

MD-37-SU100-VL

<http://www.gigahertz-optik.de/en-us/product/MD-37-SU100-VL>

Product tags: VIS



Description

Modular light measurement technology

Some photometric application areas require measurement devices that are usually not available in standard versions. For simplified customized solutions, Gigahertz-Optik offers a series of modular components. These can be flexibly combined depending on the various requirements.

Photometric module detector

The high quality, extensive Si-photodiode of the MD-37-SU100-VL is carefully matched to the photometric DIN and CIE $V(\lambda)$ nominal curve using a multilayer optical correction filter. The $V(\lambda)$ matching of the luminous flux measurement head generally corresponds to the DIN-5032-T7 quality class B.

Extensive range of accessories with M30x1 connector

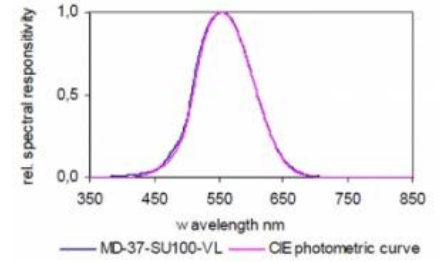
Numerous accessories which include lens adapter, integrating sphere adapters and UPB and UPK series integrating spheres are offered for the MD-37-SU100-VL module detector with its M30x1 threaded bore.

Use with all optometers

The detector can be combined with all optometers and light meters from Gigahertz-Optik.

Traceable calibration

The MD-37-SU100-VL module detector can be calibrated in terms of its absolute illuminance responsivity and relative spectral responsivity. Calibrations for combinations of the detector and the accessories are offered for the corresponding photometric measurands. Calibration is performed by the Gigahertz-Optik calibration laboratory for optical radiation measurands. The calibrations are documented in an individually compiled calibration certificate. The design and contents of the calibration certificate are in accordance with the ISO 17025 specifications.



MD-37-SU100-VL typical $V(\lambda)$ responsivity

Specifications






General	
Sensor	Si-photodiode with 9 mm x 9 mm $V(\lambda)$ correction filter
spectral responsivity	$V(\lambda)$, $f_1' \leq 6\%$
typical responsivity	22 nA/lx



Max. signal current	1 mA
min. signal current	depends on optometer
Miscellaneous	
temperature range	(5 - 40) °C
Connector	2m long coaxial cable Version -1, -2 and -4 plugs

Downloads

Type	Description	File-Type	Download
Drawing		pdf	http://www.gigahertz-optik.de/assets/Uploads/102617.pdf

Configurable with

Produktname	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	http://www.gigahertz-optik.de/en-us/product/P-9710
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.	http://www.gigahertz-optik.de/en-us/product/P-2000
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.	http://www.gigahertz-optik.de/en-us/product/P-9801
P-9802		Light meter for laboratory use with up to 36 measurement heads. Features: For use with up to 36 photometric and/or radiometric measurement heads. RS232 interface.	http://www.gigahertz-optik.de/en-us/product/P-9802
P-9202-4		Fast response time trans-impedance signal amplifier. Features: High quality analogue amplifier with current-voltage conversion. Minimal diode offset voltage for short circuit operations. Bandwidths of up to 330kHz. 1µs rise time. Large I-U amplification range from 10pA/V to 1mA/V.	http://www.gigahertz-optik.de/en-us/product/P-9202-4

Produktname	Product Image	Description	Show product
P-9202-5		<p>Universal trans-impedance signal amplifier.</p> <p>Features: High quality analogue amplifier with current-voltage conversion. Minimal diode offset voltage (1mV) for short circuit photodiode operations. 5µs to 20ms rise time depending on the amplification. Large I-U amplification range – 1×10-10A/V to 1×10-3 A/V.</p>	http://www.gigahertz-optik.de/en-us/product/P-9202-5
P-9202-6		<p>Highly sensitive trans-impedance signal amplifier.</p> <p>Features: High quality analogue amplifier with current-voltage conversion with minimal diode offset voltage (0.5mV) for short circuit photodiode operation of . 2.5s to 25s rise time depending on the amplification. Large I-U amplification range – 1×10-11A/V to 1×10-4 mA/V.</p>	http://www.gigahertz-optik.de/en-us/product/P-9202-6
SRT front adapters		<p>Screw adapter tubes with M30x1 threaded connection.</p> <p>Features: For use with 37mm type detectors. Field of view limitation.</p>	http://www.gigahertz-optik.de/en-us/product/SRT

Purchasing information

Article-Nr	Modell	Description
Product		
15297802	MD-37-SU100-VL-1	Module detector, 2m length connection cable with BNC plug
15297801	MD-37-SU100-VL-2	Module detector, 2m length connection cable with calibration data plug
15297947	MD-37-SU100-VL-4	Module detector, 2m length connection cable with ITT plug
Calibration		
15300657	KDW-P2-01	Calibration of the illuminance responsivity at about 1800lx and 2896K , calibration certificate
15300673	KDW-P2-02	Calibration at an additional different illuminance level
15300579	K-VIS-SR	Calibration of the relative spectral responsivity in VIS range
15300659	KDW-P3-01	Calibration of the luminance responsivity, calibration certificate
Options		
	Accessories	Accessories for illuminance measurement
15296141	MD-37Z-DR11	Screw cap (M30x1) with 11mmØ diffuser window (RADIN)
	L-accessories	Accessories for luminance measurement
15295665	SRT-M37L-1	Lens adapter with 1° measurement field angle, M30x1 thread connector
15295666	SRT-M37L-2	Lens adapter with 2° measurement field angle, M30x1 thread connector
15295668	SRT-M37L-5	Lens adapter with 5° measurement field angle, M30x1 thread connector

Article-Nr	Modell	Description
15295740	SRT-M37L-10	Lens adapter with 10° measurement field angle, M30x1 thread connector
15295950	SRT-M37Z01	Lens hood, M30x1 thread connector
15298108	SRT-M37-60L-n	Lens adapter with 50mm achromat, different measurement field angles, M30x1 thread connector
15296142	MD-37Z-H7	Front adapter 7mm high, M30x1 thread connector
15297700	MD-37Z-C8	Screw cap with 8mm opening, M30x1 thread connector
15296352	MD-37Z-C11	Schraubkappe mit 11mm Öffnung, M30x1 Gewindeanschluss
15296729	MD-37Z-FCF	Screw cap with 11mm opening, M30x1 thread connector
15295373	SRT-M37-50	Front adapter 50mm long, M30x1 threaded on both ends