

# RCH-110

<https://www.gigahertz-optik.com/zh-cn/product/rch-13/>

产品标签: UV/紫外线



描述

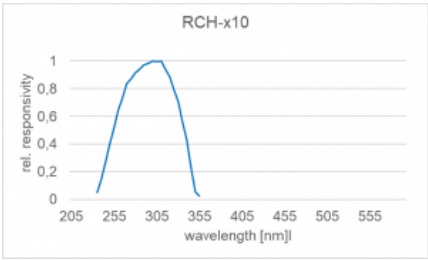
In UV curing applications involving the curing of paints, UV-B with short-wave UV-A radiation is the typically used spectral range for stimulating photoinitiators. UV radiometers for these applications must be designed in such a way that they only measure the irradiance in the actinic range of the photoinitiators. See our [application note about general UV curing measurements](#) and our [product overview about UV curing meters](#).

Product description RCH-110 Irradiance Detector

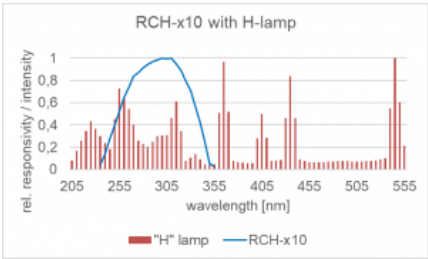
The RCH-110 UV detector was specially developed for use in UV radiation curing with discharge lamps. It offers all the features and functions of the detectors of the [RCH high temperature stable and flat design detector series](#). Their spectral responsivity covers the wavelength range from 255 nm to 335 nm, which is used in particular for curing 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 responsivity (relative) of the RCH-110 detectors



Relative spectral responsivity of the RCH-110 detectors together with the typical emission spectrum of a mercury lamp.



RCH-110 detector with rigid light guide

规格

一般	
简要描述	UV detector for measuring the irradiance in UV curing with discharge lamps <a href="#">Link to RCH-xxx series datasheet</a>
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 <a href="#">光度计、放大器、显示仪表</a> ).
测量范围	Spectral responsivity 240 nm to 320 nm. Linear measuring range from 0.1 mW / cm² to 40,000 mW / cm² 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 <sup>2</sup> ) 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	<div><div>RCH-x10</div><table border="1"><caption>Relative Responsivity Data for RCH-x10</caption><thead><tr><th>Wavelength [nm]</th><th>rel. responsivity</th></tr></thead><tbody><tr><td>240</td><td>0.0</td></tr><tr><td>255</td><td>0.6</td></tr><tr><td>270</td><td>0.85</td></tr><tr><td>285</td><td>0.95</td></tr><tr><td>300</td><td>1.0</td></tr><tr><td>305</td><td>1.0</td></tr><tr><td>310</td><td>0.95</td></tr><tr><td>320</td><td>0.7</td></tr><tr><td>335</td><td>0.4</td></tr><tr><td>350</td><td>0.05</td></tr><tr><td>360</td><td>0.0</td></tr></tbody></table></div>	Wavelength [nm]	rel. responsivity	240	0.0	255	0.6	270	0.85	285	0.95	300	1.0	305	1.0	310	0.95	320	0.7	335	0.4	350	0.05	360	0.0
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335	0.4																								
350	0.05																								
360	0.0																								
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: 22 cm / 8.7 inch																								
典型响应性	H-Type 240 nm - 320 nm: 0.7 nA/(mW/cm <sup>2</sup> )																								
最大。辐照度	40 W/cm <sup>2</sup>																								
最大信号电流	50 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 leakage-currents 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	<a href="https://www.gigahertz-optik.com/zh-cn/product/rch-xxx-series/">https://www.gigahertz-optik.com/zh-cn/product/rch-xxx-series/</a>

## 采购信息

文章编号	モデル	描述
产品		
-	RCH-110-1	Detector with -1 connector and rigid light guide
-	RCH-110-2	Detector with -2 connector and rigid light guide
-	RCH-110-4	Detector with -4 connector and rigid light guide
重新标定		
15312251	K-RCHn10-I	Calibration with Certificate

## 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](#)

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