

## bluepoint LED

LED point source with Process Flow Control

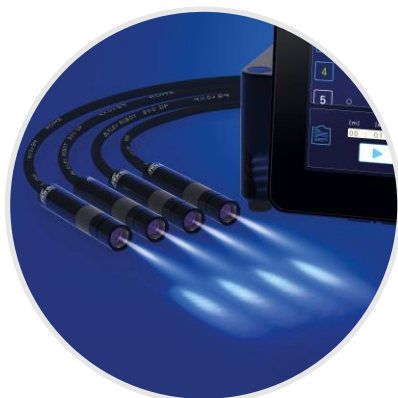
### Product Features

- 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/cm<sup>2</sup>
- 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:

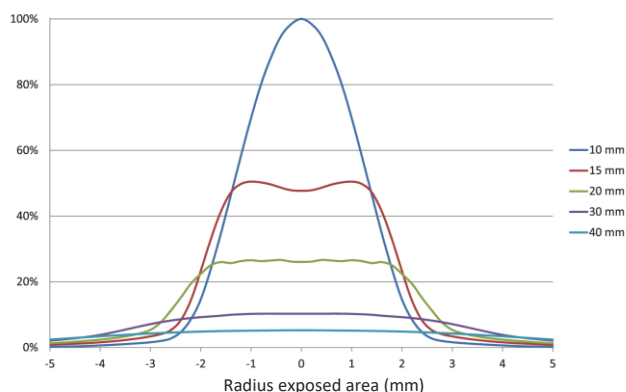
- Adapter for 90° beam deflection for use in narrow space
- Extension cable in different lengths
- Adapter to operate up to four foot switches per control unit

### Technical Data

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

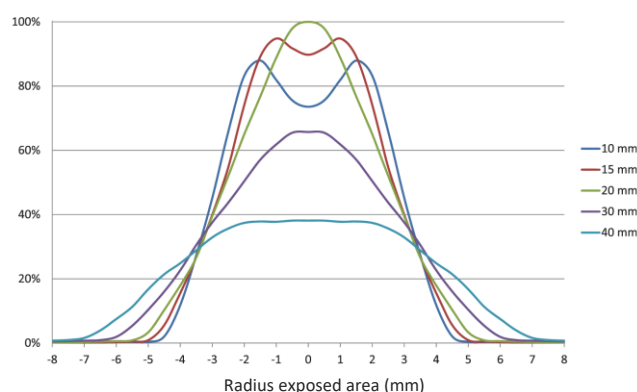
## Lens types for bluepoint LED

### Optic 3



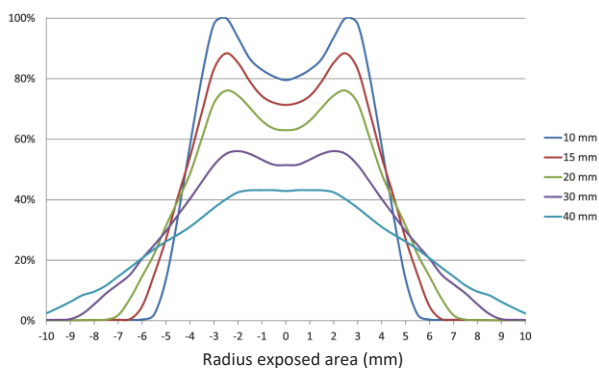
Wavelength (nm)	365	385	405
Intensity* (mW/cm²) at 100%	14000	20000	20000
Working distance (mm)		10	
Full width at half maximum (mm)		3	

### Optic 7



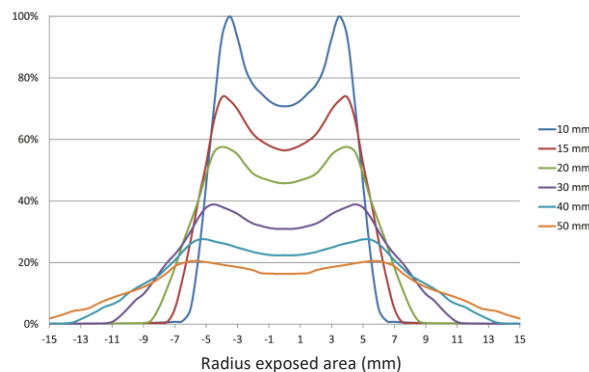
Wavelength (nm)	365	385	405
Intensity* (mW/cm²) at 100%	4000	4800	3800
Working distance (mm)		10	
Full width at half maximum (mm)		7	

### Optic 10



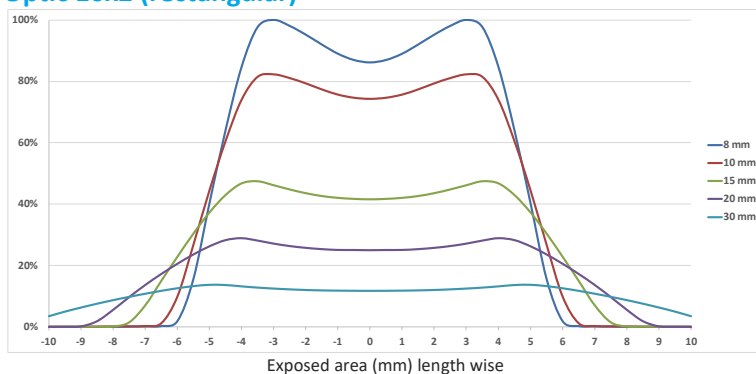
Wavelength (nm)	365	385	405
Intensity* (mW/cm²) at 100%	2000	2600	2400
Working distance (mm)		20	
Full width at half maximum (mm)		10	

