



User Manual

PCE-UVL 10 UV Lamp



User manuals in various languages (français, italiano, español, português, nederlands, türk, polski, русский, 中文) can be found by using our product search on: www.pce-instruments.com

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1 Safety notes

Please read this manual carefully and completely before you use the device for the first time. The device may only be used by qualified personnel and repaired by PCE Instruments personnel. Damage or injuries caused by non-observance of the manual are excluded from our liability and not covered by our warranty.

- The device must only be used as described in this instruction manual. If used otherwise, this can cause dangerous situations for the user and damage to the meter.
- The instrument may only be used if the environmental conditions (temperature, relative humidity, ...) are within the ranges stated in the technical specifications. Do not expose the device to extreme temperatures, direct sunlight, extreme humidity or moisture.
- Do not expose the device to shocks or strong vibrations.
- The case should only be opened by qualified PCE Instruments personnel.
- Never use the instrument when your hands are wet.
- You must not make any technical changes to the device.
- The appliance should only be cleaned with a damp cloth. Use only pH-neutral cleaner, no abrasives or solvents.
- The device must only be used with accessories from PCE Instruments or equivalent.
- Before each use, inspect the case for visible damage. If any damage is visible, do not use the device.
- Only charge the device with the original charger it comes with.
- When the meter is not used for a longer period of time, the batteries should be charged and discharged completely every 3 months. The ideal storage conditions are 18 ... 30 °C and 25 ... 62 % RH.
- Never look into the LEDs directly to avoid eye injuries.
- Always wear protective goggles when using the device.
- Do not target eyes or skin.
- Do not use the instrument in explosive atmospheres.
- The measurement range as stated in the specifications must not be exceeded under any circumstances.
- Non-observance of the safety notes can cause damage to the device and injuries to the user.

We do not assume liability for printing errors or any other mistakes in this manual.

We expressly point to our general guarantee terms which can be found in our general terms of business.

If you have any questions please contact PCE Instruments. The contact details can be found at the end of this manual.



2 Introduction

2.1 Areas of application

- Fluorescent dye penetrant testing
- Fluorescent magnetic particle testing
- Fluorescent leak detection
- Finding oil stains
- Oil and gas pipeline testing
- Fluorescent reflection detection for special materials
- Criminal investigation and forensic assessment
- Authentication of bank notes, appreciation of jewels
- Agriculture, food, medical and other industries

2.2 Features

- Approx. 20000 h LED lifetime
- Quick to use – max. illumination intensity directly after switched on
- Low energy consumption, high performance, cold light source, long-time stable illumination
- Optical filter with high UV transmittance (transparent quartz glass)
- Case made of high-strength aluminium alloy – anodised, robust and durable
- Integrated cooling fins and low-noise fan
- Magnetic shielding – can be used in high-intensity magnetic fields
- Switch and connection for charger located at the back of the device
- Dust- and waterproof in line with IEC 60529 (protection class IP66)

3 Specifications

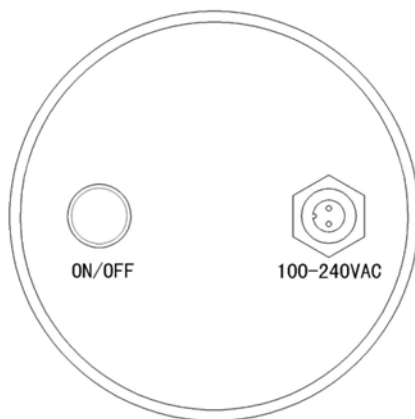
3.1 Technical specifications

Light source	4 x NICHIA 365 nm UV LEDs
Lifetime of lamp	Approx. 20000 h
Central illuminance (at a distance of 38 cm)	$\geq 10000 \mu\text{W}/\text{cm}^2$
Irradiated area (at a distance of 38 cm)	\varnothing 200 mm
Diameter of exposure window	\varnothing 88 mm
Input voltage UV lamp	16.8 V
Input voltage charger	100 ... 240 V AC
Output	12 W
Battery type	ICR 18650: 2600 mAh, 3.7 V
Battery life	More than 500 complete charges
Protection class	IP66
Dimensions	Diameter: 123 mm / 4.8 in Handle length: 120 mm / 4.7 in
Weight	1560 g / 3.44 lbs

3.2 Delivery content

- 1 x UV light PCE-UVL 10
- 1 x charger
- 1 x protective goggles with case
- 1 x carrying case with strap
- 1 x user manual

4 Device description



1. On / off key
2. Connection for charger

5 Warranty

You can read our warranty terms in our General Business Terms which you can find here: <https://www.pce-instruments.com/english/terms>.

6 Disposal

For the disposal of batteries in the EU, the 2006/66/EC directive of the European Parliament applies. Due to the contained pollutants, batteries must not be disposed of as household waste. They must be given to collection points designed for that purpose.

In order to comply with the EU directive 2012/19/EU we take our devices back. We either re-use them or give them to a recycling company which disposes of the devices in line with law.

For countries outside the EU, batteries and devices should be disposed of in accordance with your local waste regulations.

If you have any questions, please contact PCE Instruments.





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