GB-GD-360-RB40

http://www.gigahertz-optik.de/en-us/product/GB-GD-360-RB40

Product tags:

Description

GB-GD-360-RB40 goniometer for 2π sources

GB-GD-360-RB40

Measurement of Radiant Intensity / Luminous Intensity

Irradiance/Illluminance detectors such us Gigahertz-Optik's RW-37, UV-37, PD-9304, PD-9304 with PD-93RW can be used to measure radiant/luminous intensity of spot sources by converting measured irradiance by the inverse square law.

Measurement of Radiant Intensity / Luminous Intensity Distribution

Combined with the GB-GD-360-RB40 goniometer bench irradiance/illuminance detectors can also be used to measure the radiant/luminous intensity distribution of hemispherical emitting (2π) light sources.

Variable Measurement Distance

The GB-GD-360-RB40 goniometer is set-up with a up to three meter long rail benches (other sizes on request). Adjustment of the measurement distance between test source and detector from 100 mm to about 3 m is possible. This unique feature enables spatial distribution measurement of single LEDs as well as of larger size LED matrices or luminaires.

Remote Control Operation

Goniometer and light meter are remote PC controlled by Gigahertz-Optik's S-XX software (e.g. S-BTS2048). The measurement sequence can be set in symmetrical or individual steps. Measurement data includes the spatial radiant intensity and data transfer into IES and EULUMDAT format. Also total radiant power or total luminous flux is calculated from the accumulated radiant/luminous intensity distribution data. Furhtermore 2D polar plots or 3D intensity distribution plots are available.

For more detailed information on the software and hardware please refer to their respective datasheets.

Specifications

	Product
Measurement distance	GB-GD-360-RB40-1: (100 to 900) mm GB-GD-360-RB40-2: (100 to 1900) mm GB-GD-360-RB40-3: (100 to 2900) mm
max. sample length	100 mm
Horizontal Resolution	0.1°
Axial Resolution	0.2°
max. load	1.5 kg
Interface	RS232/RS485

Configurable with

Produktname	Product Image	Description	Show product
BTS256-LED-DA		Compact Bi-Tec measurement device for the measurement of illuminance and luminous flux. Features: Bajonett adapter with diffusor for the BTS256-LED, +/- 30° cosine corrected field of view, spectral radiant power, color temperature, CRI, chromaticity coordinates, etc.	http://www.gigahertz-optik.de/en-us/product/BTS256-LED-DA
BTS256-E		Mobile meter for the measurement of illuminance and light color. Features: Mobile meter, datalogger, splash-proof, spectral irradiance, photopic, scotopic and melanopic illuminance, spectral irradiance, CCT, CRI, color coordinates, Option: WiFi, etc.	http://www.gigahertz-optik.de/en-us/product/BTS256-E
BTS2048-VL		Bi-technology sensor light meter for high speed LED binning. Features: High spectral resolution, short measurement time (electronic shutter), high dynamic (filter wheel), Trigger input and output, entrance optic with diffusor for illuminance and spectral irradiance, CCT, CRI, color values, etc.	http://www.gigahertz-optik.de/en-us/product/BTS2048-VL
VL-3701		Detector head for the measurement of photopic illuminance in Lux [lx]. Features: f1 ≤ 3 %, f2 ≤ 1.5 %, 0.5 nA/lx, 20mm height, for the usage with Optometers and amplifiers, calibration certificate	http://www.gigahertz-optik.de/en-us/product/VL-3701
VL-3702		Detector head for the measurement of photopic illuminance in Lux [lx]. Features: f1 ≤ 6 %, f2 ≤ 3 %, 0.5 nA/lx, 20mm height, for the usage with Optometers and amplifiers, calibration certificate	http://www.gigahertz-optik.de/en-us/product/VL-3702
VL-3704		Detector head for the measurement of photopic illuminance in Lux [lx]. Features: f1 ≤ 5 %, f2 ≤ 3 %, 20pA/lx, 20mm height, for the usage with Optometers and amplifiers, calibration certificate	http://www.gigahertz-optik.de/en-us/product/VL-3704
VL-3705		Detector head for the measurement of scotopic illuminance in Lux [lx]. Features: f1 ≤ 5 %, f2 ≤ 3 %, 0.2nA/lx, 20mm height, for the usage with Optometers and amplifiers, calibration certificate	http://www.gigahertz-optik.de/en-us/product/VL-3705
PD-9310A		High sensitive detector head for the measurement of photopic illuminance in Lux [lx]. Features: f1 ≤ 3 %, 2.8nA/lx, 20mm diffuser, for the usage with optometers and amplifiers, calibration certificate	http://www.gigahertz-optik.de/en-us/product/PD-9310A

