

## MF31 series Fluorescence Microscope



Single color Two/Three colors

MF31 series fluorescence microscope adopting excellent quality infinity optical system combined with LED fluorescence illuminator. The LED fluorescence system is modular design, does not need external power box, it can offer blue, green and UV fluorescence excitation groups. The microscope is good for entry level fluorescence observation such as immunofluorescence and bio-fluorescence, and bright field of biological slide. It is easy to operate, environment protect and high safety, widely used at school, university lab, medical center and science research institute.

### Features

- Microscope works for bright field and fluorescence
- 100% light division for view in eyepiece and camera imaging.
- Eyeiece has 22mm wide field of view and high eyepoint.
- Excitation wavelength covers 330nm~580nm.
- Configuration is available of three different fluorescence channels.
- Each group of fluorescence cube is lighted by 3W LED lamp.
- Slide holder can hold double pieces slides at one time.
- Instant ON/OFF without preheating or cooling.
- No requirement of external power box or lamp box.
- Flexible expanding functions to polarization, white LED epi-illuminating and heating.

### Applications

- Botany
- Education
- Clinical
- Immunofluorescence
- Tuberculosis sputum slide quick diagnose
- Skin and foot fungus diagnose
- Respiratory disease diagnose
- GFP, FITC, TRITC, DAPI and common fluorophores
- Water quality detection
- Food safety control
- Coating material analysis



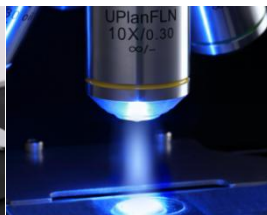
High quality objectives



White cold LED light



Big slider holder



Epi-LED fluorescence



Light barrier protect eyes

Items	Specification
Optical system	Infinite achromat optical system
Observation tube	Trinocular tube, (0-20/80-100) 30°inclined, pupil distance 55~75mm
Eyepiece	WF10X/FN22mm
Fluorescence illumination system	LED fluorescence module with light barrier
	3W LED lamp for each excitation group
	Blue: EF450nm-490nm, EM>520nm
	Green: EF510nm~550nm, EM>590nm
Optional excitation groups	RB- Royal blue: EX420~480nm
	Y-Yellow: EX540nm~580nm
	U-Ultraviolet: EX330nm~380nm
Nosepiece	Backward quadruple nosepiece
Infinity plan achromat objectives	4X/0.1 W.D.=21.5mm
	10X/0.25 W.D.=7.5mm
	40X/0.65 W.D.=0.65mm
	100X/1.25 W.D.=0.185mm
Optional objectives	Plan 20X/non-cover glass 20X/ non-cover glass 40X
Mechanical stage	Double layer mechanical movable stage, size 210x140mm, travel motion76x50mm
Focusing system	Fine and coarse adjustment with tension and limited stopper, 2μm scale, coarse stroke per rotation 40mm, fine stroke per rotation 2μm, focusing vertical movement 24mm
Abbe Condenser	NA.1.25, Built-in aperture diaphragm
Transmission Illumination system	5W white LED , brightness adjustable
Camera interface	0.5X C-mount
	Optional adapters
Operating environment	Temperature: 5~40℃(41~104°F), Max. Relative humidity 80%, 31℃
Power Source	AC, 100-240V, 50~60Hz for microscope body
	12V 2A for fluorescence module
Fuse	φ5, F0.5AL250V
Accessories	MSHOT dust cover, allen driver, light barrier plate