Phase Contrast objectives		○	○

Stage	Stage 215 (X)×250(Y) mm fixed stage with glass insert plate (Φ110mm)	●	●
	Attachable Mechanical Stage, X-Y Coaxial Control, Moving Rang: 120(X)×80(Y) mm	○	●
	Extension stage, used to extend the stage	○	●
	Terasaki Holder: used for Φ35mm Petri Dish Holder and Φ65mm petri dishes (Φ65mm and 56×81.5mm)	○	●
	Glass Slide Holder and Petri Dish Holder (Φ54mm and 26.5×76.5mm)	○	●
	Petri Dish Holder Φ35mm	●	●
	Metal plate Φ12mm (water drop type)	○	○
	Metal plate Φ25mm (water drop type)	●	○
	Metal plate (kidney type)	○	●
Focusing	Coaxial Coarse and Fine Adjustment, tension adjustment knob, Fine Division 0.002mm, Fine stroke 0.2mm per rotation, Coarse stroke 37.5mm per rotation. Moving Range: 9mm, focal plane up 6.5mm, down 2.5mm	●	●
Transmitted Illumination	5W LED (cold/warm color temperature are optional, cold color temperature 4750K-5500K, warm color temperature 2850K-3250K), Pre-centered, Brightness Adjustable, with light intensity indicator and infrared sensor	●	●
EPI-Fluorescent Attachment	Kohler LED illumination, 4 channels for fluorescent filters, configured with 3 types 5W LED lamp: 385nm, 470nm and 560nm. Pre-centered, motorized LED lamp automatically switchover according to the fluorescent filters	○	●
	B1 fluorescent filters (band-pass type), works with LED lamp of central wavelength 470nm	○	●
	G1 fluorescent filters (band-pass type), works with LED lamp of central wavelength 560nm	○	●
	UV1 fluorescent filters (band-pass type), works with LED lamp of central wavelength 385nm	○	○
Eyes Protective Plate	Eyes Protective Plate, used to prevent harm from fluorescent light	○	●
Filters for Transmitted Illumination	Green filter (Φ45mm)	●	●
	Blue filter (Φ45mm)	●	●
Cellphone Adapter	Cellphone Adapter (used to connect to eyepiece)	○	○
	Cellphone Adapter (used to connect to trinocular tube, include eyepiece)	○	○
C-mount Adapter	0.35× C-mount Adapter (focus adjustable, could not work with fluorescent microscope)	○	
	0.5× C-mount Adapter (focus adjustable)	○	○
	0.65× C-mount Adapter (focus adjustable)	○	○
	1× C-mount Adapter (focus adjustable)	○	○
Trinocular Tube	Trinocular Tube Φ23.2mm, used to connect camera	○	○
Other Accessories	Allen wrench, M3 and M4, 1pc each	●	●
	Fuse, T250V500mA	●	●
	Dust cover	●	●
Power Supply	External Power Adapter, input voltage AC 100-240V, 50/60Hz, output 12V5A	●	

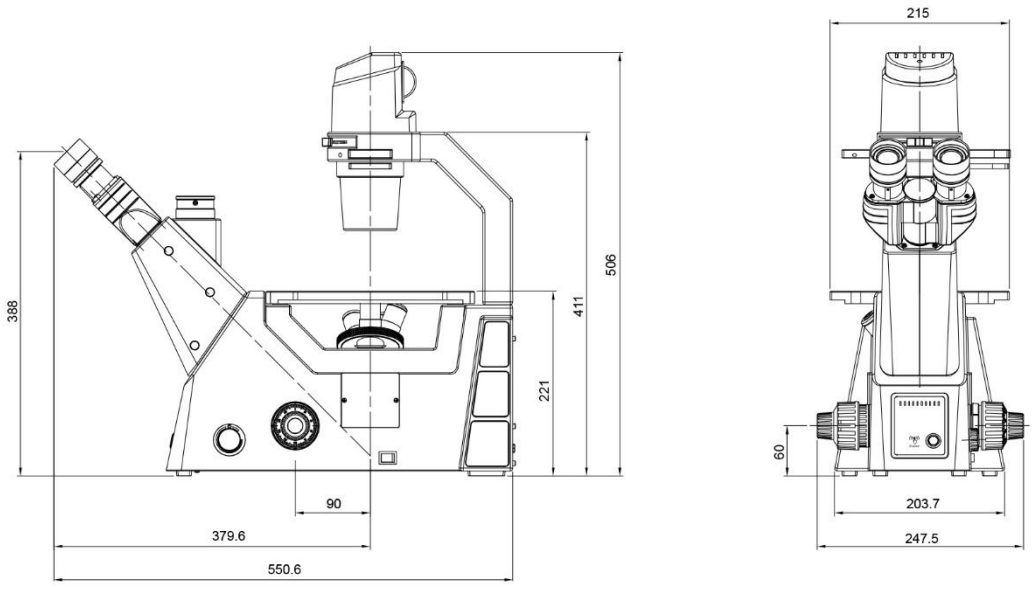
	External Power Adapter, input voltage AC 100-240V, 50/60Hz, output 12V5A, transmitted and reflected illumination separately control		●
Packing	1 cartons/set, Packing Size: 68cm×67cm×47cm, Gross Weight: 16kgs, Net Weight: 14kgs	●	
	1 cartons/set, Packing Size: 73.5cm×67cm×57cm, Gross Weight: 18kgs, Net Weight: 16kgs		●

Note: ● Standard Outfit, ○ Optional

Configuration

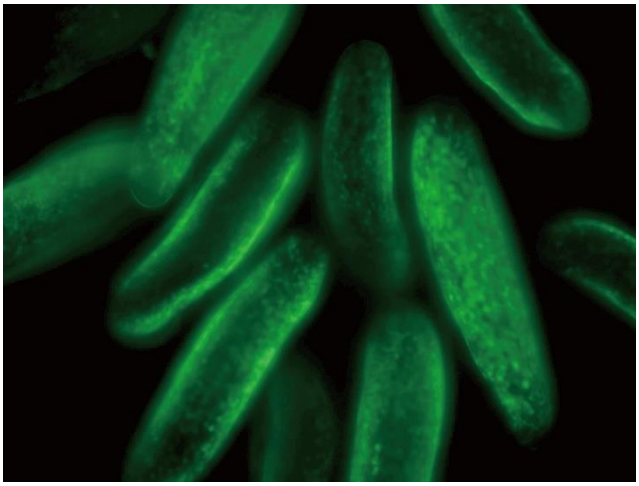
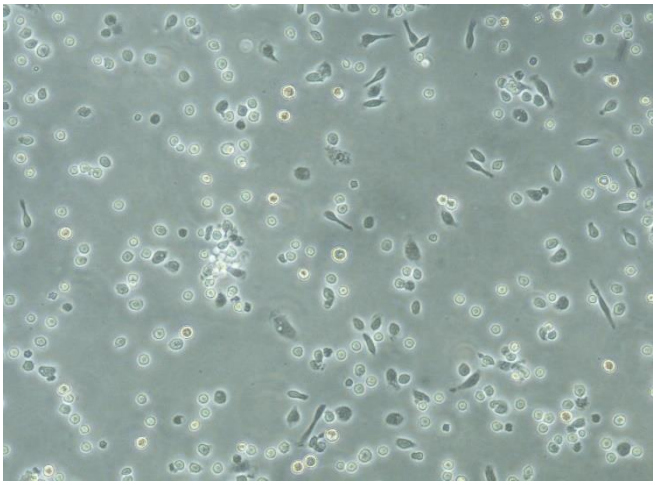
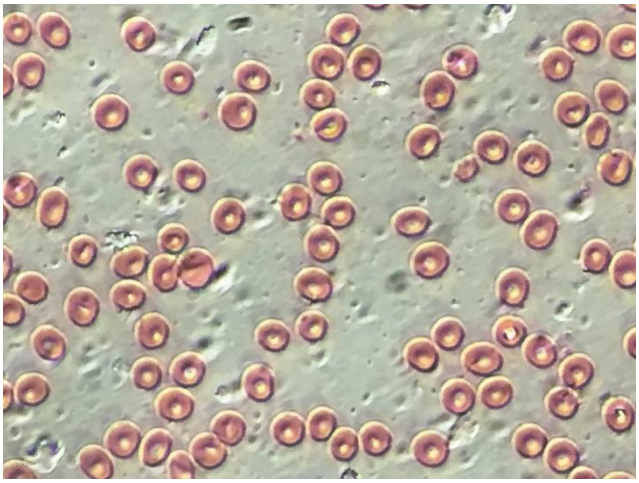
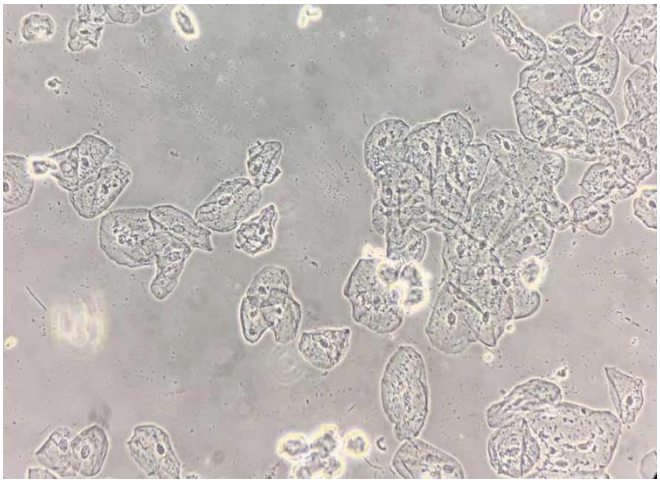


Dimension



Unit: mm

Sample Images

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

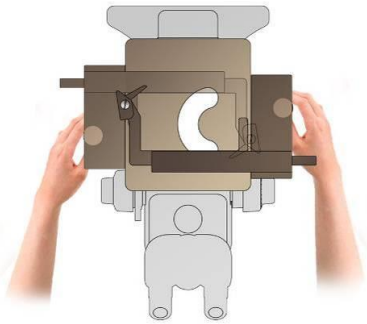
1. Excellent infinite optical system, Wide field eyepiece, view field up to Φ22mm, more comfortable for observation.
2. More objectives can be installed on the large diameter quintuple nosepiece, easier to change objective.
3. Light distribution (both): 100 : 0 (100% for eyepiece); 80 : 20 (80% for trinocular 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) × 240 (Y)mm, Moving range: 128mm (X) × 80 (Y)mm.

Mechanical stage available for 96 holes plate.

6. Culture Dish Holder

Φ65mm Φ54mm Φ35mm blood cell counter holder



7. Knob of X-Y mechanical stage can be changed by left or right.
8. Infinite plan 4X phase contrast objective is available.

LWD Infinite Plan Phase Contrast Objectives

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.

