



#### BS-2044F(LED) LED Fluorescent Biological Microscope

BS-2044FB(LED)

BS-2044FT(LED)

#### Introduction

BS-2044F(LED) series LED fluorescent microscopes are high quality biological microscopes, which are specially designed for biological and medical research and teaching experiments for colleges, universities, laboratories and related institutes. With infinity color correction optical system and excellent Koehler illumination system, BS-2044F(LED) can get uniform illumination, clear and bright images at any magnification. These microscopes can be used for teaching experiments, pathological examinations and clinical diagnosis. With outstanding functions, excellent cost performance, easy and comfortable operation, BS-2044F(LED) series microscopes present over expected and splendid micro images. BS-2044F(LED) with B4 LED fluorescence module can be used for diagnosis of tuberculosis (TB).

#### Feature

1. Infinite Color Corrected Optical System provides sharp and comfortable images.

2. Wide-field high eye-point eyepieces and plan achromatic objectives and semi-APO fluorescent objectives make the effect of fluorescence observation more perfect.

3. Outstanding appearance design and ergonomics structure design, long time use without feeling tired.

4. With the design of security lock and safe limits, it is much more secure, stable and can be kept for long.

5. Various microscopic examinations can be fulfilled, such as brightfield, dark-field, phase contrast, fluorescence, simple polarizing and so on.

6. LED fluorescence excitation illumination, breaking through the traditional type, is more stable, low radiation and long working life. Special fluorescent filter(B4) for tuberculosis examination is available. Except for TB test module B4, you could select B1, G1, UV2 fluorescence modules according to different applications. You can also choose several modules and replace them when you need.

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#### B2: EGFP/GFP/FITC /Alexa Fluor@488 Cy2@/DIO/Fluo-4



#### UV1: DAPI/Hoechst 33342/33258 AMCA/ AMCA-X Blue/ Alexa Fluor® 350





#### B4: Auramine O/wtGFP







7. The Single-band LED fluorescent attachment have light intensity control function, with 6V/2A DC power supply, external transformer, easy connection and safe use. There is a switch and easy to change from fluorescent observation to bright field observation with transmitted illumination.

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8. Semi-APO fluorescent objectives are optional. These objectives have large numerical aperture, provide highresolution, high contrast microscopic images. We also can provide objectives without cover slip corrections, which is used to observe smear slides.



Infinite Plan Semi-APO fluorescent objectives without cover slip corrections



Infinite Plan Semi-APO fluorescent objectives with 0.17mm cover slip corrections

#### Application

BS-2044F(LED) series biological microscopes are ideal instruments for biological, pathological, histological, bacterial, immune, pharmacological and genetic fields. They can be widely used in education, medical and sanitary

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establishments, such as schools, hospitals, clinics, laboratories, medical academies, colleges, universities and related teaching labs and research centers.

