

MD-37-SU100-VLS

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

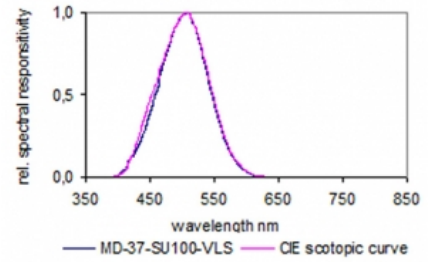
Product tags: VIS



Description

Modular light measurement technology

Some applications of light measurement technology require measuring instruments that are not available as standard. To simplify individual solutions Gigahertz-Optik GmbH offers a number of modular assemblies. These can be combined as needed.



typical $V(\lambda)$ responsivity

Photometric module detector

The high quality, large-area Si photodiode of the MD-37-SU100-VLS measuring head is carefully adapted to the scotopic DIN and CIE $V'(\lambda)$ curve by means of a multilayer optical correction filter. The $V'(\lambda)$ adaptation of the measuring head corresponds in total to the DIN 5032-7 quality class B.

Extensive accessories with M30x1 connection

Matching the MD-37-SU100-VLS module detector with its front-mounted M30x1 tapped hole, there are accessories that can be attached directly to the detector.

Use with all optometers

The detector can be combined with all optometers and light measuring devices from Gigahertz-Optik GmbH.

Traceable calibration

The MD-37-SU100-VLS module detector can be calibrated for absolute illuminance sensitivity and relative spectral sensitivity. In conjunction with accessories, calibrations are offered in the corresponding photometric quantities. The calibrations are carried out by the calibration laboratory for optical radiation of Gigahertz-Optik GmbH. The calibrations are documented in an individually prepared calibration certificate. The calibration certificate complies with the ISO 17025 specifications in terms of design and content.





Specifications

General	
Sensor	Si-photodiode with 9 x 9 mm V'(λ) correction filter
typical responsivity	8E-8 A/lx (scotopic)
Max. signal current	1 mA
Miscellaneous	
temperature range	+5 °C to +40 °C
Connector	2 m long coaxial cable Version -1, -2 and -4 plugs

Downloads

Type	Description	File-Type	Download
Drawing		pdf	http://www.gigahertz-optik.de/assets/Uploads/102619.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

Produktname	Product Image	Description	Show product
P-9202-4		<p>Fast response time trans-impedance signal amplifier.</p> <p>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.</p>	http://www.gigahertz-optik.de/en-us/product/P-9202-4
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 1×10⁻³A/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		
15298116	MD-37-SU100-VLS-1	Module detector, connection cable with BNC plug
15298114	MD-37-SU100-VLS-2	Module detector, connection cable with calibration data plug
15298115	MD-37-SU100-VLS-4	Module detector, 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		
	E accessories	Accessories for illuminance measurement
100905	MD-37Z-DR11	Screw cap (M30x1) with 11mmØ diffuser window (RADIN)
	L accessories	Accessories for luminance measurement
100428	SRT-M37L-1	Lens adapter with 1° measurement field angle, M30x1 thread connector

Article-Nr	Modell	Description
100429	SRT-M37L-2	Lens adapter with 2° measurement field angle, M30x1 thread connector
100499	SRT-M37L-10	Lens adapter with 10° measurement field angle, M30x1 thread connector
100707	SRT-M37Z01	Lens hood, M30x1 thread connector
15298108	SRT-M37-60L-n	Lens adapter with 50mm achromat, different measurement field angles, M30x1 thread connector
100906	MD-37Z-H7	Front adapter 7mm high, M30x1 thread connector
15297700	MD-37Z-C8	Screw cap with 8mm opening, M30x1 thread connector
101095	MD-37Z-C11	Schraubkappe mit 11mm Öffnung, M30x1 Gewindeanschluss
101451	MD-37Z-FCF	Screw cap with 11mm opening, M30x1 thread connector
100144	SRT-M37-50	Front adapter 50mm long, M30x1 threaded on both ends
100430	SRT-M37L-5	Lens adapter with 5° measurement field angle, M30x1 thread connector