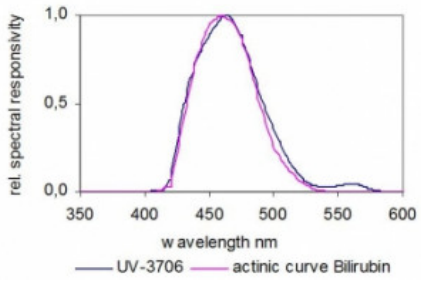
UV-3706

https://www.gigahertz-optik.com/en-us/product/uv-3706/

Product tags:

Description

Newborn jaundice or neonatal hyperbilirubinemia, a yellowish appearance of the skin and whites of the eyes, is present to some degree in almost all newborn infants. This is caused by an elevated level of bilirubin molecule in the blood which results from immaturity of the liver function combined with the destruction of red blood cells present. When these levels are very high, one method of clearing the jaundice is by exposing the newborn to light in the blue spectral region between 400 to 550 nm.



Typical Spectral Response

Actinic Spectral Function

The UV-3706 detector enables the measurement of phototherapeutically effective irradiance employed for lowering the bilirubin level in newborn infants.

Traceable Calibration

Calibration of the detector billirubin effective (W/m²) responsivity is performed by the Gigahertz-Optik GmbH calibration laboratory for optical radiation measurements quantities. As with all light detectors supplied by Gigahertz-Optik calibration of absolute detector responsivity as well as detector individual measured relative spectral responsivity data is included.

Specifications

Re-calibration	
Calibration	Calibration of integral irradiance responsivity in A/(W/m²) using a halogen tungsten reference lamp at 2856K and 0.5W/m².
Specification	
Spectral responsivity	actinic Bilirubin, 400 nm - 550 nm
Typical responsivity	100 nA/(W/m²)
Max. signal current	100 µA
Input optics	15 mm Ø diffusor window
Input optics	Cosine F.O.V.
Housing	37 mm Ø, 32 mm height
Mounting	side M6 thread hole
Connector	coaxial cable 2 m Long, with BNC (-1), calibration data (-2) or ITT (-4) connector
Temperature range	(5 - 40) °C

min. signal current	depends on optometer

Configurable with

Product Name	Product Image	Description	Go to product
X1		Four-Channel USB Optometer, Respectively Current Amplifier, Designed for Photometric and Radiometric Detectors for Mobile-Use	https://www.gigahertz-optik.com/en-us/product/x1/
X1-RM		Optometer in 3HE Housing for use in 19” Racks	https://www.gigahertz-optik.com/en-us/product/x1-rm/
X1-PCBCL		Optometer respectively Current Amplifier Module with 4 Input Channels and 7 Gain Ranges	https://www.gigahertz-optik.com/en-us/product/x1-pcb/
X1-PCBCL		Optometer module with 4 channels based on X1 technologie	https://www.gigahertz-optik.com/en-us/product/x1-pcbc/
TR-9600		High-Speed and Short Rise Time Data Logger Optometer (Transient Recorder Current Amplifier)	https://www.gigahertz-optik.com/en-us/product/tr-9600/
P-9802		Current Amplifier (Optometer) for Laboratory Use with up to 24 Measurement Heads	https://www.gigahertz-optik.com/en-us/product/p-9802/
P-9801		8-Channel High Class Current Amplifier/Optometer	https://www.gigahertz-optik.com/en-us/product/p-9801/
P-2000		Two-Channel Optometer	https://www.gigahertz-optik.com/en-us/product/p-2000/
P-9710		High-End Optometer for Measurement of CW-, Single Pulse and Modulated Radiation	https://www.gigahertz-optik.com/en-us/product/p-9710/

Purchasing information

Article-Nr	Modell	Description
Product		
15296526	UV-3706-1	Detector head with -1 connector, calibration certificate.
15297111	UV-3706-2	Detector head with -2 connector, calibration certificate.
15297113	UV-3706-4	Detector head with -4 connector, calibration certificate.
Re-calibration		
15300375	K-UV3706-I	Re-calibration of integral irradiance responsivity in A/(W/m²) with calibration certificate.
15300571	K-UV-SR	Re-calibration of the relative spectral responsivity.

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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

Send us your inquiry or contact us by phone or e-mail. We would welcome your feedback too or review us on Google.

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