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MIF-LED Fluorescence Module

The inverted digital display fluorescence module is designed to upgrade inverted biological microscope to fluorescence function. It takes three-color four-channel structure design, with three large-viewing field fluorescence channels and one bright field channel as standard. The band switching is stable and smooth. Users can freely choose the fluorescence band and quantity according to their needs. Based on the design concept of simple appearance and easy operation, it adopts LED cold light source, integrating the driving power supply, LED excitation light source and fluorescence filter group.

Features

- ✓ Compact design contains light source and filters in one unit.
- ✓ Instant on-off, no need waiting of pre-heating or cooling.
- ✓ Freely select fluorescence bands and quantities according to needs.
- ✓ Fluorescence channel and brightness display function, display working status.
- ✓ Brightness memory function, can remember the last used brightness.
- ✓ Digital screen shows light intensity 0~100%
- ✓ Light source synchronous switching with filter groups.
- ✓ No requirement of external or added power supply.
- ✓ CE, FCC, EMC, EU, ISO certified.

Olympus CX41

Olympus CKX53

*** Olympus IX50/70, IX51/71, IX53/73 can be customized**

Applications

- Live cells culture
- Chromosome analysis in cytogenetics
- Histochemistry in neural tissue and localization of proteins and nucleic acids
- Location and quantification of certain substances in tissues and cells
- Can measure the content of some components such as protein, DNA, RNA, etc. in cells

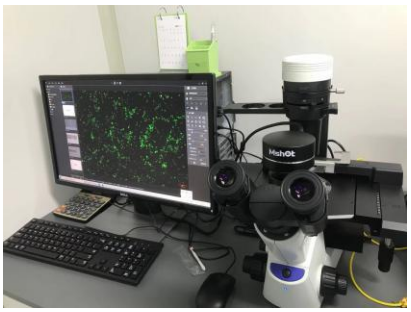
Item No.	LED lamps	Filter Groups
MIF-BG-LED / MIF-BY-LED	Blue and Green/yellow	Blue and Green/Yellow
MIF-BGU-LED / MIF-BYU-LED	Blue, Green/Yellow and UV	Blue,Green/Yellow and UV

*** Four channels MIF2-UBGR/ MIF2-UBYR can be customized**

Standard configuration					
Model	**LED lamp**	**Filter wavelength**			**Mainly Applied Fluorochrome**
		Excitation filter	**Dichroic mirror**	**Emission filter**	
B	Blue	475/30nm	>505nm	530/40nm	GFP / FITC /EGFP/ Malaria diagnostic/ Alexa 488 / Cy2@ / Fluo-4 / FluorX@ / Fluoro-Jade
G	Green	530/40nm	>570nm	575nmLP	PI / EB / EH /TRITC
Y	Yellow	560/40nm	>600nm	610nmLP	mCherry / Texas Red / AlexaFluor 594
U	UV	375/30nm	>415nm	460/50nm	DAPI / Hoechst 33342&33258 / AMCA/AMCA-X / Alexa 350
Remark*	Olympus CX41 UV excitation only can be long-pass filter				
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, UV/O				
Power control	Rota-table knob, continuously adjustable brightness				
Screen	Digital screen to show light intensity 0~100%, rememer light intensity of each color				
Input power	DC 12V 2A				
Shell	High rigid precision-cast aluminium with coating and vents				
Light baffle	Orange color plastic light baffle				

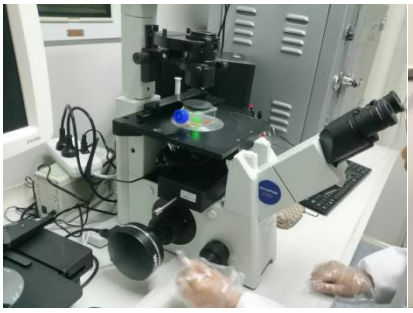
Optional lamp and filters					
LED	**Filter type**	**Excitation filter**	**Dichroic mirror**	**Emission filter**	**Remark**
Blue	Long-pass	475/30nm	>500nm	510nmLP	Olympus CX41 UV excitation only can be long-pass filter
Green	Band-pass	530/40nm	>565nm	605/55nm	
UV	Long-pass	355/50nm	>410nm	420nmLP	
Violet	Long-pass	400/40nm	>430nm	460nmLP	
Red	Band-pass	620/50nm	>655nm	692/45nm	

Installation cases



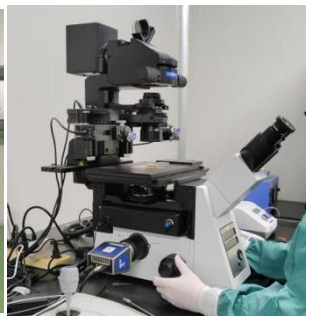
Olympus CXK53

Olympus CX41



Olympus IX51

Olympus IX71



Olympus IX73

Sample images