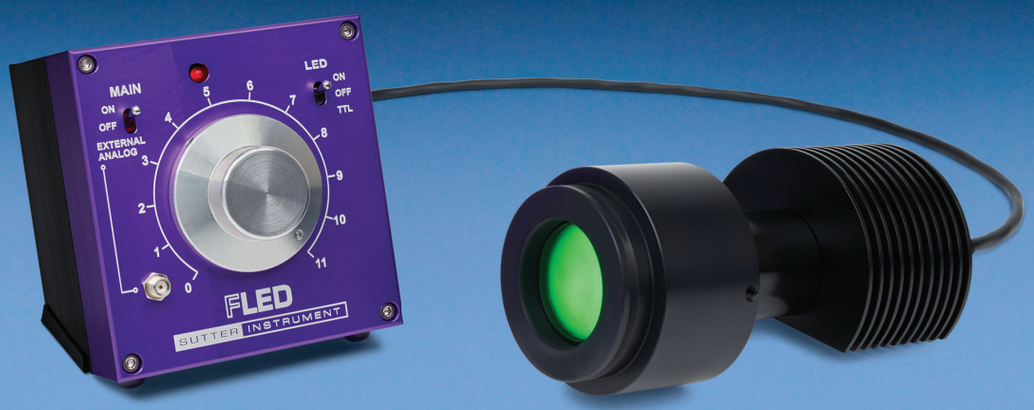
NEW!

- >50,000 HOUR LIFETIME
- <25µsecs ON-OFF TIME
- TTL CONTROL (WITH POLARITY SWITCH)
- VERY STABLE OUTPUT
- COMPACT STAND-ALONE DESIGN
- EASY INSTALLATION



LAMBDA FLED FLUORESCENT LIGHT SOURCE

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 25µsecs 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 365nm to 940nm. Please call us if you require a wavelength not listed.

Our dual channel **Lambda FLED** option combines two high power LEDs into a single light path.

Each **Lambda FLED** system includes an optical mounting adapter for the excitation port of the microscope and detailed installation instructions. Mounting adapters are designed to fit most models of Nikon, Olympus, Zeiss and Leica microscopes. Custom adapters are available at an additional cost.

LAMBDA FLED
Single Channel LED Light Source Includes Lambda FLED light source, FLED controller and power supply. Please select one wavelength when ordering.

FLED-N	Lambda FLED for Nikon
FLED-N25[1]	Lambda FLED for Nikon TE200/ E300, Diaphot 200/300
FLED-Y	Lambda FLED for Olympus
FLED-Z	Lambda FLED for Zeiss
FLED-L	Lambda FLED for Leica
FLED-C[2]	Lambda FLED with C-mount

AVAILABLE WAVELENGTHS* (in nm)
340, 365, 385, 410, 440, 460, 480, 506, 530, 561, 590, 630, 660, 740, 850, 940

**Other wavelengths and wavelength combinations may be available. Custom mounting adapters available on all models at an additional cost. Contact Sutter for further details.*

[1] *Replaces the epi-illuminator.*

[2] *Suitable for SOM microscope.*

The **Lambda 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**.

LAMBDA FLED-DC
Dual Channel LED Light Source Includes Lambda FLED light source, 2 FLED controllers, and power supplies. Please select one wavelength when ordering.

FLED-DC-N	for Nikon
FLED-DC-Y	for Olympus
FLED-DC-Z	for Zeiss
FLED-DC-L	for Leica
FLED-DC-C	with C-mount

AVAILABLE WAVELENGTH COMBINATIONS* (in nm)

White and 385	385 and 530	530 and 630
White and 460	460 and 630	
White and 740	480 and 561	

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