

bluepoint LED

LED point source with Process Flow Control

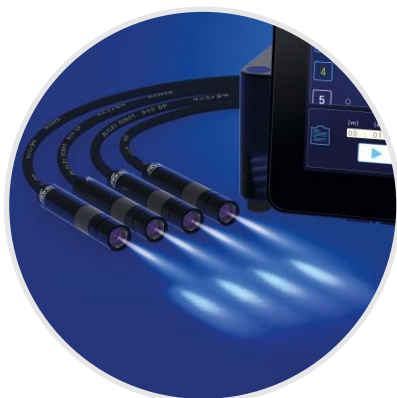
Product Features

- Compact control unit
- Removable touch display, suitable for mounting on production machine
- Operation of up to 20 LED heads
- Various optical lenses available
- Intensity up to 20.000 mW/cm²
- Available wavelengths 365/385/405nm
- Intelligent power control
- Power setting from 10% - 100%
- Input of complete program sequences thanks to Process Flow Control (PFC). Six different programs possible.



4

LED heads per control unit



5

Control units can be stacked



20

LED heads combinable

LED Control

Manual

The UV-LEDs can be controlled manually on the touch display with selectable password protection

PLC Interface

For switching on, monitoring and status feedback of the LEDs. External analog input for each LED head separately for individual power setting. Release contact with safe switch-off of the LEDs in accordance with current safety guidelines.

RS232

RS232 interface for external control and transmission of exposure parameters.

Profinet

Optional: Control via Profinet.

Accessories

The functional range of the bluepoint LED can be extended by using optional accessories:

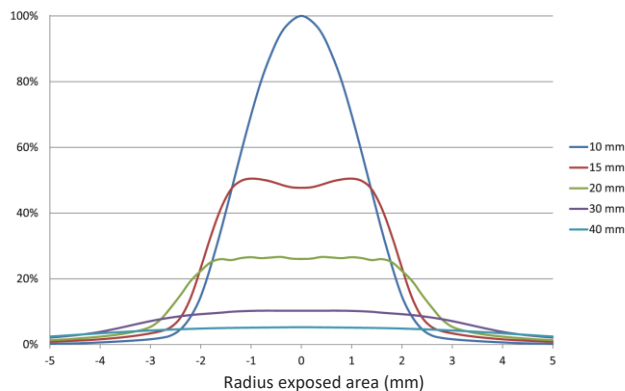
- Adapter for 90° beam deflection for use in narrow space
- Extension cable in different lengths
- Adapter to operate up to four foot switches per control unit

Technical Data

LED service life	> 20.000 hours
Intensity	up to 20.000 mW/cm ² **
Wavelengths	365, 385, 405 nm +/-10 nm
Power supply	20 V – 28 V DC
Max. input current	3,5 A per controller

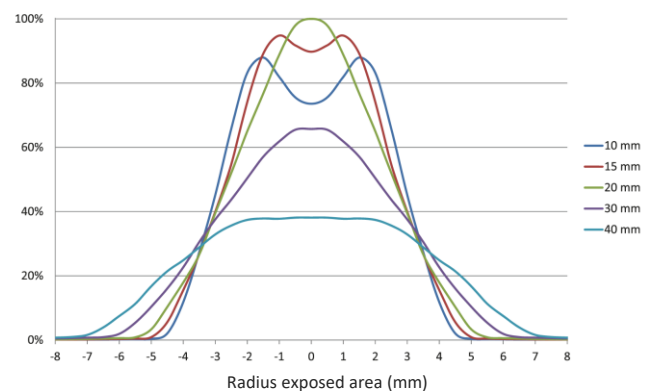
Lens types for bluepoint LED

Optic 3



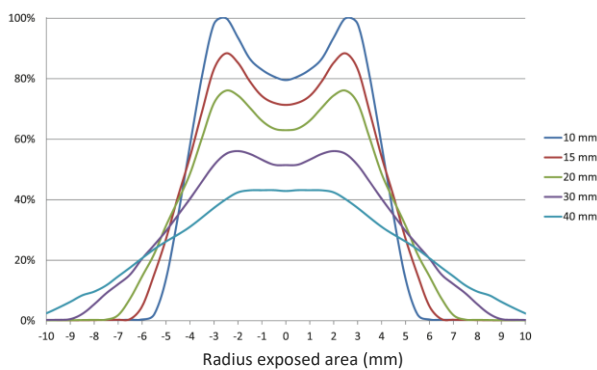
Wavelength (nm)	365	385	405
Intensity* (mW/cm²) at 100%	14000	20000	20000
Working distance (mm)	10		
Full width at half maximum (mm)	3		

