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Lambda TLED / TLED+

LED Transmitted Light Source

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The Lambda TLED and TLED+ are stand-alone LED light sources that can be used with the transmitted light path of a microscope or in other applications with similar requirements.

The basic system consists of an LED mounted on a special black-anodized aluminum heat sink and a controller. Both TLED and TLED+ controllers are powered by a rugged modular universal power supply. The controllers provide intensity control and on-off control via a toggle switch or TTL logic. The on-off time is < 25 µsecs when using TTL control. In addition to digital input control, the Lambda TLED+ has an analog input to modulate the LED intensity. The Lambda TLED and TLED+ are expected to have stable output that will last in excess of 50,000 hours.

The Lambda TLED and TLED+ can be ordered with a high-output white light LED making it a suitable light source for contrast methods including Phase and Differential Interference Contrast (DIC).

As an alternative to the standard white-light LED, we have several options available including an IR-LED which is suitable for experiments requiring IR-DIC. Please contact Sutter for details.

Our dual channel Lambda TLED+ option combines two high power LEDs into a single light path. The TLED-DC includes a 460 nm LED for stimulation, while the second channel passes the phosphor emission from a white light LED. The white light channel can be used to access spectra between 510 nm to 630 nm and is suitable for a variety of applications. Both channels are driven by individual TLED+ controllers and can be triggered, also individually, by a TTL signal. Alternate wavelength configurations are available.

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

The TLED-FT is a powerful and compact array of 9 LEDs used to deliver a homogenized beam of light to the sample.