

RCH-008

<https://www.gigahertz-optik.com/zh-cn/product/rch-008/>

产品标签: UV/紫外线



描述

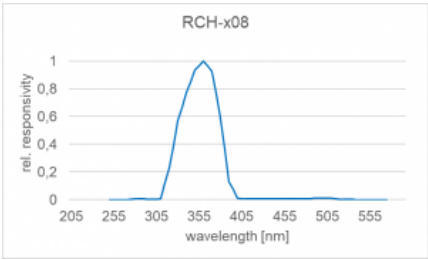
In UV-A curing applications requiring deep curing of adhesives and paints, longer-wave UV radiation in the UV-A and blue spectral regions is used to excite the photoinitiators. UV-A radiometers for these applications must be designed in such a way that they only measure the irradiance in the actinic range of the photoinitiators. See our [application note about general UV curing measurements](#) and our [product overview about UV curing meters](#).

Product Description of RCH-008 UV-A Irradiance Detector

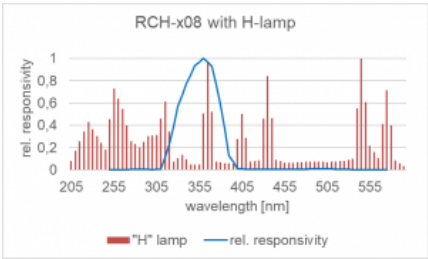
The UV-A detector RCH-008 was specially developed for use in UV curing with discharge lamps. It offers all the features and functions of the detectors of the [RCH high temperature stable and flat design series](#). Its spectral responsivity covers the **wavelength range from 320 nm to 390 nm**, which is used in particular for deep curing of adhesives and paints.

Calibration

The detectors are calibrated with regard to their responsivity to irradiance and are 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.



Typical spectral sensitivity (relative) of the RCH-x08 detectors



Relative spectral responsivity of the RCH-x08 detectors together with the typical emission spectrum of a mercury lamp."/>

Relative spectral responsivity of the RCH-x08 detectors together with the typical emission spectrum of a mercury lamp.



RCH-008 detector with flexible light guide"/>

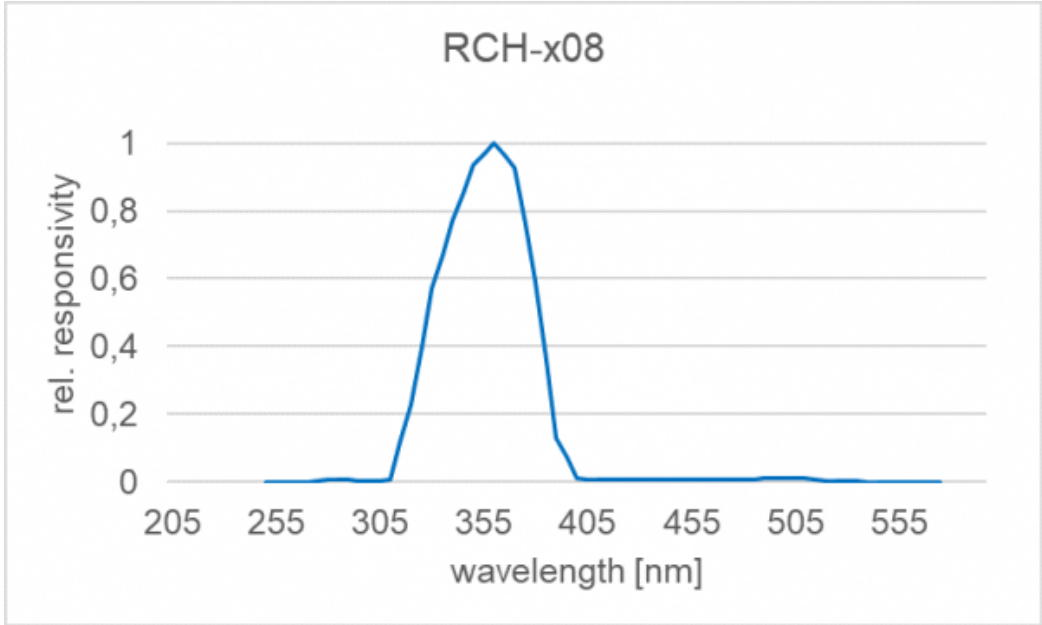
RCH-008 detector with flexible light guide

