

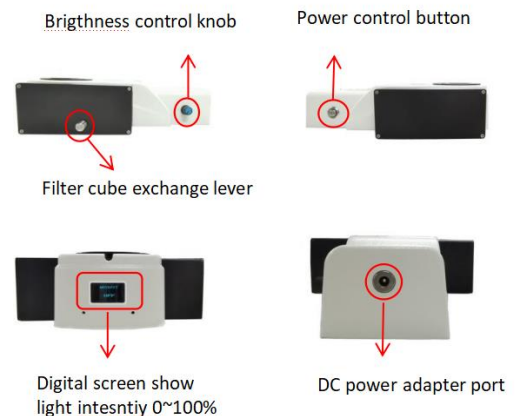
MF-LED Multi-Channels LED Fluorescence Module



The upright digital fluorescence module works with many upright microscopes that use infinity corrected optics from most of the major brands. Add capability to existing systems without the expense of a whole new dedicated fluorescence microscope. These systems are compact and complete just insert between the binocular tube and body and away you go. The System comes as a one, two, or three-color unit for the most common fluorescent applications. Now available with most common excitation bands including UV/B/RB/G/Y and equipped with a digital display screen of rintensity control. The module can match the upright biological microscopes of infinity optical systems of major brands like Olympus, Nikon, Leica, Zeiss, and others. Please contact AIC to confirm compatibility with your system.

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
- Immunofluorescence, 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
Motic BA310, Panthera C

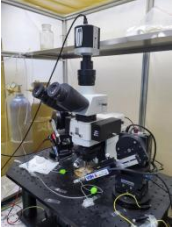
* Four channels model optional

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 aluminum 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



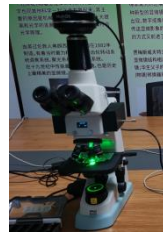
Olympus CX33



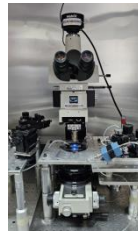
Olympus CX23



Nikon Ci



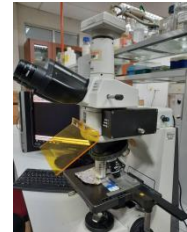
Nikon E200



Nikon FN1



Nikon Si



Nikon 50i



Leica DM1000



Leica DM2000



Leica DM750



Leica DM500



Zeiss A1



PrimoStar



PrimoStar 1



PrimoStar 3

Sample images

