



LED Cube 100

Compact LED-UV curing chamber

Max. irradiation intensity: up to **1.000 mW/cm²**

Wavelength: **365, 385, 395 and 405 nm**

Air cooled

System-Features

- Extremely long LED service life
- Available in different wavelengths
- Power control between 10 - 100 %
- Intelligent door-LED-connection

Advantages

- Homogenous irradiation
- Suitable for temperature sensitive materials
- No heating phase
- No stand-by time
- Lamp units with different wavelengths easily exchangeable

LED Cube 100

The LED Cube 100 is a compact UV irradiation chamber for use in the laboratory or for manual production. By employing different LED units the emission range is adjustable to various fields of application.

The LED assembly, as well as an electronic power control, guarantee high intensity and homogenous distribution of light. The recognition of LED-malfunction and a comprehensive monitoring function provide very high process stability.

The typical **service life of a LED is more than 20.000 hours***. The LED Cube 100 can be switched on and off as often as necessary, as LEDs do not require a heating or cooling phase.

The emitted wavelengths are available in 365/385/395/405 nm +/- 10 nm. This allows to adapt the LED head to the existing application.

Applications

The LED Cube 100, controlled by the LED **powerdrive**, is suited for various applications:

- Bonding, fixing or encapsulating components in the electronic, optical or medical sector
- highly intensive UV irradiation in the biological, chemical and pharmaceutical sector

Compact dimensions

The irradiation chamber LED Cube 100 with a usable irradiation area of approx. 180 x 180 x 180 mm (HxWxD) is especially suitable for smaller workpieces or workpiece carriers. The reflective inner surface and the optimized reflector geometrics provide for a **homogenous irradiation** and a high process reliability.

LED activation

The irradiation time can be optionally set between the ranges 0,01 - 99,99 sec. or 0,1 - 999,9 sec. or 1 - 9999 sec. Alternatively, continuous operation can be chosen. The operating status and the actual temperatures of the LED segments, as well as the irradiation times, can be seen on the display at one glance.

The **electrical LED power can be adjusted in 1%-steps between 10 % and 100 %**. The light exposure can be activated whether by keypad or foot switch. The unit records the service hours of the LED head and of the controller.

Operational safety

The LED Cube 100 has got a safety system which guarantees that the user is safe from UV radiation. Door and LEDs are logically connected: When the door is opened during operation, the LEDs are switched-off immediately.



Advantages of LED technology

LEDs **do not emit IR radiation**. Even **temperature-sensitive materials** can be irradiated. The **different available spectra** guarantee safe and fast curing. As LEDs do not require a heating phase, LED heads can be switched on and off without any problems: they are **ready for immediate operation**.

Technical data

LED service life	> 20.000 hours*			
adjustment range of timer (in sec.)	0,01 - 99,99 or 0,1 - 999,9 or 1 - 9999 or continuous operation			
wavelengths in nm (+/- 10)	365	385	395	405
typ. intensity in mW/cm ² **	100	450	450	1000
power supply	90 V – 264 V,			
LED powerdrive	47 Hz – 63 Hz			
max. input current	2,2 A			



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