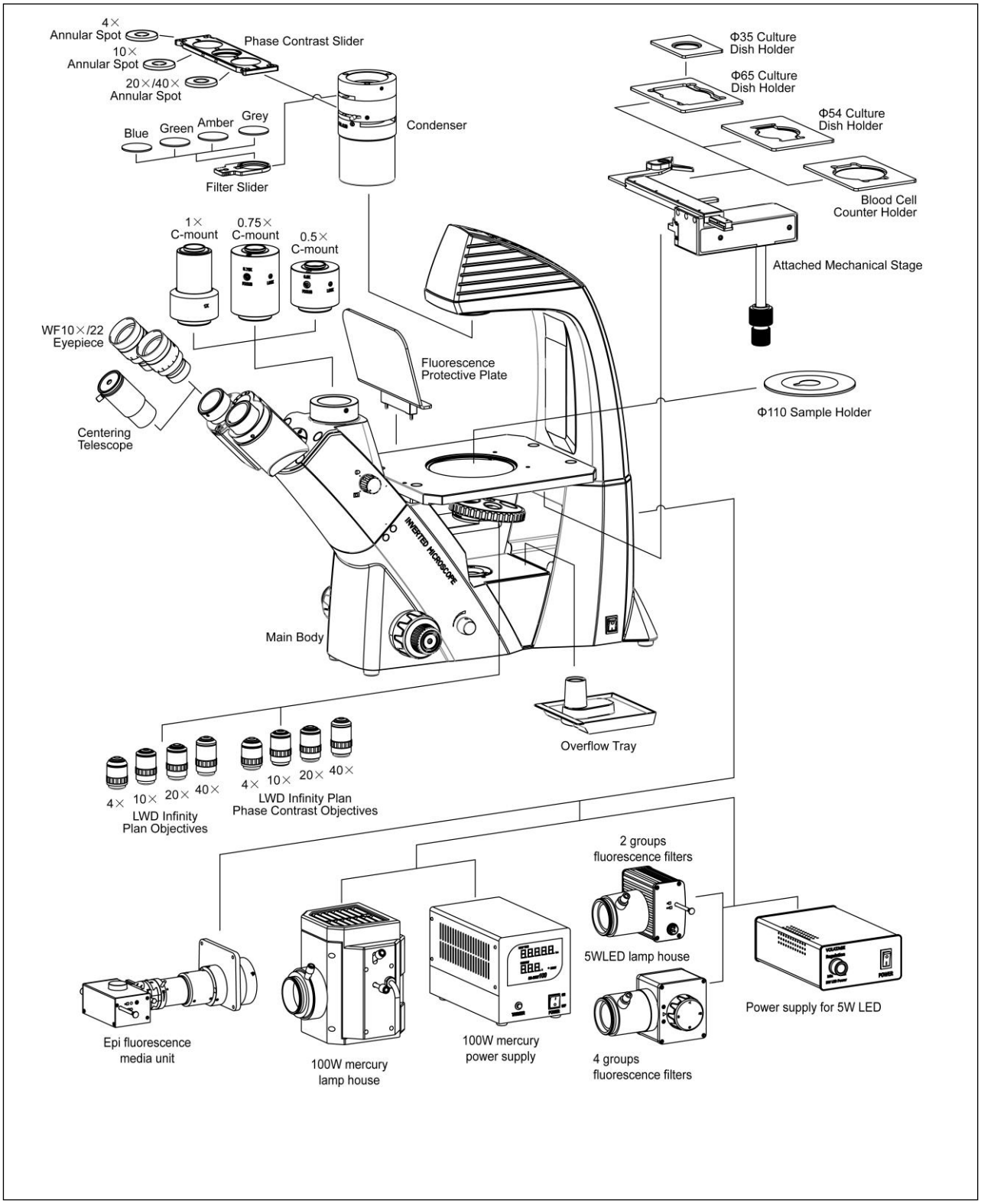
Specification

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

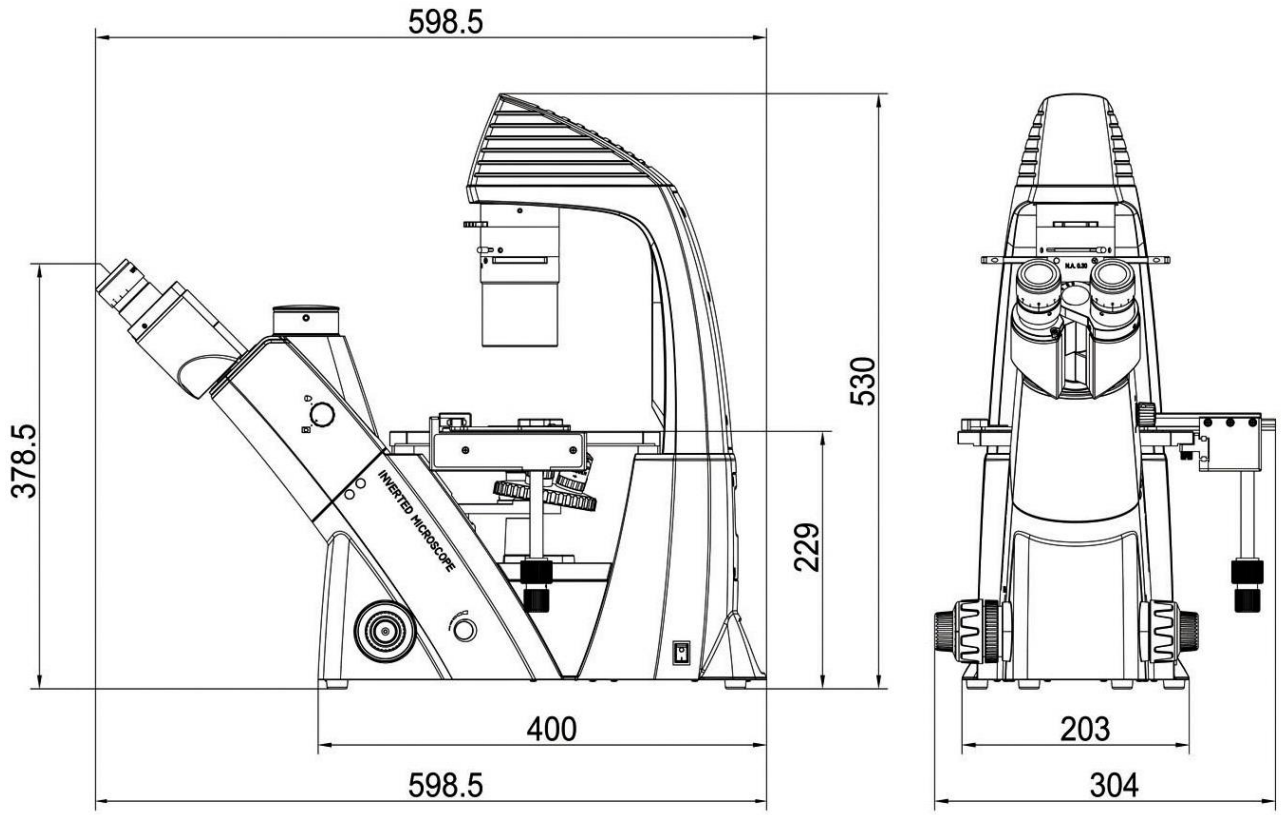


Fluorescent Attachment

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 Φ22mm, 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.

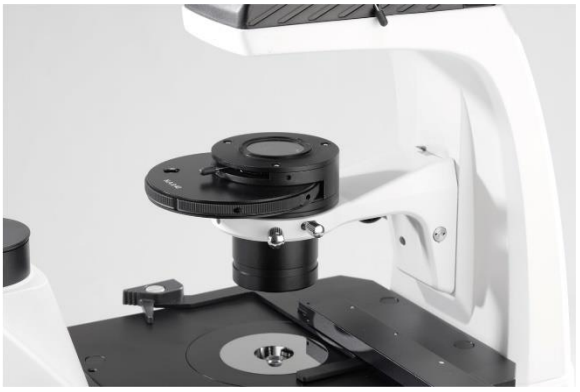
5. Light distribution (both): 100 : 0 (100% for eyepiece); 80 : 20 (80% for trinocular head and 20% for eyepiece).

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.

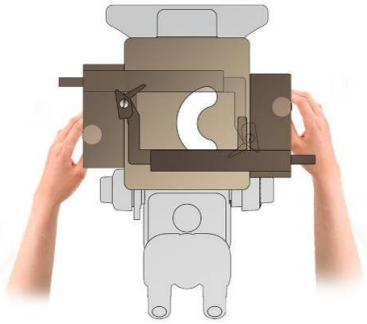


10. Culture Dish Holders.

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.


LWD Infinite Plan Phase Contrast Objectives



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.

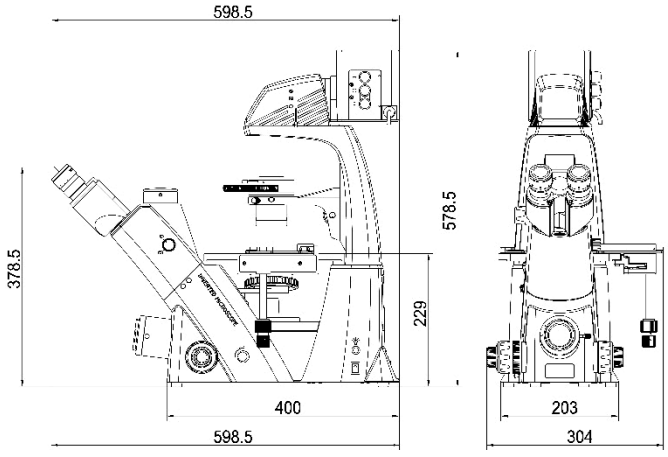
Specification

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		○	○	○

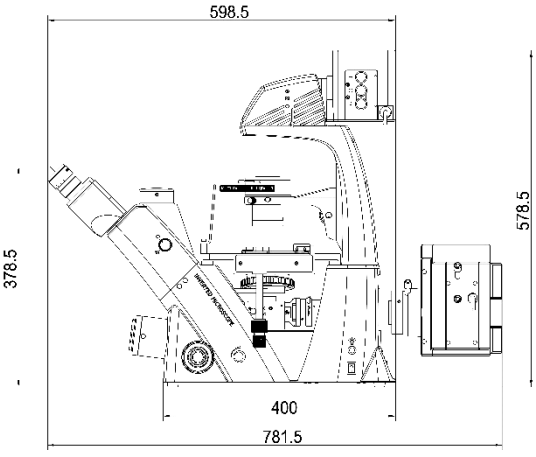
	Petri Dish Holder Φ54mm	●	●	●
	Petri Dish Holder Φ35mm	○	○	○
	Blood cell counter Holder	○	○	○
Focusing	Coaxial Coarse and Fine Adjustment, Fine Division 0.002mm, Moving Range 10mm	●	●	●
Koehler Illumination	6V/50W Halogen Lamp, Brightness Adjustable, input voltage: 100V-240V	●	●	●
	5W LED Lamp, Brightness 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



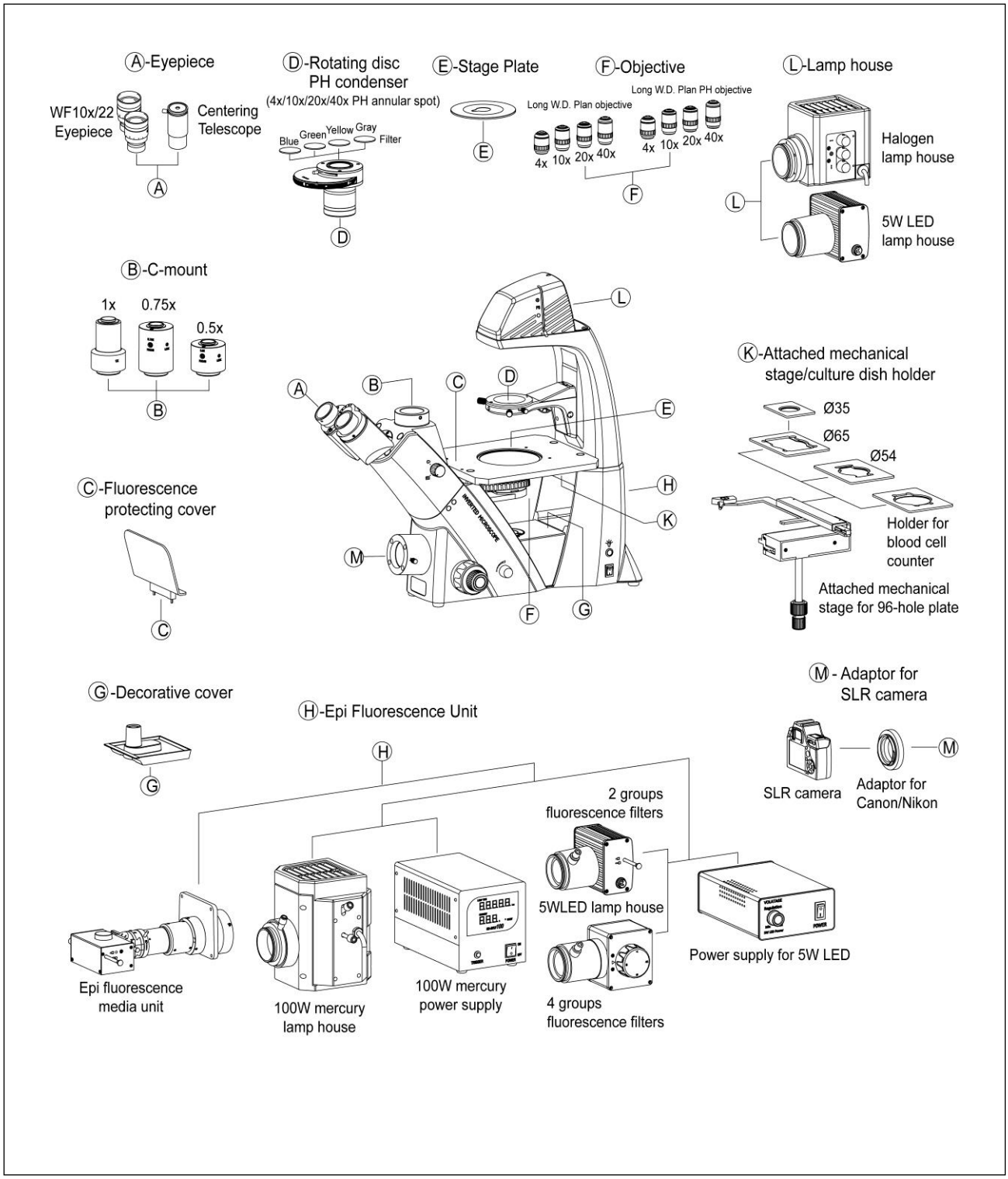
Dimension of BS-2093B



Dimension of BS-2093BF

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)

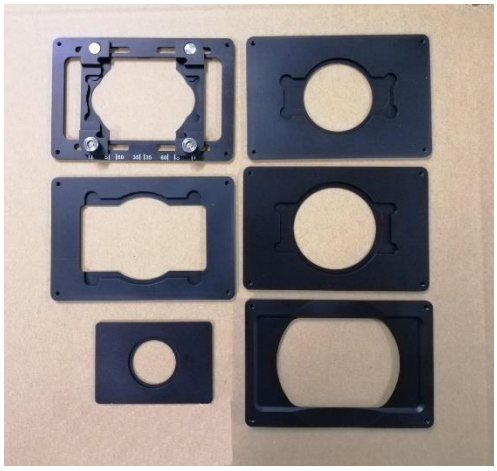
BS-2094B(front)

BS-2094B(right side)

Feature

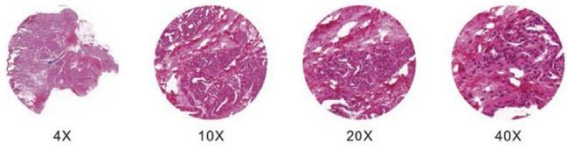
1. Excellent infinite optical system, Φ22mm wide field eyepiece, 45° inclined viewing head, more comfortable for observation.
2. Camera port is on left side, less disturb for operation. Light distribution (both): 100 : 0 (100% for eyepiece); 0 : 100 (100% for camera).
3. Long working distance condenser 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-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

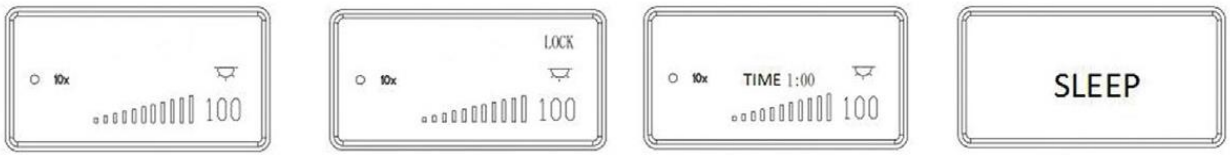
Press + clockwise rotate: Switch to the transmitted light source

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.



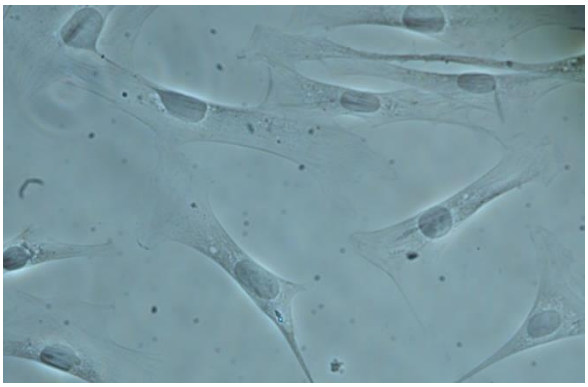
Start& working Lock mode Turn off the light in 1 hour Sleep mode

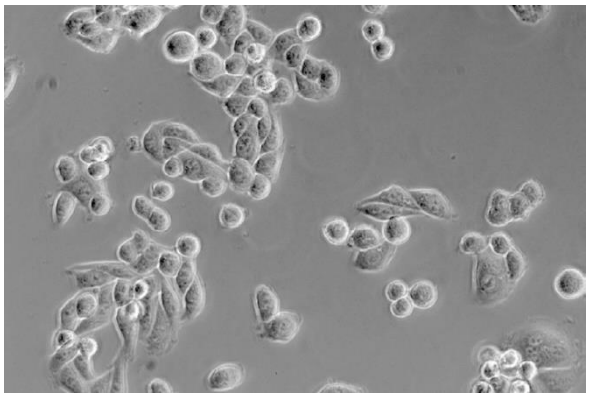
6. The microscope body is compact, stable and suitable for clean bench. The microscope body has been coated with anti-UV material and can be placed into the clean bench for sterilization under UV lamp.

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.

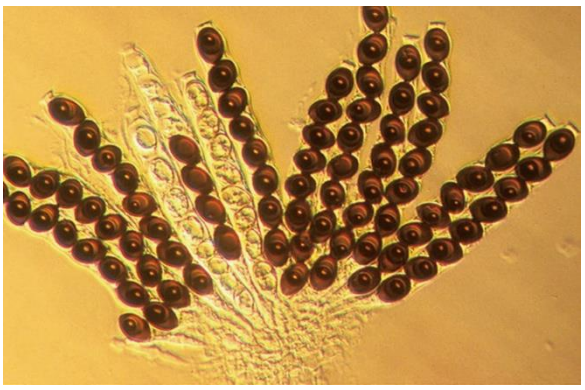
Application range: Living cells culture, Micro-organism, Tissue slide, cell nuclei and organelles etc.





(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

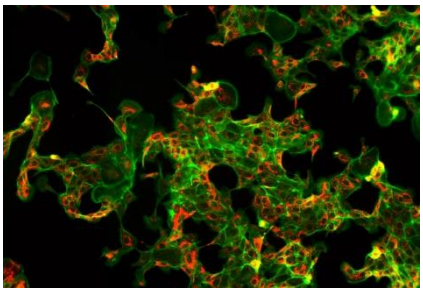
8. LED Fluorescent attachment is optional.

