

MZX-LED Fluorescence Module



The stereo digital fluorescence module can match the Galileo optical system from stereo microscopes of major brands Olympus, Nikon, Leica and Zeiss, enabling ordinary microscopes to realize fluorescence function without changing the original optical path of the microscope, and easily retrofit fluorescence observation capability for many microscopes. The two-channel or three-channel design can provide the observation needs for most fluorescent applications with minimal added cost. These microscopes can be

equipped with relevant bands including V/B/G/Y/R, and a supporting 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 the compatibility with the microscope is higher than before.

Applied applications

Biological live imaging, C.Elegans, Drosophila, Zebrafish, Embryo, Forensic investigation

Features

- ✓ Compact design contains light source and filters in one unit.
- ✓ Instant on-off, no need waiting of pre-heating or cooling.
- ✓ Unique dual light path design, higher and more uniform brightness.
- ✓ Two-color three-channel structure design, standard configuration of two large-view fluorescence channels and one bright field channel for external bright field lighting to pass
- ✓ Digital screen shows light intensity 0~100% of each channel.
- ✓ Memory function of last fluorescence lighting intensity individually.
- ✓ No requirement of external or added power supply.
- ✓ Linked rotating knob move filter cubes and light source by one step
- ✓ CE, FCC, EMC, EU, ISO certified.



Dual light path design



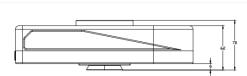
Rotating knob links light source and filter cubes moving together

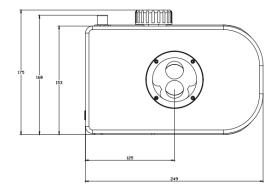


Digital screen shows channel and light intensity with memory function



Dimensions(mm) & Installation photo







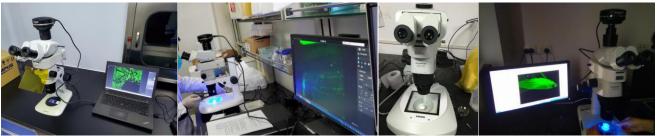


Specification

Types	Item No.		Excitation groups		Filter Groups		S	Compatible microscopes	
2 channels	MZX-BG-LED / MZX- BY-LED		BG/BY			BG/BY		Olympus SZX Nikon SMZ Leica M	
3 channels	MZX-BGV-LED /MZX- BYU-LED		BGV/BYV		BGV/BYV			Zeiss V/Discovery/SV Sunny SZX12 Motic SZM7	
Standard LED lamp and Filters									
	LED lamp		Filter wavelength				Mainly Applied		
Model	Color	Color Excitat				Emission filter		Fluorochrome	
В	Blue	475/40	nm (505nmLP	5	525/45nm		GFP/ FITC /EGFP	
G	Green	530/40	nm 570nmLP			590nmLP	ı	PI / EB / EH /TRITC	
Υ	Yellow	560/40)nm	600nmLP		610nmLP	Mcher	ry/TexasRed/Alexa Fluor 594	
V	Violet	400/40	nm (430nmLP		460nmLP		CFP/part of DAPI	
Light source	Blue: 6W LED for each filter group, 3W per LED lamp Green: 12W LED for each filter group, 6W per LED lamp Yellow: 10W for each filter group: 5W per LED lamp Violet:6W LED for each filter group, 3W per LED lamp								
Observation	Fluorescence Bright field from microscope original light								
Screen	Digital screen show light intensity and remember light intensity of each color light source								
Operation	Rotating knob one step move different channels LED light source and filter cubes								
Power control	Rota-table knob, continuously adjustable brightness								
Input power	DC 12V 2A								
Shell	High rigid precision-cast aluminum with coating and vents								
Baffle	Orange color plastic light baffle								
Optional LED lamp and Filters									
LED	Filter t			itation filt	er	Dichroic			
Blue	Blue Long	•		160-490nm		>500		510nmLP	
Green	Green Band-pass		475/40nm			>500nm		535/45nm	
Yellow		Yellow Band-pass		560/40nm		>600nm		635/60nm	
Violet		Violet Band-pass		395/25nm		>425nm		460/50nmLP	
Red	Red Band-pass		620/50nm			>655nm		690/45nm	



Installation Cases



Olympus SZX7 Olympus SZX7 Olympus SZX10 Olympus SZX16







Nikon SZM18

Nikon SMZ800N

Nikon SMZ25







Leica M205C

Leica M6

Leica M80

Leica MZ16





Zeiss V8

Zeiss V8



