

# UVC Measurement

## UVC-CK01

### ○ SIMPLE AND FAST

Highly **accurate** measurements

### ○ HANDHELD AND RUGGED

Easy to carry, **simple to operate** and to save your measurements

### ○ FREE DOWNLOADABLE SOFTWARE

**No additional cost** for software or licences; ever  
Conversion to Excel in 1 click

### ○ YOUR GUARANTEE FOR ACCURACY

Delta OHM operates 6  
ISO 17025 Calibration Laboratories

## A Powerfull Combination

The combination of the UVC measurement cell LP471UVC with our HD2102.2 handheld instruments appears to be the perfect way to measure UVC light quickly and efficiently. UVC has proved to be very effective to destroy viruses and bacteria.

The UVC disinfection has a great popularity already for many years in research and it is now being researched on a large scale to measure the effects on the COVID-19 virus.

The measurement is fast and simple: in combination with the Delta OHM handheld instrument HD2102.2 it can measure not only in Watt/ unit area but using the Q(t) function it can also calculate Joule/ unit area: the dose of integration on time of the irradiance measurement.

It makes the combination a perfect tool for fast and efficient measurements to determine the effect of UVC against bacteria and viruses.

The instrument has the possibility to log all measurements in its memory. The free available software makes it easy to generate reports or to convert the measurement data to Excel.



## Main Applications

Check of UVC Irradiance for disinfection equipment

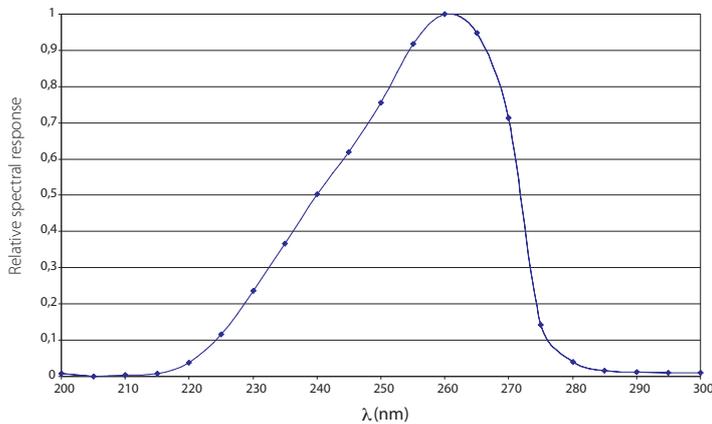


## Technical Specification of the probe

Measurement range (W/m <sup>2</sup> )	0.1·10 <sup>-3</sup> ... 999.9·10 <sup>-3</sup>	1.000... 19.999	20.00... 199.99	200.0... 1999.9
Resolution (W/m <sup>2</sup> ):	0.1·10 <sup>-3</sup>	0.001	0.01	0.1

Spectral range	220nm...280nm (Peak 260nm)
Calibration uncertainty	<5%
f <sub>3</sub> (linearity)	<1%
f <sub>4</sub> (instrument reading error)	±1digit
f <sub>5</sub> (fatigue)	<0.5%
Drift after 1 year	<2%
Working temperature	0...50 °C

### Typical response curve: LP471UVC



The LPBL levelling device is part of the kit. It guarantees a perfect stable base for measurements and it can be easily adjusted.



## Technical Specification of the instrument

Material	ABS, rubber
Protection Degree	IP66
Operating Conditions	-5...50°C 0...90% RH without condensation
Batteries	4 1.5V type AA batteries
Autonomy	200 hours with 1800mAh alkaline batteries
Mains	Output mains adapter 100-240Vac/12Vdc-1A
Measuring units	W/m <sup>2</sup> - J/m <sup>2</sup> Depending on the probe, it measures also: lux - fcd - lux·s - fcd·s - μW/cm <sup>2</sup> - μJ/cm <sup>2</sup> - μmol/(m <sup>2</sup> ·s) - μmol/m <sup>2</sup> - cd/m <sup>2</sup> μW/lumen
Security of memorized data	Unlimited, independently of battery charge conditions
Date and time	Schedule in real time
Quantity of measured values storage	Total of 38000 samples
Selectable storage interval	1, 5, 10, 15, 30 s, 1, 2, 5, 10, 15, 20, 30 min 1 hour
USB interface type	1.1 - 2.0 electrically isolated

### Dimensions



## Ordering Codes

**UVC-CK01** HD2102.2 datalogger, 4 1.5V alkaline batteries, operating manual, case, DeltaLog9 software downloadable from Delta OHM website, USB cable (CP23), stabilized power supply at 100-240Vac/12Vdc-1A mains voltage (SWD10), LP471UVC radiometric probe, base with levelling device (LPBL)..

**VACCREDIA-L6** Optional ISO 17025 calibration for LP471UVC probe with Xenon-Mercury lamp Filter at 254 nm.

**Delta OHM**

Member of GHM GROUP

In order to ensure the quality of our instruments, we are constantly re-evaluating our products. Improvements can imply changes in specification; we advise you to always check our website for the newest version of our documentation.

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**Delta OHM S.r.l.**

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