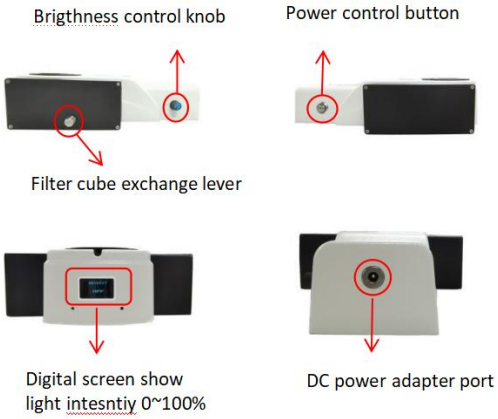
MF-LED Multi-Channels LED Fluorescence Module

The upright digital fluorescence module can match the upright biological microscopes of infinity optical systems of major brands, so that ordinary microscopes can realize fluorescence function without changing the original optical path of the microscope, and can easily realize fluorescence observation function for ordinary microscopes. The three-color three-channel design can meet the observation needs of three-color fluorescence, and can be equipped with relevant bands including V/B/G/Y/R, and equipped with a digital display screen design to meet the requirements of quantitative experiments, making the brightness adjustment more controllable. In addition, the light field of view has been expanded, and it is more compatible with microscopes than before.

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 between different 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 digital display shows the brightness of different channels, enabling quantitative analysis.
- ✓ Brightness memory function enables seamless switching between different bands.
- ✓ The original transmitted light of the microscope is retained.
- ✓ CE,FCC,EMC,EU and ISO certified.



Classic LED fluorescence microscope applications:

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

Item No.	LED lamps	Filter Groups
MF-BY-LED	Blue and Yellow	Blue and Yellow
MF-BG-LED	Blue and Green	Blue and Green
MF-BU-LED	Blue and UV	Blue and UV
MF-BYU-LED	Blue, yellow and UV	Blue, Yellow and UV
MF-BGU-LED	Blue, green and UV	Blue, green and UV

Routine compatible microscopes

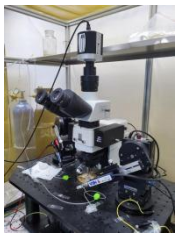
Olympus CX, BX
Nikon Eclips, E100/E200, Ci-L/Ni/Si
Leica DM500/DM750, DM1000/2000/2500
Zeiss PrimoStar /PS1/PS3, Axiolab A1
Sunny EX30, CX40, EX33
Nexcope NE300/600/700/900
Motic BA310, Panthera C

*** Four channels model**
MF-UBGR / MF-UBYR can be customized

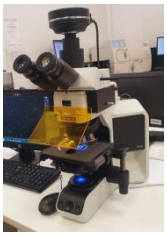
Specification sheet

Model	Filter	Filter wavelength			Recommend Application
		Excitation	Dichroic mirror	Emission	
B	Blue	475/30nm	>505nm	530/40nm	GFP / FITC /EGFP/ Malaria diagnostic/ Alexa 488 / Cy2@ / Fluo-4 / FluorX@ / Fluoro-Jade
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
G	Green	530/40nm	>570nm	575nmLP	PI / EB / EH /TRITC
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			
Digital screen		Show light intensity 0~100% and remember each color light source brightness			
Operation		Lever : B, G, 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	Long-pass	475/30nm	>500nm	510nmLP	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	
Royal blue	Long-pass	420-480nm	>500nm	510nmLP	
Red	Band-pass	620/50nm	>655nm	692/45nm	

Installation Cases



Olympus BX51-wi



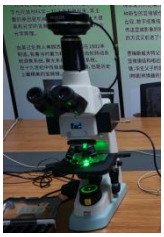
Olympus BX43

Olympus CX41

Olympus CX33

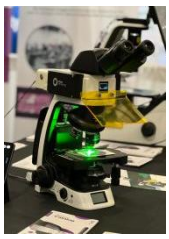
Olympus CX23

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