



LED

**LED Spot 100 IC / LED Spot 100 HP IC
LED Spot 200 HP IC
& LED powerdrive IC**

System features

- Irradiation with more than 5.000 mW/cm²
- Wavelengths: 365, 385, 395, 405 und 460 nm
- Irradiation area:
100 x 100 mm resp.
200 x 50 mm

Advantages

- Low temperature load
- Stackable without gap for larger areas
- IC (Integrated Controller) or Plug & Play with **LED powerdrive IC**

LED Spot 100 IC / 100 HP IC & LED Spot 200 HP IC

The solution for all applications which need a highly intensive UV irradiation on larger areas.

Your Benefit

- Homogeneous irradiation of the substrate due to a uniform light distribution for perfect curing results
- Process reliability thanks to the recognition of LED-malfunction and comprehensive monitoring functions
- A maximum of productivity as well as safe and reproducible quality in automated production lines
- Flexibility of use: Irradiation of different geometries by a modular stringing together of several LED Spots for homogenous irradiation
- Suitable for any substrate due to different wavelengths

Application fields

- Bonding, fixing or encapsulating of components in the **sectors Electronics, Opticals or Medical Engineering**
- **Fluorescence simulation** for material testings, particle detection and optimizing AOI applications
- High-intensive UV irradiation in the **biochemical sector**

Advantages of LED Technology

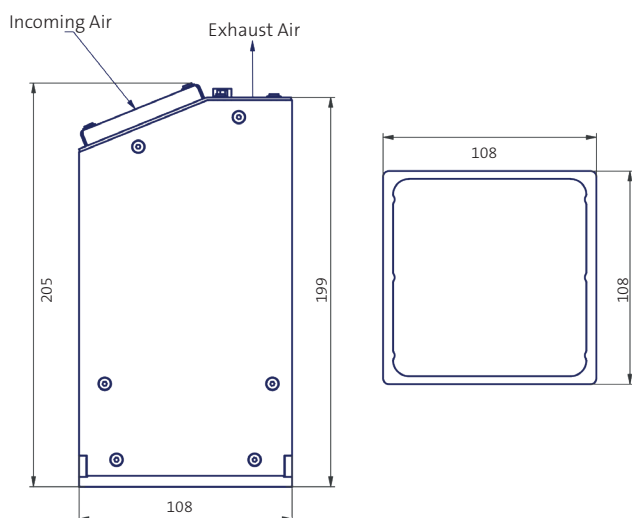
- Low-maintenance due to typically more than **20.000 hours LED-lifetime**
- No warm-up phase, ready for **immediate operation**
- **No IR irradiation**, lowest temperature load for temperature-sensitive materials

Facts & Figures

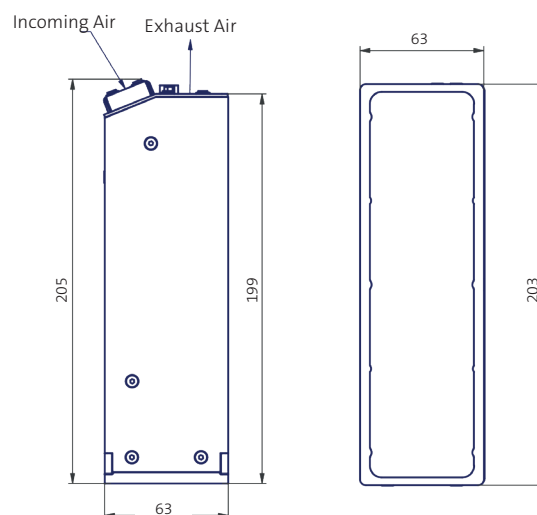
Type	LED Spot 100 IC / LED Spot 100 HP IC	LED Spot 200 HP IC
Available wavelengths [nm], +/- 10 nm	365 385 395 405 460	365 385 395 405 460**
Typical intensities [mW/cm ²]*	1.100 1.500 1.700 2.000 2.500**	
Typical intensities HP version [mW/cm ²]*	2.200 3.000 3.500 4.000 5.000**	2.200 3.000 3.500 4.000 5.000**
Dimensions [mm] (B x T x H)	108 x 108 x 205	203 x 63 x 205
Light-emitting aperture in mm:	100 x 100	200 x 50
Interfaces	Digital PLC interface, BUS control via RS485	
Safety	Integrated Control (IC): monitoring functions including short-circuit, interruption, excess temperature and reading out of operation hours	
Cooling	air cooling (apt for continuous operation)	