(1) LED light makes fluorescent observation easier.

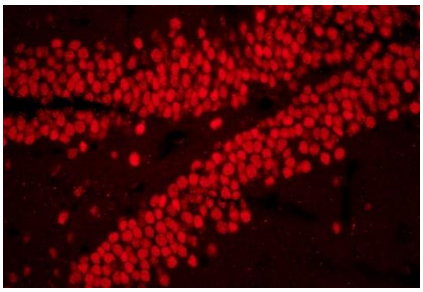
Fly-eye lens and Kohler illumination have provided a uniform and bright field of view, which is benefit to get high definition images and perfect details. Compared with traditional mercury bulb, the LED lamp has much longer working life, it saves money and has greatly improved the working efficiency.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

(2) Suitable for a variety of fluorescent dyes.

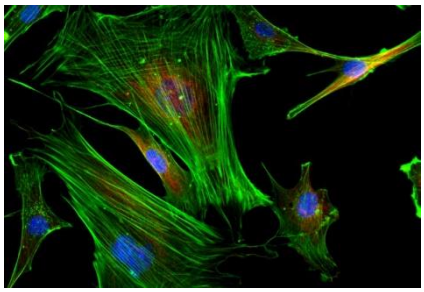
The LED fluorescent attachment has equipped with 3 fluorescent filter blocks, it can be applied to a wide range of dyes and capture clear high contrast fluorescence images.



Breast cancer



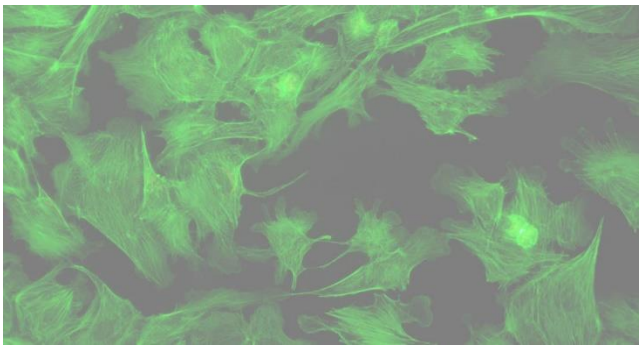
Hippocampus



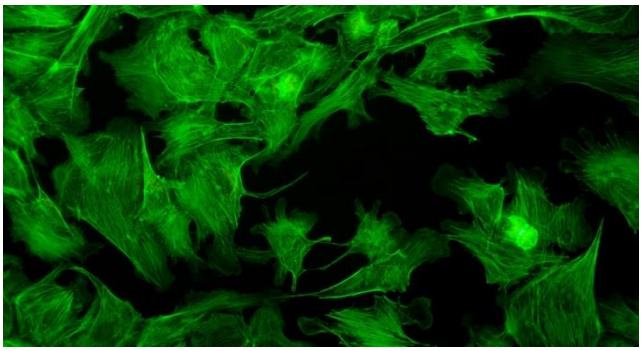
Mouse brain nerve cells

(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.

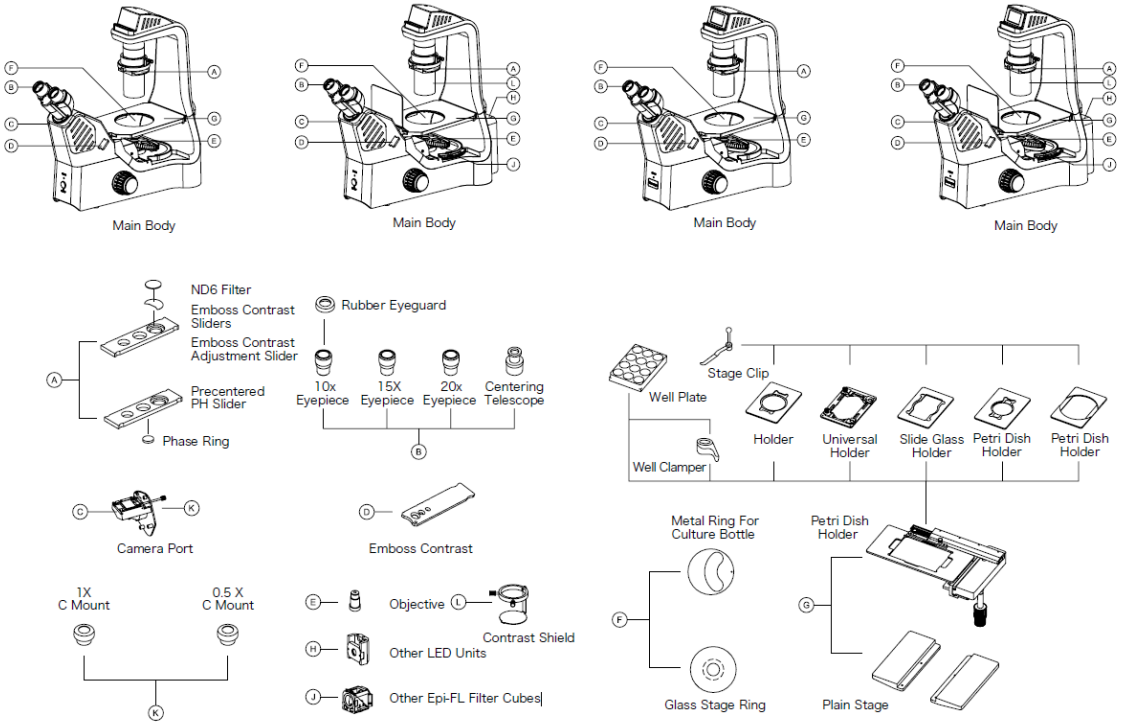
Specification

Item	Specification		BS-2094 A	BS-2094 AF	BS-2094 B	BS-2094 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)		●	●	●	●

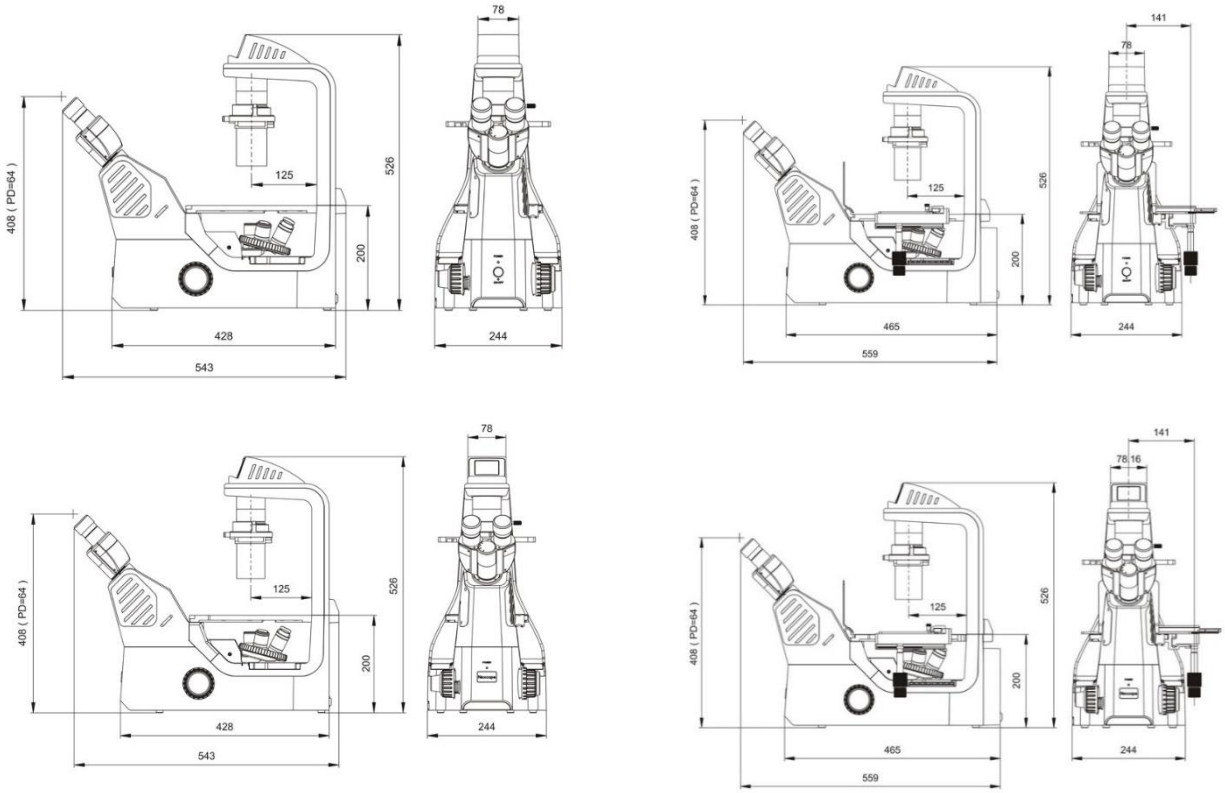
	Attachable Mechanical Stage, X-Y Coaxial Control, Moving Rang: 128mm×80mm, accept 5 types of petri-dish holders, well plates and stage clips	●	●	●	●
	Auxiliary stage 70mm×180mm, used to extend the stage	○	○	○	○
	Universal Holder: used for Terasaki plate, glass slide and Φ35-65mm petri dishes	●	●	●	●
	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

BS-2094CF

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, Φ22mm wide field eyepiece, 5°-35° 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).
4. Large size stage, convenient for research. Stage Size: 170mm(X) × 250 (Y)mm, Mechanical stage moving range: 128mm (X) × 80 (Y)mm. Various of petri-dish holders are available.


Slide Glass Holder
Φ65mm


Universal Holder

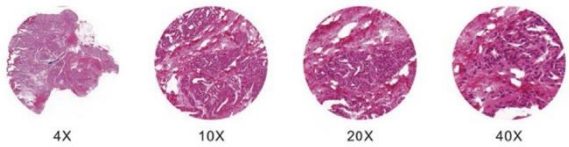

Terasaki Holder


Petri Dish Holder
Φ54mm


Peteri Dish Holder
Φ90mm

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

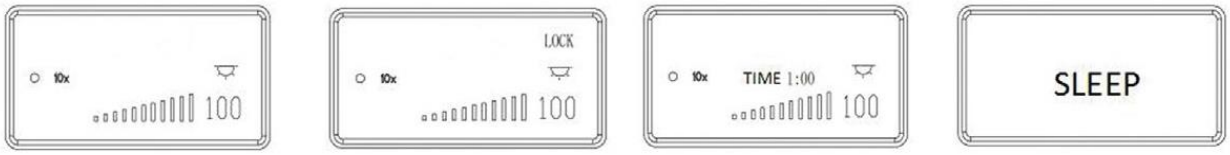
Press + clockwise rotate: Switch to the transmitted light source

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 control mechanism has a reasonable layout and easy to Operate.

The frequently used control mechanisms of these microscopes are close to the user and in low-hand position. This kind of design makes operation more quickly and conveniently, and reduce the fatigue caused by the long observation. On the other hand, it reduces the airflow and dust caused by large amplitude operation, it is very effective to reduce the probability of sample pollution. It is a strong guarantee for the accuracy and repeatability of the experimental results.

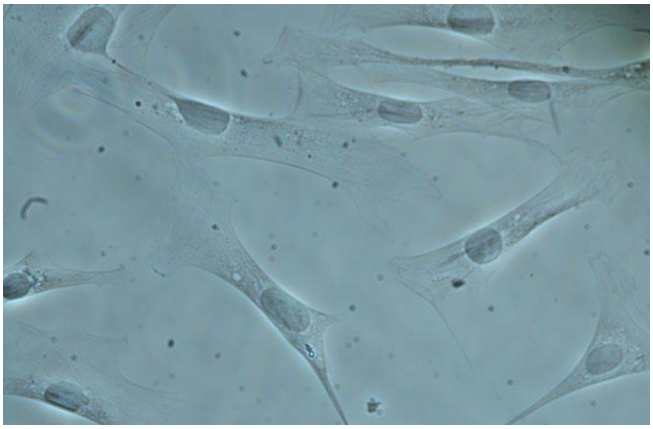
7. The microscope body is compact, stable and suitable for clean bench. The microscope body has been coated with anti-UV material and can be placed into

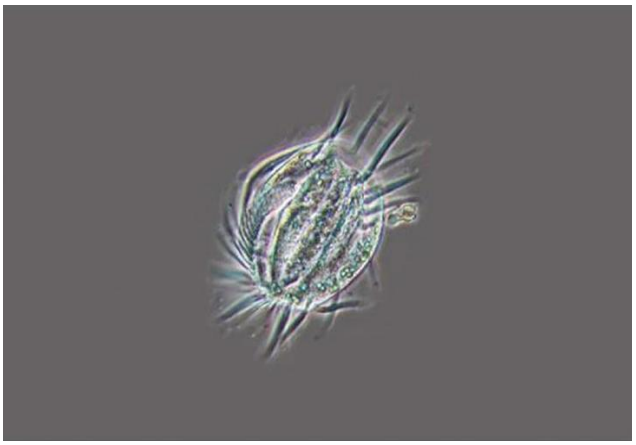
the clean bench for sterilization under UV lamp. The distance between the eye point to the operation button and the focusing knob of the microscope is relatively short, and the distance from the stage is far away. It is available to make the viewing head and operating mechanism outside, and stage, objectives and sample inside the clean bench. So realize cell sampling and operation inside and observing comfortably outside.

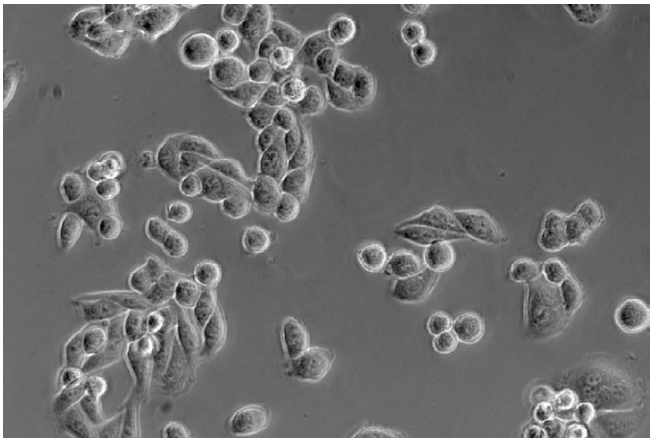
8. Phase Contrast, Hoffman Modulation Phase Contrast and 3D Emboss Contrast observation method are available with transmitted illumination.

(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.

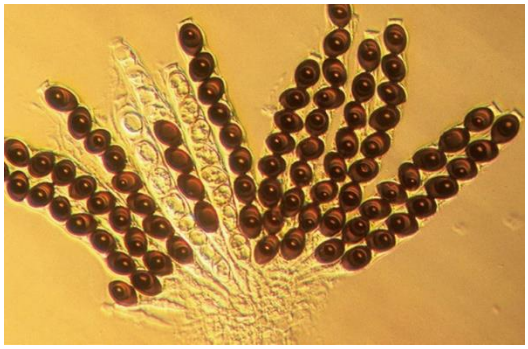






(2) Hoffman Modulation Phase Contrast. With slant light, Hoffman phase contrast changes phase gradient into light intensity variety, it can be used to observe unstained cells and living cells. Giving 3D effect for thick samples, it can greatly reduce the halo in thick specimens.