Optic 7



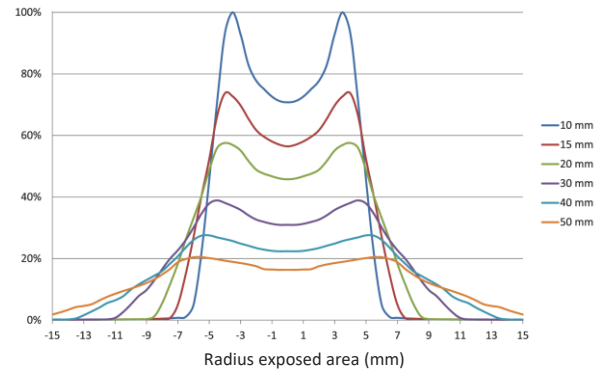
Wavelength (nm)	365	385	405
Intensity* (mW/cm²) at 100%	4000	4800	3800
Working distance (mm)	10		
Full width at half maximum (mm)	7		

Optic 10



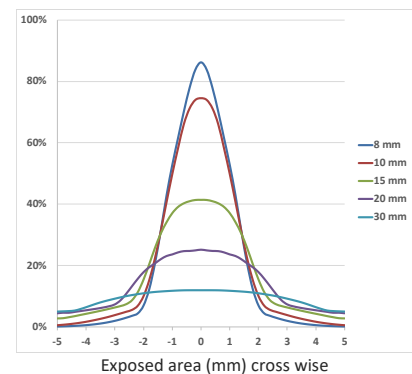
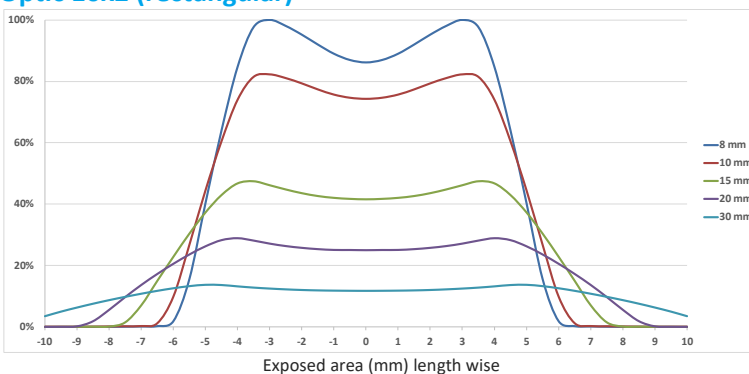
Wavelength (nm)	365	385	405
Intensity* (mW/cm²) at 100%	2000	2600	2400
Working distance (mm)	20		
Full width at half maximum (mm)	10		

Optic 20



Wavelength (nm)	365	385	405
Intensity* (mW/cm²) at 100%	1450	1850	1650
Working distance (mm)	40		
Full width at half maximum (mm)	20		

Optic 10x2 (rectangular)

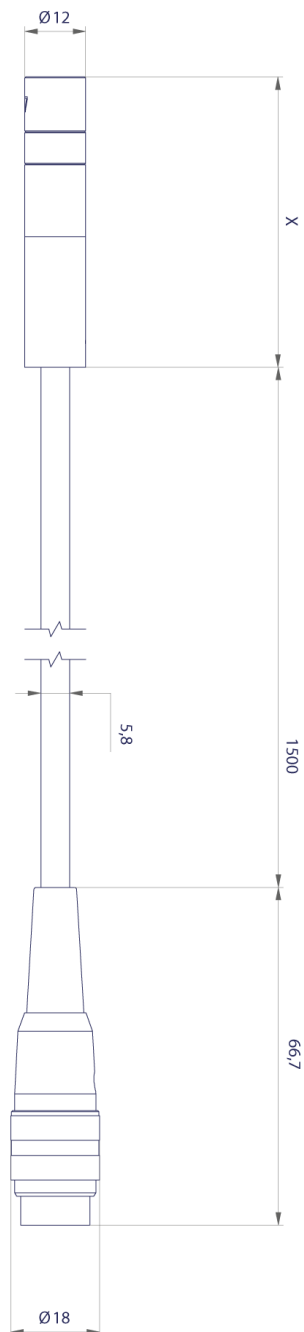


Wavelength (nm)	365	385	405
Intensity* (mW/cm²) at 100%	4500	7000	7000
Working distance (mm)	10		
Half width cross wise (mm)	2,5		
Full width length wise (mm)	10		

