

# SPECIFICATIONS

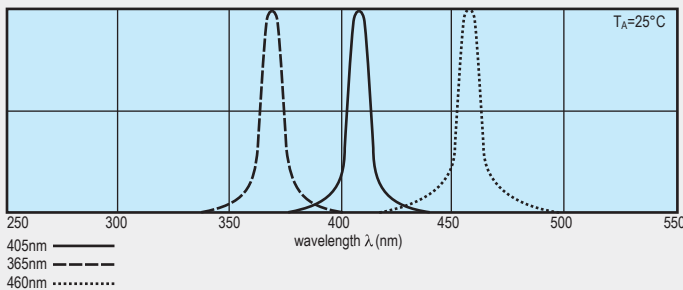
## SpotCure-B15 Industrial LED Curing System 405nm Standard, 365nm and 460nm Optional

SpotCure-B15 is a bench top high output curing light that is designed to be used in industrial applications where the curing probe emitter is in a fixed position. Control functions are divided into three modes, INTERNAL, EXTERNAL and MANUAL. The INTERNAL mode is used for a precise timing period that is variable from 1 to 99 seconds. The EXTERNAL mode is utilized when some other device is employed to control the emitter ON period, such as a foot control or PLC. The MANUAL mode is provided for purposes of adhesive testing and emitter control is manual using the control panel buttons. LED light sources are highly advantageous in that their intensity can be varied without changing the dominant or peak wavelength in the output spectrum. Therefore, SpotCure-B15 incorporates a unique emitter intensity control that permits setting output power from 0.1 (10%) to 1.5 (150%).

- LED UV-A Ultra High Intensity Adhesive Spot Curing
- UV-A Operation is Substantially Safer
- 405nm Wavelength Penetrates Thickness
- Optional Curing Probes for 365nm and 460nm Wavelength
- Automatic Emitter ON Timed Curing Cycle
- Primary Emitter has Large 15mm Output Beam Diameter
- Automatic Hands-Free Foot Control or PLC Activation
- Up to Four Secondary Emitters at 405nm, 365nm and 460nm
- Variable Primary Emitter Intensity from 10% to 150%
- Stainless Steel Curing Probe Outer Cylinder



RELATIVE INTENSITY vs. WAVELENGTH



ELECTRICAL / OPTICAL CHARACTERISTICS AT T<sub>A</sub>=25°C

Symbol	Parameter	Device	Typ.	Min.	Units	Test Conditions
$\lambda_{peak}$	Peak Wavelength	SpotCure UV	405/365		nm	I <sub>F</sub> =500ma
$\lambda_D$	Dominant Wavelength	SpotCure UV	405/365		nm	I <sub>F</sub> =500ma
$\Delta\lambda_{1/2}$	Spectral Line 1/2 Width	SpotCure UV	26		nm	I <sub>F</sub> =500ma
V <sub>F</sub>	Forward Voltage	SpotCure UV	9.1	8.7	V	I <sub>F</sub> =500ma
$\Sigma D$	LED Dice (InGaN)	SpotCure UV	2s X 2p		chips	
$\Phi_E$	Intensity (405nm)	SpotCure UV	2.7	2.5	Watts	2 $\theta$ /2 @ 40°
$\Phi_E$	Intensity (365nm)	SpotCure UV	900	810	mW	2 $\theta$ /2 @ 40°

MECHANICAL / DIMENSIONAL CHARACTERISTICS

Characteristic	Definition	Measurement	Units
Overall Package Dimensions	Length x Width x Height	8 (20.3) x 8 (20.3) x 3.3 (8.4)	in (cm)
Length of Probe Cable	Connector End to Console	5.0 (1.53)	ft (m)
Overall Package Weight	With Probe Stored	3.1 (1.42)	lbs (kg)
Probe Dimensions	Diameter x Length	.750 (1.9) dia x 5.0 (12.7)	in (cm)
Power Input	Switching Power Supply	15.0, 2700	VDC, ma
Curing Cycle Activation	Internal or External Switch	0-10	ohms

**CAUTION**

- The UV LED during operation radiates intense UV light.
- Do not look directly into the UV light during operation of device. This can be harmful to the eyes even for brief periods due to the intense UV light.
- If viewing the UV light is necessary, please use UV filtered glasses to avoid damage by the UV light.
- If the UV LED in this product may be viewed directly, please affix a caution label to that effect.

**Avoid direct eye exposure to UV light.  
Keep out of reach of children**



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