UV-3725

https://www.gigahertz-optik.com/en-us/product/uv-3725/

Product tags: UV

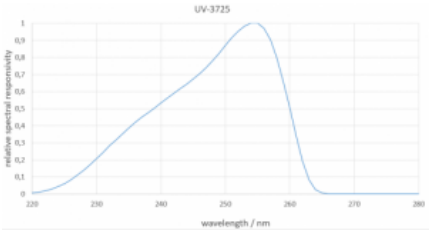
Description

The detector head UV-3725 is designed for the measurement of UV-C 254 nm radiation sources used in air disinfection. The UV-C radiation of air disinfection installations must be measured under the aspects of effectiv irradiance levels as well as under UV hazard aspects.

Detector for UV-C 254 nm irradiance with FOV 80°

Designed for wide dynamic

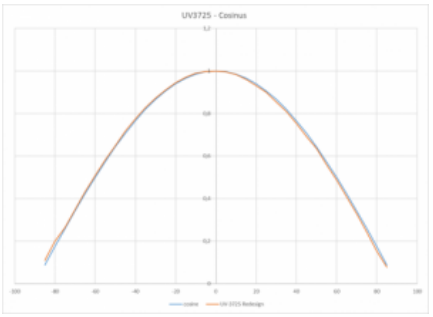
The UV-3725 detector is designed for the highest possible UV-C 254 nm irradiance sensitivity to fulfill the Need in UV hazard applications. However the wide range linearity of the photodiodes coupled with the Gigahertz-Optik optometers's wide dynamic signal range amplifiers enable the UV-3725 detector to be used in applications with high irradiances as well.



Typical spectral responsivity of UV-3725 detector

Cosine Field-of-View

The wide angle cosine F.O.V. characteristic of the detectors spatial responsivity specifies it for stray light UV hazard measurements.



Typical field of view with excellent cosine correction

Pre-aged components

All optical and optoelectronic components of the UV-3725 detector pre-aged by UV-C Radiation for extended long time stability.

Compact housing

The UV-3725 irradiance detector is built in a compact 37 mm diameter natural anodized aluminum housing.

Traceable calibrations

Calibration of irradiance in W/m² and/or W/cm² as well as the detector's relative spectral responsivity is performed at Gigahertz-Optik's Calibration Laboratory. Beside the regular calibration with spectral broadband reference lamps alternative calibrations with monochromatic or custom type reference lamps can be supplied as an option. The calibration and its traceability are confirmed in the calibration certificate supplied with each detector.

80° FOV

Specifications

General	
UV-3725	Detector for the measurement of UV-C 254 nm irradiance in air disinfection applications
Calibration	
Calibration	Calibration of irradiance responsivity in A/(W/m²) using a monochromatic 254 nm reference lamp.
Specification	
Spectral responsivity	UV-C 254 nm
Typical responsivity	UVC @254nm radiometric: 5E-5 A/(W/cm²)
Max. signal current	50 µA
Input optics	8 mm Ø diffusor window, f2 ≤ 3 %
Housing	37 mm Ø, 21 mm height
Connector	coaxial cable 2m Long, with BNC (-1), calibration data (-2), ITT (-4) or ITT Calibration Data (-5) connector. Flexible metal tube Information about the individual connectors can be found here under “More info”
Temperature range	(5 - 40) °C temperature coefficient: -0.0595 %/K
min. signal current	depends on optometer

Downloads

Type	Description	File-Type	Download
Drawing	UV-3725	pdf	https://www.gigahertz-optik.com/assets/V127944.pdf
Drawing	UV-37xx-Z02	pdf	https://www.gigahertz-optik.com/assets/Uploads/V127915.pdf

Configurable with

Product Name	Product Image	Description	Go to product
X1		Four-Channel USB Optometer, Respectively Current Amplifier, Designed for Photometric and Radiometric Detectors for Mobile-Use	https://www.gigahertz-optik.com/en-us/product/x1/

