

Optical Shutters


[SmartShutter®](#)
[Lambda SC](#)
Wavelength
Switchers &
Filterwheels
[Lambda 421](#)
[Lambda 821](#)
[Lambda OBC](#)
[Lambda VF-5™ /
VF-1™ / VF-10](#)
[Lambda VF-1
Edge™](#)
[Lambda DG-4/DG-5
Plus](#)
[Lambda 10-3](#)
[Lambda 10-B](#)

Lightsources

[Lambda HPX LED](#)
[Lambda HPX-L5
LED](#)
[Lambda FLED](#)
[Lambda
TLED/TLED+](#)
[Lambda XL](#)
[Lambda LS](#)
Adapters & OEM
Products
[Microscope Adapters](#)
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**Lambda FLED**

Fluorescent Light Source

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The Lambda FLED was designed as a high-power LED driver for fluorescence microscopy. Based on our proven TLED+ design, the FLED has been optimized for single-channel, high-current LEDs used as excitation light sources.

The basic system consists of an LED mounted on a special black-anodized aluminum heat sink and a controller. The controller is CNC machined from solid aluminum billet, and powered by a rugged modular universal power supply. The FLED provides intensity control and on-off control via a toggle switch or TTL logic. The on-off time is less than 25 µsecs when using TTL control. In addition to digital input control, the Lambda FLED has an analog input to modulate the LED intensity. The Lambda FLED is expected to have stable output that will last more than 50,000 hours.

The Lambda FLED can be ordered with several different wavelength-specific LEDs that range from 365 nm to 940 nm. Please call us if you require a wavelength that is not listed.

Our dual channel Lambda FLED option combines two high power LEDs into a single light path. The FLED-DC allows the use of two channels for fluorescence imaging. Both channels are driven by individual FLED controllers and can be triggered, also individually, by a TTL signal. For greater than two LEDs in a setup, please see our Lambda 421 or Lambda OBC.