



IRIS-600

6-channel LED Light Source

High Performance

- »» Broad spectrum covering DAPI to Cy7 excitation
- »» High brilliance for demanding imaging scenarios



3Z OPTICS

Features

Subtle Independence

The IRIS-600 can be coupled into almost any microscope and other systems with LLG as standard delivery. Each channel can be switched on/off and intensity be adjusted electronically. Its overall design is compact and user-friendly as well. The serial communication protocol is provided for exclusive system integration.

Broad Spectral Output

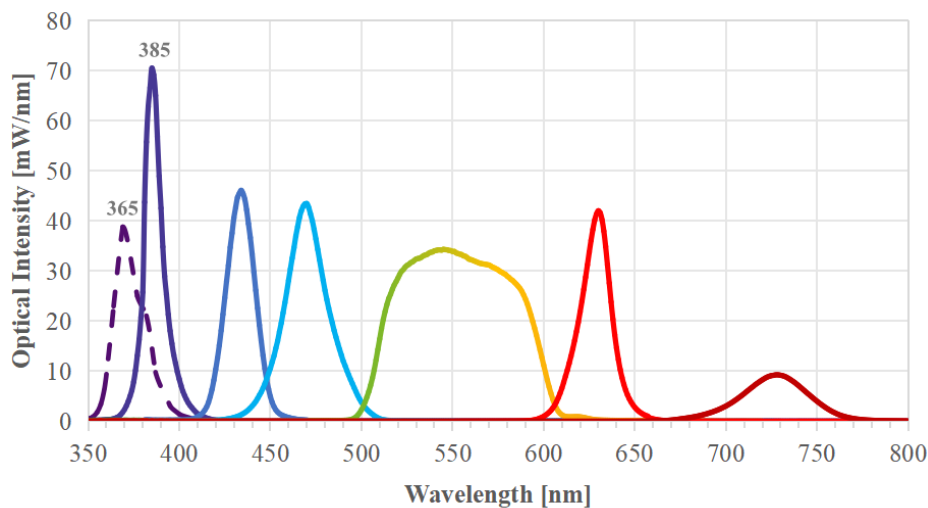
The IRIS-600 covers a broad spectral range from DAPI to Cy7 fluorescent excitation, making it ideal for various life science applications. It offers multiple spectral options, with selectable wavelengths to accommodate different filter configurations and sample requirements.

Refined through optical engineering, the IRIS-600HP delivers high-efficiency illumination in the 500-600 nm range, particularly suited for TRITC, mCherry, and Tx Red excitation acrossing 'green-gap'. Its Cy7 excitation capability unlocks even greater potential. Combining the strengths of LEDs, IRIS-600HP is an ideal choice for fulfilling diverse demands in the labs.

Plug-and-play system with high compatibility

IRIS-600 provides LLG coupling as standard optical delivery. Collimation optics can be provided if needed.

- Control pod: controlling through buttons and a rotary dial.
- Custom output coupling: Please inquire in advance.



▲ IRIS-600HP output spectrum

Excepyional Output Power

The IRIS-600HP delivers a total light output of over 7.2W through $\phi 3\text{mm}$ LLG. With this exceptional output it is widely applied in advanced applications including super-resolution imaging and spinning-disk confocal microscopy, where illumination requirements are particularly demanding. At the same time, the IRIS-600P delivers reliable and efficient illumination for pathology slide scanning and routine fluorescence imaging.

Inner serenity

We pay extra attention to user experience, in which low noise level is essential. With a sound level of $\leq 50\text{dB}$ the IRIS-600HP/P helps fostering a more productive and stress-free research experience.

Technical Specifications

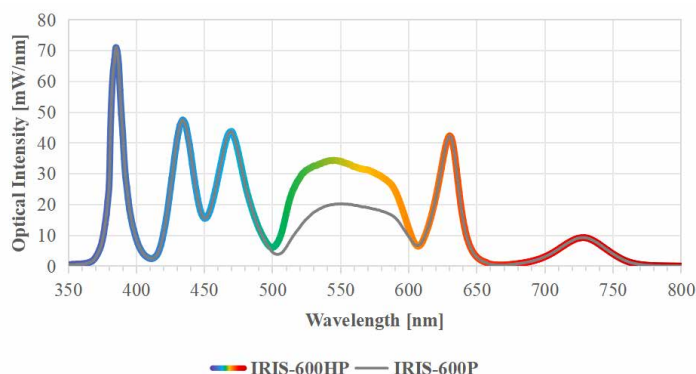
Model Name	IRIS-600P	IRIS-600HP
Wavelengths	6	
Spectral Range	360-770nm	
Peak Wavelengths	365/385/405nm, 430nm, 470nm, 545nm, 635nm, 730nm	
Optical Power ($\phi 3\text{mm}$ LLG) ^[1]	$\geq 5.56\text{W}$	$\geq 7.2\text{W}$
Light Delivery	Liquid light guide	
LLG Specification	$\phi 3\text{mm}$, NA=0.59, 1.2m length; $\phi 5\text{mm}$ optional	
Control	Control pod, TTL triggering, serial communication	
Operating Mode	Independent, global, TTL	
Intensity	1-100% linear dimming in increments of 1%	
TTL Triggering	6 TTL inputs and 1 global TTL input(DB15 to 7*BNC) response time ^[2] $<5\ \mu\text{s}$	
Interface	USB (protocol provided)	
Power Requirements	AC100-240V($\pm 10\%$), 50/60Hz	
Power Consumption	110W	120W
LED Driver	Constant current	
Dimensions (WLH)	100mm x 275mm x 168mm	136mm x 277mm x 273mm
Weight	6kg	7kg
Noise Level ^[3]	$\leq 50\text{dB}$	
Working Environment (only indoors)	Temperature: 0-40°C Humidity: 20-80% RH (non-condensing)	
Storage Environment	Temperature: -15°C-40°C Humidity: 20-85% RH (non-condensing)	
Cooling	Air cooling	
Lifetime	30000 hours	25000 hours
Warranty	24 months (LLG excluded)	
Standard Package	Light source, LLG, USB cable, power cable	
Optional Accessories	Control pod, collimation optics, BNC cable	

Note :

[1] Measured at the distal end of $\phi 3\text{mm}$ LLG with full output.

[2] Triggering frequency: 1KHz.

[3] Measured under 42dB of ambient noise, 50cm away from the light source.



- IRIS-600P - Designed for multicolor excitation applications, such as widefield fluorescence illumination and digital slide scanning systems.
- IRIS-600HP - Designed for challenging illumination scenarios, such as super-resolution techniques and spinning-disk confocal systems.

▲ IRIS-600P & IRIS-600HP spectral comparison



3Z OPTICS

3Z Optics Co.,Ltd.

Room 1501, Suite A, Building 1, Guangming Cloud Park, 98 Zhenyuan Road,
Zhenmei Community, Xinhua Street, Guangming District, Shenzhen City.

Tel: 020-38801041

General Information: info@3zoptics.com

Tehcnical support: customer.support@3zoptics.com

www.3zoptics.com | **Seeing Beyond with the Power of Light**