(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

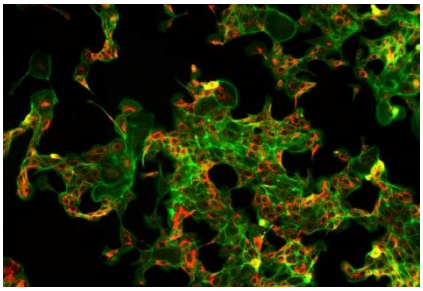
9. LED Fluorescent attachment is optional.

(1) LED light makes fluorescent observation easier.

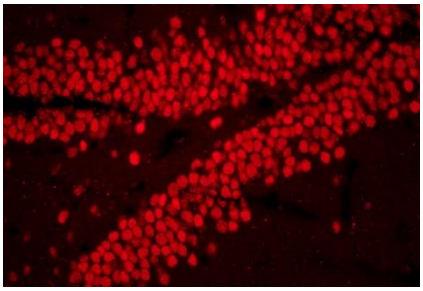
Fly-eye lens and Kohler illumination have provided a uniform and bright field of view, which is benefit to get high definition images and perfect details. Compared with traditional mercury bulb, the LED lamp has much longer working life, it saves money and has greatly improved the working efficiency.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

(2) Suitable for a variety of fluorescent dyes.

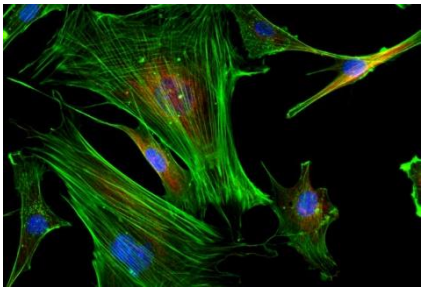
The LED fluorescent attachment has equipped with 3 fluorescent filter blocks, it can be applied to a wide range of dyes and capture clear high contrast fluorescence images.



Breast cancer



Hippocampus



Mouse brain nerve cells

10. With a tiltable viewing head, the most comfortable state of operation can be maintained regardless of whether you are sitting or standing.

11. Tiltable transmitted illumination column.

The culture dishes used for cell observation often have a larger volume and area, and the tiltable transmitted illumination column provides more space for sample replacement, which is more convenient for users to operate.

Application

BS-2094C inverted microscope can be 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.

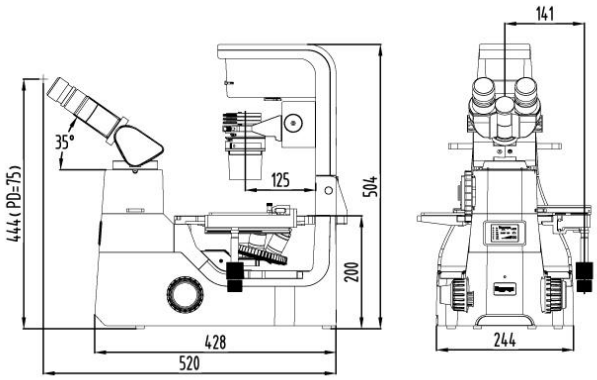
Specification

Item	Specification		BS-2094C	BS-2094CF
Optical System	NIS 60 Infinite Optical System, Tube length 200mm		●	●
Viewing Head	Seidentopf Tilting Binocular Head, adjustable 5-35° 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	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	○	●
		60×/0.70, WD=1.8-2.6mm, cover glass=0.1-1.3mm	○	○

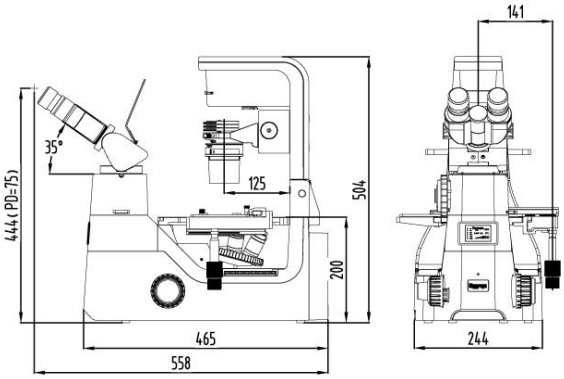
	NIS60 Infinite LWD Plan Semi-APO Phase Contrast Objective	4×/0.13, WD=17.78mm, cover glass=-	○	○
		10×/0.3, WD=7.4mm, cover glass=1.2mm	○	○
		20×/0.45, WD=7.5-8.8mm, cover glass=1.2mm	○	○
		40×/0.60, WD=3-3.4mm, cover glass=1.2mm	○	○
		60×/0.70, WD=1.8-2.6mm, cover glass=0.1-1.3mm	○	○
Nosepiece	Coded Quintuple Nosepiece		●	●
Condenser	N.A. 0.3 Insert Plate Condenser, Working Distance 75mm		●	●
	N.A. 0.4 Insert Plate Condenser, Working Distance 45mm		○	○
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 Koehler illumination, Brightness Adjustable		●	●
EPI-Fluorescent Attachment	LED illuminator, built-in Fly-eye lens, can be configured with up to 3 different LED light source and B, G, U fluorescent filter blocks		○	●
	LED light source and V, R, FITC, DAPI, TRITC, Auramine, mCherry 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 near viewing head		○	○
C-mount Adapter	0.5× C-mount Adapter (focus adjustable)		○	○
	1× C-mount Adapter (focus adjustable)		●	●
Other Accessories	Warm stage		○	○
	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

Dimension



BS-2094C



BS-2094CF

Unit: mm

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.

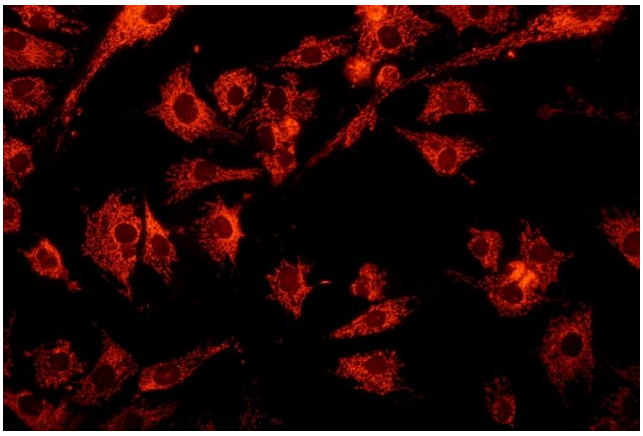
Specification

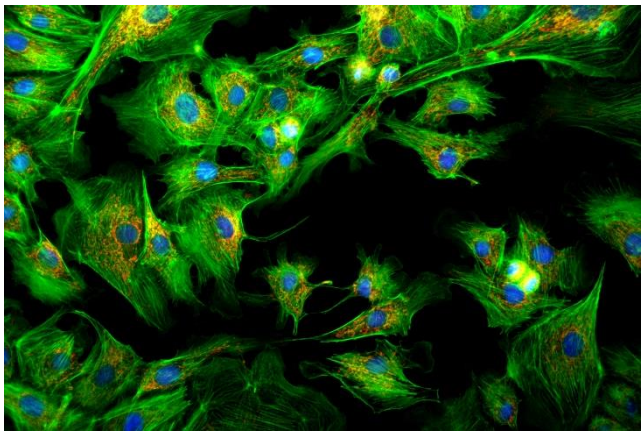
Item	Specification	BS-2095	BS-2095F	BS-2095F(LED)
Optical system	NIS60 Infinite optical system	●	●	●
Eyepiece	SW10×/25mm, ϕ30mm	●	●	●
	SW10×/22mm, ϕ30mm	○	○	○
	EW12.5×/17.5mm, ϕ30mm	○	○	○
	WF15×/16mm, ϕ30mm	○	○	○
	WF20×/12mm, ϕ30mm	○	○	○
Viewing Head	Trinocular head with Bertrand lens, inclined at 45°, Interpupillary 47-78mm, 3 position beam split ratio: 50/50, 100/0, 0/100	●	●	●
	Binocular ERGO head	○	○	○
Infinite 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	○	○	○
Infinite Plan-APO objective	100× NA=1.45 WD=0.13mm Cover glass 0.17mm	○	○	○
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 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	○	○	○
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	○	○	○

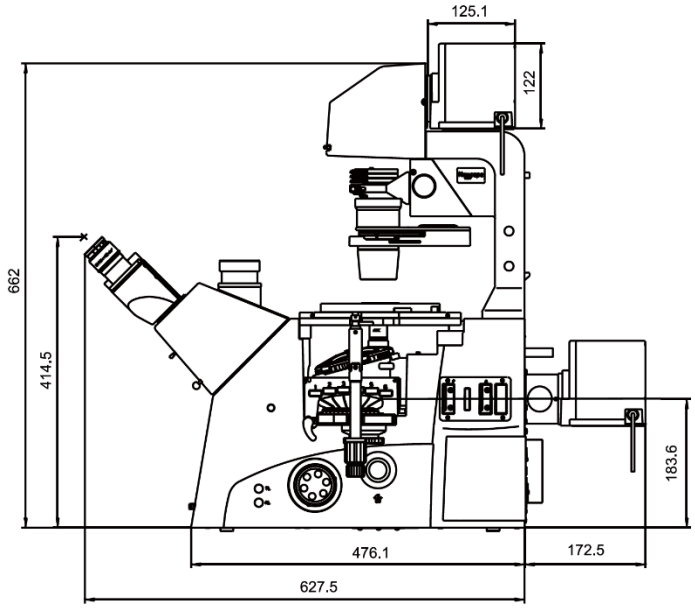
Note: ● Standard Outfit, ○ Optional

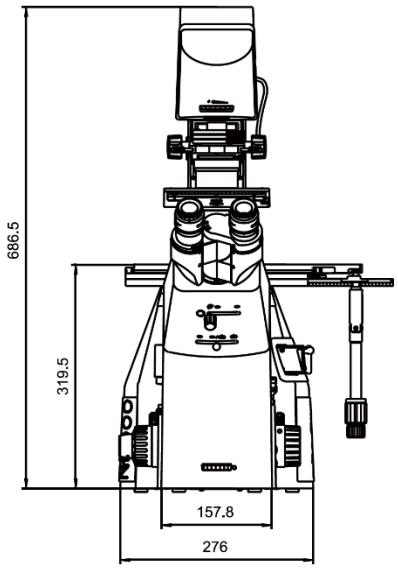
Sample Images



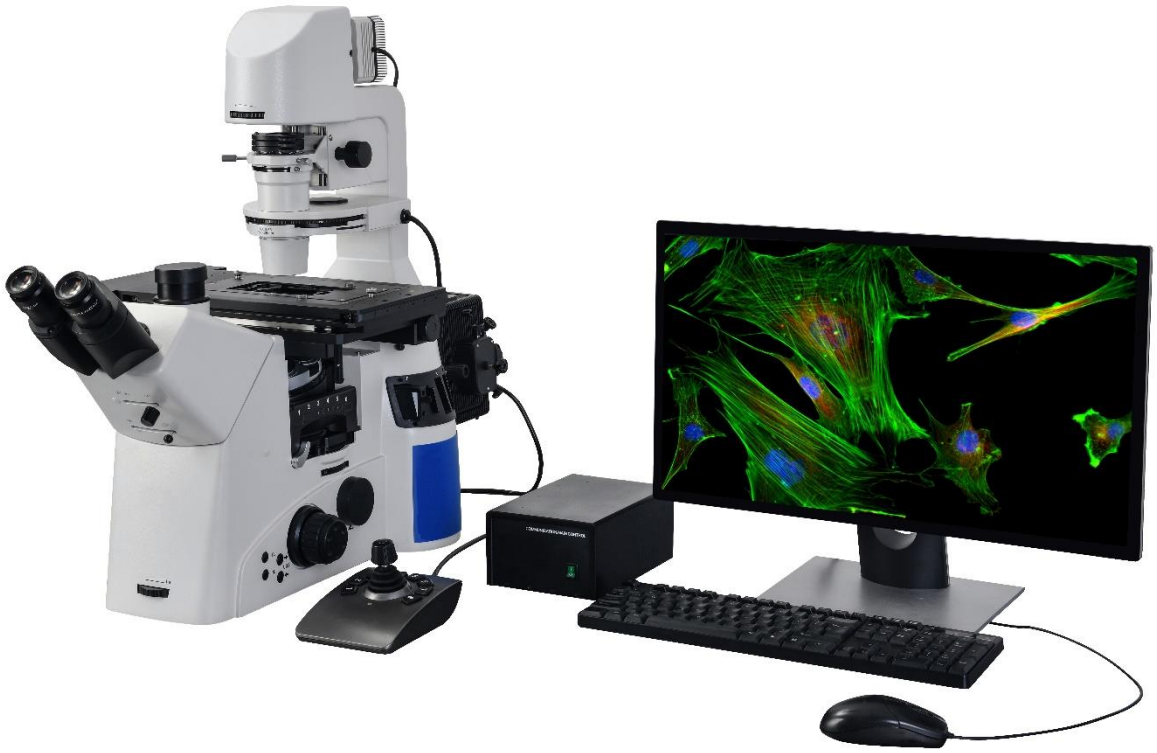


Dimension





45. BS-2095FMA Motorized Inverted Fluorescent Microscope



BS-2095FMA

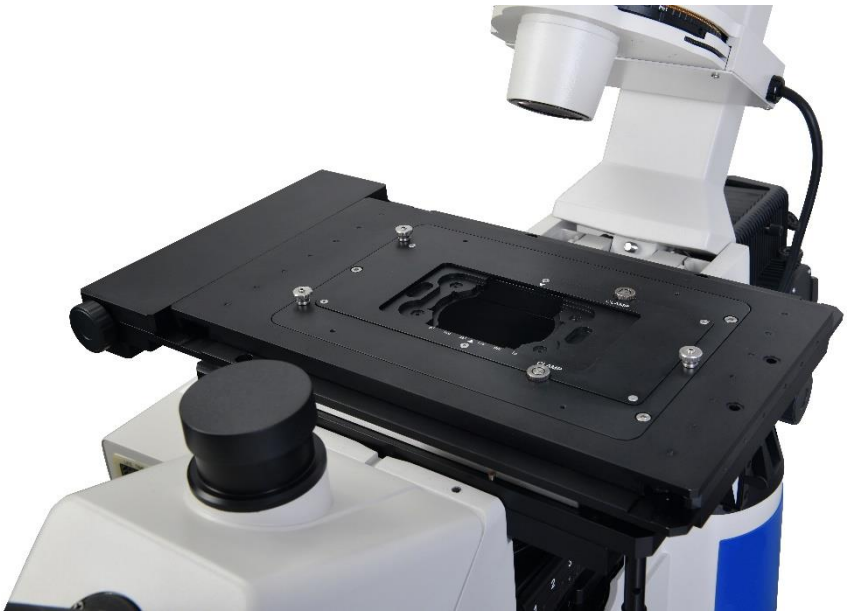
Introduction

BS-2095FMA Motorized Inverted Biological Fluorescent 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 and ergonomic design.

Users can use software and operating handle(joystick) to control the motorized condenser, motorized stage, motorized nosepiece, motorized focusing, motorized fluorescent filter blocks. The microscope also have autofocusing function. There are 3 camera ports on the microscope(trinocular head, left and right).

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. The angle of transmitted illumination arm can be adjusted.



6. Motorized condenser, motorized stage, motorized nosepiece, motorized focusing, motorized fluorescent filter blocks. The microscope also have autofocusing function.

