ISD-10-VL

https://www.gigahertz-optik.com/en-us/product/isd-10-vl/

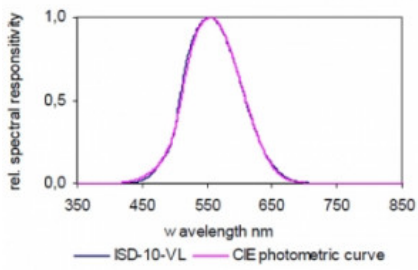
Product tags: VIS

Description

Compact Integrating Sphere Detector

The ISD-10-VL integrating sphere detector employs an 100 mm d/ 4 inch iameter Barium Sulfate (ODP97) coated integrating sphere with 15mm / 0.6 inch diameter measurement port and a photometric detector.

It's photometric detector is equipped with a diffuser so that the detector integrates reflected light from almost the complete integrating sphere surface. This greatly reduces hot spot effects caused by the first reflection of the light signal.



Typical Spectral Responsivity

Detector in “Shadow Position”

The detector is positioned close to the measurement port to produce a large acceptance angle within the sphere without direct irradiation of the detector.

Optional Fiber Connector

An optional SMA connector is available to add a spectrometer to the integrating sphere for relative spectral distribution measurement.

Optional Auxiliary Port

In applications where substitution errors by re-reflected light at the measurement port must be compensated an auxiliary port is optionally available.

Traceable Calibrations

Calibration of luminous flux sensitivity in lm is performed at Gigahertz-Optik’s Calibration Laboratory for Optical Radiation Quantities.

Specifications

Specification	
Spectral responsivity	photometric V(λ)
f1' (spectral mismatch)	f1 ≤ 5 %
Typical responsivity	9 nA/lm
Max. signal current	1 mA
Input optics	15 mm Ø
Input optics	100 mm

Coating	BaSO4		
Mounting	M6 thraded hole		
Sensor	VL-1101		
Connector	coaxial cable 2m Long, with BNC (-1), calibration data (-2) or ITT (-4) connector		
Temperature range	(5 - 40) °C		
min. signal current	depends on optometer		
Rise time	17 ns		
Measurement ranges	Version ISD-10-VL	min (0.1 pA NEI) 1.11E-05	max (200 µA) 2.22E+04

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/
TR-9600		High-Speed and Short Rise Time Data Logger Optometer (Transient Recorder Current Amplifier)	https://www.gigahertz-optik.com/en-us/product/tr-9600/
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/
P-9202-4		Fast response time trans-impedance signal amplifier	https://www.gigahertz-optik.com/en-us/product/p-9202-4/

Purchasing information

Article-Nr	Modell	Description
Product		
15298290	ISD-10-VL-1	Detector head with -1 connector, calibration certificate
15298291	ISD-10-VL-2	Detector head with -2 connector, calibration certificate
15298292	ISD-10-VL-4	Detector head with -4 connector, calibration certificate
Re-calibration		
15300238	K-ISD10VL-I	Re-calibration of integral luminous flux responsivity in A/lm with calibration certificate
15300579	K-VIS-SR	Re-calibration of the relative spectral responsivity
Options		
15298289	ISD-AUX	Auxiliary port with port plug
15298293	ISD-SMA	SMA port

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- After-Sales Support
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- Repairs & Updates
- OEM & Feasibility Consulting of Customized Solutions

Send us your inquiry or contact us by phone or e-mail. We would welcome your feedback too or review us on Google.

Gigahertz Optik GmbH (Headquarter)

Tel.: +49 (0)8193-93700-0
Fax: +49 (0)8193-93700-50
info@gigahertz-optik.de

An der Kaelberweide 12
82299 Tuerkenfeld, Germany

Gigahertz-Optik, Inc. (US office)

Phone: +1-978-462-1818
info-us@gigahertz-optik.com

Boston North Technology Park
Bldg B - Ste 205
Amesbury, MA 01913 USA