Product Name	Product Image	Description	Go to product
X1-RM		Optometer in 3HE Housing for use in 19” Racks	https://www.gigahertz-optik.com/en-us/product/x1-rm/
X1-PCBCL		Optometer respectively Current Amplifier Module with 4 Input Channels and 7 Gain Ranges	https://www.gigahertz-optik.com/en-us/product/x1-pcb/
X1-PCBCL		Optometer module with 4 channels based on X1 technologie	https://www.gigahertz-optik.com/en-us/product/x1-pcbc/
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-9801		8-Channel High Class Current Amplifier/Optometer	https://www.gigahertz-optik.com/en-us/product/p-9801/
P-2000		Two-Channel Optometer	https://www.gigahertz-optik.com/en-us/product/p-2000/
P-9710		High-End Optometer for Measurement of CW-, Single Pulse and Modulated Radiation	https://www.gigahertz-optik.com/en-us/product/p-9710/
LCR-20/LCR-21		Light-reflection hand-held meter series for flat samples, UV reflection measurements	https://www.gigahertz-optik.com/en-us/product/lcr-20/
P-21		Multi-Purpose Touchscreen Optometer for Measurement of CW-, Single Pulse and Modulated Radiation in any Photometric and Radiometric Application	https://www.gigahertz-optik.com/en-us/product/p-21/

Purchasing information

Article-Nr	Modell	Description
Product		
15298463	UV-3725-1	Detector with -1 type connector. Calibration with factory calibration certificate.
15298464	UV-3725-2	Detector with -2 type connector. Calibration with factory calibration certificate.
15298465	UV-3725-4	Detector with -4 type connector. Calibration with factory calibration certificate.
15312097	UV-3725-5	Detector with -5 type connector. Calibration with factory calibration certificate.
15312791	UV-37xx-Z01	80° Field of View Adapter
15312782	UV-37xx-Z02	Bracket to mount UV-3725 detector head on M6 threads.
Calibration		
15312240	KP-UV3725X1-E-I	Option: DIN EN ISO/IEC 17025 Test Certificate (DAkkS) for 254 nm Hg lamps. In combination with X1 optometer.
15312241	KP-UV3725P9710-E-I	Option: DIN EN ISO/IEC 17025 Test Certificate (DAkkS) for 254 nm Hg lamps. Contact sales team for other wavelength options. In combination with P9710 optometer.
Re-calibration		
15300518	K-UV3725-S	Re-calibration of integral irradiance responsivity in A/(W/m²) at 254nm with calibration certificate.
15300571	K-UV-SR	Re-calibration of the relative spectral responsivity.
15312239	KKP-UV3725X1-E-I	DIN EN ISO/IEC 17025 Test Certificate (DAkkS) for 254 nm Hg lamps. Contact sales team for other wavelength options. Includes factory calibration. In combination with X1 optometer.
15312242	KKP-UV3725P9710-E-I	DIN EN ISO/IEC 17025 Test Certificate (DAkkS) for 254 nm Hg lamps. Contact sales team for other wavelength options. Includes factory calibration. In combination with P9710 optometer.

Contact, Calibration, Service & Support

We are known worldwide for excellent technical consulting and after sales support. Contact us to find together the best solution for you. Our services:

- Technical Consulting & Sales
- After-Sales Support
- Calibrations & Re-Calibrations (ISO/IEC 17025 Calibration Services, factory calibration, Calibration of Third-Party Products)
- Repairs & Updates
- OEM & Feasibility Consulting of Customized Solutions

Send us your inquiry or contact us by phone or e-mail. We would welcome your feedback too or review us on Google.

Gigahertz Optik GmbH (Headquarter)

Tel.: +49 (0)8193-93700-0
Fax: +49 (0)8193-93700-50
info@gigahertz-optik.de

An der Kaelberweide 12
82299 Tuerkenfeld, Germany

Gigahertz-Optik, Inc. (US office)

Phone: +1-978-462-1818
info-us@gigahertz-optik.com

Boston North Technology Park
Bldg B - Ste 205
Amesbury, MA 01913 USA