Motorized Stage

Motorized condenser

motorized fluorescent filter blocks

Motorized nosepiece

Control box and joystick

Application

BS-2095FMA Motorized Inverted Biological Fluorescent Microscope can be 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.

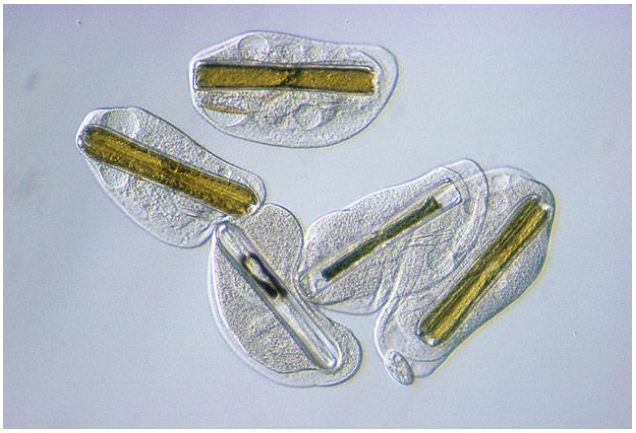
Specification

Item	Specification	BS-2095FMA
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	○
Infinite 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	○
Infinite Plan-APO objective	100× NA=1.45 WD=0.13mm Cover glass 0.17mm	○
Nosepiece	Motorized 6-hole nosepiece with DIC slot (DIC for transmitted and reflected)	●
Condenser	Motorized Long working distance condenser, NA0.55, WD=26mm, with 6-position plate	●
Transmitted Illumination	5W LED illumination (service life of minimum 50,000 hours)	●

Focusing	Motorized auto focusing mechanism, independent operation of left and right hand wheels, three-speed speed adjustment, focusing range 9mm, repeat positioning accuracy: 0.1μm, motorized escape and recovery mechanism	●
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	Motorized Three-layer mechanical stage, stage size: 340×230mm, movement range 130(X)×100(Y)mm, 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.	●
	Motorized Multi-model filter block structure, total 6 position, could be taken out from main frame and change different cube easily.	●
C-mount Adapter	1× C-mount Adapter, 1pc	●

Note: ● Standard Outfit, ○ Optional

Sample Images



46. BS-2190A Inverted Biological Microscope

BS-2190A

BS-2190AF

Introduction

BS-2190A series Inverted Biological Microscopes are specially designed for observation of cell tissues culture and can be used to observe cell growth processes, tissue contours and internal structures. Optional professional fluorescence attachment can be used to observe autofluorescence phenomena in cells, fluorescence transfection, protein transfer and other fluorescence phenomena of biological cells.

With innovative infinite optical system and ergonomic design, the microscopes have excellent optical performance and easy to operate features. The microscopes have smooth and comfortable operation, they could be used for medical and health units, universities, research institutes to observe cultured living cells and tissues.

Feature

1. Color corrected infinite optical system, excellent optical performance and great images.
2. Application of high-contrast and low chromatic phase contrast observation, access to detailed examination of internal structure of the cells.
3. Supply long working distance and high N.A. objectives to get the flat and clear images.
4. Long working distance condenser has capacity to use revolution bottle and suitable for many sample petri-dishes.
5. Well-designed body structure, steady and reliable and better anti-vibration performance.
6. Low position coaxial coarse and fine adjustment, ergonomic design.
7. Professional vertical fluorescent technology, to get clear and bright fluorescent images.
8. Long working distance infinite plan achromatic objective, phase contrast objective and fluorescent objectives are available.

Long working distance infinite plan and phase contrast achromatic objective

Long working distance fluorescent infinite plan and semi-APO phase contrast objective

Application

BS-2190A series inverted microscopes can be 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.

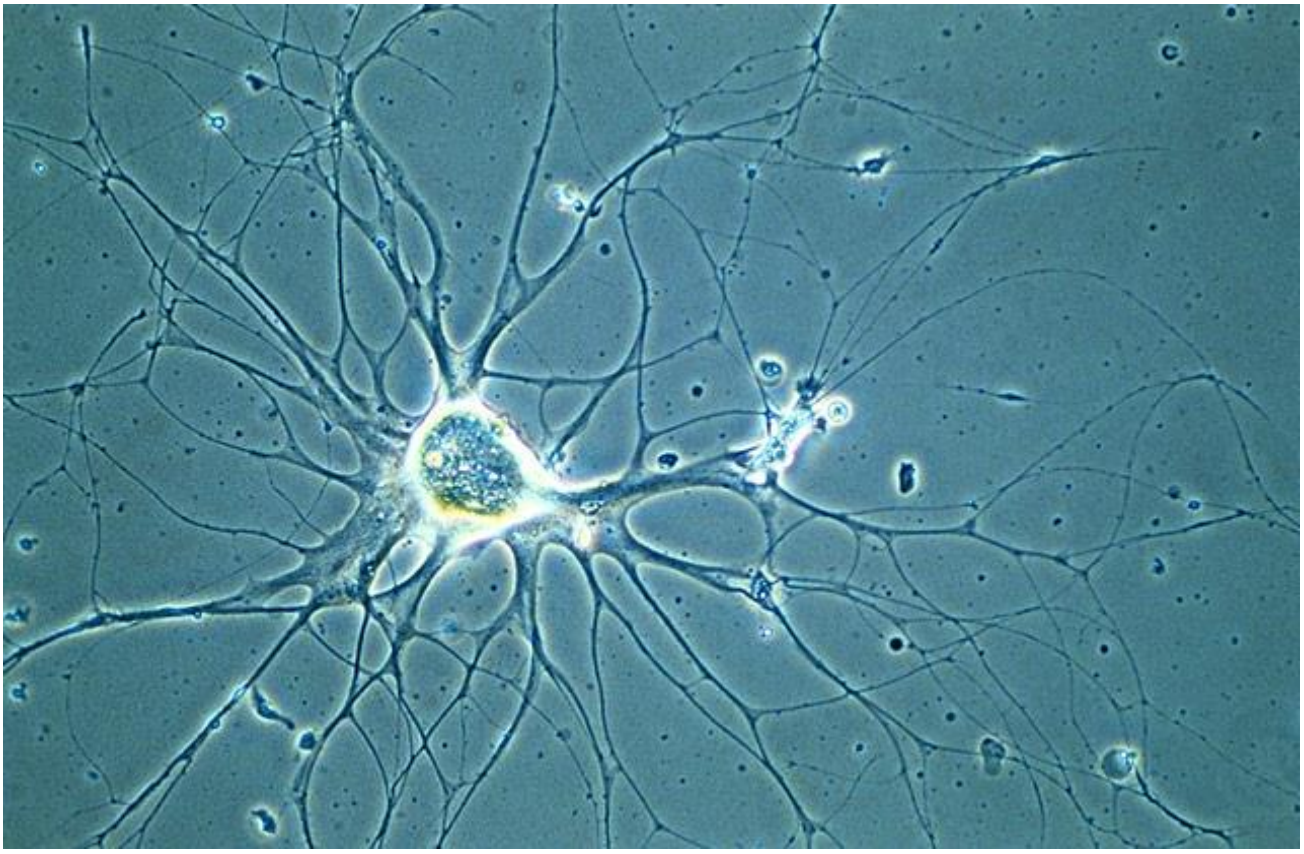
Specification

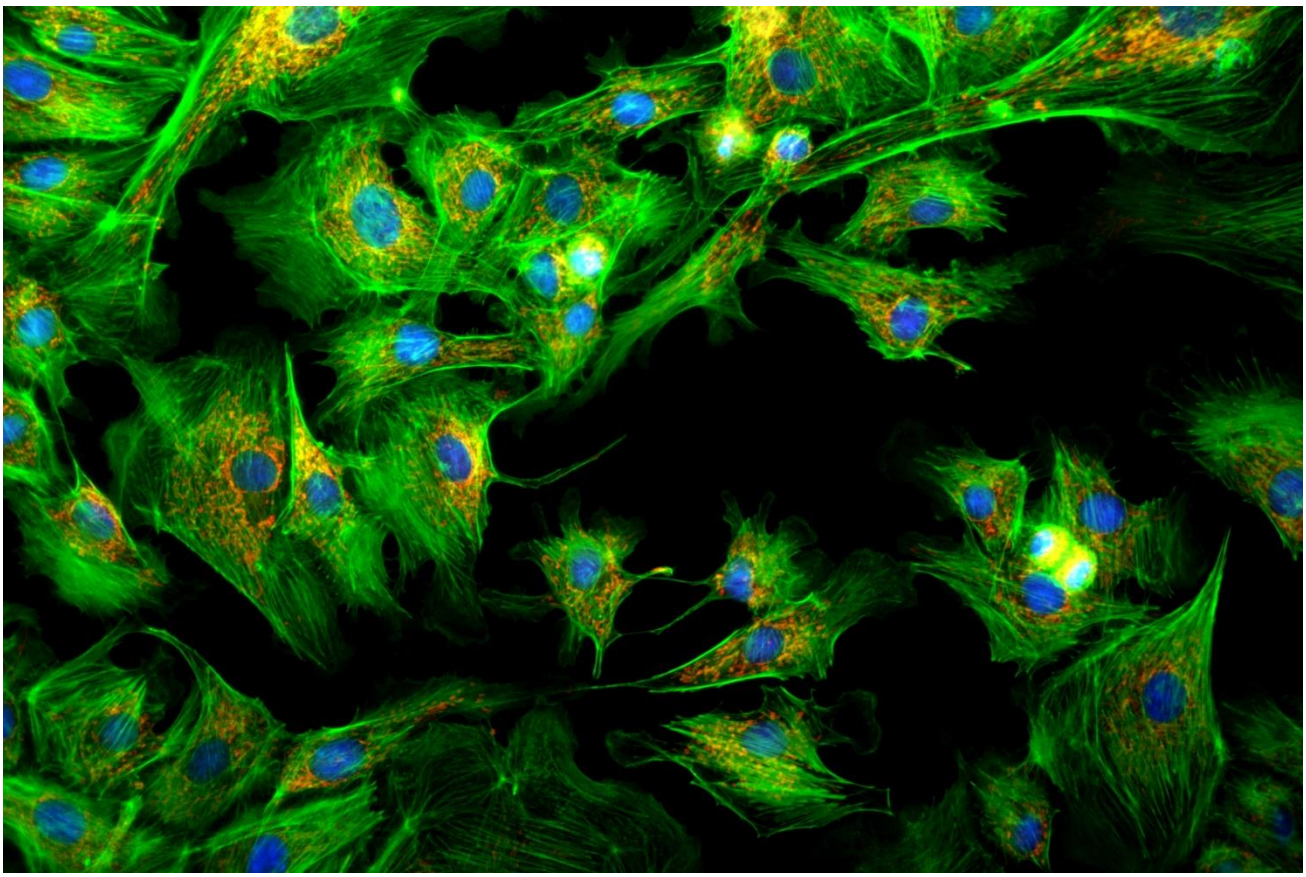
Item	Specification		BS-2190A	BS-2190AF
Optical System	Infinite Optical System, Tube Length 180mm, Parfocal Distance 45mm		●	●
Viewing Head	45° inclined Seidentopf trinocular head, diopter adjustment on left eyepiece tube, inter-pupillary range: 50-76mm, eyepiece: trinocular=80:20,100:0, Eyepiece Tube Diameter 30mm		●	●
	45° inclined Seidentopf binocular head, diopter adjustment on left eyepiece tube, inter-pupillary range: 50-76mm, Eyepiece Tube Diameter 30mm		○	○
Eyepiece	High eye-point wide field plan eyepiece PL10×/22mm		●	●
	High eye-point wide field plan eyepiece PL10×/22mm with eyepiece micrometer		○	○
	High eye-point wide field plan eyepiece PL15×/16mm		○	○
Objective (Parfocal distance 45mm, RMS (20.32x 0.706mm))	Infinite LWD Plan Achromatic Objective	4× /0.13, WD=10.75mm	○	○
		10×/0.25, WD=7.45mm	○	○
		20×/0.40, WD=6.92mm	○	○
		40×/0.65, WD=2.74mm	○	○
		60×/0.70, WD=1.28mm	○	○
	Infinite LWD Plan Phase Contrast Achromatic Objective	PH4×/0.13, WD=10.75mm	●	○
		PH10×/0.25, WD=7.45mm	●	●
		PH20×/0.40, WD=6.92mm	●	○
		PH40×/0.65, WD=2.74mm	●	○
	Infinite LWD Plan Fluorescent Objective	Fluor 4×/0.13, WD=18.95mm	○	●
		Fluor 10×/0.30, WD=7.27mm	○	●
		Fluor 20×/0.45, WD=6.03mm	○	○
		Fluor 40×/0.65, WD=1.79mm	○	○
		Fluor 60×/0.75, WD=1.28mm	○	○
	Infinite LWD Semi-APO Plan Phase Contrast and Fluorescent Objective	FL PH20×/0.45, WD=6.12mm	○	●
		FL PH40×/0.65, WD=1.79mm	○	●
	Centering Objective	Fluorescent centering objective	○	●
Nosepiece	Inward Quintuple Nosepiece		●	●
	Inward Quadruple Nosepiece		○	○
Condenser	N.A. 0.3 LWD Condenser, Working Distance 72mm, detachable		●	●
Telescope	Centering Telescope(Φ30mm): used to adjust the center of phase annulus		●	●
Phase Annulus	4×, 10×-20×, 40× Phase Annulus Plate (center adjustable)		●	●
Stage	Stage 160 (X)×250(Y) mm fixed stage with glass insert plate (Φ110mm)		●	●
	Attachable Mechanical Stage, X-Y Coaxial Control, Moving Rang: 120(X)×80(Y) mm		○	●
	Extension stage, used to extend the stage		○	●

	Terasaki Holder: used for Φ35mm Petri Dish Holder and Φ65mm petri dishes (Φ65mm and 56×81.5mm)	○	●
	Glass Slide Holder and Petri Dish Holder (Φ54mm and 26.5×76.5mm)	○	●
	Petri Dish Holder Φ35mm	●	●
	Metal plate Φ12mm (water drop type)	○	○
	Metal plate Φ25mm (water drop type)	●	○
	Metal plate (kidney type)	○	●
Focusing	Coaxial Coarse and Fine Adjustment, tension adjustment knob, Fine Division 0.002mm, Fine stroke 0.2mm per rotation, Coarse stroke 37.5mm per rotation. Moving Range: 9mm, focal plane up 6.5mm, down 2.5mm	●	●
Transmitted Illumination	6V/30W long working life halogen lamp(Philips), Pre-centered, Brightness Adjustable	●	●
EPI-Fluorescent Attachment	EPI fluorescent attachment, 3-position for fluorescent filters, 1-position for bright field	○	●
	Lamp house for mercury lamp, center adjustable	○	●
	Power supply box for mercury lamp, input voltage 100-240V AC	○	●
	100W mercury (ORSAM)	○	●
	Eyes Protective Plate, used to prevent harm from fluorescent light	○	●
	B1 fluorescent filter (band-pass type)	○	●
	G1 fluorescent filter (band-pass type)	○	●
	UV1 fluorescent filter (band-pass type)	○	●
	V1 fluorescent filter (band-pass type)	○	○
Filters for Transmitted Illumination	Green filter (Φ45mm)	●	●
	Blue filter (Φ45mm), only used for halogen illumination	●	●
	IR filter (Φ45mm)	○	○
ND Filter	ND25 filter (25% light transmittance)	○	●
	ND50 filter (50% light transmittance)	○	○
C-mount Adapter	0.35× C-mount Adapter (focus adjustable, could not work with fluorescent microscope)	○	
	0.5× C-mount Adapter (focus adjustable)	○	○
	0.65× C-mount Adapter (focus adjustable)	○	○
	1× C-mount Adapter (focus adjustable)	○	○
Trinocular Tube	Trinocular Tube Φ23.2mm, used to connect camera	○	○
Other Accessories	Allen wrench, M3 and M4, 1pc each	●	●
	Fuse, T250V500mA	●	●
	Dust cover	●	●
Packing	1 cartons/set, Packing Size: 80cm×57cm×31cm, Gross Weight: 13kgs, Net Weight: 9kgs	●	
	1 cartons/set, Packing Size: 80cm×57cm×60cm, Gross Weight: 26kgs, Net Weight: 20kgs		●

Note: ● Standard Outfit, ○ Optional

Sample Images





47. BS-2190B Inverted Biological Microscope

BS-2190B

BS-2190BF

Introduction

BS-2190B series Inverted Biological Microscopes are specially designed for observation of cell tissues culture and can be used to observe cell growth processes, tissue contours and internal structures. Optional professional fluorescence attachment can be used to observe autofluorescence phenomena in cells, fluorescence transfection, protein transfer and other fluorescence phenomena of biological cells.

