



3Z OPTICS

IRIX-600

6-Position Epi-illuminator

Unlock new possibilities in
basic microscopy!



6+1 channel design | Brilliance

The IRIX-600 is a high-performance fluorescence attachment designed for upright microscope systems in scientific research and biological imaging. The module supports up to six fluorescence channels plus one brightfield path, ideal for multi-color labeling, cellular imaging, and tissue observation.

Six-Channel Integration with Reliable Output

The IRIX-600 adopts a six-position filter turret structure, supporting six fluorescence and one brightfield position. It delivers uniform, stable excitation for multicolor fluorescence experiments. Channel switching is precise and repeatable, ensuring consistent illumination without misalignment or light loss.

- Optical output stability $\geq 98\%$
- User-configurable wavelength combinations
- Fluorescence safety shield available
- Manual control pod as optional



Smart Control by Intuitive Interface

A color display shows real-time information for the active channel, including wavelength, band, and brightness level. The intuitive rotary dial allows instant switching between fluorescence and brightfield modes, with smooth dimming control and clear visual feedback.

- Precise 0-100 % intensity adjustment
- Quick channel switching with tactile feedback.
- Compact interface optimized for daily imaging workflows



◀ Color Display

Seamless Integration and Broad Compatibility

The IRIX-600 features a native upright-mount design, ensuring true plug-and-play installation without modification to the microscope. It's compatible with major upright microscopes for fluorescence upgrade or expansion.

Flexible Excitation Configuration

The IRIX-600 supports up to six excitation channels. The standard configuration includes the commonly used DAPI, GFP, and Cy3 excitations. Additional wavelengths and bandwidths can be customized to meet specific application requirements.

Technical Specifications

Wavelength	Up to 6 ^[1]
Excitation Channel	Channel 1 (435nm) EX: 435/20nm, DM: 460nm, EM: 495/25nm Channel 2 (470nm) EX: 470/30nm, DM: 500nm, EM: 535/50nm Channel 3 (535nm) EX: 530/30nm, DM: 560nm, EM: 580/30nm Channel 4 (580nm) EX: 565/30nm, DM: 585nm, EM: 620/40nm Channel 5 (635nm) EX: 630/30nm, DM: 650nm, EM: 680/30nm Channel 6 (680nm) EX: 655/40nm, DM: 690nm, EM: 715/40nm
Optical Power ^[2]	Channel 1 (435nm) : 1300mw Channel 2 (470nm) : 910mw Channel 3 (535nm) : 510mw Channel 4 (580nm) : 400mw Channel 5 (635nm) : 700mw Channel 6 (680nm) : 300mw
Output Stability ^[3]	≥98%
Fluorescence Turret	Manual switching
Control Interface	Rotary dial for dimming and 0.85 inch color display
Intensity	1-100% linear dimming in increments of 1%
Brightness Memory	Automatically saves and recalls brightness settings when switching channels or turning on/off
Communication	Communication protocol provided
Input	DC 24V
Power Consumption	20W
LED Driver	Constant current
Dimensions (WLH)	200mm x 245mm x 61mm
Weight	3.2kg
Noise Level ^[4]	≤47dB
Working Environment (only indoors)	Temperature: 0-40°C Humidity: 20-80% RH (non-condensing)
Storage Environment	Temperature: -15-60°C Humidity: 20-85% RH (non-condensing)
Cooling	Air-cooling
Lifetime	30000 hours
Warranty	24 months
Standard Package	Epi-illuminator, power adapter, power cord
Note: [1] The 435 nm channel be used for brightfield illumination. [2] Measured at the output port with optical power meter. [3] Continuous monitoring of output power in 4 hours under room temperature 26°C, Humidity 65%±10%. [4] Measured under 38dB of ambient noise, 50cm away from the light source.	



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