

x9-7

<http://www.gigahertz-optik.de/en-us/product/X9-7>

Product tags:



Description

The X9₇ (Xnine seven) meter in combination with one of Gigahertz-Optik's irradiance detectors forms a compact hand-held radiometer for the measurement of irradiance in W/cm² and irradiance dose in J/cm² of polychromatic optical radiation within the ultra violet, visible or near infrared spectral range. It's most common use is the periodical check and adjustment of the irradiance level of light sources.

Measurement of the irradiance of UV Radiation

The UV-37 series detectors are designed for the measurement of low to mid intensity ultraviolet radiation. Gigahertz-Optik offers a selection of UV-37 detector for different wavelength ranges within the UV spectrum. All of them are supplied with a diffuse window for cosine corrected field-of-view.

Measurement of the irradiance of VIS-NIR Radiation

The RW-37 series detectors are designed for the measurement of low to mid intensity optical radiation within the visible to near infrared spectrum. Gigahertz-Optik offers a selection of RW-37 detectors for different wavelength ranges within the VIS to NIR spectrum. All of them are supplied with a diffuser window for cosine corrected field-of-view.

Measurement of the actinic Bilirubin irradiance

When the Billirubin level of newborn is very high, one method of clearing the jaundice is by exposing the newborn to light in the blue spectral region between 400 to 550 nm. The UV-3706-4 detector allows the direct measurement of phototherapeutically effective irradiance employed for lowering the bilirubin level in newborn infants.

Simple to Use Lightmeter

The X9₇ meter is a handheld battery operated meter with 9 mm high character LCD display for easy viewing. It offers a wide dynamic amplifier with seven automatically or manually selected gain ranges. Operating the X97 is simple you only need to switch on the meter. The meter is operated by a standard 9V battery. An BHO-11 hard-shell case is supplied.

Traceable Calibration

The detector and the meter are traceable calibrated to international standards.

Custom Labeling Welcome



37 type Irradiance Detector







Specifications








Specification	
Design	Compact size hand-held housing
Display	6 character LCD, Character height 9mm. Indication of measurement quantity, cw or peak measurement mode, automatic or manual gain, run/stop, low battery
Detector interface	ITT (-4) type connector.
CW	With Run / Hold function (Snapshot), Manual or automatic gain selection
CW integration time	300 ms
Frequency Range	0.166 Hz to >300MHz
dose measurement	Manual controlled with RUN / STOP buttons
Parameter adjustment	Via RS232 interface
Front panel control	3 button system
Interface	RS232, 9600 Baud, 8 8D pin plug Hirose type 3260-8S1, Power supply option recommended for remote control operation
temperature range	Operating: 5 to 40°C, storage: -10 to 50° C
Dimensions	120mm x 65mm x 22mm / 150g
Power Supply	9V one-piece battery, operating time about 100 hrs Operation from AC plug-in power supply 230V/50Hz on option by erase of battery
	compatible
	compatible
Warranty	12 month
Measurement modes	NULL
	NULL
X97 with Detector Head (One detector per meter operation)	
UV-3701-4	NULL
spectral responsivity	UV-A (315-400 nm)
Measurement range	0.0005 to 1700 mW/cm ²
max. Resolution	0.00001 mW/cm ²
UV-3702-4	NULL
spectral responsivity	UV-B (280-315 nm)
Measurement range	0.001 to 10000 mW/cm ²
max. Resolution	0.00002 mW/cm ²
UV-3703-4	NULL
spectral responsivity	UV-C (250-280 nm)
Measurement range	0.0005 to 2500 mW/cm ²
max. Resolution	0.00001 mW/cm ²

UV-3706-4	NULL
spectral responsivity	Bilirubin
Measurement range	0.0005 to 100 mW/cm ²
max. Resolution	0.00001 mW/cm ²
UV-3710-4	NULL
spectral responsivity	UV-A (320-400 nm)
Measurement range	0.0005 to 2000 mW/cm ²
max. Resolution	0.00001 mW/cm ²
UV-3711-4	NULL
spectral responsivity	UV-B (280-320 nm)
Measurement range	0.0015 to 1000 mW/cm ²
max. Resolution	0.00003 mW/cm ²
UV-3716-4	NULL
spectral responsivity	UV-A (305-400 nm)
Measurement range	0.0005 to 2000 mW/cm ²
max. Resolution	0.00001 mW/cm ²
UV-3717-4	NULL
spectral responsivity	UV-A (315-400 nm)
Measurement range	0.0005 to 1700 mW/cm ²
max. Resolution	0.00001 mW/cm ²
RW-3701-4	NULL
spectral responsivity	BLUE (400-500 nm)
Measurement range	0.0005 to 100 mW/cm ²
max. Resolution	0.00001 mW/cm ²
RW-3702-4	NULL
spectral responsivity	RED (700-800 nm)
Measurement range	0.0005 to 100 mW/cm ²
max. Resolution	0.00001 mW/cm ²
RW-3703-4	NULL
spectral responsivity	VISIBLE (400-800 nm)
Measurement range	0.0005 to 100 mW/cm ²
max. Resolution	0.00001 mW/cm ²
RW-3704-4	NULL
spectral responsivity	NIR (800-1000 nm)
Measurement range	0.0005 to 100 mW/cm ²

max. Resolution	0.00001 mW/cm ²
RW-3705-4	NULL
spectral responsivity	VISNIR (400-1000 nm)
Measurement range	0.0005 to 50 mW/cm ²
max. Resolution	0.00001 mW/cm ²
NULL	*) typical values calculated based on current measurement range of the light meter and detector responsivity. Actual measurement range may be limited by operating temperature, power density and other factors