With innovative infinite optical system and ergonomic design, the microscopes have excellent optical performance and easy to operate features. The microscopes have smooth and comfortable operation, they could be used for medical and health units, universities, research institutes to observe cultured living cells and tissues.

Feature

1. Color corrected infinite optical system, excellent optical performance and great images.
2. Application of high-contrast and low chromatic phase contrast observation, access to detailed examination of internal structure of the cells.
3. Supply long working distance and high N.A. objectives to get the flat and clear images.
4. Koehler Illuminator.
   (1) With iris diaphragm, adjusted by rack and pinion, convenient to adjust and remove the condenser.
   (2) The condenser bracket can be rotated, facilitate the replacement of the dish, and suitable for a variety of sample containers.
   (3) With precise orientation and locking device.
5. Well-designed body structure, steady and reliable and better anti-vibration performance.
6. Low position coaxial coarse and fine adjustment, ergonomic design.
7. Professional vertical fluorescent technology, to get clear and bright fluorescent images.
8. Long working distance infinite plan achromatic objective, phase contrast objective and fluorescent objectives are available.

Long working distance infinite plan and phase contrast achromatic objective

Long working distance fluorescent infinite plan and semi-APO phase contrast objective

Application

BS-2190B series inverted microscopes can be 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.

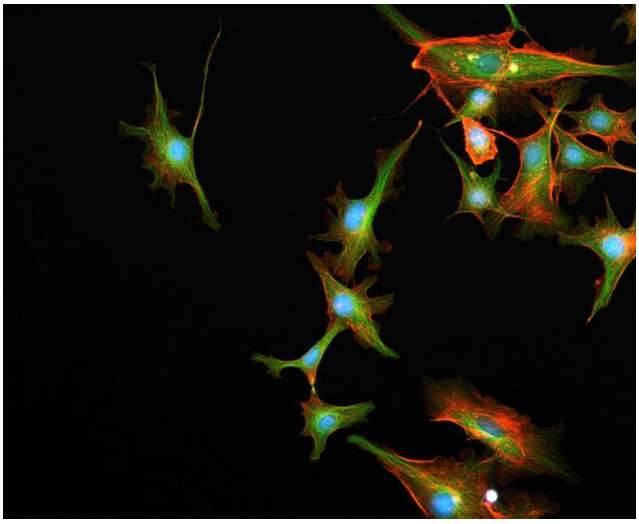
Specification

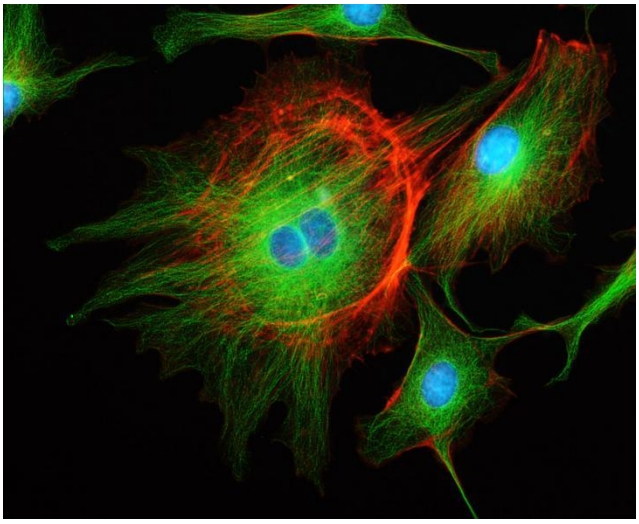
Item	Specification		BS-2190B	BS-2190BF
Optical System	Infinite Optical System, Tube Length 180mm, Parfocal Distance 45mm		●	●
Viewing Head	45° inclined Seidentopf trinocular head, diopter adjustment on left eyepiece tube, inter-pupillary range: 50-76mm, eyepiece: trinocular=80:20,100:0, Eyepiece Tube Diameter 30mm		●	●
	45° inclined Seidentopf binocular head, diopter adjustment on left eyepiece tube, inter-pupillary range: 50-76mm, Eyepiece Tube Diameter 30mm		○	○
Eyepiece	High eye-point wide field plan eyepiece PL10×/22mm		●	●
	High eye-point wide field plan eyepiece PL10×/22mm with eyepiece micrometer		○	○
	High eye-point wide field plan eyepiece PL15×/16mm		○	○
Objective (Parfocal distance 45mm, RMS (20.32x 0.706mm))	Infinite LWD Plan Achromatic Objective	4× /0.13, WD=10.75mm	○	○
		10×/0.25, WD=7.45mm	○	○
		20×/0.40, WD=6.92mm	○	○
		40×/0.65, WD=2.74mm	○	○
		60×/0.70, WD=1.28mm	○	○
	Infinite LWD Plan Phase Contrast Achromatic Objective	PH4×/0.13, WD=10.75mm	●	○
		PH10×/0.25, WD=7.45mm	●	●
		PH20×/0.40, WD=6.92mm	●	○
		PH40×/0.65, WD=2.74mm	●	○
	Infinite LWD Plan Fluorescent Objective	Fluor 4×/0.13, WD=18.95mm	○	●
		Fluor 10×/0.30, WD=7.27mm	○	●
		Fluor 20×/0.45, WD=6.03mm	○	○
		Fluor 40×/0.65, WD=1.79mm	○	○
		Fluor 60×/0.75, WD=1.28mm	○	○
	Infinite LWD Semi-APO Plan Phase Contrast and Fluorescent Objective	FL PH20×/0.45, WD=6.12mm	○	●
		FL PH40×/0.65, WD=1.79mm	○	●
	Centering Objective	Fluorescent centering objective	○	●
Nosepiece	Inward Quintuple Nosepiece		●	●
	Inward Quadruple Nosepiece		○	○
Condenser	N.A. 0.3 LWD Condenser, Working Distance 72mm, detachable		●	●
Telescope	Centering Telescope(Φ30mm): used to adjust the center of phase annulus		●	●
Phase Annulus	4×, 10×-20×, 40× Phase Annulus Plate (center adjustable)		●	●
Stage	Stage 160 (X)×250(Y) mm fixed stage with glass insert plate (Φ110mm)		●	●
	Attachable Mechanical Stage, X-Y Coaxial Control, Moving Rang: 120(X)×80(Y) mm		○	●
	Extension stage, used to extend the stage		○	●

	Terasaki Holder: used for Φ35mm Petri Dish Holder and Φ65mm petri dishes (Φ65mm and 56×81.5mm)	○	●
	Glass Slide Holder and Petri Dish Holder (Φ54mm and 26.5×76.5mm)	○	●
	Petri Dish Holder Φ35mm	●	●
	Metal plate Φ12mm (water drop type)	○	○
	Metal plate Φ25mm (water drop type)	●	○
	Metal plate (kidney type)	○	●
Focusing	Coaxial Coarse and Fine Adjustment, tension adjustment knob, Fine Division 0.002mm, Fine stroke 0.2mm per rotation, Coarse stroke 37.5mm per rotation. Moving Range: 9mm, focal plane up 6.5mm, down 2.5mm	●	●
Transmitted Illumination	Koehler illumination with 6V/30W long working life halogen lamp(Philips), The filament center and focal length are adjustable, Brightness Adjustable	●	●
EPI-Fluorescent Attachment	EPI fluorescent attachment, 3-position for fluorescent filters, 1-position for bright field	○	●
	Lamp house for mercury lamp, center adjustable	○	●
	Power supply box for mercury lamp, input voltage 100-240V AC	○	●
	100W mercury (ORSAM)	○	●
	Eyes Protective Plate, used to prevent harm from fluorescent light	○	●
	B1 fluorescent filter (band-pass type)	○	●
	G1 fluorescent filter (band-pass type)	○	●
	UV1 fluorescent filter (band-pass type)	○	●
	V1 fluorescent filter (band-pass type)	○	○
Filters for Transmitted Illumination	Green filter (Φ45mm)	●	●
	Blue filter (Φ45mm), only used for halogen illumination	●	●
	IR filter (Φ45mm)	○	○
ND Filter	ND25 filter (25% light transmittance)	○	●
	ND50 filter (50% light transmittance)	○	○
C-mount Adapter	0.35× C-mount Adapter (focus adjustable, could not work with fluorescent microscope)	○	
	0.5× C-mount Adapter (focus adjustable)	○	○
	0.65× C-mount Adapter (focus adjustable)	○	○
	1× C-mount Adapter (focus adjustable)	○	○
Trinocular Tube	Trinocular Tube Φ23.2mm, used to connect camera	○	○
Other Accessories	Allen wrench, M3 and M4, 1pc each	●	●
	Fuse, T250V500mA	●	●
	Dust cover	●	●
Packing	1 cartons/set, Packing Size: 80cm×57cm×31cm, Gross Weight: 13kgs, Net Weight: 9kgs	●	
	1 cartons/set, Packing Size: 80cm×57cm×60cm, Gross Weight: 26kgs, Net Weight: 20kgs		●

Note: ● Standard Outfit, ○ Optional

Sample Images





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.

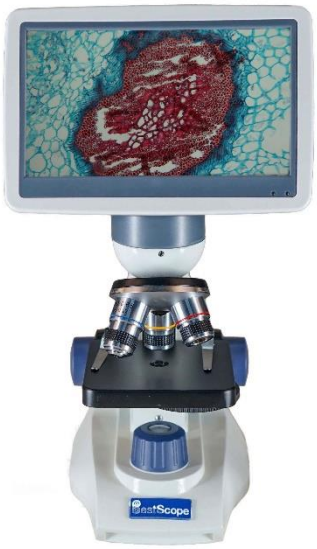
Specification

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, Interpupilary Distance 48-75mm	1PC	1PC	1PC
	Seidentopf Binocular Head, Inclined at 30°, 360° Rotatable, Interpupilary 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

BLM Series LCD Digital Video Microscope

1. BLM-205 LCD Digital Biological Microscope

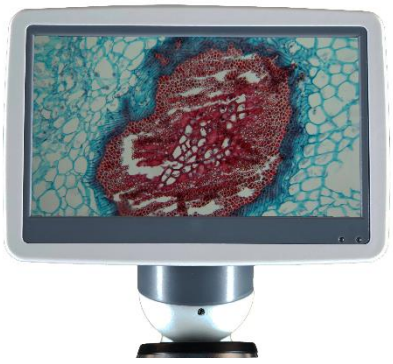


Introduction

BLM-205 LCD digital biological microscopes is based on BS-2005 series, the microscope has integrated an optical microscope, 7-inch LCD screen and 2.0MP digital camera for image and video capture and data transmission. With high quality optics, the microscope can ensure you get high definition images. It is perfect for individual or classroom application. An incident illumination is available for non-transparent specimens.

Features

1. 7-inch IPS LCD screen with wide visual angle, resolution 1024×600.
2. Built-in 2.0MP CMOS camera, output 1844×1080 Full HD Video.
3. 1* TF card slot, images and videos could be saved in TF card.
4. Battery compartment comes with the microscope, 3pcs AA battery can be used as the power supply, easy for outdoor work.



Applications

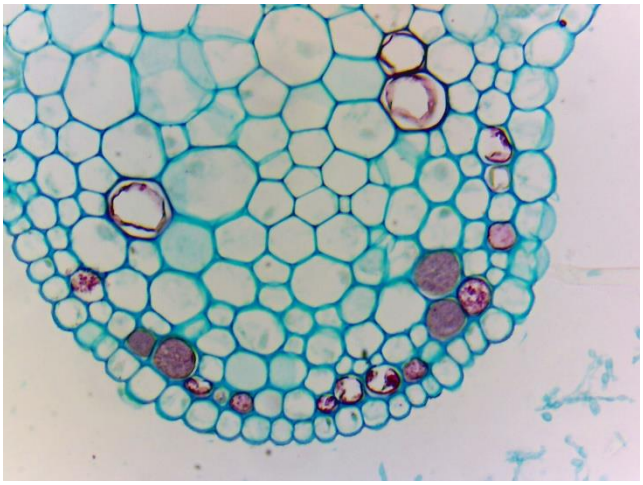
BLM-205 LCD digital biological microscope can be used for educational applications in elementary and middle schools. They also can be used as hobby for biological applications and small items identification.

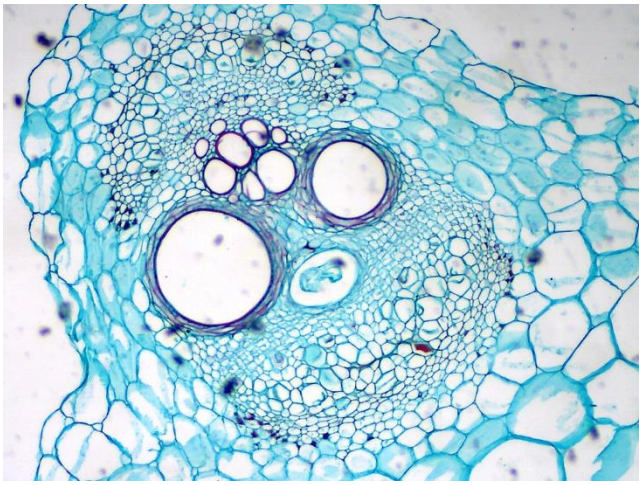
Specification

Item	Specification	BLM-205
Viewing Head	7-inch IPS LCD screen with wide visual angle, resolution 1024×600, Built-in 2.0MP CMOS camera, output 1844×1080 HD Video. 1* TF card slot.	●
Built-in Camera	Sensor: IMX307, 1/2.8” Color CMOS sensor	●
	Image resolution: 1844×1080 (2.0MP)	●
	Video resolution: 1844×1080	●
	Frame Rate: 30fps@1844*1080	●
	Pixel Size: 2.9×2.9μm	●
Nosepiece	Triple Nosepiece	●
Objective	Achromatic Objective 4×(185)	●
	Achromatic Objective 10×(185)	●
	Achromatic Objective 40×(185)	●
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	Transmitted LED Illumination, Brightness Adjustable; Top LED light	●
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 28×25×40 cm, 3kg	●

Note: ● Standard Outfit, ○ Optional

Sample Images





2. BLM-210 LCD Digital Biological Microscope

Introduction

BLM-210 LCD digital biological microscopes is based on BS-2010E, the microscope has integrated an optical microscope, 7-inch LCD screen and 2.0MP digital camera for image and video capture and data transmission. With high quality optics, the microscope can ensure you get high definition images. It is perfect for individual or classroom application. An incident illumination is available for non-transparent specimens.

