

## High-power UV-led solo P



The high-performance UV LED Solo P combines a compact, variable, and economic point light source for manual bonds in an ergonomic design. The UV LED Solo P requires no external control and can be operated directly with a mains power adapter. The UV LED is also quickly switchable.

The wavelengths of 365, 385, 395, 405, and 450 nm are available for different applications.

In addition, several beam profiles with interchangeable optics are available. The UV radiation of high-power LED is focused in the desired working distance. The high irradiance of 24,000 mW/cm<sup>2</sup> allows for short processing times.

### Available optics:

- Standard for working distance 19 mm
- High power for working distance 7 mm
- Parallel beam for working distance 30 to 60 mm

### HIGHLIGHTS

- High power UV-LED
- 365, 385, 395, 405, or 450 nm
- Highly efficient UV radiation
- No thermal radiation
- Long lifetime
- Ergonomic design

### APPLICATIONS

- UV curing
- UV bonding
- UV sealing
- UV gluing
- Micro curing
- Irradiation of biological samples
- Hairline and leak detection using fluorescence markers
- Fluorescence excitation

## TECHNICAL DATA

<b>Wavelength</b>	365, 385, 395, 405 or 450nm
<b>Max. irradiance</b>	> 24000 mW/cm <sup>2</sup>
<b>Dimensions</b>	Ø 15 x 143 mm
<b>Cable length</b>	1 m
<b>Weight</b>	~ 130 g
<b>Operating voltage</b>	100 - 240 V, 50/60 Hz
<b>Power</b>	5 W
<b>Classification</b>	risk group 3 according DIN EN 62471:2009-03
<b>Operating temperature</b>	5 to 40 °C
<b>Surface temperature</b>	max 60°C ED >0,5 may require cooling
<b>Storage temperature</b>	-10 to 60 °C
<b>Humidity</b>	< 80%, non-condensing
<b>Connection</b>	DC in, foot switch (optional)
<b>Button</b>	1, (pressed = on)
<b>Cooling mount, dimensions</b>	D 50 mm, h = 25 mm

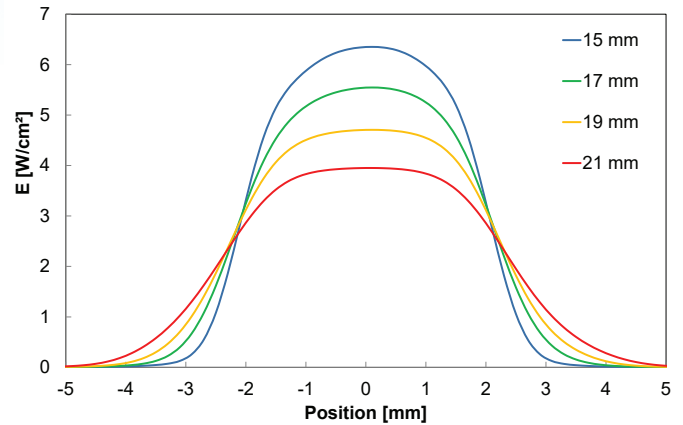
## PART NUMBERS

<b>UV-LED solo P on/off</b>	860614
<b>Foot switch</b>	860611
<b>UV safty goggles</b>	918800
<b>Additional optic</b>	860605
<b>Cooling mount</b>	860605c
<b>Wall plug adapter for solo P</b>	400POW
<b>Bend protection &amp; extension</b>	860604V3 (cable 3 m)
<b>Bend protection &amp; extension</b>	860604V5 (cable 5 m)

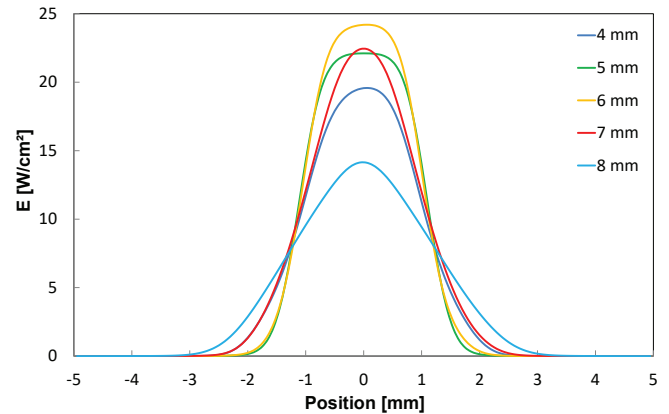
## SCOPE OF DELIVERY

UV-LED solo P incl. optic, wall plug adapter

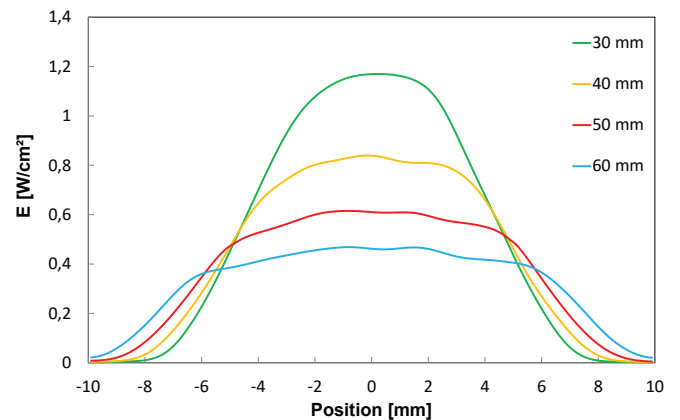
Unless otherwise stated we deliver optic „Standard“ and 365 nm. Please specify wavelenght and optic during ordering.