Produktname	Product Image	Description	Show product
PD-9310B		High sensitive detector head for the measurement of photopic illuminance in Lux [lx]. Features: f1 ≤ 6 %, 2.8nA/lx, 20mm diffuser, for the usage with optometers and amplifiers, calibration	http://www.gigahertz-optik.de/en-us/product/PD-9310B
PD-9304		Universal detector head for LASER power, illuminance and 400-1100 nm iiradiance. Features: Si-photodiode with 1 cm², exchange able filters and cosine diffuor, for the usage with optometers and signal amplifiers	http://www.gigahertz-optik.de/en-us/product/PD-9304
PD-9310A		PD-9310A measurement head with GB-GD-360 photogoniometer for measurement of the luminous intensity distribution of 2π spot lamps and LEDs. Goniometer bench with adjustable measurement distance of up to 2000 mm. PD-9310A photometric detector corresponding to the DIN 5032 quality class A. Calibration certificate conformng to the ISO 17025 specifications. For use with all optometers and signal amplifiers from Gigahertz-Optik GmbH.	http://www.gigahertz-optik.de/en-us/product/PD-9310A-2
RW-3701		Detector head for the measurement of irradiance in W/m². Features: spectral responsivity from 400-500nm (BLUE), cosine field-of-view, for the usage with optometers and amplifiers, calibration certificate.	http://www.gigahertz-optik.de/en-us/product/RW-3701
RW-3702		Detector head for the measurement of irradiance in W/m². Features: spectral responsivity from 700-800nm (RED), cosine field-of-view, for the usage with optometers and amplifiers, calibration certificate.	http://www.gigahertz-optik.de/en-us/product/RW-3702
RW-3703		Detector head for the measurement of irradiance in W/m². Features: spectral responsivity from 400-800nm (VIS), cosine field-of-view, for the usage with optometers and amplifiers, calibration certificate.	http://www.gigahertz-optik.de/en-us/product/RW-3703
RW-3704		Detector head for the measurement of irradiance in W/m². Features: spectral responsivity from 800-1000nm (NIR), cosine field-of-view, for the usage with optometers and amplifiers, calibration certificate.	http://www.gigahertz-optik.de/en-us/product/RW-3704
RW-3705		Detector head for the measurement of irradiance in W/m². Features: spectral responsivity from 400-1000nm (VISNIR), cosine field-of-view, for the usage with optometers and amplifiers, calibration certificate.	http://www.gigahertz-optik.de/en-us/product/RW-3705

