

# VL-3701 with SRT-M37-L

[https://www.gigahertz-optik.com/en-us/product/vl-3701 with srt-m37-l](https://www.gigahertz-optik.com/en-us/product/vl-3701%20with%20srt-m37-l)

**Product tags:** VIS



# Description

## Illuminance and luminance measurement

The VL-3701 is a detector for precise illuminance measurements in Lux. Its application potential can be enhanced using an SRT-M37-L series front lens adapters so as to measure the luminance in cd/m². Since measurement field focusing is hereby not possible, this combination is mostly applicable for extensive illumination fields e.g. light boxes.



Front lens adapter vor VL-37  
detector heads

## Easy set-up

In order to fix the SRT-M37L lens adapter onto the VL-3701 measurement head, the SRT-M45/37 adapter is required. This is attached onto the measurement head using side screws. For secure fitting, the lock screws fix into the V-nut on the measurement head. The lens adapter can then be simply screwed in. The SRT-M45/37B adapter has an M6 and a (1/4"-20 BSW) tripod screw on the side for mounting to tripods and others.

## 1° to 5° Field-of-View angle

Lens adapters with 1°, 2°, and 5° FOV angles are hereby offered.

## Traceable calibrations

Luminance responsivity calibration can be performed by Gigahertz-Optik's calibration laboratory for optical measurands. Calibration is validated by a calibration certificate.




# Specifications

Product	
Max. signal current	1 mA
Specification	
Lens diameter	22.4 mm
typical responsivity	VL-3701 with SRT-M37L-1
	Field-of-View 1°
	Typical luminance responsivity 1.2 pA/(cd/m²)
	VL-3701 with SRT-M37L-2
	Field-of-View 2°
	Typical luminance responsivity 5 pA/(cd/m²)
	VL-3701 with SRT-M37L-5
	Field-of-View 5°
	Typical luminance responsivity 30 pA/(cd/m²)
Miscellaneous	
Cable Length	2 m

temperature range	(5 - 40) °C
Plug Types	-1, -2 or -4
<b>Options</b>	
SRT-M45/37B	Needed to mount SRT-M37L lens adapter to the detector head VL-3701
SRT-M37Z-01	Ambient light shad made by elastic rubber to be used with SRT-M37L front lens adapter. Recommend for contact measurements as well.

## Configurable with

Product Name	Product Image	Description	Show product
P-9710-2		High quality optometer for pulse-energy measurements of short pulses in photometric, radiometric and LASER application. Features: pulse energy measurement, CW, dose, simple and safe detector exchange, battery, main power, RS232	<a href="https://www.gigahertz-optik.com/en-us/product/p-9710-2">https://www.gigahertz-optik.com/en-us/product/p-9710-2</a>
P-9710-4		High quality optometer for pulse-energy measurements of short pulses in photometric, radiometric and LASER application. Features: pulse energy measurement with external Trigger input, CW, dose, simple and safe detector exchange, battery, main power, RS232	<a href="https://www.gigahertz-optik.com/en-us/product/p-9710-4">https://www.gigahertz-optik.com/en-us/product/p-9710-4</a>
X1		Four-channel USB optometer designed for mobile use. 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.	<a href="https://www.gigahertz-optik.com/en-us/product/x1">https://www.gigahertz-optik.com/en-us/product/x1</a>
X1-2		Four-channel RS232 optometer designed for mobile use. 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.	<a href="https://www.gigahertz-optik.com/en-us/product/x1-2">https://www.gigahertz-optik.com/en-us/product/x1-2</a>
X1-RM		Optometer in 3HE housing for use in 19" racks. 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.	<a href="https://www.gigahertz-optik.com/en-us/product/x1-rm">https://www.gigahertz-optik.com/en-us/product/x1-rm</a>
X1-PCB		Optometer module. 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.	<a href="https://www.gigahertz-optik.com/en-us/product/x1-pcb">https://www.gigahertz-optik.com/en-us/product/x1-pcb</a>
X1-PCBC		Optometer module. 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.	<a href="https://www.gigahertz-optik.com/en-us/product/x1-pcbc">https://www.gigahertz-optik.com/en-us/product/x1-pcbc</a>

Product Name	Product Image	Description	Show product
TR-9600		High-speed 1µs or 100ns rise time data logger optometer. Features: Laboratory device for recording of clocked intensity progress readings in single light flashes, flash sequence or modulated light. Calculation of pulse data e.g. peak intensity, pulse length, pulse half width , pulse energy and pulse repeat rate, etc.	<a href="https://www.gigahertz-optik.com/en-us/product/tr-9600">https://www.gigahertz-optik.com/en-us/product/tr-9600</a>
P-9801		Eight-channel optometer. Features: State-of-the-art 8 channel laboratory optometer with a signal amplifier and sample & hold ADC per channel for clocked recording of the measurement signals. RS232 and IEEE488 interface. Trigger input and output.	<a href="https://www.gigahertz-optik.com/en-us/product/p-9801">https://www.gigahertz-optik.com/en-us/product/p-9801</a>
P-9710		High-quality device for measurement of CW-, single pulse and modulated radiation. Features: Optometer for all detector heads with calibration data plug. Measurement modes: CW, pulse energy, dose, peak-to-peak, effective luminous intensity (Blondel-Rey), data logger, battery, main power, RS232	<a href="https://www.gigahertz-optik.com/en-us/product/p-9710">https://www.gigahertz-optik.com/en-us/product/p-9710</a>

## Purchasing information

Article-Nr	Modell	Description
<b>Product</b>		
15295230	VL-3701-1	Detector with –1 connector, protective cap, calibration certificate
15295224	VL-3701-2	Detector head with –4 connector, protective cap, calibration certificate
15297138	VL-3701-4	Detector head with –4 connector, protective cap, calibration certificate
<b>Calibration</b>		
15300659	KDW-P3-01	Calibration of the luminance responsivity with detector head VL-3701
15312269	KP-VL3701P9710SRTM37-L-I	Option: DIN EN ISO/IEC 17025:2018 Test Certificate (DAkks).  Measurement of luminance responsivity. In combination with P-9710 optometer and SRT-M37-L lens.
15311943	KP-VL3701X1SRTM37-L-I	Option: DIN EN ISO/IEC 17025:2018 Test Certificate (DAkks).  Measurement of luminance responsivity. In combination with X1 optometer and SRT-M37-L lens.
<b>Re-calibration</b>		
15311942	KKP-VL3701X1SRTM37-L-I	Factory Calibration Certificate with DIN EN ISO/IEC 17025:2018 Test Certificate.  Measurement of luminance responsivity. In combination with X1 optometer and SRT-M37-L lens.
15312268	KKP-VL3701P9710SRTM37-L-I	Factory Calibration Certificate with DIN EN ISO/IEC 17025:2018 Test Certificate.  Measurement of luminance responsivity. In combination with P-9710 optometer and SRT-M37-L lens.

Article-Nr	Modell	Description
<b>Miscellaneous</b>		
15295950	SRT-M37Z-01	Ambient light shade
<b>Options</b>		
15295664	SRT-M45/37B	Adapter with M30x1 thread for the usage with 37mm and 45mm Diameter detector heads
15295665	SRT-M37L-1	1° FOV front lens
15295666	SRT-M37L-2	2° FOV front lens
15295668	SRT-M37L-5	5° FOV front lens