Gigahertz-Optik

Member of the Berghof Group

UV-C-254- X1-UV-3725V2 Radiometer

Order Item Number: 15312916

Traceably calibrated UV-C radiometer for measuring 254nm UV-C lamps in UV air & surface disinfection systems.

Two measurement modes: UVGI efficacy measurement and UV health hazard safety assessment. Output values as irradiance (W/m² or W/cm²), biologically effective irradiance (EFF W/m² or W/cm²) or dose (J/m² or J/cm²).

Functions, Features & Notes:

- Wide linear measurement range from ~100 nW/cm² to >2000 mW/cm².
- Measurement resolution of approx. 1 nW/cm² over the entire measurement range.
- For low level UV signals it is recommended that a "zero-adjust" and "offset" measurement be performed before each measurement to suppress ambient influences. Also set a maximum integration time of 1000ms. See manual for instructions.
- To maintain measurement accuracy and repeatability, regular recalibration is recommended. Manufacturer recommends annual recalibration.
- Recalibration by the Gigahertz-Optik ISO 17025 accredited calibration laboratory can be arranged with your local Gigahertz-Optik representative.
- Please follow the safety instructions in the manual.
- Do not expose the radiometer to extreme temperatures, humidity, shock or dust.
- Please cover the detector head with its protective cap when not in use.
- Please do not touch the diffuser (white input optic) on the detector with your fingers.
- Always allow the test source to stabilize before taking measurements.
- Note that strong ambient light levels, as sunlight for example, can influence the measurement. It is advisable to eliminate any ambient stray light from the measurement environment before taking readings.

Delivery Includes:

- Optometer (readout and display unit) incl. manual
- UV-C detector head
- 80° field of view adapter
- carrying case
- calibration certificate showing traceable calibration at 254nm

Optional Software:

- S-X1 User software
- S-SDK-X20 Software development kit

Recommended Settings for Low Signal Measurement Using Meter Menu Function:

- **Long integration time -** Recommended integration time of 1 second.

Main menu → Setup → Integration → Set integration time

- **Zero Adjust** - Resets meter electronics to zero to reduce noise.

Main menu → Setup → Zero Adjust

Note: this is performed automatically each time the X1-5 optometer is restarted

- **Offset adjustment -** Dark offset performed with detector protective cap on or offset adjustment without cap on detector for when you want to subtract a (constant) ambient light signal from the measurement.

Main menu → Offset → Perform Offset CW Measurement

UV-3725FOV80 80° Field of View Adapter

- **Measurement Modes –** Select 254nm Lamp when making UVGI efficacy measurement. Select 254nm EFF when assessing UV hazard

Main menu → Detector → 254nm Lamp or 254nm EFF