

XD-9501

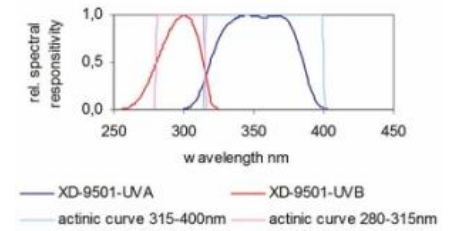
<https://www.gigahertz-optik.de/en-us/product/XD-9501>

Product tags: UV



Description

Ultraviolet radiation is used in the treatment of certain skin diseases like Psoriasis and for photobiological studies like SPF testing. Measuring the source irradiance or energy is required for accurate dosimetry and safety purposes. Typical wavelength ranges of interest are UV-A: 320nm - 400 nm, UV-B: 280 nm - 320 nm and UV-B: 311 nm. The two cell XD-9501 detector includes filtered detectors for both the UV-A and UV-B spectral ranges and a cosine corrected field of view.



XD-9501 Typical Spectral Response

Traceable calibration

Calibration of the detector UV-A and UV-B (W/m^2) responsivity is performed by the Gigahertz-Optik GmbH calibration laboratory for optical radiation measurements quantities. As with all light detectors supplied by Gigahertz-Optik calibration of absolute detector responsivity as well as detector individual measured relative spectral responsivity data is included.






Recommended Optometer

X1₁, X1₂

Specifications

Specification	
spectral responsivity	Ch 1: UV-A 315 nm - 400 nm Ch 2: UV-B 280 nm - 315 nm
typical responsivity	17 nA/(W/m ²) 2.5 nA/(W/m ²)
Max. signal current	100 μ A 50 μ A
Input optics	8 mm \varnothing Diffuser
Miscellaneous	
temperature range	(5 - 40) °C
Cable Length	2 m
Plug Types	-4

Configurable with

Produktname	Product Image	Description	Show product
X1		<p>Four-channel USB optometer designed for mobile use.</p> <p>Features: Compact device for use with all photometric, radiometric, colorimetric, plant-physiologic and photo-biologic measurement heads from Gigahertz-Optik. USB interface. Battery operation or power supply USB.</p>	https://www.gigahertz-optik.de/en-us/product/X1
X1-RM		<p>Optometer in 3HE housing for use in 19" racks.</p> <p>Features: Its USB and RS232 remote interface and two additional RS232 device interfaces make the device highly flexible when it comes to system integration. Its four signal inputs enable use with all photometric, radiometric, colorimetric, plant-physiologic and photo-biologic measurement heads from Gigahertz-Optik.</p>	https://www.gigahertz-optik.de/en-us/product/X1-RM
X1-2		<p>Four-channel RS232 optometer designed for mobile use.</p> <p>Features: Compact device for use with all photometric, radiometric, colorimetric, plant-physiologic and photo-biologic measurement heads from Gigahertz-Optik. USB and RS232 interface. Battery operation or power supply USB.</p>	https://www.gigahertz-optik.de/en-us/product/X1-2
X1-PCBC		<p>Optometer module.</p> <p>Feature: The X1 optometer is available as a printed circuit board either with or without a housing and is suited for applications that do not require a keyboard or display. Four signal inputs enable connection with all measuring heads from Gigahertz-Optik.</p>	https://www.gigahertz-optik.de/en-us/product/X1-PCBC
X1-PCB		<p>Optometer module.</p> <p>Feature: The X1 optometer is available as a printed circuit board either with or without a housing and is suited for applications that do not require a keyboard or display. Four signal inputs enable connection with all measuring heads from Gigahertz-Optik.</p>	https://www.gigahertz-optik.de/en-us/product/X1-PCB

Purchasing information

Article-Nr	Modell	Description
Product		
15295881	XD-9501 (-4 Connector)	Detector, Calibration Certificate
15300111	K-XD9501-I	Recalibration with Calibration Certificate
Calibration		
15300493	K-FOV-02	Measurement of two-cell UV Irradiance detectors cosine field of view function
Re-calibration		
15300571	K-UV-SR	Calibration of relative spectral responsivity from 250 nm to 550 nm