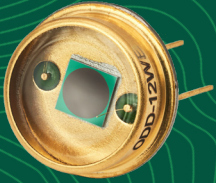
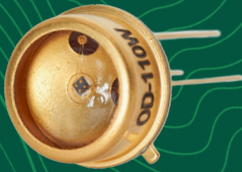


## Fluorescence Microscopy

### Photodiodes



### LEDs



## KEY FEATURES

- 365nm - 850nm (LEDs)
- High sensitivity, low noise detection
- Precise wavelength for fluorophores
- Accurate light intensity measurement

## APPLICATIONS

- Biomedical research
- Clinical Diagnostics
- Forensic and Security Applications

Our dedication to optimizing fluorescence microscopy systems is evident in our high-performance LEDs and photodiodes, engineered for precision, stability, and sensitivity. These components are essential for demanding applications, ensuring accurate and reliable data acquisition.

Our custom LEDs offer a significant advantage over traditional light sources, providing exceptional wavelength precision that targets key fluorophores like DAPI and the Alexa Fluor series, effectively minimizing crosstalk. These LEDs deliver stable, long-lasting illumination, reducing the need for frequent recalibration and maintenance. Their monochromatic nature is crucial, as it significantly reduces phototoxicity and photobleaching, thus preserving sample integrity. Furthermore, the ability to combine various wavelength LEDs enables efficient multiple fluorophore excitation, facilitating complex multiplexing experiments.

When it comes to fluorescence detection, our photodiodes offer high sensitivity and low noise, enabling the capture of even faint signals and enhancing data clarity. Their rapid response times are invaluable for high-speed imaging, a critical factor in dynamic studies. These photodiodes provide accurate light intensity measurements, essential for quantitative analysis, and seamlessly integrate with digital imaging systems. Specifically, they serve as vital components in advanced microscopy techniques such as confocal and TIRF, and their unique slide-shaped designs allow for precise objective power measurement.

## Featured Products

### Photodiodes

| Model Number | Active Area Size (mm <sup>2</sup> ) | Description                          | Typ. Responsivity (A/W) |
|--------------|-------------------------------------|--------------------------------------|-------------------------|
| UVG100       | 100                                 | UV Photodiode on Ceramic Pkg         | 0.13 @ 365nm            |
| UVG5S        | 5                                   | UV Photodiode on Ceramic Pkg         | 0.13 @ 365nm            |
| ODD-12W      | 12                                  | Red Enhanced Photodiode in TO-5 Pkg  | 0.35 @ 632nm            |
| ODD-12WB     | 12                                  | Blue Enhanced Photodiode in TO-5 Pkg | 0.28 @ 450nm            |

### LEDs

| Model Number | Typ. Power Output (mW) | Peak Emission Wavelength (λ <sub>p</sub> ) | Typ. Forward Voltage (V) |
|--------------|------------------------|--------------------------------------------|--------------------------|
| OD-850LHT    | 25.5                   | 810nm @ 50mA                               | 1.6V @ 100mA             |
| OD-850WHT    | 27.5                   | 810nm @ 50mA                               | 1.6V @ 100mA             |
| D-469L       | 170                    | 470nm @ 350mA                              | 3.2V @ 350mA             |
| OD-624L      | 170                    | 635nm @ 350mA                              | 2.3V @ 350mA             |

