

RCH-XXXc Series

<https://www.gigahertz-optik.com/en-us/product/rch-xxx/>

Product tags: UV



Description

In some cases cylindircal irradiance needs to be measured to allow high precision effective irradiance readings in e.g. UV curing by the use of multiple radiation sources around the sample.

Convincing specifications

High homogeneity of the cylindrical diffuser for precise measurements.
High temperature resistance and low aging. Traceable calibration optimized for the corresponding radiation sources.

Calibration

The detector is calibrated for 6 typical UV LED wavelengths in terms of its spectral irradiance responsivity and is supplied with a factory calibration certificate that corresponds to the [high standard of the measuring laboratory for optical radiation measurements of Gigahertz-Optik](#). If necessary, a test certificate accredited according to DIN EN ISO / IEC 17025 can optionally be created for the detector with the associated measuring device.

Option

A version with rigid fiber is also available.



cylindrical irradiance detector series

Specifications

General	
Short description	UV cylindrical irradiance detectors for UV curing applications
Main features	Detectors for use with all Gigahertz-Optik measuring devices. Designed for use in with high-intensity and temperatures for cylindrical UV dose rate measurements.
Measurement ranges	depending on configuration (spectral response)
Typical applications	UV curing measurement in setups with a flat light source
Product	
Input optics	diffusor 6 mm diameter, 9 mm length
Light Guide	Flexible: 50 cm / 20 inch
Calibration	depending on setup, individually for typical LEDs or 254 nm
Typical responsivity	examplarily for RCH-013c (rel. spectral similar to RCH-013): 2.06E-09 A/(mW/cm²) @ 365 nm 2.54E-09 A/(mW/cm²) @ 400 nm 2.85E-09 A/(mW/cm²) @ 460 nm
Miscellaneous	

Temperature range	up to + 100 °C (short-term)
Humidity	<80%, non-condensing

Purchasing information

Article-Nr	Modell	Description
Product		
15318740	RCH-016c-5	Detector with -5 connector and flexible light guide. Factory calibration certificate.

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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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