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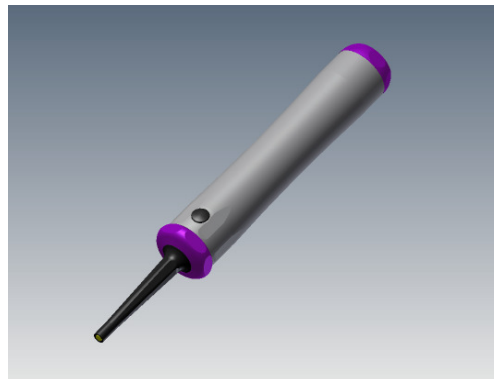


IMM Photonics GmbH

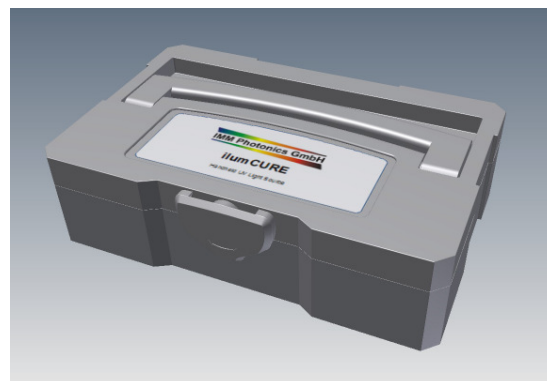
Operation Instructions

ilumCURE

Manual UV exposure unit in a mini systainer



ilumCURE (item no. 160000023A)



Complete case (item no. 1600000038)

Instructions for use

Purpose

The ilumCURE manual UV exposure unit is a UV LED light source with a peak intensity wavelength of 365 nm. It serves as a mobile UV source for curing UV adhesives.

Properties

The ilumCURE has a solid aluminium housing and was specially developed for field use. The built-in Li-ion battery permits a continuous operation of 3.5 hours, and it is charged via USB. Curing the UV adhesive only takes a few seconds thanks to the powerful UV LED.

Safety measures / warnings

- **Comply with safety regulations according to currently valid standards (2006/25/EC, DIN EN 62471-2009, etc.)!**
- **Do not look into the beam!**
- **Take precautions; use protective window or eye protection made of suitable materials (e.g. PMMA “Plexiglas”)!**
- **Always avoid exposure of skin and eyes!**
- **Avoid humidity (excessive air moisture > 95% r. h., splash water, direct immersion in water, etc.)!**
- **Do not expose the UV light source to excessive temperatures (see specifications)!**
- **Operation only by trained personnel (keep away from children)!**
- **Device contains a light guide rod made of glass, so protect from vibrations!**

Connection and charging

You can charge and / or operate the device with a standard USB-B plug cable (USB 2.0 and higher). You can connect it, for example, to your laptop / computer or to a USB port in your car while you are on the go. A suitable USB-A to USB-B cable is included in your case as an accessory. With the additionally included mains adapter you can charge or operate the device via a AC power outlet (110 - 230 V, 50 - 60 Hz). For this purpose, please connect the flat USB-A plug of the included cable to the mains adapter.

Maintenance

The device is generally maintenance-free! If the lighting tip with the integrated light conductor is dirty, it can be cleaned carefully with alcohol (e.g. isopropanol). The lighting tip can be taken off by carefully pulling towards the front and can be replaced if necessary. Please avoid fingerprints on the glass surfaces!

Disposal

Do not dispose of the device as general waste! Please use the local disposal facilities (e.g. collection stations etc.) or send it back to IMM Photonics.

Specifications

Total device dimensions	Length: 185 mm, max. diameter 27.5 mm
Lighting tip dimensions	Total length of tip: 53 mm Diameter 5 mm (along 8 mm)
Weight / material	Approx. 100 g / full-metal housing, anodised aluminium
Wavelength	365 nm
UVA intensity*	<ul style="list-style-type: none"> • 1600 mW / cm² @ 0 mm distance • 650 mW / cm² @ 2 mm distance • 250 mW / cm² @ 5 mm distance • 100 mW / cm² @ 10 mm distance • 40 mW / cm² @ 20 mm distance • 18 mW / cm² @ 30 mm distance • 10 mW / cm² @ 40 mm distance • 6.5 mW / cm² @ 50 mm distance
*measured with EIT SPOTCURE® UV INTENSITY METER SP365	
Start-up	Via push-button on the housing
Power supply / connection	- USB and / or battery operation / USB-B (5 V, 500 mA) - Mains adapter 5 V / 800 mA + USB-A / USB-B cable
Battery	Li-ion / 3.6 V, 2250 mAh
Battery protection functions	Overvoltage and undervoltage, overcurrent, excess temperature
Charging time for fully discharged battery	5.5 h
Operation time for fully charged battery	3.5 h (corresponds to approx. 1000 bonding steps with 10 s exposure time each)
Charging indicator (next to USB-B socket on the ilumCURE device)	Red / green: pre-charging of strongly discharged battery Red: battery is being charged Green: battery is fully charged
Operating / storage temperature	+5 °C to +45 °C / -10 °C to +70 °C
Humidity	5 to 95 % r. h. (non-condensing)
Accessories	<ul style="list-style-type: none"> • USB-A to USB-B cable, black, Length: 2 m (item no. 1510000018) • Mains adapter 5 V / 800 mA (item no. 890001014) • Syringe with 2 ml of UV adhesive Loctite 3491 (item no. 3120000498) • Thin syringe needle (item no. 3120000072) • Medium syringe needle (item no. 3120000071) • Thick syringe needle (item no. 3120000210)

The above product specifications are subject to change without notice. Release 06/2013.