

# XD-9503

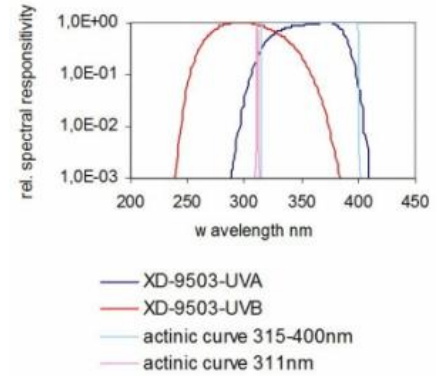
<https://www.gigahertz-optik.de/en-us/product/XD-9503>

**Product tags: UV**



## Description

TL01 and TL12 light sources are widely used in phototherapy applications. The phototherapeutic effective radiation of the TL01 and TL12 source falls within the 240 nm to 340 nm bandpass with peak at 313 nm. The XD-9503 is specially designed to measure the therapeutic effective UV-B and UV-A irradiance of TL01 and TL12 light sources. The detectors spectral sensitivity functions and calibration using TL1 and TL12 light sources ensure accurate readings.



## Traceable calibration

Calibration of the detector UV-A and UV-B effective ( $W/m^2$ ) 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.

*XD-9503-4 - Typical Spectral Response*






## Recommended Optometer

X1<sub>1</sub>

## Specifications

Specification	
spectral responsivity	Ch 1: UV-A Peak 380 nm: (315 - 400) nm Ch 2: UV-B Peak 311 nm: (280 - 315) nm
typical responsivity	7 nA/(W/m <sup>2</sup> ) 9 nA/(W/m <sup>2</sup> )
Max. signal current	100 $\mu$ A 50 $\mu$ A
Input optics	8 mm $\varnothing$ Diffuser
Miscellaneous	
temperature range	(5 - 40) $^{\circ}$ 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>	<a href="https://www.gigahertz-optik.de/en-us/product/X1">https://www.gigahertz-optik.de/en-us/product/X1</a>
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>	<a href="https://www.gigahertz-optik.de/en-us/product/X1-RM">https://www.gigahertz-optik.de/en-us/product/X1-RM</a>
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>	<a href="https://www.gigahertz-optik.de/en-us/product/X1-2">https://www.gigahertz-optik.de/en-us/product/X1-2</a>
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>	<a href="https://www.gigahertz-optik.de/en-us/product/X1-PCBC">https://www.gigahertz-optik.de/en-us/product/X1-PCBC</a>
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>	<a href="https://www.gigahertz-optik.de/en-us/product/X1-PCB">https://www.gigahertz-optik.de/en-us/product/X1-PCB</a>

## Purchasing information

Article-Nr	Modell	Description
<b>Product</b>		
15300371	K-XD9503-I	Recalibration with Calibration Certificate
<b>Calibration</b>		
15300493	K-FOV-02	Measurement of two-cell UV Irradiance detectors cosine field of view function
<b>Re-calibration</b>		
15300571	K-UV-SR	Calibration of relative spectral responsivity from 250 nm to 550nm
15295883	XD-9503 (-4 Connector)	Detector, Calibration Certificate