

ISD-3P-Si

<https://www.gigahertz-optik.com/en-us/product/isd-3p-si/>

Product tags: VIS , NIR

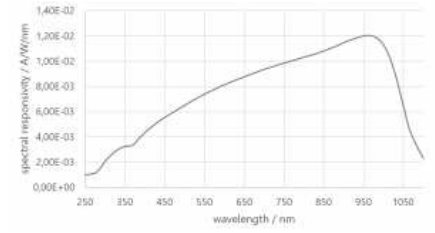


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Description

Integrating Sphere Detector

The ISD-3P-Si integrating sphere detector employ a 30 mm diameter ODM98 coated integrating sphere with 5mm diameter measurement port. The unique collar baffle limits direct irradiation of the detector from dispersed light. The collar baffle enables optional detector ports to be added for additional detectors, fiber connectors or auxiliary use. The ISD-3P-Si features a Si photodiode detector for use in the spectral range from 400 to 1100nm spectral range.



Typical Spectral Responsivity

Synthetic Coating

Gigahertz-Optik's synthetic ODM98 coating offers almost perfect hemispherical diffuse reflection for best light distribution inside the sphere.

Traceable Calibrations

Calibration of spectral radiant power sensitivity in W is performed in 10 nm steps from 400 to 1100 nm at Gigahertz-Optik's Calibration Laboratory for Optical Radiation Quantities.

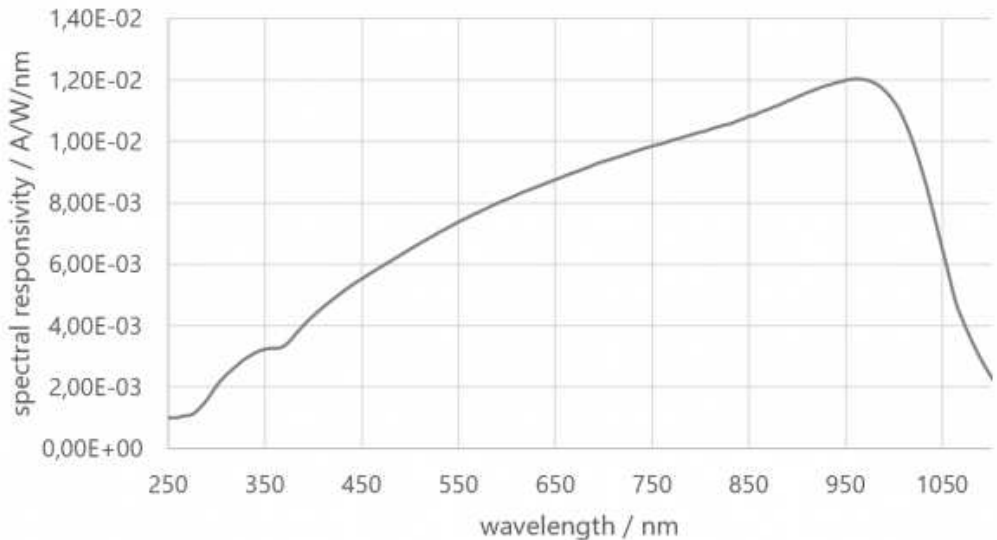
Specifications

Calibration

Calibration of spectral radiant power responsivity in A/W in 10nm steps from 400 nm - 1100 nm

Specification





Spectral range	400 nm - 1100 nm radiometric		
Typical responsivity	8.5E-03 A/W @ 630 nm		
	1.15E-02 A/W @ 900 nm		
	(attenuation possible)		
Measurement ranges	Sensor	min (0.1 pA NEI)	max (200 μ A)
	ISD-3P-Si @ 600 nm	1.18E-11	2.35E-02
	ISD-3P-Si @ 900 nm	8.70E-12	1.74E-02
	(attenuation is possible)		
max. Radiant Power (CW)	may be limited by max. operation temperature		
Max. signal current	1 mA		
Input optics	5 mm \varnothing		
Sphere diameter	30 mm		
Coating	synthetic ODM98		
Sensor	Si photodiode		


Spectral range	(400 - 1100) nm
Rise time	0.1 μ s
Spectral responsivity	

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		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-2000		Two-Channel Optometer	https://www.gigahertz-optik.com/en-us/product/p-2000/

Product Name	Product Image	Description	Go to product
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		
15298321	ISD-3P-Si-1	Detector head with -1 connector, calibration certificate
15298322	ISD-3P-Si-2	Detector head with -2 connector, calibration certificate
15298323	ISD-3P-Si-3	Detector head with -4 connector, calibration certificate
Re-calibration		
15300251	K-ISD3PSi-SD	Re-calibration of spectral radiant power responsivity in A/W with calibration certificate
Options		
101219	UM-DP-11	additional detector port
Accessories		
100929	UFC-11-SMA	SMA connector

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