

BS-2085F(LED) Motorized Automatic Biological Fluorescent Microscope



BS-2085F (LED)

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





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.

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3. Nosepiece Rotating Buttons.



(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.

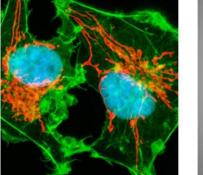
This microscope has the function of motorized rotating nosepiece with the 2 buttons.

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.





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.

Animal Fiber Cell

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.

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tem	Specification		BS-2085F	
Optical System	NIS60 Infinite Color Correct	٠		
Viewing Head	Seidentopf Trinocular Head, 30° inclined, interpupillary distance: 47mm-		•	
	78mm; splitting ratio Eyepi	78mm; splitting ratio Eyepiece:Trinocular=100:0 or 20:80 or 0:100		
	Ergo Tilting Trinocular Head	Ergo Tilting Trinocular Head, adjustable 0-35° inclined, interpupillary		
	distance 47mm-78mm; spli	distance 47mm-78mm; splitting ratio Eyepiece:Trinocular=100:0 or		
	20:80 or 0:100			
	Seidentopf Binocular Head, 30° inclined, interpupillary distance: 47mm-		0	
	78mm			
Eyepiece	Super wide field plan eyepiece SW10X/25mm, diopter adjustable		٠	
	Super wide field plan eyepiece SW10X/22mm, diopter adjustable		0	
	Extra wide field plan eyepiece EW12.5X/17.5mm, diopter adjustable		0	
	Wide field plan eyepiece WF15X/16mm, diopter adjustable		0	
	Wide field plan eyepiece WF20X/12mm, diopter adjustable		0	
Objective	N-PLN Plan Objective	N-PLN 2X/NA=0.06, WD=7.5mm	0	
		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	•	

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		N-PLN 100X(Oil)/NA=1.25, WD=0.2mm	٠
		N-PLN 50X(Oil)/NA=0.95, WD=0.19mm	0
		N-PLN 60X/NA=0.80, WD=0.3mm	0
		N-PLN-I 100X (Oil, with Iris Diaphragm)/	0
		NA=0.5-1.25, WD=0.2mm	
	N-PLN PH Plan Phase	N-PLN PH 10X/NA=0.25, WD=10.2mm	0
	Contrast Objective	N-PLN PH 20X/NA=0.40, WD=12mm	0
		N-PLN PH 40X/NA=0.65, WD=0.7mm	0
		N-PLN PH 100X(Oil)/NA=1.25,	0
		WD=0.2mm	
	N-PLFN Plan Semi-	N-PLFN 4X/NA=0.13, WD=17.2mm	0
	apochromatic Fluorescent	N-PLFN 10X/NA=0.30, WD=16.0mm	0
	Objective	N-PLFN 20X/NA=0.50, WD=2.1mm	0
		N-PLFN 40X/NA=0.75, WD=1.5mm	0
		N-PLFN 100X(Oil)/NA=1.4, WD=0.16mm	0
Nosepiece	Motorized Backward Sextuple	e Nosepiece (with DIC slot)	•
Condenser	Universal Condenser (4X-100	X)	•
	Turret Phase Contrast Condenser		0
	Dark-field Condenser (Dry), used for objectives lower than 100X		0
	Dark-field Condenser (Oil), used for 100X objective		0
Transmitted	3W S-LED lamp, center pre-set, intensity adjustable		•
Illumination	12V/100W halogen lamp, center pre-set, intensity adjustable		0
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		double layers mechanical stage, size 275 X	•
	239 X 44.5 mm; travel: X axis, 125mm; Y axis, 75mm. Repeat positioning		
DIC Kit	accuracy ±1.5µm, maximum	speed 20mm/s	0
DIC KIL		10X DIC Objective Lens	
	-	20X DIC Objective Lens	
	Polarizer for DIC Kit		0
	DIC insert plate(10X/20X), can be inserted into the DIC slot on nosepiece		0
	DIC insert plate(40X/100X) can be inserted into the DIC slot on		0
	nosepiece DIC Turret Condenser		0
Deflected Marsure		as position, with itis field displayers and	0
Reflected Mercury Fluorescence	Turret with 6 filter block cubes position, with iris field diaphragm and aperture diaphragm, central adjustable; with filter slot and polarizing		
Attachment	slot; with fluorescence filters (B,G fluorescent filters).		
Attachinent	siot, with hubiestence filters		

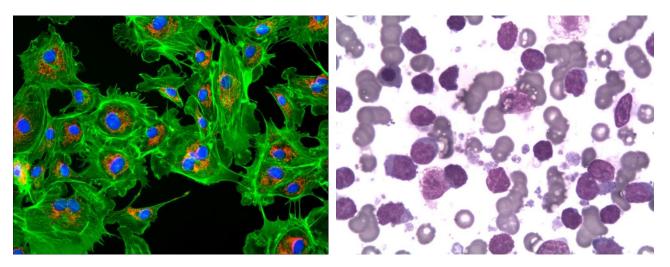
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	B1, U, V, R fluorescent filters	0
	100W mercury lamp house, filament center and focus adjustable; with	0
	reflected mirror, mirror center and focus adjustable	
	Digital power controller, wide voltage 100-240VAC	0
	ND6/ND25 Filter	0
Reflected LED	Fluorescent epi-illuminator, compound eye illumination, with UV eye	
Fluorescence	protection plate	
Attachment	Turret with 6 filter block cubes position, up to 4 fluorescent filters can	0
	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	0
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,	0
	35fps@2448×2048)	
	1X C-mount Adapter	0
	0.7X C-mount Adapter	0
	Dust Cover	•
	Power Cord	•
	Cedar Oil 5ml	•
	Simple Polarizing kit	0
	Turret Phase Contrast attachment(condenser, objectives, telescope)	0
	Calibration slide 0.01mm	0

Note: • Standard Outfit, • Optional

Sample Image





Accessories

1. N-PLN Series Plan Objectives.

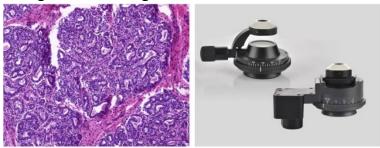


2. N-PLN PH Series Plan Phase Contrast Objectives.

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



4. Bright field Viewing.



Mammary Gland (active stage)

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 signalto-noise, high resolution and high contrast features.

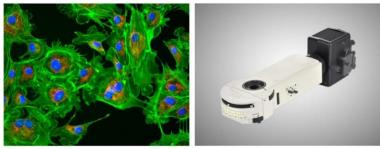
These plan phase contrast objectives are specially designed for phase contrast observation. They are good choice for clinic and scientific research. These objectives can provide advanced flat image of 25mm FOV under transmitted bright field.

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.

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

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5. Fluorescent Viewing.



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

Arterial Cell

6. Phase Contrast Viewing.



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

Rat Ovarian Cell

7. Polarizing Viewing.



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

Uric Acid Crystal

8. Dark-field Viewing.



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

Spirogyra



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	Optional Excitation and Barrier Filters is D25mm, Dichroic Mirror is		
	without filters	5.8X37.5/1mm, the filters can be installed in the block.		