Features

1. 7-inch IPS LCD screen with wide visual angle, resolution 1024×600.
2. Built-in 2.0MP CMOS camera, output 1844×1080 Full HD Video.
3. 1* TF card slot, images and videos could be saved in TF card.

Applications

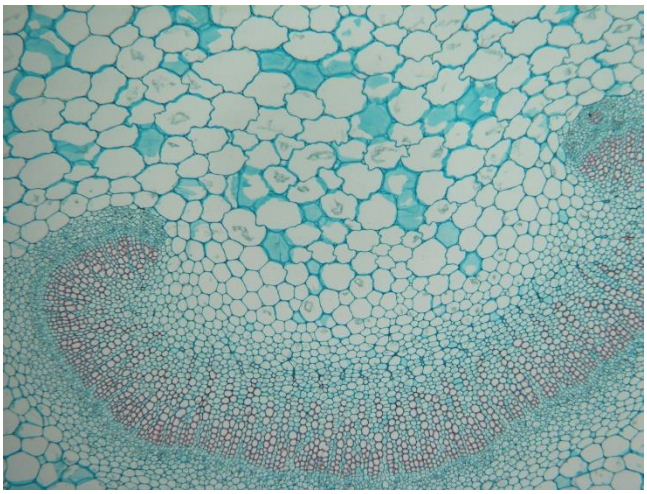
BLM-210 LCD digital biological microscope can be used for educational applications in elementary and middle schools. They also can be used as hobby for biological applications and small items identification.

Specification

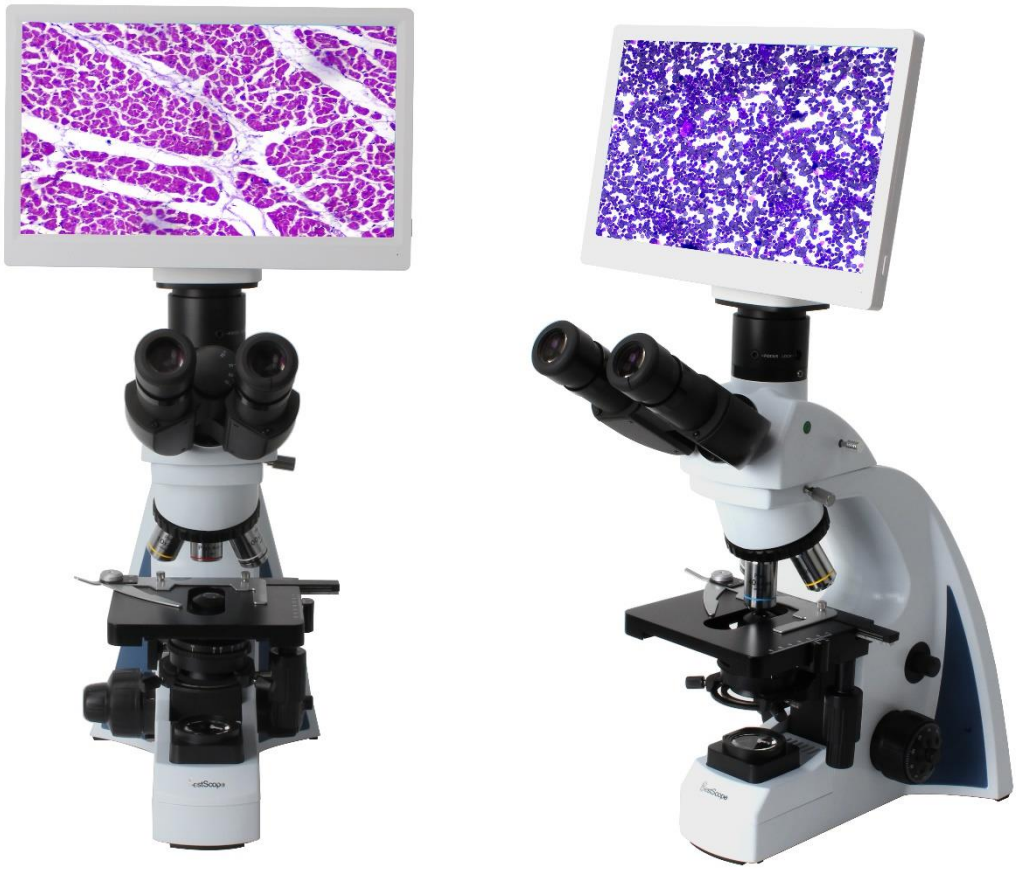
Item	Specification	BLM-210
Viewing Head	7-inch IPS LCD screen with wide visual angle, resolution 1024×600, Built-in 2.0MP CMOS camera, output 1844×1080 HD Video. 1* TF card slot.	●
Built-in Camera	Sensor: IMX307, 1/2.8” Color CMOS sensor	●
	Image resolution: 1844×1080 (2.0MP)	●
	Video resolution: 1844×1080	●
	Frame Rate: 30fps@1844*1080	●
	Pixel Size: 2.9×2.9μm	●
Nosepiece	Quadruple Nosepiece	●
Objective	Achromatic Objective 4×(195), 10×(195), 40×(195), 100×(195)	●
	Achromatic Objective 20×(195)	○
	Achromatic Objective 60×(195)	○
Stage	Double Layers Mechanical Stage 110×120mm/ 60×30mm	●
Focusing	Coaxial Coarse and Fine Adjustment, Moving Range 10mm, with stage height limiting screw	●
Condenser	Abbe NA 1.2 with Iris Diaphragm & Blue Filter, Rack and Pinion Adjustment for Condenser	●
Illumination	Transmitted LED Illumination, Brightness Adjustable	●
	Mirror	○
Spare Parts	Dust Cover	●
Power Supply	AC100-220V power adapter, microscope input voltage DC5V	●
Package	Styrofoam & Carton, Dimension 35×28×45 cm, 6kg	●

Note: ● Standard Outfit, ○ Optional

Sample Images



3. BLM2-241 LCD Digital Biological Microscope



Introduction

BLM2-241 digital LCD biological microscope has a built-in 6.0MP high sensitive camera and 11.6” 1080P full HD retina LCD screen. Both traditional eyepieces and an LCD screen can be used for convenient and comfortable viewing. The microscope makes the observation more comfortable and thoroughly resolves the fatigue caused by using a traditional microscope for a long time.

BLM2-241 not only feature HD LCD display to reverting genuine photo and video, but also feature quick and easy snapshots, short videos and measurement. It has integrated magnification, digital enlarge, imaging display, photo and video capture&storage on the SD card, it also can be connected to PC via USB2.0 cable and control by software.

Feature

1. Infinite optical system and high quality 10×/22mm eyepiece and infinite plan achromatic objectives.
2. 6.0 megapixel HDMI digital camera, images and videos can be easily stored on the SD card without computers, can improve the efficiency of research and analysis, the camera has measurement functions.
3. 11.6-inch HD digital LCD screen, high definition and high quality images, easy for people to share.
4. LED lighting system, long working life and save energy.
5. Two types of observation modes: binocular eyepiece and LCD screen, can meet different needs.

Application

BLM2-241 LCD digital microscope is an ideal instrument in biological, pathological, histological, hematological, bacterial, immune, pharmacological and genetic fields. It can be widely used in medical and sanitary establishments, such as hospitals, clinics, laboratories, medical academies, colleges, universities and related research centers.

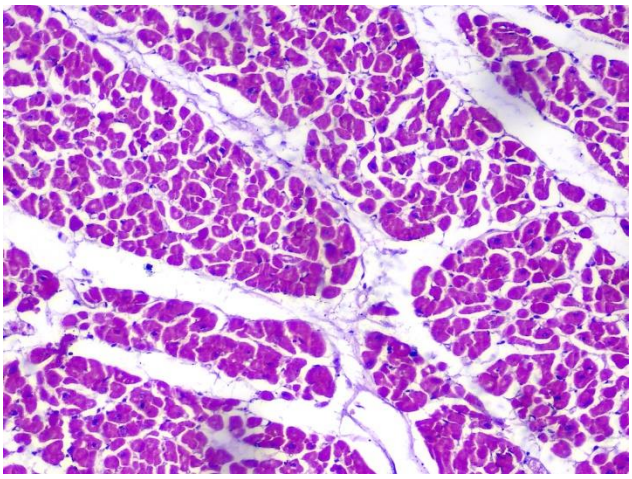
Specification

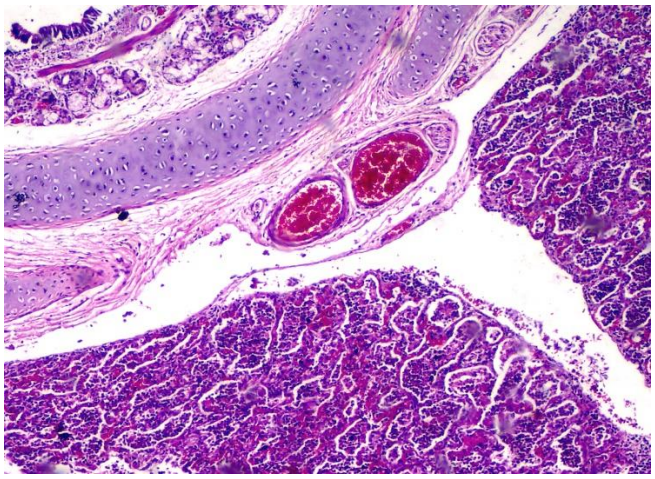
Item	Specification		BLM2-241
Digital Parts	Camera Model	BLC-600 Plus	●
	Sensor	Sony IMX307 CMOS Sensor	●
	Photo Resolution	6.0 Mega Pixel (3264 × 1840)	●
	Video Resolution	60fps@1920×1080	●
	Sensor Size	1/2.8 Inches	●
	Pixel Size	2.8um × 2.8um	●
	LCD Screen	11.6 Inches HD LCD Screen, Resolution is 1920 × 1080	●
	Data Output	USB2.0, HDMI	●
	Storage	SD Card (8G)	●
	Exposure time	0.001 sec ~ 10.0 sec	●
	Exposure Mode	Automatic & Manual	●
	White balance	Automatic	●
	Packing Dimension	305mm×205mm×120mm, 3kgs	●
Optical Parts	Viewing Head	Seidentopf trinocular head, 30° inclined, Interpupillary 48-75mm, Light distribution: 100: 0 and 50:50(eyepiece: trinocular tube), 30mm tube	●
	Eyepiece	Wide Field Eyepiece WF10×/22mm	●
		Wide Field Eyepiece WF15×/16mm, WF20×/12mm	○
		Eyepiece micrometer 0.1mm (only can be used with 10× eyepiece)	○
	Objective	Infinite Plan Achromatic Objectives 4×, 10×, 40×, 100×	●
		Infinite Plan Achromatic Objectives 2×, 20×, 60×	○
	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 System	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	○
		Kohler Illumination	○

	Other accessories	Simple Polarizing Set (Polarizer and Analyzer)	○
		Phase Contrast Kit BPHE-1 (Infinite Plan 10×, 20×, 40×, 100× phase contrast objective)	○
	Video Adapter	0.5× C-mount	●
	Packing	1pc/carton, 35cm*35.5cm*55.5cm, gross weight: 12kg	●

Note: ● Standard Outfit, ○ Optional

Sample Image





4. BLM2-274 LCD Digital Biological Microscope

Introduction

BLM2-274 LCD digital biological microscope is a research level microscope which has been specially designed for college education, medical and laboratory research. The microscope has a 6.0MP high sensitive camera and 11.6" 1080P full HD retina LCD screen. Both traditional eyepieces and an LCD screen can be used for convenient and comfortable viewing. The modular design allows for various viewing modes such as brightfield, darkfield, phase contrast, fluorescence and simple polarizing.

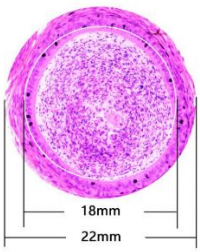
BLM2-274 can capture quick and easy snapshots, short videos and do measurement. It has integrated magnification, digital enlarge, imaging display, photo and video capture&storage on the SD card, it also can be connected to PC via USB2.0 cable and control by software.

Features

1. Excellent Optical Design.

(1) NIS60 infinite Optical System. NIS60 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.

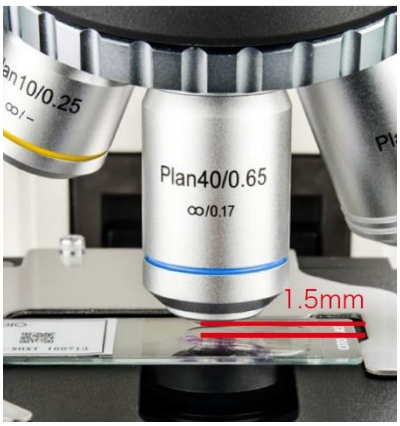
Observation Methods	Bright Field	Dark Field	Phase Contrast	Fluorescent	Simple Polarizing
	●	●	●	●	●

(4) Multifunctional Universal Condenser. BLM2-274 microscope has adopted 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 4×-100× 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 BLM2-274 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. External rechargeable battery can be used as the power source.

A 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 BLM2-274 LCD digital biological 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(on left of base) 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 in the front of the microscope base 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 BLM-274 LCD digital biological microscope is compact and can be placed in an ordinary classroom closet. It has a special carrying handle, 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. BLM2-274 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

BLM2-274 LCD Digital biological microscopes 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.

