
MF-LED Single Channel LED Fluorescence module



With the help of LED fluorescence module, an ordinary microscope with infinity optical system can be easily transformed into a modular, energy-efficient, easy-to-operate and ultra-long-life fluorescence microscope, thus achieving efficient fluorescence observation without the need to purchase expensive LED fluorescence microscopes. It provides a new solution for laboratory fluorescence observation.

It can be equipped with blue, green, yellow, royal blue, ultraviolet and other excitation light groups as standard to be used for fluorescence detection in the fields of respiratory diseases, reproductive tract diseases, tuberculosis, autoimmune diseases, etc. By pushing and pulling the slider, users can switch between bright field and fluorescence observation method. The module can match the upright biological microscopes of infinity optical systems of major brands like Olympus, Nikon, Leica, Zeiss, and others.

Features

- ✓ Compact design contains light source and filters in one unit.
- ✓ Instant on-off, no need waiting of pre-heating or cooling.
- ✓ Light source synchronous switching with filter groups via slider / lever.
- ✓ No requirement of external or added power supply.
- ✓ LED has a long service life and low labor maintenance cost.
- ✓ The original transmitted light of the microscope is retained.
- ✓ CE,FCC,EMC,EU and ISO certified.

Light barrier protects eyes



Classic LED fluorescence microscope applications:

- Botany, Fluorochrome stained slide, Autofluorescence
- Clinical diagnose : Immunofluorescence , Tuberculosis sputum slide, Skin and foot fungus, Respiratory disease, Sperm analysis
- Electrophysiology, Neuroscience
- Food microorganism

Routine compatible microscopes

Olympus CX, BX
 Nikon Eclips, E100/E200, Ci-L/Ni/Si
 Leica DM500/DM750, DM1000/2000/2500
 Zeiss PrimoStar /PS1/PS3, Axiolab A1
 Sunny EX30, CX40, EX33
 Nexcope NE300/600/700/900
 Motic BA310, Panthera C

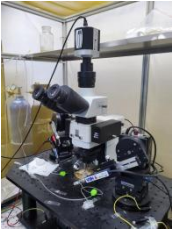
Item No.	LED lamps	Filter Groups
MF-B-LED	Blue	Blue
MF-B2-LED	Royal blue	Royal blue
MF-Y-LED	Yellow	Yellow
MF-G-LED	Green	Green
MF-U-LED	UV	UV

Model	Filter	Filter wavelength			Recommend Application
		Excitation	Dichroic mirror	Emission	
B	Blue	475/30nm	>505nm	510nmLP	GFP / FITC /EGFP/ Malaria diagnostic/ Alexa 488 / Cy2@ / Fluo-4 / FluorX@ / Fluoro-Jade
B2	Royal blue	420-480nm	>500nm	510nmLP	Tuberculosis Diagnostic
G	Green	530/40nm	>570nm	575nmLP	PI / EB / EH /TRITC
Y	Yellow	560/40nm	>600nm	610nmLP	mCherry / Texas Red / AlexaFluor 594
U	UV	355/50nm	>410nm	420nmLP	DAPI / Hoechst 33342&33258 / AMCA/AMCA-X / Alexa 350
Light source		Blue &UV: 3W LED cold lamp for each filter group Green/Yellow: 5W LED cold lamp for each filter group			
Observation		Fluorescence Bright field & phase contrast by microscope original lighting			
Operation		Lever : B, G/Y, UV/O (bright field)			
Power control		Rota-table knob, continuously adjustable brightness			
Input power		12V 2A			
Shell		High rigid precision-cast aluminium with coating			
Light baffle		Orange color plastic light baffle			

Optional LED lamp and Filters

LED	Filter type	Excitation filter	Dichroic mirror	Emission filter	Remark
Blue	Band-pass	475/30nm	>505nm	530/40nm	Chroma filters are optional
Green	Band-pass	530/40nm	>565nm	605/55nm	
UV	Band-pass	375/30nm	>415nm	460/50nm	
Violet	Long-pass	400/40nm	>430nm	460nmLP	
Red	Band-pass	620/50nm	>655nm	690/45nm	

Installation Cases



Olympus BX51-wi



Olympus BX43



Olympus CX41



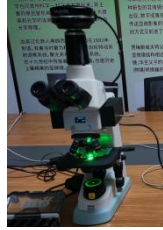
Olympus CX33



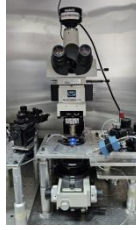
Olympus CX23



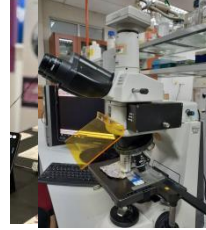
Nikon Ci



Nikon E200



Nikon FN1



Nikon Si

Nikon 50i



Leica DM1000



Leica DM2000



Leica DM750



Leica DM500



Zeiss A1



PrimoStar



PrimoStar 1



PrimoStar 3



Motic Panthera C



Sunny EX30



Nexcope NE700

Sample images

