

## Introduction

Involving UVA LED technology eliminates ineffective visible and near infrared radiation and thus reduces heating of the irradiated locations. CureStick is designed as low-cost spot cure UV light source without need for special controller. Optional controller is used to adjust exposition time, radiation power rating and other required parameters. Due to fast switching properties of CureStick, there are no needs for mechanical shutter, it is realized by electrical pulse switching. Irradiance, shutter time, triggering is given by external controller. CureStick with controller is safely placed in application box. This system can be used for various applications where point UVA source is required. We can offer extension of this system to high power UVA systems for printers, curing, sealing and other applications according to customer needs from several watts to several kWatts.

# CureStick

## reliable curing

### Applications:

- 🌱 UV curing,
- 🌱 UV bonding,
- 🌱 UV sealing,
- 🌱 Fluorescence excitation,
- 🌱 Biological samples irradiation,

### Technical data:

Wavelength:  $365 \pm 5$  nm, 10 nm bandwidth  
Spot diameter: > 10 mm  
Maximum irradiance: 800 mW  
LED Class: 3B  
Dimensions: 10 x 105 mm  
Power consumption DC: 2,8 W  
Cooling: natural by air  
Overheating protection: 75°C  
Operation Temperature: 0-30°C  
Humidity: up to 85% non condensing  
Storage temperature: -10 to 80°C



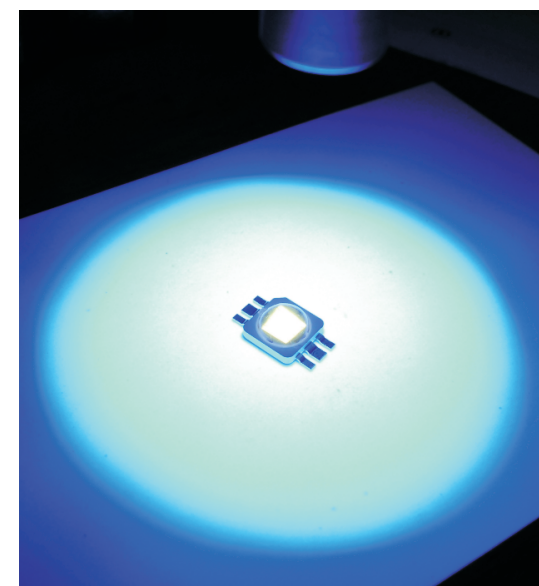
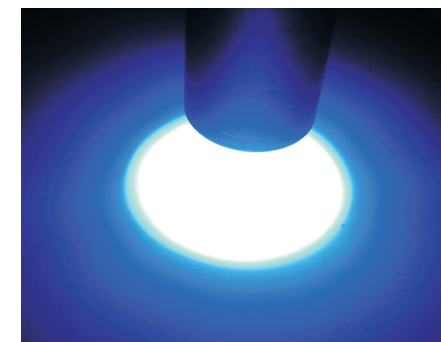
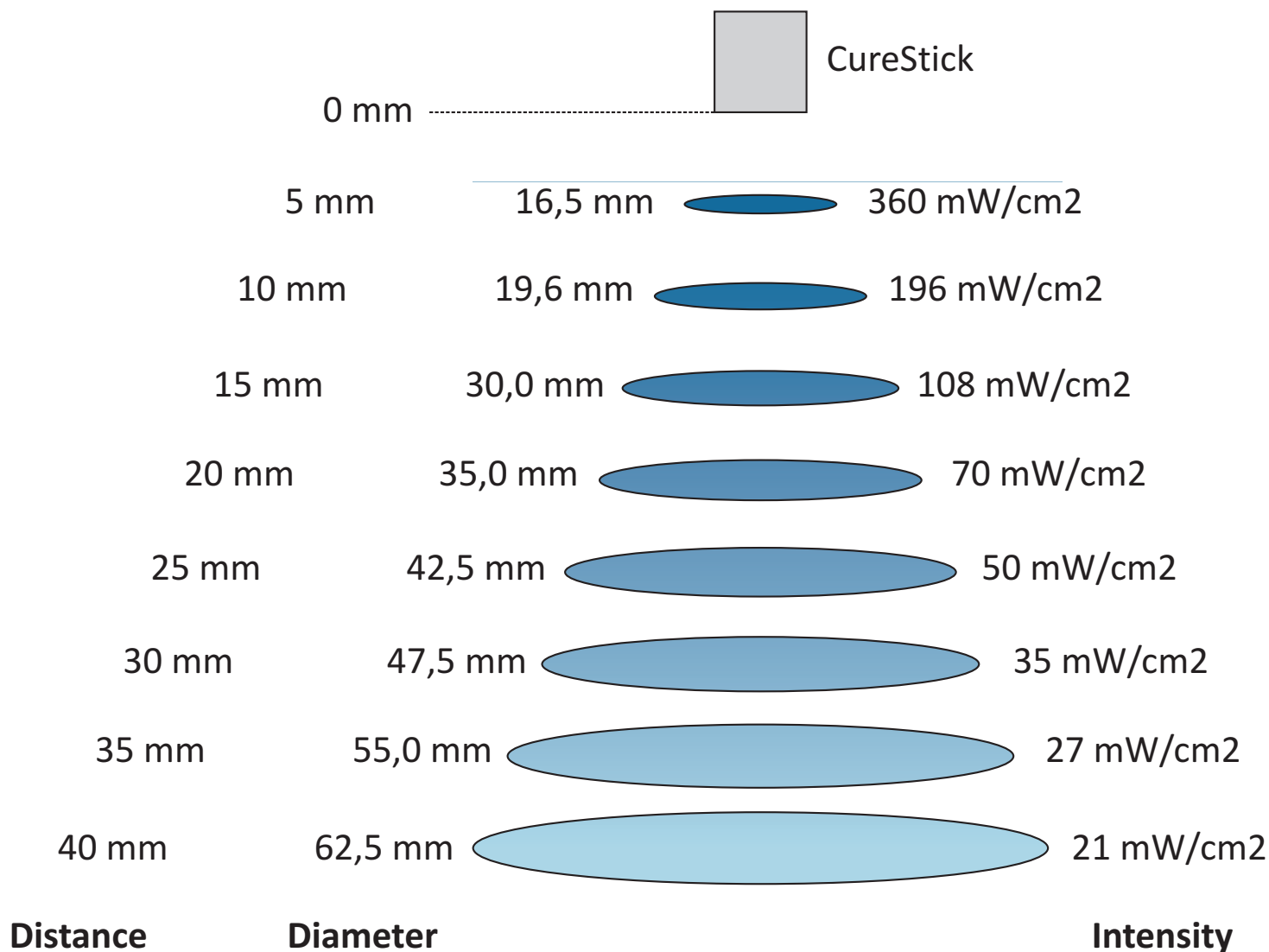
### Benefits:

