

LDM-9810

<https://www.gigahertz-optik.com/en-us/product/ldm-9810/>

Product tags: VIS



Description

Precision luminance detector head

For the measurement of spot luminance, Gigahertz-Optik GmbH offers the LDM-9810 viewfinder optics that can be combined with the PD-16VL01 photometer detector.

Adjustable measurement field angles

The luminance detector head has 3 adjustable measurement field angles with 20 minutes, 1 degree and 6 degrees which can be setup at the same measurement distance.

High-quality focusable lens with viewfinder

The LDM-9810 viewfinder has a high-quality, chromatically corrected lens. The measurement distance ranges from 0.33m to infinity. Measurement field targeting and focusing can be done using the viewfinder.

Close-up lenses for measurement spots up to 0.1mm

The optional LDM-98Z-NL close-up lens enables 1:1 to 2:1 mappings. Measurement field sizes starting from the 0.1mm range make it possible to perform luminance measurements over very tiny illuminated surfaces.

Photometric DIN 532 T7 quality class A

The matching of the photometric responsivity of the PD-16VL01 detector combined with the LDM-9810 viewfinder corresponds to the DIN 5032 quality class A.

Extensive selection of optometers

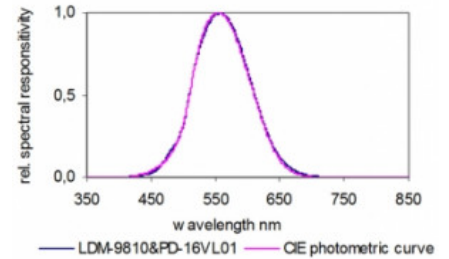
The LDM-9810 luminance measurement head with the PD-16VL01 can be combined with all optometers from Gigahertz-Optik.

Traceable calibration

Calibration of the luminance responsivity in $A/(cd/m^2)$ is performed by Gigahertz-Optik's calibration laboratory for optical measurands. The details provided in the calibration certificate are as stipulated by the ISO 17025 specifications.

Specifications

Specification



9810_PD-16VL01 typical spectral responsivity



PD-16VL photometric detector for use with LDM-9810 and LDM-9811

Spectral responsivity	V(λ), f1 ≤ 3 %					
Typical responsivity	3 pA/(cd/m²) (20' FOV)					
Typical responsivity	30 pA/(cd/m²) (1° FOV)					
Typical responsivity	1 nA/(cd/m²) (6° FOV)					
Max. signal current	1 mA					
Optical properties	50 mm Ø achromat, focus-able from 0.3 m up to infinity					
Spot Diameter	Distance Spot diameter	0.3 m 21 mm	0.5 m 41.9 mm	1 m 94.3 mm	2 m 199 mm	10 m 1037 mm
		@ 6°	@ 6°	@ 6°	@ 6°	@ 6°
		3.5 mm	7 mm	15.8 mm	33.2 mm	173 mm
		@ 1°	@ 1°	@ 1°	@ 1°	@ 1°
		1.2 mm	2.3 mm	5.2 mm	11 mm	57 mm
		@ 20'	@ 20'	@ 20'	@ 20'	@ 20'
Spot Diameter	Lens Spot diameter	100 mm / f = ∞ 10.5 mm			75 mm / f = 0.3 m 5.2 mm	
		@ 6°			@ 6°	
		1.8 mm			0.9 mm	
		@ 1°			@ 1°	
		0.6 mm			0.3 mm	
		@ 20'			@ 20'	
Miscellaneous						
Connector	2 m length with BNC (-1), calibration data (-2) and ITT (-4) connector					
Temperature range	(5 - 40) °C					
Options						
LDM-98NL	Magnification lens with 50mm achromatic corrected lens. Thread Mount Adapter for the LDM-9810 lens					

Configurable with

Product Name	Product Image	Description	Go to product
P-9710		High-End Optometer for Measurement of CW-, Single Pulse and Modulated Radiation	https://www.gigahertz-optik.com/en-us/product/p-9710/
P-9802		Current Amplifier (Optometer) for Laboratory Use with up to 24 Measurement Heads	https://www.gigahertz-optik.com/en-us/product/p-9802/
P-9801		8-Channel High Class Current Amplifier/Optometer	https://www.gigahertz-optik.com/en-us/product/p-9801/
P-2000		Two-Channel Optometer	https://www.gigahertz-optik.com/en-us/product/p-2000/

Purchasing information

Article-Nr	Modell	Description
Product		
100900	LDM-9810	optic modul without detector head
Re-calibration		
15300387	K-LDM9810VL01-I	Calibration of the PD-16VL01 with LDM-9810. Calibration certificate
Accessories		
101042	LDM-98NL	near field lens
100913	PD-16VL01-1	Detector head with BNC connector. Calibration certificat with LDM-9810
101743	PD-16VL01-2	Detector head with calibration data connector. Calibration certificat with LDM-9810
101744	PD-16VL01-4	Detector head with ITT connector. Calibration certificat with LDM-9810

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- Repairs & Updates
- OEM & Feasibility Consulting of Customized Solutions

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