

## UDTi Photometric Sensors



### UDTi Sensors

UDT Instruments, a Gamma Scientific company, produces precision optical sensors for diverse photometric and radiometric applications. UDTi sensors are ideally suited for OEMs, value-added resellers and any company that is interested in accurately measuring light intensity and brightness.

### Applications

- LEDs
- Lamps
- Architectural
- Medical

### Additional Sensors

To view the complete line of UDTi photometric and radiometric sensors visit [www.udtinstruments.com](http://www.udtinstruments.com).

### UDT Instruments

8581 Aero Drive  
San Diego, CA 92123  
USA

1-877-532-5800

[sales@udtinstruments.com](mailto:sales@udtinstruments.com)

[www.udtinstruments.com](http://www.udtinstruments.com)

UDTi photometric sensors are designed with advanced photometric filters to simulate the response of the human visual system and match the spectral response of a standard observer. When coupled with an optometer, photometric sensors are used to measure luminous flux (lm), illuminance (lux) and luminous intensity (cd).

### The UDTi Sensor Advantage

- UDTi designs the most accurate photometric filters in the world, with an unsurpassed ability to match the human eye's sensitivity to color and light intensity
- Each UDTi sensor includes a NIST-traceable calibration
- UDTi also manufactures high-performance optometers and integrating spheres to create complete photometric test systems
- Optical Sensors from UDTi have been developed for maximum compatibility with your existing optical measurement systems

### Photometric Sensor Models

- **Model 211 Illuminance Sensor Head:** Universal sensor head that can be adapted for use with most accessories. Consists of a standard series silicon sensor, spectrally-matched photometric filter and cosine diffuser to reduce directional sensitivity.
- **Model 263 Miniature Illuminance Sensor Head:** Scaled-down version of the 211 that is designed for use in confined spaces. Consists of a silicon sensor, spectrally-matched photometric filter and flat diffuser to reduce directional sensitivity.
- **Model 268P Low-Profile Illuminance Sensor Head:** Designed for applications with limited mechanical clearance. Consists of a silicon sensor with a spectrally-matched photometric filter and cosine diffuser to reduce directional sensitivity.

## Photometric Sensor Specifications

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### Model 211

Standard Calibrations	lux, fc or lumen
CIE V( $\lambda$ ) function or Spectral Match	$f1' \leq 3\%$ (higher accuracy available)
Sensor Active area (cm <sup>2</sup> )	1.00 cm <sup>2</sup>
Dynamic Range	1.0E-02 to 5.0E+05 lux
Package style	Seal metal package with BNC

### Model 263

Standard Calibrations	lux, fc or lumen
CIE V( $\lambda$ ) function or Spectral Match	$f1' \leq 3\%$ (higher accuracy available)
Sensor Active area (cm <sup>2</sup> )	0.34 cm <sup>2</sup>
Dynamic Range	5.0E-01 - 5.0E+05 lux
Package style	Miniature package with BNC

### Model 268P

Standard Calibrations	lux, fc or lumen
CIE V( $\lambda$ ) function or Spectral Match	$f1' \leq 3\%$ (higher accuracy available)
Sensor Active area (cm <sup>2</sup> )	1.00 cm <sup>2</sup>
Dynamic Range	1.0E-03 to 2.0E+04 lux
Package style	Low Profile package with BNC