### Optic 20

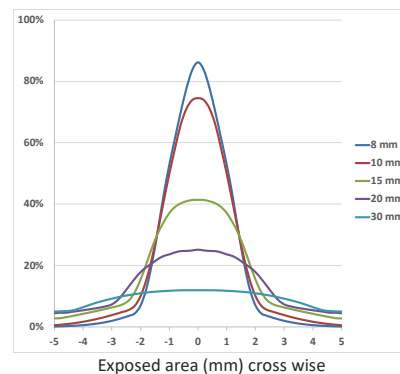


Wavelength (nm)	365	385	405
Intensity* (mW/cm²) at 100%	1450	1850	1650
Working distance (mm)		40	
Full width at half maximum (mm)		20	

### Optic 10x2 (rectangular)



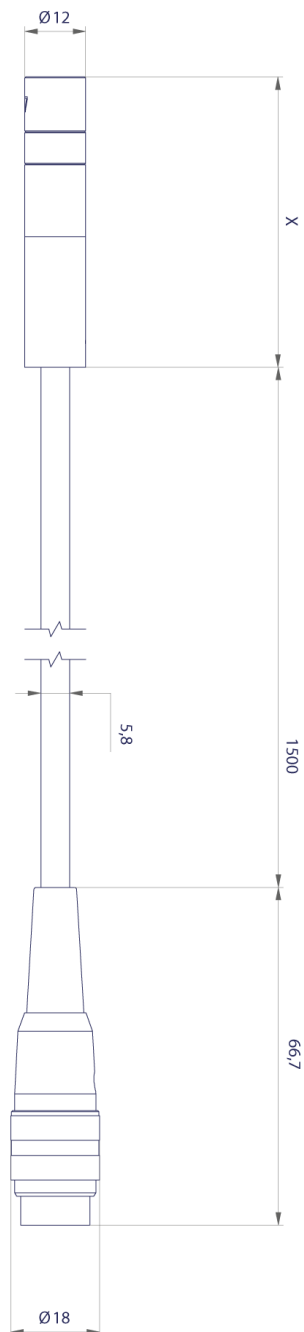
Wavelength (nm)	365	385	405
Intensity* (mW/cm²) at 100%	4500	7000	7000
Working distance (mm)		10	
Half width cross wise (mm)		2,5	
Full width length wise (mm)		10	



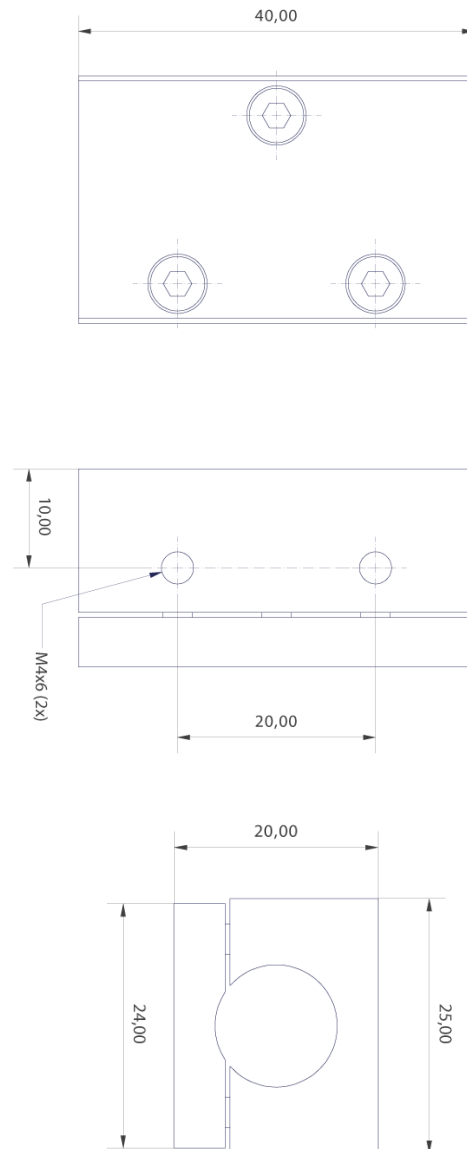
\*measured with a Hoenle UV meter and LED light guide sensor L2

## 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 have attached great importance to joint research and development for decades. The combination of this expertise makes it possible to supply high-tech system products for bonding solutions.

#### LED Spotlights

High intensity small area  
UV irradiation

#### bluepoint



#### LED Cube

#### LED Curing Chambers

Reliable protection against  
UV radiation



#### LED Line Emitters

High-power arrays with  
individual length

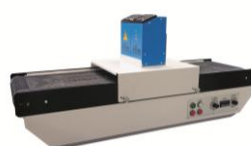
#### LED Powerline



#### Convey LED

#### LED Conveyor Belts

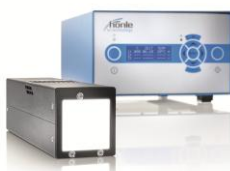
Can be combined with LED  
Powerline or LED Spot for  
high output



#### LED Floodlights

Homogeneous light  
distribution with high  
intensity

#### LED Spot



#### UV Meter

#### UV Measurement

Measurement of intensity  
and dose for reliable  
process monitoring



UV Sources	Dimension in mm	Available Wavelength in mm	Intensity in mW/cm <sup>2</sup>	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