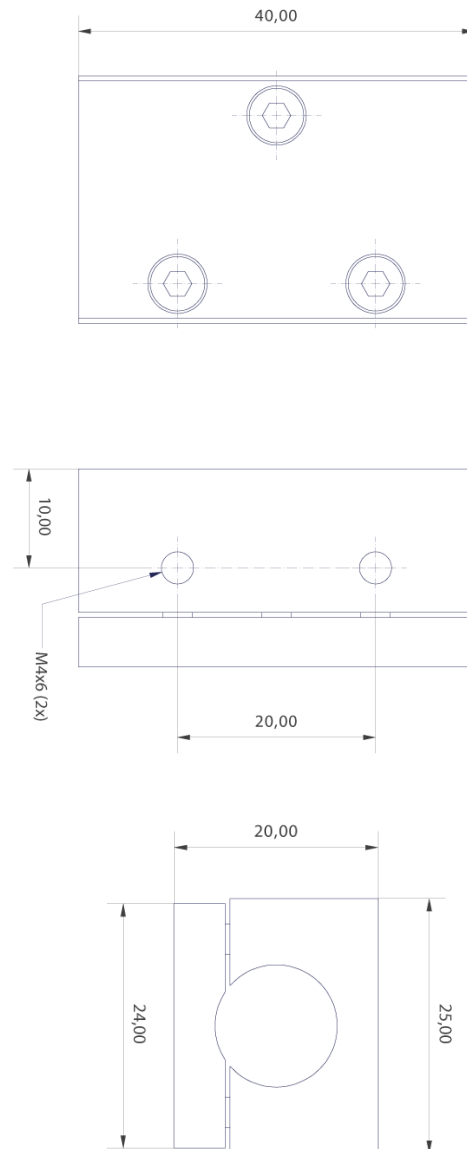
*measured with a Hoenle UV meter and LED light guide sensor L2

Drawings

LED head HP



Mounting adapter LED head HP



Lens type	Length LED head HP (x) in mm
Optic 3	55.9
Optic 7	57.3
Optic 10	54.5
Optic 10x2	55.5
Optic 20	52.5

Overview UV Curing Systems

Process Solutions with Hönle UV Technologies

Dr. Hönle AG is a manufacturer of UV technology and offers curing units with UV LEDs and conventional medium-pressure lamps. Hönle and Panacol attach great importance to joint research and development. The combination of decades of experience enables us to deliver high-tech curing systems for bonding solutions.

LED Spotlights bluepoint

High intensity small area
UV irradiation



LED Cube LED Curing Chambers

Reliable protection against
UV radiation



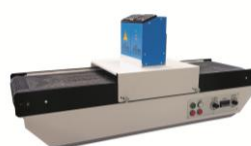
LED Line Emitters LED Powerline

High-power arrays with
individual length



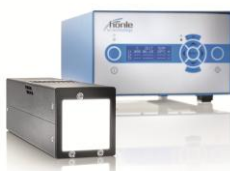
Convey LED LED Conveyor Belts

Can be combined with LED
Powerline or LED Spot for
high output



LED Floodlights LED Spot

Homogeneous light
distribution with high
intensity



UV Meter
Measurement of intensity
and dose for reliable
process monitoring



UV Sources	Dimension in mm	Available Wavelength in mm	Intensity in mW/cm²	Cooling
LED Spotlights	Light emission up to Ø 20	365/385/405	up to 20.000	air-cooled
LED Line Emitters	Light emission width 10/20/40, length variable	365/385/395/405/460	up to 25.000	air and water-cooled
LED Floodlights	Light emission 20x20 / 40x40 / 100x100 / 200x50	365/385/395/405/460	up to 30.000	air and water-cooled
LED Curing Chambers	Inner dimension 180x180 / 350x350	365/385/395/405/460	up to 5.000	air-cooled
LED Conveyor Belts	Belt width 110 - 520	365/385/395/405/460	up to 25.000	air and water-cooled