

**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](#)[OEM Systems](#)**Lambda HPX-L5**

High Power LED Light Source with Liquid Lightguide

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The Lambda HPX-L5 was created as a liquid light guide coupled version of the HPX, our newest high power LED light source. The liquid light guide allows for LED cooling via an internal heatsink with a whisper fan. This requires less maintenance than the liquid-cooled direct mount version. Designed around a single 90W 3 mm LED die, the Lambda HPX-L5 provides light output comparable to a 150W xenon arc lamp when using the same light guide. The Lambda HPX-L5 is optimized for coupling to an optional 5 mm liquid light guide, and off-the-shelf microscope adapter. The HPX is expected to retain 70% of its original light output after 60,000 hours.

Because LEDs exhibit color shift with current change, the Lambda HPX was designed to dim the LED using either PWM or current control. PWM will be preferable for most applications, and allows the LED to run cooler. PWM switching is at 28 kHz, high enough for use with most high speed cameras. For those with applications intolerant of any pulsed output, dimming via current control is also available. PWM and Current information are conveniently displayed on the front panel display, and are manually selectable via control knobs. Integral shuttering time is 10 microseconds to turn on and off. TTL input and output allows for triggering from either software or directly from another device such as a camera or digital IO board. PWM can also be controlled externally via analog input. Active temperature monitoring insures that the LED life will be maximized.

Light output is in the visible spectrum from 430 nm - 700 nm. Special order units are available with 630 nm, 530 nm, 460 nm, and 405 nm wavelength specific LEDs. The Lambda HPX-L5 can also be combined with our FLED to create a two-channel system with any combination of wavelengths.

**FEATURES**

- Vibration-free coupling via liquid light guide
- Dimming via PWM or Current control
- Lifetime > 50,000 hours
- Front mounted connectors for ease of access
- TTL and Analog controls
- Integral Shuttering
- White light and UV combination available

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