

UDTi Photometric Sensors



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.

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, valueadded 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.

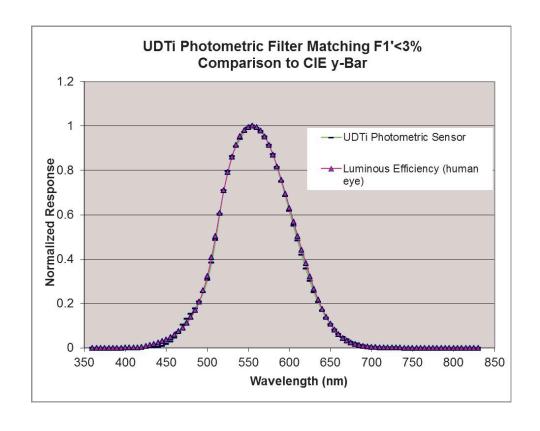
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San Diego, CA 92123
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Photometric Sensor Specifications

N	lodel 211
Standard Calibrations	lux, fc or lumen
CIE V(λ) function or Spectral Match	f1' ≤ 3% (higher accuracy available)
Sensor Active area (cm²)	1.00 cm ²
Dynamic Range	1.0E-02 to 5.0E+05 lux
Package style	Seal metal package with BNC
N	lodel 263
Standard Calibrations	lux, fc or lumen
CIE V(λ) function or Spectral Match	f1' ≤ 3% (higher accuracy available)
Sensor Active area (cm²)	0.34 cm ²
Dynamic Range	5.0E-01 - 5.0E+05 lux
Package style	Miniature package with BNC
M	odel 268P
Standard Calibrations	lux, fc or lumen
CIE V(λ) function or Spectral Match	f1' ≤ 3% (higher accuracy available)
Sensor Active area (cm²)	1.00 cm ²
Dynamic Range	1.0E-03 to 2.0E+04 lux
Package style	Low Profile package with BNC



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