#### Specification

Item			BS-2044FB	BS-2044FT
	Specifi	Specification		(LED)
Optical System	Infinite Color Corrected Optical System,	parfocal distance 45mm	•	•
	Seidentopf binocular head, 30° inclined, Interpupillary 50-75mm, 360°			•
Viewing Head	rotatable, eyepiece tube: Φ30mm		•	0
	Seidentopf trinocular head, 30° inclined, Interpupillary 50-75mm, 360°			
	rotatable, Fixed light splitting ratio: Eyepiece:Trinocular=8:2, eyepiece tube:		0	0
	Ф30mm			
	Seidentopf trinocular head(dedicated for fluorescence), 30° inclined,			
	Interpupillary 50-75mm, 360° rotatable, Fixed light splitting ratio:		0	•
	Eyepiece:Trinocular=5:5, eyepiece tube: Φ30mm			
	High eyepoint wide field plan eyepiece PL 10×/22mm with adjustable diopter ±5			
Eyepiece			•	•
	High eyepoint wide field plan eyepiece PL 10×/22mm with adjustable diopter ±5, with eyepiece micrometer		0	o
	Eyepiece micrometer		0	0
		4×, NA=0.10, WD=11.9mm	•	•
	Infinite Plan Achromatic Objectives	10×, NA=0.25, WD=12.1mm	•	٠
		20×, NA=0.45, WD=1.5mm	0	0
		40×(S), NA=0.65, WD=0.36mm	•	٠
		60×(S), NA=0.85, WD=0.3mm	0	0
		100×(S, Oil), NA=1.25, WD=0.18mm	•	٠
	Infinite Plan Phase Contrast Objective	10×, NA=0.25, WD=12.1mm	0	0
Objective		20×, NA=0.45, WD=1.5mm	0	0
		40×(S), NA=0.65, WD=0.36mm	0	0
		100×(S, Oil), NA=1.25, WD=0.18mm	0	0
	Infinite Plan Semi-Apochromatic Fluorescence Objectives	4×, NA=0.13, WD=18.5mm	0	0
		10×, NA=0.30, WD=10.6mm	0	0
		20×, NA=0.50, WD=2.33mm	0	0
		40×(S), NA=0.75, WD=0.6mm	0	0
		100×(S, Oil), NA=1.28, WD=0.21mm	0	0
	Reversed Quadruple Nosepiece		•	•
Nosepiece	Reversed Quintuple Nosepiece		0	0
Stage	Double Layers Mechanical Stage 150mm×140mm, moving range		•	•
	76mm×50mm, double slide holder, accuracy: 0.1mm			
	Rackless Double Layers Mechanical Stage 150mm×162mm, moving range		1	
	76mm×50mm, double slide holder, accuracy: 0.1mm, Wear-resistant and anti-		0	o
	corrosion treatment on the stage surface			

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Condenser	N.A.1.25 Koehler illumination condenser (with plug-in phase contrast and dark field plate slot), condenser preset center and height adjustable	•	•
Focusing	Low position coaxial focusing system, moving range 30mm, with upper limit and tightness adjustment, fine division 0.002mm	•	•
Transmitted	Adaptive 100V-240V, AC50/60Hz wide range voltage, single high brightness 3W		<u> </u>
Illumination	LED (preset center), light intensity can be continuously adjusted	•	•
Mercury Reflected	Mercury reflected fluorescent illuminator, 100W mercury lamp house, 100W		
Illumination	DC mercury bulb (OSRAM/ Chinese brand), with B1, G1 fluorescent filters	0 0	
	B1 band-pass type fluorescence module, with intensity adjusting knob, and		
	switch knob for bright field and fluorescence, central wavelength:470mm	•	•
	G1 band-pass type LED fluorescence module, with intensity adjusting knob,		
LED Fluorescent	and switch knob for bright field and fluorescence, central wavelength: 560mm	0	
	B4 LED fluorescence module dedicated for TB, with intensity adjusting knob,		0
Reflected	and switch knob for bright field and fluorescence, central wavelength: 455mm	0	
Illumination	UV2 ultraviolet long-pass type LED module, with intensity adjusting knob, and		0
	switch knob for bright field and fluorescence, central wavelength: 365mm	0	
	Other various LED module for option, which can be custom-tailor according to		0
	the needs of clinical diagnosis.	0	
	Blue filter Ø45mm	0	0
	Green filter Ø45mm	0	0
Filters	Yellow filter Φ45mm	0	0
	Neutral filter Ø45mm	0	0
	Polarizer	0	0
Polarizing Kit	Analyzer	0	0
Dark Field Plate	Dark field insert plate (used for 4×-40× objectives)	0	0
Centering		Ŭ	0
Telescope	Centering Telescope $\Phi$ 23.2mm (used with phase contrast plate and objective)	0	0
	10×, 40× Phase Contact Insert Plate (used for 10×, 40× phase contrast		0
Phase Contact	objectives)	0	
Plate	20×, 100× Phase Contact Insert Plate (used for 20×, 100× phase contrast	0	0
	objectives)		
	0.35× C-mount adapter, adjustable	0	0
C-mount Adapter	0.5× C-mount adapter, adjustable	0	0
	1× C-mount adapter, adjustable	0	0
	Trinocular tube for digital eyepiece (Φ23.2mm)	0	0
Docking	2 cartons/set, 58x56x28cm, GW: 10kgs, NW: 8kgs; 51x31x49cm, GW: 11kgs,		
Packing	NW: 9kgs	•	•
		•	

Note: • Standard Outfit, • Optional



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## Sample Images



## Dimension



Unit:mm