

LDM-9901

<https://www.gigahertz-optik.com/en-us/product/ldm-9901>

Product tags: VIS



Description

Precise and easy to use

The extremely compact LDM-9901 luminance measurement head has a fixed 1.1° measurement field angle at measurement distances starting from 0.4m to infinity. Its 5% photometric matching corresponds to the DIN 5032 quality class B.

Measurement field aim over notch and bead sight

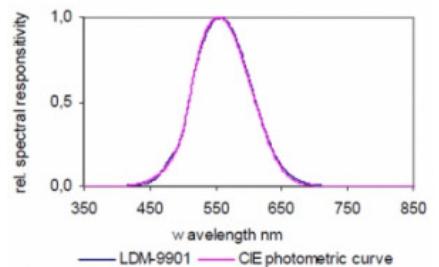
Measurement field focusing with the LDM-9901 luminance detector head is done by aim over notch and bead sight for three different measurement distance ranges. .

Minimal scattered light

Since the LDM-9901 does not have any viewing optics inside, its internal scattered light is very minimal. It is therefore well suited for measurement of low luminance levels in measurement fields with higher ambience luminance.

Traceable calibration

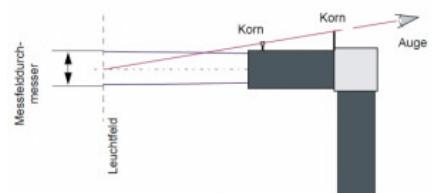
The calibration of the luminance responsivity is performed by Gigahertz-Optik's calibration laboratory for optical measurands. The calibration certificate contains all the information as stipulated by the ISO 17025 specifications.



typical spectral responsivity



Simple measurement field focusing using notch and bead sight for three measurement distance ranges



fix using rear and front sights



LDM-99Z-01 adapter for tripod mounting





LDM-99Z-02 lens hood

Specifications

Calibration

Calibration	K-LDM9901-I: Calibration of the illuminance responsivity in A/lx using a halogen calibration lamp with a color temperature of 2856 K and 1600 lx.
Calibration	K-VIS-SR: Calibration of the relative spectral responsivity in the visible spectral range

Specification

spectral responsivity	photometric $V(\lambda)$
f_1' (spectral mismatch)	$f_1 \leq 5\%$
typical responsivity	25 pA/(cd/m ²)
Max. signal current	1 mA
Field of View	1.1°
Input optics	22 mm Ø lens
Alignment	Notch and Bead Sight

Miscellaneous

Connector	coaxial cable 2m Long, with BNC (-1), calibration data (-2) or ITT (-4) connector
temperature range	(5 - 40) °C

Configurable with

Product Name	Product Image	Description	Show product
P-9710		High-quality device for measurement of CW-, single pulse and modulated radiation. Features: Optometer for all detector heads with calibration data plug. Measurement modes: CW, pulse energy, dose, peak-to-peak, effective luminous intensity (Blondel-Rey), data logger, battery, main power, RS232	https://www.gigahertz-optik.com/en-us/product/p-9710
P-9710-2		High quality optometer for pulse-energy measurements of short pulses in photometric, radiometric and LASER application. Features: pulse energy measurement, CW, dose, simple and safe detector exchange, battery, main power, RS232	https://www.gigahertz-optik.com/en-us/product/p-9710-2
P-9710-4		High quality optometer for pulse-energy measurements of short pulses in photometric, radiometric and LASER application. Features: pulse energy measurement with external Trigger input, CW, dose, simple and safe detector exchange, battery, main power, RS232	https://www.gigahertz-optik.com/en-us/product/p-9710-4
P-9802		Light meter for laboratory use with up to 24 measurement heads. Features: For use with up to 24 photometric and/or radiometric measurement heads. RS232 interface.	https://www.gigahertz-optik.com/en-us/product/p-9802
P-9801		Eight-channel optometer. Features: State-of-the-art 8 channel laboratory optometer with a signal amplifier and sample & hold ADC per channel for clocked recording of the measurement signals. RS232 and IEEE488 interface. Trigger input and output.	https://www.gigahertz-optik.com/en-us/product/p-9801
P-2000		Two-channel optometer. Features: For use with most photometric and radiometric detectors supplied by Gigahertz-Optik. Modes: CW, pulse energy from both single and multiple flashes, effective luminous intensity (Blondel-Rey), data logger and others.	https://www.gigahertz-optik.com/en-us/product/p-2000
X9-1		Photometer for illuminance and luminance. Features: Mobile light meter with illuminance and luminance detector for use with polychromatic radiation sources. X9-1-US version for measurement of the illuminance in fc and luminance in fL.	https://www.gigahertz-optik.com/en-us/product/x9sub1sub

Purchasing information

Article-Nr	Modell	Description
Product		
100076	LDM-9901-1	Detector head with -1 connector, calibration certificate
15295303	LDM-9901-2	Detector head with -2 connector, calibration certificate
15295682	LDM-9901-4	Detector head with -4 connector, calibration certificate

Article-Nr	Modell	Description
Re-calibration		
15300377	K-LDM9901-I	Re-calibration of the luminance responsivity
15300579	K-VIS-SR	Re-calibration of the relative spectral responsivity
Accessories		
100138	LDM-99Z-01	Adapter for tripod mounting. Integrated level
100674	LDM-99Z-02	Lens hood