规格


一般

简要描述

UV detector for measuring the irradiance in UV curing with discharge lamps
[Link to RCH-xxx series datasheet](#)

主要特点	Detector for the high UV radiation levels in UV radiation curing. Large safety distance between the handle and the radiation sensor of the detector. For use with all gigahertz optics measuring devices (see 光度计、放大器、显示仪表).
测量范围	Spectral responsivity 320 nm to 390 nm. Linear measuring range from 0.1 mW / cm ² to 40,000 mW / cm ² with measuring device X1-1
典型应用	UV radiation curing with medium pressure lamps
校准	Calibration of the irradiance responsivity in A / (W / cm ²) with factory calibration certificate of the measuring laboratory of the Gigahertz-Optik. Optional DIN EN ISO / IEC 17025 accredited test certificate
产品	
光谱响应性	 <p>The graph shows the relative responsivity of the RCH-x08 detector across a range of wavelengths from 205 nm to 555 nm. The y-axis represents relative responsivity from 0 to 1. The x-axis represents wavelength in nanometers. The curve is flat at zero until approximately 305 nm, then rises sharply to a peak of 1.0 at 365 nm, and then falls sharply back to zero by 405 nm, remaining at zero until 555 nm.</p>
输入光学元件	9 mm, diffuser
尺寸规格	Measurement head: Height: 8 mm / Diameter: 37 mm Detector element: Length: 65 mm / Diameter: 15 mm
导光板	Flexible: 50 cm / 20 inch
典型响应性	UVA Peak 365 nm: 0.5 nA/(mW/cm ²)
最大。辐照度	40 W/cm ²
最大信号电流	100 µA
杂项	
温度范围	up to + 100 °C (short-term)
湿度	<80%, non-condensing
电缆长度	50 cm
连接器	-1,-2 or -4
信息	If a different light source needs to be measured than calibrated (spectral distribution), spectral mismatch correction factors should be applied in order to achieve a low measurement uncertainty. At very high humidity short-circuits of the radiometer at low measurement currents are possible and need to be considered. At higher temperature a temperature correction of the detector signal might be necessary in order to achieve a low measurement uncertainty.

可配置的有

产品名称	产品图片	描述	转到产品
RCH-xxx 系列		用于测量紫外线固化辐照度的紫外线探测器	https://www.gigahertz-optik.com/zh-cn/product/rch-xxx-series/

采购信息

文章编号	モデル	描述
产品		
15296579	RCH-008-1	Detector with -1 connector and flexible light guide
15297039	RCH-008-2	Detector with -2 connector and flexible light guide
15297040	RCH-008-4	Detector with -4 connector and flexible light guide
15309852	RCH-008-5	Detector with -5 connector and flexible light guide
重新标定		
15300363	K-RCHn08-I	Calibration with Certificate
15300461	K-RCHn08-I-Z01	Add-on Calibration at irradiance of 100 W/cm², 66 W/cm² and 19 W/cm²
15300488	K-RCHn08-I-Z02	Add-on Calibration at irradiance of 179 mW/cm², 5 W/cm² and 15 W/cm²
15300710	K-RCHn08-S	Monochrome Calibration at 365 nm

联系、校准、服务和支持/Contact, Calibration, Service & Support

我们以出色的技术咨询和售后支持而闻名于世。请与我们联系，共同寻找适合您的最佳解决方案。我们的服务。

- 技术咨询和销售
- 售后支持
- 校准和重新校准（[ISO/IEC 17025校准服务](#)，工厂校准，[第三方产品的校准](#)）。
- 维修和更新
- 定制解决方案的OEM和可行性咨询

请将您的询问发送给我们

（*为必填项）或通过电话或电子邮件与我们联系。我们也欢迎你的反馈或在谷歌上评论我们。 [Google](#)

Gigahertz Optik GmbH (总部)

Tel.: +49 (0)8193-93700-0

Fax: +49 (0)8193-93700-50

info@gigahertz-optik.de

An der Kaelberweide 12

82299 Tuerkenfeld, Germany