

XD-9501

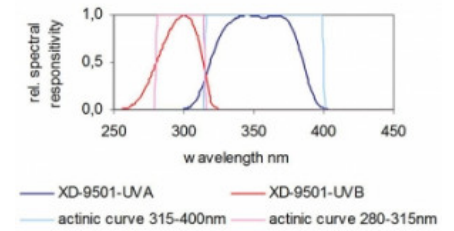
<https://www.gigahertz-optik.com/en-us/product/xd-9501/>

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/m²)
2.5 nA/(W/m²)

Max. signal current 100 μ A
50 μ A

Input optics 8 mm \varnothing Diffuser


Miscellaneous

temperature range (5 - 40) $^{\circ}$ C

Cable Length 2 m

Plug Types -4

Configurable with

| Product Name | Product Image | Description | Go to product |
|--------------|---|---|---|
| X9-6 |  | UV-A and UV-B broadband radiometer. Features: Mobile meter. Detector head for UV-A and UV-B irradiance from polychromatic UV sources and UV-B311nm irradiance from TL-01 radiation sources in phototherapy. | https://www.gigahertz-optik.com/en-us/product/x9sub6sub/ |

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 |