

ISD-15P-VL

<https://www.gigahertz-optik.com/en-us/product/isd-15p-vl/>

Product tags: VIS



Description

Six Inch Integrating Sphere Detector

The ISD-15P-VL integrating sphere detector with 150mm diameter integrating sphere with the synthetic coating ODM98 offers a 38,1 mm / 1,5 inch diameter measurement port and a photometric detector.

Synthetic Coating

Gigahertz-Optik's synthetic ODM98 coating offers almost perfect hemispherical diffuse reflection for best light distribution inside small size integrating spheres.

Synthetic Coating Baffle

The detector is baffled from direct radiation from the measurement port even in use with large disperse light beam sources such as endoscopes. The unique UMPB-ZB baffle design offers integrated diffuser channels to minimize hot spot effects caused by the first reflection of the light signal.

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

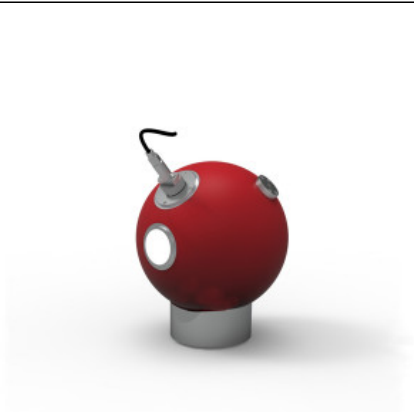
In applications where substitution errors by re-reflected light at the measurement port must be compensated for an auxiliary port is optionally available.

Traceable Calibrations

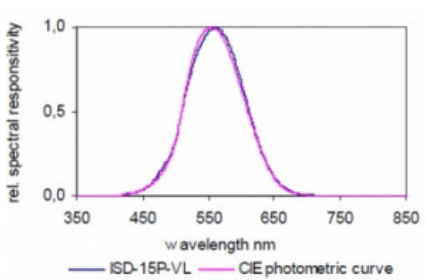
Calibration of luminous flux sensitivity in lm is performed at Gigahertz-Optik's Calibration Laboratory for Optical Radiation Quantities.

Specifications

Specification	
Spectral responsivity	photometric V(λ)
f1' (spectral mismatch)	f1 ≤ 5 %
Typical responsivity	4 nA/lm
Max. signal current	1 mA
Input optics	38,1 mm Ø (UMPF-1.5)





ISD-15P-VL configuration



Typical Spectral Responsivity

Sphere diameter	150 mm		
Coating	ODM98		
Mounting	base		
Detector port	UMPF-0.5 with baffle		
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-15P-VL	min (0.1 pA NEI) 2.50E-05	max (200 µA) 5.00E+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/
P-2000		Two-Channel Optometer	https://www.gigahertz-optik.com/en-us/product/p-2000/

Purchasing information

Article-Nr	Modell	Description
Product		
15298297	ISD-15P-VL-1	Detector head with -1 connector, calibration certificate
15298298	ISD-15P-VL-2	Detector head with -2 connector, calibration certificate
15298299	ISD-15P-VL-4	Detector head with -4 connector, calibration certificate
Re-calibration		
15300240	K-ISD15PVL-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		

Article-Nr	Modell	Description
15298289	ISD-AUX	Auxiliary port with port plug
15298293	ISD-SMA	SMA port

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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