- 🌱 Low-cost UVA source for demanding applications,
- 🌱 Most recent UVA LED technology,
- 🌱 Thermal fold-back for constant intensity,
- 🌱 Thermal LED source protection,
- 🌱 Long life, Efficient,
- 🌱 Low power consumption,
- 🌱 No thermal radiation,
- 🌱 Compact size,
- 🌱 Robust housing made of aluminium,
- 🌱 Practical design,
- 🌱 Made-in EU.



# CureStick

reliable curing



Measurements: R&G Labs UV365 nm

# CureStick

## Controller

Thermal **fold-back**  
Thermal protection

LCD display

**Intensity:**

10.0 - 100.0%

**Timer:**

0.1 sec - 99 min  
(count-down)

Illuminated  
Front panel  
**trigger**

### Technical data:

Supply voltage: 5 VDC

Supply current: 0.9 A max

Dimensions: 155 x 120 x 40 mm

Cooling: natural by air

Operation Temperature: 0-30°C

Humidity: up to 85% non condensing

Storage temperature: -10 to 80°C

CureStick controller  
Avoid exposure to the beam  
Wear protective eyewear

child easy  
adjustment

### Applications:

- UV curing,
- UV bonding,
- UV sealing,
- Fluorescence excitation,
- Biological samples irradiation,

### Benefits:

- Implemented thermal fold-back, giving constant radiation intensity,
- Thermal protection at 75°C,
- Intuitive parameter adjustment,
- Precise intensity adjustment 10.0-100.0%,
- Timer adjustable from 0.1 sec to 99 min,
- Low power consumption below 5W,
- Multichannel approach,
- Trigger input, Ready out output for PLC,
- Optional RS232 interface,
- Compact size,
- Practical design,
- Made-in EU



## How to operate:

1. Press jog dial once  
(Power adjustment value will flash)  
rotate jog dial till you set required value  
(during this stage UV output is active)
2. Press jog dial again,  
timer value (seconds) will flash  
rotate jog dial till you set required value  
(<10 seconds, resolution 100 ms)
3. Press jog dial again,  
timer value (minutes) will flash  
rotate jog dial till you set required value
4. Press jog dial to leave set-up

## UV output Initiate

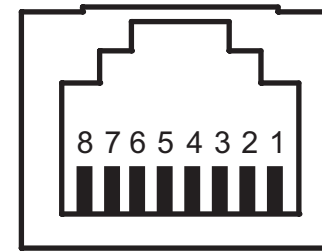
Press start to initiate radiation,  
in necessary case, you can stop  
UV radiation by pressing STRAT/STOP again  
Note: STOP is active after 0,5 seconds

# CureStick controller



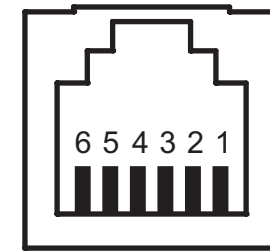
**Avoid exposure to the beam**  
**Wear protective eyewear**

**EXT CTRL**



- 1. TRIG IN
- 2. NC
- 3. Ready OUT
- 4. NC
- 5. NC
- 6. NC
- 7. NC
- 8. GND

**SYNC**



- 1-3. PWM out
- 4-6. GND

**Supply connector**  
**2.1 mm**

Supply voltage: 5VDC  
Supply current: max 1,1A  
Thermal protection: 75°C

**Caution: Overvoltage**  
**will destroy controller**