Configurable with

Produktname	Product Image	Description	Show product
RW-3701		<p>Detector head for the measurement of irradiance in W/m².</p> <p>Features: spectral responsivity from 400-500nm (BLUE), cosine field-of-view, for the usage with optometers and amplifiers, calibration certificate.</p>	http://www.gigahertz-optik.de/en-us/product/RW-3701
RW-3702		<p>Detector head for the measurement of irradiance in W/m².</p> <p>Features: spectral responsivity from 700-800nm (RED), cosine field-of-view, for the usage with optometers and amplifiers, calibration certificate.</p>	http://www.gigahertz-optik.de/en-us/product/RW-3702
RW-3703		<p>Detector head for the measurement of irradiance in W/m².</p> <p>Features: spectral responsivity from 400-800nm (VIS), cosine field-of-view, for the usage with optometers and amplifiers, calibration certificate.</p>	http://www.gigahertz-optik.de/en-us/product/RW-3703
RW-3704		<p>Detector head for the measurement of irradiance in W/m².</p> <p>Features: spectral responsivity from 800-1000nm (NIR), cosine field-of-view, for the usage with optometers and amplifiers, calibration certificate.</p>	http://www.gigahertz-optik.de/en-us/product/RW-3704
RW-3705		<p>Detector head for the measurement of irradiance in W/m².</p> <p>Features: spectral responsivity from 400-1000nm (VISNIR), cosine field-of-view, for the usage with optometers and amplifiers, calibration certificate.</p>	http://www.gigahertz-optik.de/en-us/product/RW-3705
RW-3708		<p>Detector head for the measurement of irradiance in W/m².</p> <p>Features: spectral responsivity from 950-1700nm (NIR), cosine field-of-view, for the usage with optometers and amplifiers, calibration certificate.</p>	http://www.gigahertz-optik.de/en-us/product/RW-3708

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

Purchasing information

Article-Nr	Modell	Description
Product		
100539	X9-7	Meter with battery and manual

Article-Nr	Modell	Description
Re-calibration		
15300700	K-X9n-C	Electronic calibration of X9 series meters
15300570	K-UV3701-I	Irradiance calibration using polychromatic reference source, Calibration certificate
15300693	K-UV3702-I	Irradiance calibration using polychromatic reference source, Calibration certificate
15300695	K-UV3703-I	Irradiance calibration using polychromatic reference source, Calibration certificate
15300375	K-UV3706-I	Irradiance calibration using polychromatic reference source, Calibration certificate
15300171	K-UV3710-I	Irradiance calibration using polychromatic reference source, Calibration certificate
15300172	K-UV3711-I	Irradiance calibration using polychromatic reference source, Calibration certificate
15300247	K-UV3716-I	Irradiance calibration using polychromatic reference source, Calibration certificate
15300169	K-UV3717-I	Irradiance calibration using polychromatic reference source, Calibration certificate
15300727	K-RW3701-I	Irradiance calibration using polychromatic reference source, Calibration certificate
15300246	K-RW3702-I	Irradiance calibration using polychromatic reference source, Calibration certificate
15300153	K-RW3703-I	Irradiance calibration using polychromatic reference source, Calibration certificate
15300158	K-RW3704-I	Irradiance calibration using polychromatic reference source, Calibration certificate
15300159	K-RW3705-I	Irradiance calibration using polychromatic reference source, Calibration certificate
Accessories		
101821	UV-3701-4	UV-A (315-400 nm) irradiance detector; Calibration certificate
101823	UV-3702-4	UV-B (280-315 nm) irradiance detector; Calibration certificate
101825	UV-3703-4	UV-C (250-280 nm) irradiance detector; Calibration certificate
101829	UV-3706-4	Bilirubin effective irradiance detector; Calibration certificate
101835	UV-3710-4	UV-A (320-400 nm) irradiance detector; Calibration certificate
101837	UV-3711-4	UV-B (280-320 nm) irradiance detector; Calibration certificate
101839	UV-3716-4	UV-A (305-400 nm) irradiance detector; Calibration certificate
15297129	UV-3717-4	UV-A (315-400 nm) irradiance detector; Calibration certificate
101791	RW-3701-4	BLUE (400-500 nm) irradiance detector; Calibration certificate
101793	RW-3702-4	RED (700-800 nm) irradiance detector; Calibration certificate
101795	RW-3703-4	VISIBLE (400-800 nm) irradiance detector; Calibration certificate
101797	RW-3704-4	NIR (800-1000 nm) irradiance detector; Calibration certificate

Article-Nr	Modell	Description
101799	RW-3705-4	VISNIR (400-1000 nm) irradiance detector; Calibration certificate
100065	X9-Z01	RS232 interface adapter cable to connect X9 series meters with 9PIN SUB-D standard sockets to PCs
100299	X9-Z02	External power supply for X9 series meters including meter modification (cancels battery operation)
101122	X9-Z05	Plug-in power supply for AC operation of X9 series meters. Connects to RS232 socket of the meter (prevents remote control operation via RS232 interface). 100VAC - 240VAC; 5VDC
15297539	BH0-11	Hard case to carry and store the X9-7 with one UV-37 or RW-37 detector