

VL-3704

<https://www.gigahertz-optik.com/en-us/product/vl-3704/>

Product tags: VIS ,



Description

VL-3704 Detector

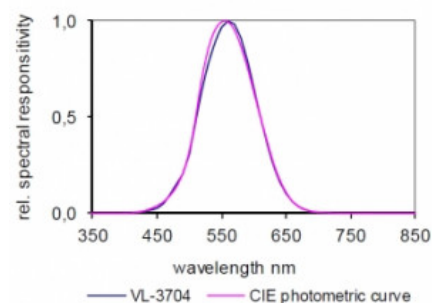
The VL-3704 is a reasonably priced illuminance measurement head whose photometric responsivity and cosine field of view correspond to the DIN 5032 - Article 7 quality class B. The detector can be combined with all optometers and light meters from Gigahertz-Optik.

Traceable Calibration

The VL-3704 is calibrated in terms of its absolute illuminance responsivity and relative spectral responsivity by the Gigahertz-Optik calibration laboratory for optical radiation measurands. The calibrations are documented in an individually compiled calibration certificate. The design and contents of the calibration certificate are in accordance with the ISO 17025 specifications.



detector for photopic illuminance



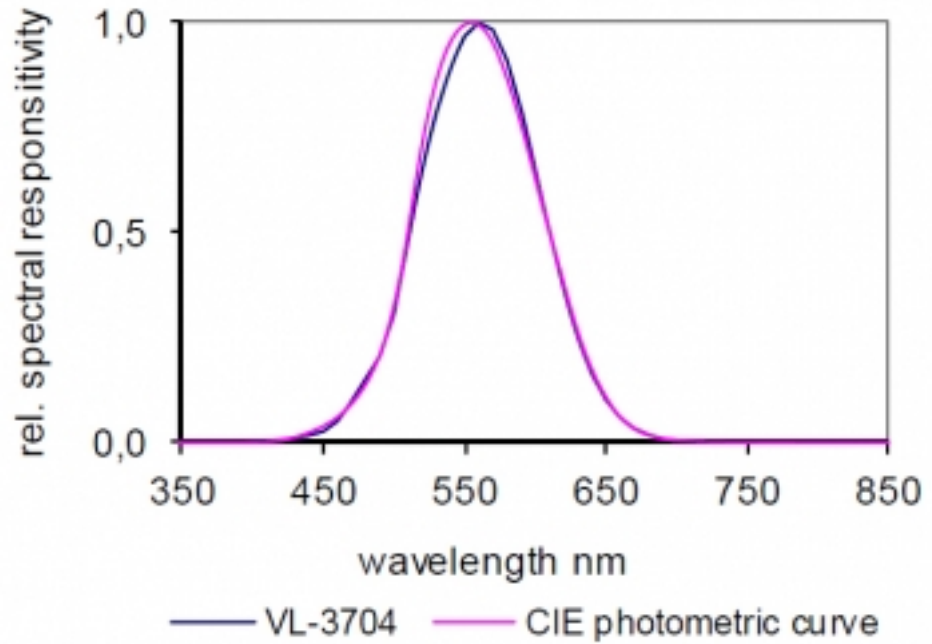
VL-3704 typical $V(\lambda)$ responsivity

Specifications

Specification

Spectral responsivity	photometric $V(\lambda)$
f1' (spectral mismatch)	$f1' \leq 5 \%$
Typical responsivity	20 pA/lx
Max. signal current	1 mA
Input optics	Diffuser window 7 mmØ
f2 (directional response/cosine error)	$f2 \leq 3 \%$
Connector	coaxial cable 2m Long, with BNC (-1), calibration data (-2), ITT (-4) or ITT Calibration Data (-5) connector Information about the individual connectors can be found here under "More info"
Temperature range	(5 - 40) °C

Spectral responsivity



min. signal current	depends on optometer		
Rise time	18 ns		
Measurement range	Sensor VL-3704	min (0.1 pA NEI) 5.00E-03	max (200 μA) 1.00E+07

Options

Accessories WQ: Optional waterproof retrofitting of the VL-3704 detector using quartz dome and o-ring reinforcement of the base plate.

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/
GB-GD-360-RB40		Goniometer for the measurement of 2π sources	https://www.gigahertz-optik.com/en-us/product/gb-gd-360-rb40/
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/
X9-1		Photometer for illuminance and luminance. Features: Mobile light meter with illuminance and luminance detector for use with polychromatic radiation sources. X9-1-US version for measurement of the illuminance in fc and luminance in fL.	https://www.gigahertz-optik.com/en-us/product/x9sub1sub/
PFL-200		Fast Flicker Meter (amplifier) for photodiode detectors with BNC connector	https://www.gigahertz-optik.com/en-us/product/pfl-200/

Purchasing information

Article-Nr	Modell	Description
Product		
15296513	VL-3704-1	Detector with -1 connector, protective cap, calibration certificate

Article-Nr	Modell	Description
15297140	VL-3704-2	Detector with -2 connector, protective cap, calibration certificate
15297142	VL-3704-4	Detector with -4 connector, protective cap, calibration certificate
15312724	VL-3704-5	Detector with -5 connector, protective cap, calibration certificate
Calibration		
15300577	K-FOV	Calibration, calibration certificate
15300178	K-SAZ-08	Simulated calibration correction factors for visible LED sources out of the Gigahertz-Optik GmbH lamp emission spectrum database. Monochromatic LEDs in 10nm steps and white LEDs.
Re-calibration		
15300692	K-VL3704-I	Re-calibration, calibration certificate
15300580	K-SI-SR	Re-calibration, only together with K-RW-3701-I
15311454	KKP-VL3704X9-E-I	Factory Calibration Certificate with DIN EN ISO/IEC 17025:2018 Test Certificate. Current calibration and adjustment of Gigahertz-Optik´s optometer X9. Illuminance sensitivity calibration of VL-3704 detector.
Options		
100150	/WQ	Optional waterproof retrofitting

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- 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

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