

RCH-102

<https://www.gigahertz-optik.com/zh-cn/product/rch-1/>

产品标签: UV/紫外线



描述

General

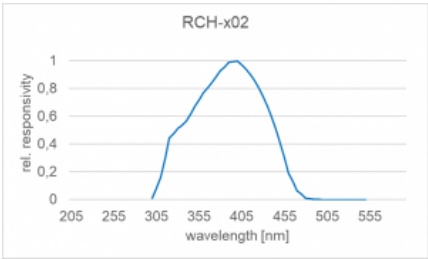
In UV curing applications requiring deep curing of adhesives and paints, longer-wave UV radiation in the UV-A and blue spectral regions is used to excite the photoinitiators. UV radiometers for these applications must be designed in such a way that they only measure the irradiance in the actinic range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

Product description RCH-102 irradiance detector

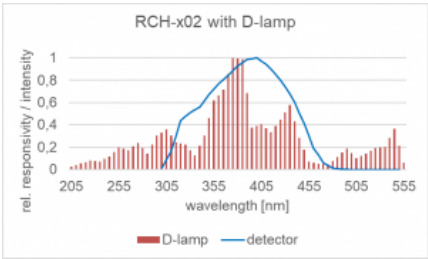
The UV detector RCH-102 was specially developed for use in UV curing with discharge lamps. It offers all the features and functions RCH-Series (see [RCH-xxx 系列](#)) of the detectors. Its spectral sensitivity covers the wavelength range from 320 nm to 450 nm, which is used for deep curing of adhesives and paints in particular.

Calibration

The detector is calibrated with regard to its responsivity to irradiance and is supplied with a factory calibration certificate that conforms 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-x02 detectors



Relative spectral sensitivity of the RCH-x02 detectors together with the typical emission spectrum of a doped discharge lamp.



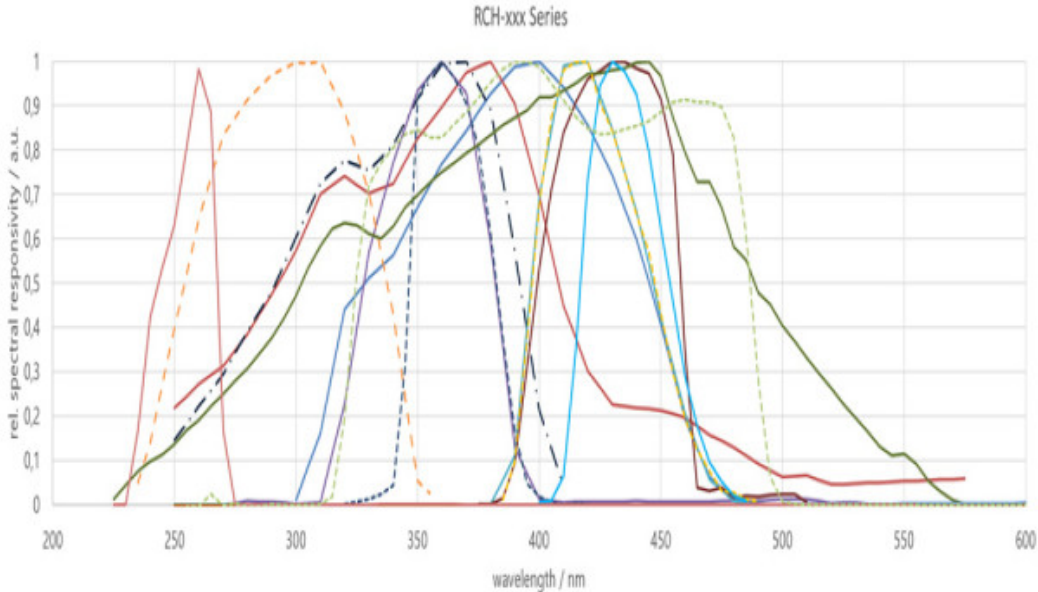
RCH-102 detector with rigid light guide"/>

RCH-102 detector with rigid light guide

规格

一般

简要描述	UV detector for measuring the irradiance of medium pressure lamps in UV curing. 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.
测量范围	Spectral responsivity 320 nm to 450 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	
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	Rigid: 50 cm / 20 inch
典型响应性	405 nm LED: 0.6 nA/(mW/cm ²) UV medium pressure lamp: 0.4 nA/(mW/cm ²)
最大。辐照度	40 W/cm ²
最大信号电流	100 µA
测量的数量	Irradiance (W/m ²)
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.
杂项	
温度范围	up to + 100 °C (short-time)
湿度	<80%, non-condensing
电缆长度	50 cm

连接器	-1,-2 or -4
-----	-------------

可配置的有

产品名称	产品图片	描述	转到产品
P-9710		High-End Optometer for Measurement of CW-, Single Pulse and Modulated Radiation	https://www.gigahertz-optik.com/zh-cn/product/p-9710/
X1		四通道USB光度计，分别为电流放大器，设计用于移动使用的光度和辐射检测器	https://www.gigahertz-optik.com/zh-cn/product/x1/
X1-RM		Optometer in 3HE Housing for use in 19" Racks	https://www.gigahertz-optik.com/zh-cn/product/x1-rm/
X1-PCB		Optometer Module / Current Amplifier	https://www.gigahertz-optik.com/zh-cn/product/x1-pcb/
X1-PCBC		Optometer Module	https://www.gigahertz-optik.com/zh-cn/product/x1-pcbc/
TR-9600		High-Speed and Short Rise Time Data Logger Optometer (Transient Recorder Current Amplifier)	https://www.gigahertz-optik.com/zh-cn/product/tr-9600/
P-9802		Current Amplifier (Optometer) for Laboratory Use with up to 24 Measurement Heads	https://www.gigahertz-optik.com/zh-cn/product/p-9802/
P-9801		8-Channel High Class Current Amplifier/Optometer	https://www.gigahertz-optik.com/zh-cn/product/p-9801/
P-2000		Two-Channel Optometer	https://www.gigahertz-optik.com/zh-cn/product/p-2000/

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		
15309381	RCH-102-1	Detector with -1 connector and rigid light guide
15297677	RCH-102-2	Detector with -2 connector and rigid light guide
15297680	RCH-102-4	Detector with -4 connector and rigid light guide
15312685	RCH-102-5	Detector with -5 connector and rigid light guide
重新标定		
15300571	K-UV-SR	Calibration of relative spectral responsivity from 250 nm - 550 nm
15300198	K-RCHn02-I	Calibration with Certificate
15300213	K-RCHn02-S	Monochrome Calibration at 395nm

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