



LED

LED Cube 100 IC & LED Cube 350 IC

LED-UV Curing Chambers

System-Features

- Irradiation intensity up to 5.000 mW/cm²
- Wavelengths: 365, 385, 395, 405 and 460 nm
- usable irradiation space approx. 350 x 350 x 320 mm resp. approx. 180 x 180 x 180 mm (HxWxD)
- Intelligent linking of door and LEDs

Advantages

- Homogenous irradiation
- Suitable for temperature sensitive materials
- No warm-up or stand-by time
- Lamp units with different wavelengths easily exchangeable

LED Cube 100 IC & LED Cube 350 IC

The LED Cube IC is a LED-UV irradiation chamber for use in the laboratory or for manual production.

Your Benefit

- Flexible for a wide range of applications: the emission spectrum and irradiation intensity can be customized by using different LED-UV units
- High-intensity and homogenous light distribution inside the chamber: special arrangement of LEDs, electronic power control, reflective inner wall structure and optimized reflectors of curing device
- Process reliability: LED failure detection and extensive monitoring functions

Applications

- Adhesive and potting compound curing of components in the electronic, optical and medical technology sectors
- High-intensity UV irradiation for the chemical, biological and pharmaceutical sectors

Operational safety

The safety system of the LED Cube IC reliably protects the operating personnel from UV radiation. The door and LEDs are logically linked: if the door is opened during operation, the LEDs switch off immediately.

Facts & Figures

Type	LED Cube 100 IC					LED Cube 350 IC				
Usable Irradiation Space (HxWxD)	approx. 180 x 180 x 180 mm					approx. 320 x 350 x 350 mm				
Wavelengths in nm	365	385	395	405	460	365	385	395	405	460
typ. intensity in mW/cm²										
LED Spot 100 HP IC	2.200*	3.000*	3.500*	4.000*	5.000**	2.200*	3.000*	3.500*	4.000*	5.000**
LED Spot 100 IC	1.100*	1.500*	1.700*	2.000*	2.500**	1.100*	1.500*	1.700*	2.000*	2.500**
LED Spot 200 HP IC						2.200*	3.000*	3.500*	4.000*	5.000**
Cooling	air cooling (suitable for continuous operation)									
Supply LED powerdrive IC	115 – 230 V, 50 – 60 Hz									
Electrical LED-power adjustable	from 10% to 100% in 1%-steps									
Timer setting range (in seconds)	sequential from 0,01 to 9999 Sec., suitable for continuous operation									
Input current max.	5,0 A									

* measured with Hönle LED area sensor for UV-Meter, distance 0 mm

** measured with Hönle VIS area sensor for UV-Meter, distance 0 mm

Control and Supply

The LED Cube IC is supplied and controlled via the **LED powerdrive** IC controller.

- **Plug&Play** solution
- Automatic detection of the connected LED Spot
- The display shows **at one glance**: operating status, temperature of LEDs, irradiation time
- Exposure can be triggered via the touch keypad or via the foot switch
- Recording of the operation hours of LED device and control unit
- Further information and settings in the service menu

Advantages of LED technology

- Low maintenance thanks to a typical service life of more than 20.000 hours
- No warm-up time, **immediately ready for use**
- **No IR radiation** and only minimal temperature load for temperature-sensitive materials