ISD-5-VISNIR

https://www.gigahertz-optik.com/en-us/product/isd-5-visnir/

Product tags: VIS, NIR

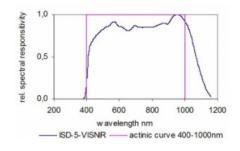


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Description

Compact Integrating Sphere Detector

The ISD-5-VISNIR integrating sphere detector employs a 50 mm / 2 inch diameter Barium Sulfate (ODP97) coated integrating sphere with 12.7 mm / 0.5 inch diameter measurement port and a (400-1100) nm radiometric detector.



Typical Spectral Responsivity

Diffuser Window

The sphere mounted photometric sensor is equipped with a diffusor 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.

Baffle

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

Traceable calibration

Calibration of radiant power responsivity in W is performed at Gigahertz-Optik's Calibration Laboratory for Optical Radiation Quantities.

Specifications

Calibration			
Calibration	Calibration of integral radiant power responsivity in A/W		
Specification			
Spectral responsivity	400 nm - 1100 nm radiometric		
Typical responsivity	1.14 mA/W		
max. Radiant Power (Peak)	Power 800 mW 160 mW	Current 1 mA 200 μA	
max. Radiant Power (CW)	may be limited by max. operation temperature		
Max. signal current	1 mA		
Input optics	12.7 mm Ø		
Sphere diameter	50 mm		
Coating	BaSO ₄		

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Miscellaneous	
Mounting	M6 threaded hole
Connector	coaxial cable 2 m Long, with BNC (-1), calibration data (-2) or ITT (-4) connector
Temperature range	(5 - 40) °C

Configurable with

Product Name	Product Image	Description	Go to product
P-9710	O PROPERTY OF THE PARTY OF THE	High-End Optometer for Measurement of CW-, Single Pulse and Modulated Radiation	https://www.gigahertz- optik.com/en- us/product/p-9710/
X9-4		Broadband light meter for for luminous flux and radiant power. Features: Mobile light meter. Integrating sphere detectors with photometric or radiometric 400-1000nm responsivity. Integrating spheres with 50mm dia. For use with polychromatic radiation sources.	https://www.gigahertz- optik.com/en- us/product/x9sub4sub /

Purchasing information

Article-Nr	Modell	Description
Product		
15298315	ISD-5-VISNIR-1	Detector head with -1 connector, calibration certificate
15298316	ISD-5-VISNIR-2	Detector head with -2 connector, calibration certificate
102841-4	ISD-5-VISNIR-4	Detector head with -4 connector, calibration certificate
Re-calibration		
15300248	K-ISD5VISNIR-I	Re-calibration of integral luminous flux responsivity in A/W with calibration certificate
15300580	K-Si-SR	Re-calibration of the relative spectral responsivity

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