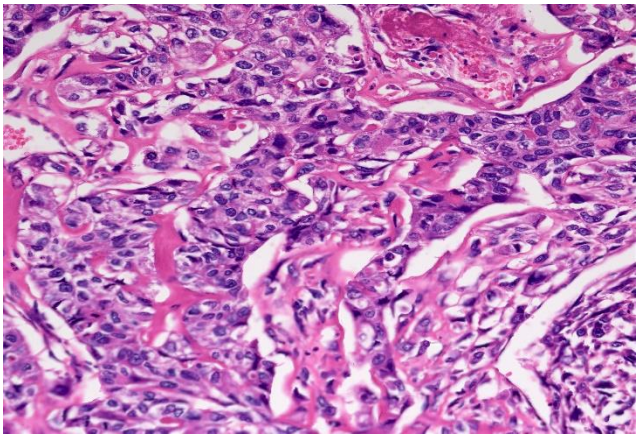
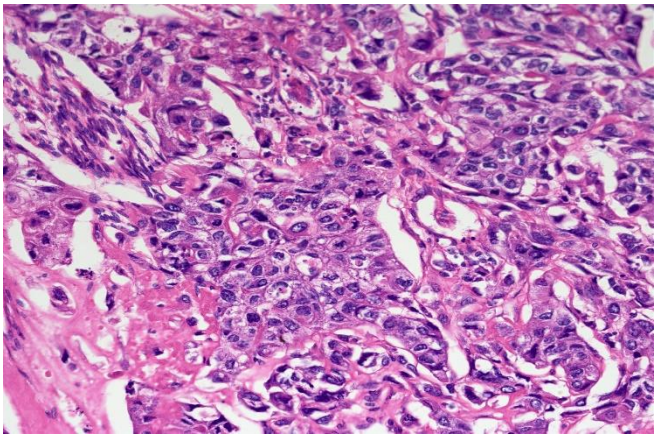
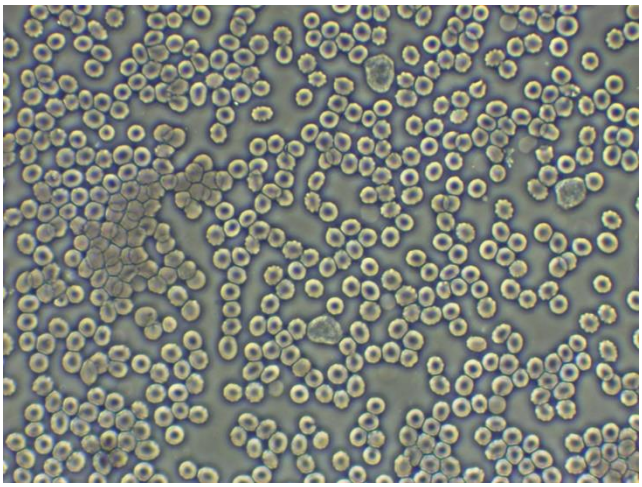
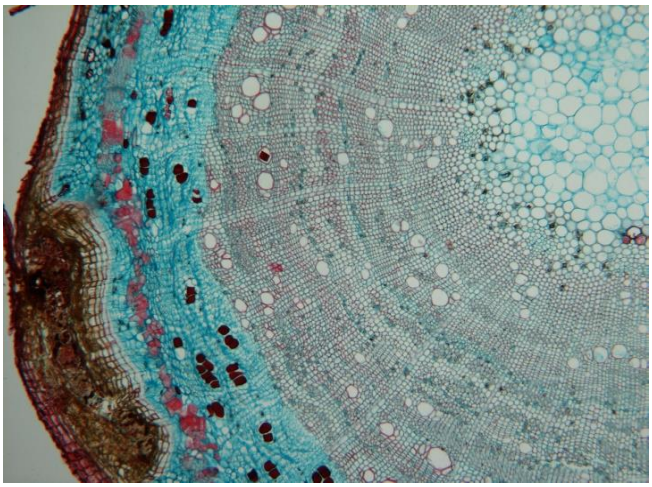
Specification

Item	Specification		BLM2-274
Digital Parts	Camera Model	BLC-600 Plus	●
	Sensor	Sony IMX307 CMOS Sensor	●
	Photo Resolution	6.0 Mega Pixel (3264 × 1840)	●
	Video Resolution	60fps@1920×1080	●
	Sensor Size	1/2.8 Inches	●
	Pixel Size	2.8um × 2.8um	●
	LCD Screen	11.6 Inches HD LCD Screen, Resolution is 1920 × 1080	●
	Data Output	USB2.0, HDMI	●
	Storage	SD Card (8G)	●
	Exposure time	0.001 sec ~ 10.0 sec	●
	Exposure Mode	Automatic & Manual	●
	White balance	Automatic	●
	Packing Dimension	305mm×205mm×120mm, 3kgs	●
Optical Parts	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 Trinocular Viewing Head, Inclined at 30°, 360° Rotatable, Interpupillary 47-78mm, Splitting ratio 5:5, 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 Coded 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	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	0.5× C-mount adapter	●
		Simple Polarization Set	○
		0.01mm stage micrometer	○
	Filter	Green	●
		Blue, Yellow, Red	○
	Packing	1pc/carton, Carton size: 48cm*33cm*60cm, Net/Gross Weight: 10.5kg/12.5kg	●

Note: ●Standard Outfit, ○Optional

Sample Image

BCM Live Cell Microscope Imaging System

Introduction

The BCM series is a fully automatic live cell imaging system, with phase contrast model BCM-1 and phase contrast & fluorescence model BCM-2. BCM is a revolutionary upgrade product for live cell imaging and analysis. It abandons the bulky housing and complicated operating steps of ordinary biological microscopes, allowing cell observation in one step. The built-in high-sensitivity camera has a time-lapse shooting function, which can fully record the cell culture process.

At the same time, the compact body of the BCM is convenient for cell observation anywhere, whether it is an experimental console, an ultra-clean workbench or a cell incubator.

Features

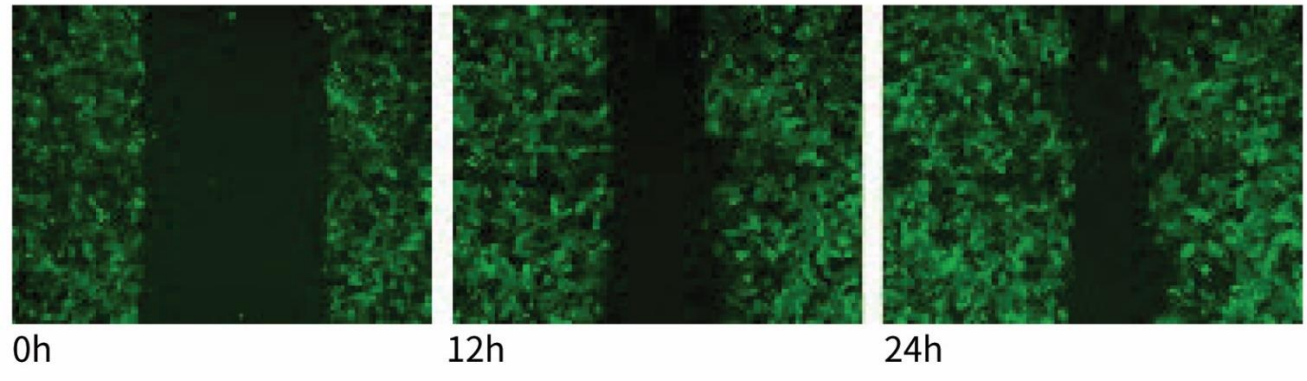
1. Small size, can be placed in a cell incubator.
2. Z-axis auto focus, electric focus adjustment, easy operation.
3. A 10X infinite plan semi-apochromatic phase contrast objective lens has been adopted, which can achieve high signal-to-noise ratio, high-resolution and high-contrast imaging effects in a variety of illumination modes.

4. It uses a 5.0MP high-sensitivity camera with functions of photographing, video recording and time-lapse shooting to record cell growth status in real time.
5. The built-in phase contrast observation module is specially designed for live cell observation, with high contrast of cell imaging.
6. The transmitted light uses a 627nm red LED light source, which is friendly to cells and avoids long-term exposure to damage to cells; epi-fluorescence uses Blue and Green LED fluorescence light source to meet different needs of fluorescence imaging.
7. Compatible with various culture flasks and petri dishes.
8. High humidity resistance, chemical corrosion resistance, UV resistance, long service life and easy maintenance.
9. It has good airtightness and miniaturization design, can be placed in various incubators, and can work normally in an environment with 95% humidity, 37°C temperature, certain CO2 concentration or H2O2 gas.

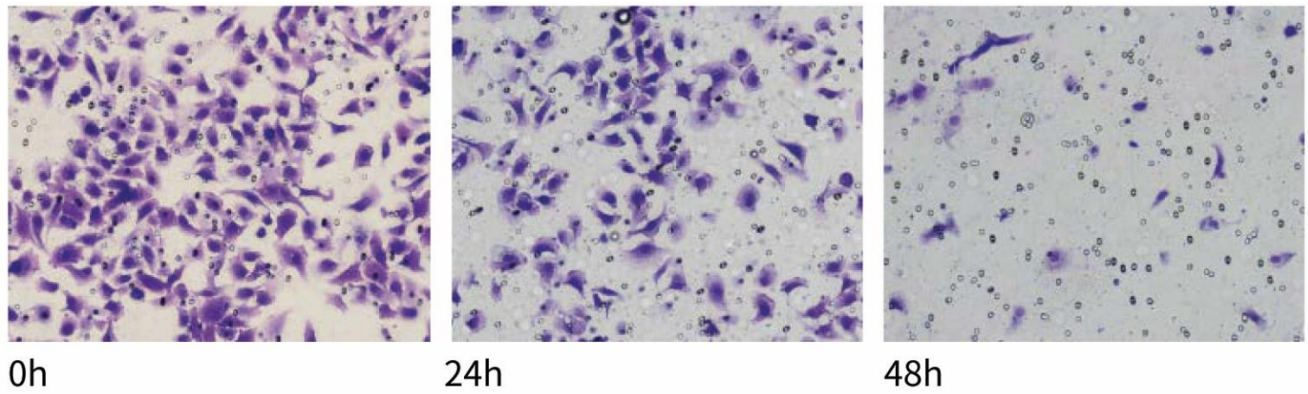
Application

This live cell imaging system is mainly used in the fields of stem cell culture, biopharmaceuticals, scientific research and other life sciences applications, providing monitoring and data recording for stem cell growth, cell resistance, drug screening, cell proliferation and migration.
The main application areas are as follows:
* Live cell imaging and cell growth monitoring;
* Optimization of cell analysis experiment conditions;
* Cell migration research;
* Cell quality control;
* Biopharmaceutical;
* Cell drug screening;
* Genetic analysis;
* Toxicological analysis.

Cell migration experiment:



Cell apoptosis test:



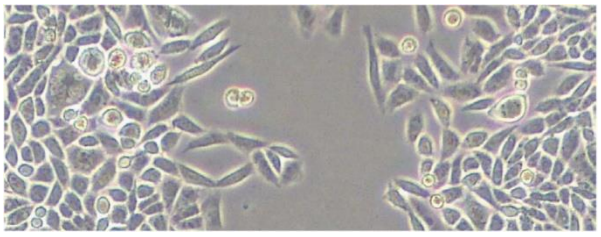
Specification

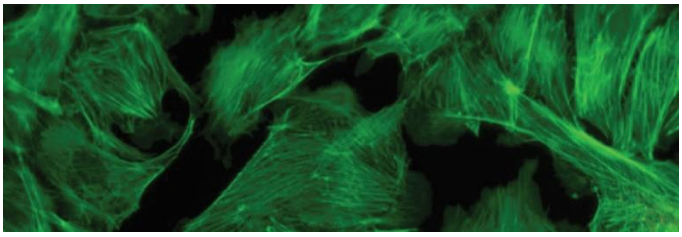
Item	Specification	BCM-1	BCM-2
Transmitted Illumination	3W 627nm Red LED lamp	●	●
Reflected Illumination	3W 525nm Green LED lamp, 3W 485nm Blue LED lamp	○	●
Brightness Adjustment	Electric control brightness adjustment	●	
	Electric control transmitted and reflected illumination switching, electric fluorescence module switching, electric brightness adjustment		●
Stage	Fixed stage, compatible with various culture flasks and petri dishes	●	●
Objective	10X Infinite Plan Semi-apochromatic phase contrast objective (10X, NA=0.30, WD=7.4mm, cover slip thickness: 1.2mm）	●	●
Focusing	Electric focus, auto focus; focus stroke: up 7mm, down 1.5mm; manual 2mm/ circle	●	●
Built-in Camera	5.0MP high sensitive CMOS mono USB3.0 digital camera (CMOS sensor, 2/3”, pixel size 3.45μm, resolution: 2448*2048, maximum frame rate: 35fps, interface: USB3.0)	●	●
Software	With basic functions such as photographing, video recording, and time-lapse photography	●	●
Size	220mmX264mmX240mm (WXDXH)	●	●
Tablet PC Rack	Tablet PC can be placed on top	●	●
Operation	Windows: Win7, Win8, Win10, 64 bit	●	●

System			
Software Language	Simplified Chinese, English	●	●

Note: ●Standard, ○ Optional

Sample Images





BCF295 Laser Scanning Confocal Microscopy

The confocal microscope can make a three-dimensional image of a translucent object through the moving lens system, and can accurately test the subcellular structure and dynamic process.

Specification

Item	Specification	BCF295
Optical system	NIS60 Infinite optical system(F200)	●
Laser	Laser 405 nm, 488 nm, 561 nm, 640 nm	●
Detector	Wavelength: 400-750nm, detector: 3 PMT (photomultiplier tube)	●
Scanning head	Maximum pixel size: 2048 x 2048 Scanning speed: 2 fps (512 x 512 pixels, bidirectional), 18 fps (512 x 32 pixels, bidirectional)	●
Pinhole	Round, 6 sizes	●
Confocal FOV	ϕ20mm inscribed square	●
Software	2D display/image processing/analysis	●
Eyepiece FOV	10×(25mm), EP17.5mm, adjustable diopter -5～+5, interface Φ30	●
Viewing Head	Siedentopf trinocular viewing head, inclined at 45°, Interpupillary 47-78mm, eyepiece interface Φ30, fixed diopter; Eyepiece/camera switching: (100/0, 50/50, 0/100); eyepiece/close eyepiece/adjustable Bertrand lens	●
NIS60 Objective	10× Apochromatic objectives, NA=0.45 WD=4.0 Cover slip=0.17	●
	20× Apochromatic objectives, NA=0.75 WD=1.1 Cover slip=0.17	●
	100× apochromatic objective lens, NA=1.45 WD=0.13 Cover glass=0.17 (Oil)	●
Nosepiece	Motorized sextuple nosepiece (with expansion slot), M25×0.75	●
Stage	Motorized control (conventional type): moving range 130 mm x 100 mm (stage size 325 mm x 144 mm), Maximum speed: 50mm/s; resolution: 0.1μm, repeat accuracy: ±1μm (common type 2.5um), absolute accuracy: ±5μmIt, can be equipped with three special sample holder adapters such as multi-well plate, 35mm culture dish and slide plate	●

Condenser	6-hole electric control: NA0.55, WD26; phase contrast (10/20, 40, 60(optional)), DIC (10X, 20X/40X), Empty hole is optional	●
Focusing system	Coaxial coarse and fine focusing mechanism, stroke: 7mm up and 2mm down; coarse adjustment 2mm/rotation, fine adjustment 0.002mm/rotation; manual and electric control, minimum step 0.02um when electric control	●
Illumination System	Transmitted Kohler illumination, 10W LED	●
	Epi-illumination: 100W mercury lamp illumination; field of view/aperture diaphragm; 3-hole color filter insert (with ND6 and ND25 filters) 6-hole electric fluorescent turntable (standard for B, G, U); electric fluorescent shutter	●
Body port	Split ratio: Left: eyepiece = 100:0; right: eyepiece = 80: 20	●
Intermediate magnification	Manual 1X, 1.5X switching	●
DIC Plate	10X, 20X, 40X plug-in plate; can be placed in the converter slot	○
Power control box	Can display objective magnification, fluorescence band, etc.	●
Power cable	1. Microscope shock-proof table: air cushion type confocal special ≥1200mm×800mm shock-proof table, the panel adopts high permeability stainless steel plate. 2. Computer workstation: a set of HP workstations or similar performance workstations. (1) HP Z840/CT Workstation/English OS Windows 7 64bit Professional Edition (2) CPU: Intel Xeon E5-26434C 3.30 10MB 1600 x 1 or similar performance (3) RAM: 32GB DDR -1600 ECC or similar performance (4) HDD: 1TB 7200 RPM SATA 1ST HDD or similar performance (5) 16X SuperMulti DVDRW SATA 1st ODD or similar performance (6) Display: 2PCS ≥20 inch LED backlit widescreen IPS LCD displays.	●

Note: ●Standard Outfit, ○Optional

Sample Images