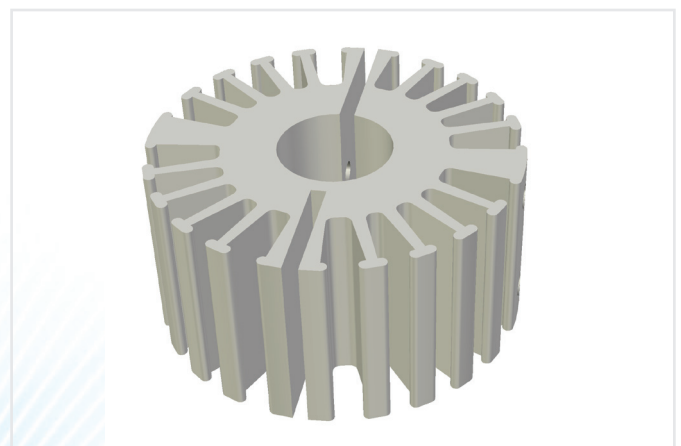
Irradiance profile vs. distance for 385 nm and optic „Standard“



Irradiance profile vs. distance for 385 nm and optic „High-Power“



Irradiance profile vs. distance for 385 nm and optic „Parallel Beam“



Cooling mount with clamping function

## SAFETY

The equipment contains LEDs that emit UV-A radiation and blue light. UV radiation is invisible. The light you see is just luminescence caused by the UV. Mostly, luminescence is much weaker than the exciting UV.

UV-A light may lead to cataract formation in the eye lens and to photo-retinitis. Always use proper UV protection goggles when operating the device. The UV-A also causes pigmentation and aging of the skin. Please use proper clothing, gloves, and/or sunscreen depending on exposure. Avoid irradiating skin or eyes directly! UV irradiance in the spot is several hundred times higher than that of sunlight!

This device is classified to risk group 3 (High Risk) according to DIN EN 62471:2009-03 "Photobiological safety of lamps and lamp systems."

For protection, the operating staff should not look into the LED and should not expose their skin continuously to UV/VIS radiation.

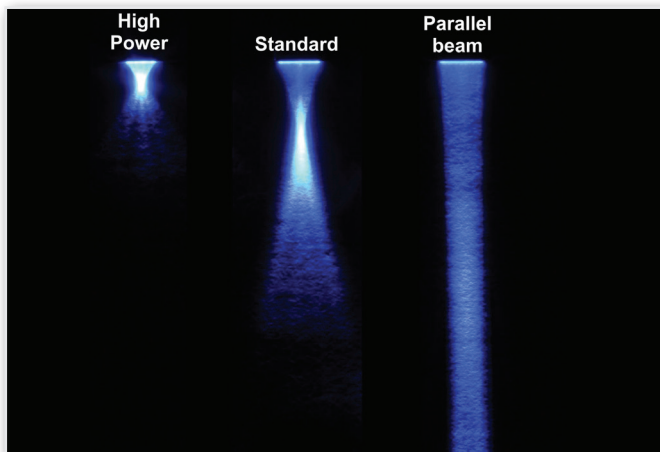
In most cases straylight from the LED application is not critical, but the job security and risk assessment must be secured by the user.

We will gladly assist you with UV job security and risk assessment according to EN 14255:2005.



## BEAM PROFILES AND OPTICS OPTIONS

For the UV LED solo P three replaceable lenses are available. For small spot diameter, our optics „Standard“ and „High Power“ are best suited. Larger working distances and spot diameter can be achieved by the optic „parallel beam“.

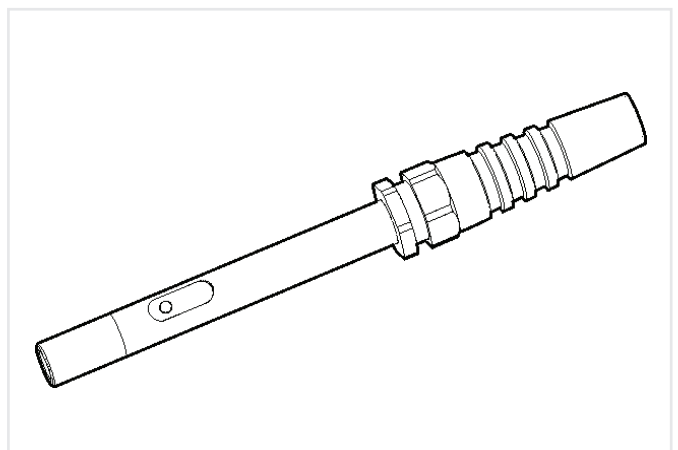


Beam profiles

## EASY-TO-USE-TIPS

For the easy-to-use operation we recommend to order the optional footswitch.

A extension cable with bend protection is available for work on hard-to-reach places.



Bend protection for cable, includes extension cable