# NEW

# RGB Fast Pulse Illuminator

## Innovative & cost-effective Xenon strobe alternative



+ Three high-current LEDs can be simultaneously pulsed as short as 1.3μs providing extremely bright white illumination without pixel smearing for today's fastest area scan cameras enabling fast and continuous motion scanning (230% faster scanning speed*)

+ With separate control over the RGB LEDs, this illuminator allows for the blending of red, green, and blue light to achieve various colors, including white, all from a single long-life device

+ Onboard controller and several modes of operation and power modes enable configurable synchronization, simplifying integration and supporting many different applications

+ Adjustable to ensure Köhler illumination and support for up to 1.1" cameras ensure exceptional illumination uniformity with WDI's single-objective and multi-objective Modular Microscope Systems

## WDI WISE DEVICE INC

is a world leader in the design, manufacture and integration of OEM and complete microscopy automation solutions for the biomedical, metrology, electronics, semiconductor, and flat panel display markets.

# RGB FPHPLED SPECIFICATIONS

| Parameter | Value |
|---|---|
| Max Current (Continuous) | 1A Each Channel |
| Max Current (Pulse, Surge) | Red (8A, 10A) / Green & Blue (12A, 14A) |
| Minimum Pulse Width | 1.3 µs |
| Surge Mode Maximum Pulse Width | 50 µs (Maximum Duty Cycle 0.1%) |
| Pulse Width Resolution | 100 ns |
| Camera Trigger Delay Resolution | 10 ns |
| Typical Scanning Speeds** | Mitutoyo 5X 303 to 384 mm/s<br>Mitutoyo 10X 152 to 192 mm/s |
| Compliance | Clean Room Class 1000 (ISO6) and CE |

Illuminator (ILL-PBI-RGB-FPHPLED-MHR-ZG-NA/LC)

**Single-Objective System**
WDI High Resolution MMS
PFA Autofocus Sensor & PBI Z Axis Actuator
NEW RGB FPHPLED Illuminator

**Multi-Objective System**
WDI High Resolution MMS
PFA Autofocus Sensor & PBI Z Axis Actuator
PBI 4 Objective Linear Lens Changer
NEW RGB FPHPLED Illuminator

* Average increase in scanning speeds for color and monochrome with lenses 1X through 10X and using IMX530/535 and GMAX0505 cameras relative to ILL WLED series product. Faster speeds possible with a polarized MMS.
** Based on Sony IMX535 and GPixel GMAX0505 sensors

WDI is a world leader in the design, manufacture, and integration of OEM and complete microscopy automation solutions for the biomedical, metrology, electronics, semiconductor, and flat panel display markets. WDI's success lies in an innovative culture and ability to optimize and adapt our technology to customers' specific requirements by listening to their needs and gaining a deep understanding of their processes, applications and goals. WDI employs over 30 optical, electrical, mechanical and software engineers, as well as scientists, who are dedicated to servicing our customers. Contact WDI today to see how we can help solve your microscopy automation needs.

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