Advanced Imaging Concepts

15 Tamarack Circle, Skillman, NJ 08558
www.aic-imagecentral.com PH (609) 921-3629

MIF-LED Fluorescence Module

The MIF-LED module for inverted Olympus and Nikon microscopes provides an economical route to add fluorescence capability to your lab. Available as a two- or three-color system in addition to a brightfield channel. The band switching is stable and smooth. Digital display shows the wavelength and intensity for that channel. Smooth plunger slides pout to select different filer/LED sets. Based on the design concept of simple and easy operation, it adopts an LED cold light source, integrating the driving power supply, LED excitation light source and fluorescence filter set into a simple module easily integrated into many inverted microscope stands.

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 show status.
- ✓ Stores Intensity values for each channel.
- ✓ 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**

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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%, remember light intensity of each color				
Input power	DC 12V 2A				
Shell	High rigid precision-cast aluminum 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	

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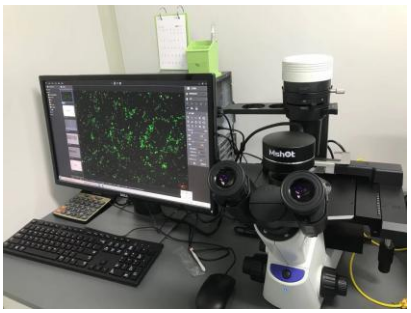
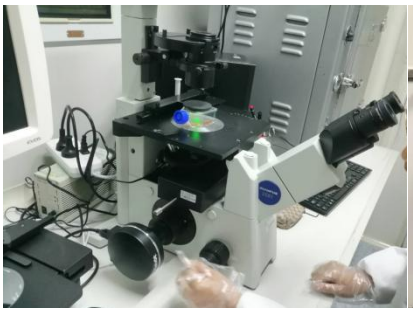
Installation cases



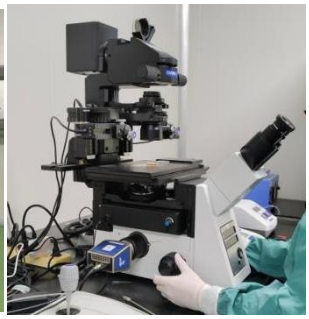
Olympus CXK53

Olympus CX41



Olympus IX51

Olympus IX71



Olympus IX73

Sample images