

ilumCURE 2G



ilumCURE 2G is a UV LED illumination system for hardening UV adhesives reproducibly at high intensities with a peak intensity wavelength of 365 nm or 405 nm.

The device facilitates continuous illumination as well as timer- and interface-controlled illumination with an adjustable intensity. It can be employed for both mobile and stationary applications (e.g. in automated production). For mobile usage, the built-in lithium-ion battery permits a continuous operation of up to 3.5 hours at full intensity. The USB interface is used for charging, parameterisation and process automation.

Reproducible hardening processes are ensured in real time by a controller-operated LED current measurement as well as by a heat management system with metal core technology. A robust aluminium housing and an exchangeable battery ensure the longevity of the product.

Wavelength	365 nm	365 nm	405 nm	405 nm
Art. No.	1600000053	1600000067	1600000090	1600000089
Packaging	systainer	quadrosafe	systainer	quadrosafe
LED				
UVA Power	250 mW (typ.) at 100 % adjusted intensity		290 mW (typ.) at 100 % adjusted intensity	
Lifetime	7000 h at 80 % UV LED emission			
Setting options / operation				
Trigger illumination	Via push-button on housing and USB			
Illumination time	Timer enabled: 1.0 s – 120.0 s, resolution 0.1 s Timer disabled: limited by protection features only			
Intensity	10 % - 100 %, CW-dimmed, 10 % resolution			
Timer	Can be switched on and off			
Beep signal	Can be switched on and off			
Programming on hand set	Can be switched on and off			
Software				
Supported Windows versions	XP (32 bit), 7 (32 and 64 bit), 8 (32 and 64 bit), 10 (32 and 64 bit), 11 (32 and 64 bit)			
Max. number of devices per PC	127			

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Power management				
Battery	Li-Ion / 3.6 V, 2250 mAh, exchangeable			
Operating time when battery is fully discharged	< 4.0 hours fast charge, < 5.5 hours standard charge			
Operating time when battery is fully charged	3.5 hours			
Fast charged	Automatically detected			
Chargers	Fast charge: USB mains adaptor 5 V / 1000 mA Standard charge: PC, various USB mains adaptors			
Charge indicator (next to USB-B port)	Blinking red: fast charge Red: standard charge / Green: battery is fully charged			
Protection features				
Battery	Overvoltage and undervoltage, overcurrent, excess temperature			
UV LED excess temperature	Switch-off at LED temperature > 50 °C			
LED current	Intensity 10% - 30%: Switch-off if nominal current value is exceeded by ±15 % Intensity 40% - 100%: Switch-off if nominal current value is exceeded by ±5 %			
Error indication	Blinking orange for 10 s, beeping: LED current error Blinking orange, beeping as long as UV LED too hot: excess temperature			
General information				
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. 108 g / full-metal housing, anodised aluminium			
Operating / storage temperature	+5 °C to +45 °C / -10 °C to +70 °C			
Humidity	5 % to 95 % r. h. (non-condensing)			
Included in delivery scope	<ul style="list-style-type: none"> • Systainer • USB-A to USB-B cable • Fast charge mains adaptor • USB flash drive with software 	<ul style="list-style-type: none"> • USB-A to USB-B cable • USB flash drive with software 	<ul style="list-style-type: none"> • Systainer • USB-A to USB-B cable • Fast charge mains adaptor • USB flash drive with software 	<ul style="list-style-type: none"> • USB-A to USB-B cable • USB flash drive with software
Available accessories	<ul style="list-style-type: none"> • Variable collimating lens W (Art. No. 1600000064) • Variable collimating lens N (Art. No. 1600000071) 	<ul style="list-style-type: none"> • Fast charge USB mains adaptor (Art. No. 1600000100) • Variable collimating lens W (Art. No. 1600000064) • Variable collimating lens N (Art. No. 1600000071) 	<ul style="list-style-type: none"> • Variable collimating lens W (Art. No. 1600000064) • Variable collimating lens N (Art. No. 1600000071) 	<ul style="list-style-type: none"> • Fast charge USB mains adaptor (Art. No. 1600000100) • Variable collimating lens W (Art. No. 1600000064) • Variable collimating lens N (Art. No. 1600000071)

Subject to technical modifications. As per April 2022.

SETTING OPTIONS / OPERATION



Via Software:

- Intensity from 10 % to 100 %
- Cure time from 1.0 s to 120.0 s
- Illumination timer on or off
- Beep signal at the end of illumination period on or off
- Time programming on hand set locked or allowed

Via hand set:

- Illumination time from 1.0 s to 120.0 s
- Trigger illumination

PROCESS AUTOMATION

- Using a permanent USB connection ilumCURE 2G devices can be controlled remotely from the PC
- A Software Development Kit for the integration into proprietary code (such as Labview, C#) is available
- Major functionalities: illumination on/off, intensity profiles, status requests, up to 127 devices per PC

NOTES

The above product specifications are subject to change without notice.
Release 04/2022

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