* measured with LED-F3 /(LED-VIS-F1) ** surface sensor for UV-Meter

LED Spot 100 (HP) IC



LED Spot 200 HP IC



Control and Supply

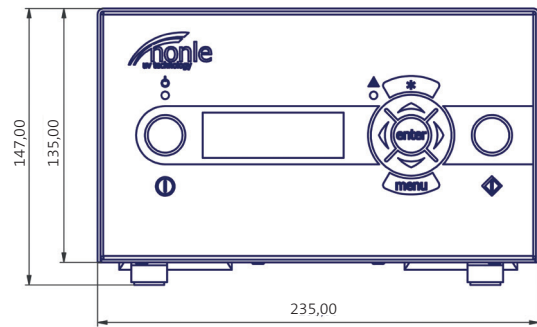
Mains supply and control of all LED Spots IC are provided by the optionally available LED powerdrive IC or directly by customers' power supply and PLC.

Control and Supply via LED powerdrive IC

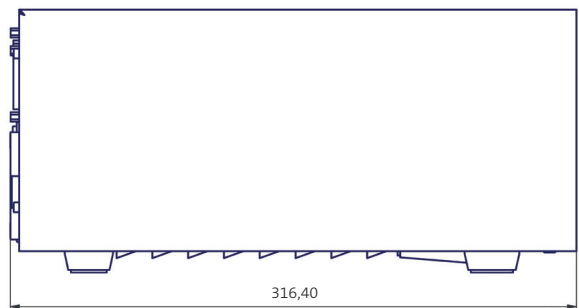
- **Plug&Play** solution
- Automatic recognition of the connected LED Spot
- For direct reading on the display **at one glance**: operation status, LED temperature, irradiation time
- **Electrical LED power** adjustable in 1%-steps from **10% to 100%**
- Comprehensive functions for monitoring, safety and stability of the process
- Available in various versions, **optionally with safety-related release according to performance level e**
- Further information and adjustments in the service menu

Userfriendly

- **Intuitive operation** on clearly arranged display
- **Operation panel** for a fast and guided adjustment of the main parameters: power and time
- Saving of the adjusted parameters due to **key-lock-function**



Front view



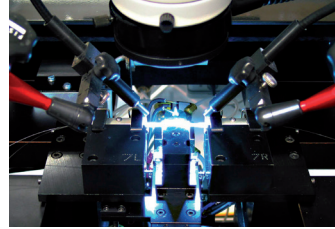
Side view

Control & Supply of the LED Spot IC	LED powerdrive IC	Customer-specific
		LED powerdrive 400 IC: for 1 LED Spot LED powerdrive 1200 IC: for up to 3 LED Spots
Intensity regulation adjustable in [%]	10% - 100% (1%-steps) analog dimming via 0-10-V signal	
Adjustment of irradiation times	sequential from 0,01 to 9999 s suitable for continuous operation	
Interfaces	Digital PLC interface RS-232	Control via SPS interface / RS-485
Cycle resp. reaction times [sec]	0,1 s	100 µs
Monitoring	Monitoring of LED segment relating temperature, short-circuit, malfunction, operation hours	Integrated control (IC) inside LED Spot
Safety	Safety-related release according to performance level e in HS version	-
Further options	Controllable via foot switch Adapter for operation with up to 3 foot switches	

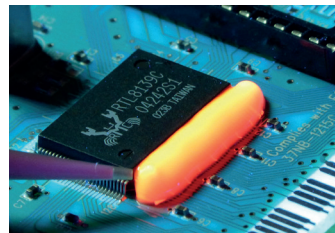


Unique system competence for industrial bonding processes


Dr. Hönle AG offers a various range of **LED-UV and conventional UV systems** which lead to a complete curing of adhesives or sealants within only fractions of a second.



Perfectly matched: the **high-tech adhesives** of our subsidiary **Panacol** which are used for industrial bonding processes worldwide for example in key industries such as Electronics, Microelectronics, Optics, Medical Devices, Automotive and E-Mobility.



More Hönle LED units (Examples)

Air cooled type 

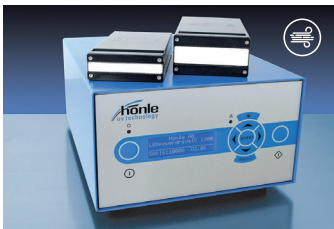
Water cooled type 



LED Spot 40 IC
compact flood unit with
high intensities



LED Powerline LC
length variable in
40-mm steps in the
wavelengths 365/385/
395/405 nm



LED Powerline AC/IC
air cooled high-performance
UV-LED array



bluepoint LED eco
a highly intensive UV-LED-
point source