Produktname	Product Image	Description	Show product
RW-3708		Detector head for the measurement of irradiance in W/m². Features: spectral responsivity from 950-1700nm (NIR), cosine field-of-view, for the usage with optometers and amplifiers, calibration certificate.	http://www.gigahertz-optik.de/en-us/product/RW-3708
UV-3701		Detector head for the measurement of irradiance of UV radiation in W/m². Features: spectral responsivity from 315-400nm (UV-A), cosine field-of-view, for the usage with optometers and amplifiers, calibration certificate.	http://www.gigahertz-optik.de/en-us/product/UV-3701
UV-3702		Detector head for the measurement of irradiance of UV radiation in W/m². Features: spectral responsivity from 280-315nm (UV-B), cosine field-of-view, for the usage with optometers and amplifiers, calibration certificate.	http://www.gigahertz-optik.de/en-us/product/UV-3702
UV-3703		Detector head for the measurement of irradiance of UV radiation in W/m². Features: spectral responsivity from 200/250-280nm (UV-C), cosine field-of-view, for the usage with optometers and amplifiers, calibration certificate.	http://www.gigahertz-optik.de/en-us/product/UV-3703
UV-3710		Detector head for the measurement of irradiance of UV radiation in W/m². Features: spectral responsivity from 320-400nm (UV-A), cosine field-of-view, for the usage with optometers and amplifiers, calibration certificate.	http://www.gigahertz-optik.de/en-us/product/UV-3710
UV-3711		Detector head for the measurement of irradiance of UV radiation in W/m². Features: spectral responsivity from 280-320nm (UV-B), cosine field-of-view, for the usage with optometers and amplifiers, calibration certificate.	http://www.gigahertz-optik.de/en-us/product/UV-3711
UV-3716		Detector head for the measurement of irradiance of UV radiation in W/m². Features: spectral responsivity from 305-400nm (UV-A), cosine field-of-view, for the usage with optometers and amplifiers, calibration certificate.	http://www.gigahertz-optik.de/en-us/product/UV-3716
UV-3717		Detector head for the measurement of irradiance of UV radiation in W/m². Features: spectral responsivity from 315-400nm (UV-A), low cross talk from radiation > 400 nm, cosine field-of-view, for the usage with optometers and amplifiers, calibration certificate.	http://www.gigahertz-optik.de/en-us/product/UV-3717

Produktname	Product Image	Description	Show product
UV-3719		Detector head for the measurement of irradiance of UV radiation in W/m². Features: spectral responsivity from 250-400nm (UV), cosine field-of-view, for the usage with optometers and amplifiers, calibration certificate.	http://www.gigahertz-optik.de/en-us/product/UV-3719
UV-3720		Detector head for the measurement of irradiance of UV radiation in W/m². Features: spectral responsivity from 240-320nm (UV), cosine field-of-view, for the usage with optometers and amplifiers, calibration certificate.	http://www.gigahertz-optik.de/en-us/product/UV-3720
UV-3721		Detector head for the measurement of irradiance of UV radiation in W/m². Features: spectral responsivity from 350-400nm (UV-A), cosine field-of-view, for the usage with optometers and amplifiers, calibration certificate.	http://www.gigahertz-optik.de/en-us/product/UV-3721
PD-9304		Detector head to measure low intensity LASER radiant power in W. Features: 11.28mm dia (1cm²) active area, 400 to 1100nm, for the usage with optometers and signal amplifiers, calibration certificate.	http://www.gigahertz-optik.de/en-us/product/PD-2
S-SDK-GB		Software Development Kit for GB variants (goniometer).	http://www.gigahertz-optik.de/en-us/product/S-SDK-GB

Purchasing information

Article-Nr	Modell	Description
Product		
15298667	GB-GD-360-RB40-1	To measure the luminous intensity and radiant intensity distribution. Photometer bench B2S-40-M1000 with detector holder. Measurement distance 100 mm to 1000 mm. Two axis goniometer GB-GD-360.
15298602	GB-GD-360-RB40-2	To measure the luminous intensity and radiant intensity distribution. Photometer bench B2S-40-M1000 with detector holder. Measurement distance 100 mm to 2000 mm. Two axis goniometer GB-GD-360.
15298853	GB-GD-360-RB40-3	To measure the luminous intensity and radiant intensity distribution. Photometer bench B2S-40-M1000 with detector holder. Measurement distance 100 mm to 3000 mm. Two axis goniometer GB-GD-360.

Article-Nr	Modell	Description
	Software	
15298222	S-SDK-GB	Software Development Kit for the implementation of a GB or variants into custom made software