



Made in USA



## MIDORI™ ULB-50sc

### UV Spot Cure LED Light Source

The Midori™ ULB-50sc series UV (365nm) and UVV (405nm) LED light sources are premier fiber-optic delivered illuminators intended for spot curing adhesives or coating applications where benchtop space is a premium.

This feature-rich solid-state light source is extremely compact, energy efficient and easy to use that is compatible with, and surpasses most existing lamp-based system processes for cost-effective photo-curing solutions.

Versatile programming features and inherent narrow spectral bandwidth are combined with true-output irradiance is one of many unique features of our light source design for demanding UV spot curing applications.

This UV LED light source exhibits an optimized high output LED solution with an integrated microprocessor LCD user control panel with pre-aligned coupling optics providing best in class light delivery that is compatible with industry standard liquid light guides.

### APPLICATIONS

UV Light Curing of Photoactivated:

- Adhesives
- Conformal Coatings
- Sealants and Encapsulants

Precision Assemblies Used in:

- Industrial
- Medical
- Electronics
- Optoelectronics

## MIDORI™

### FEATURES & BENEFITS

- High Output Power Density
- Constant Output Control
- User Friendly Program Control
- UVA Narrow Spectral Width
- Lower Curing Temperatures

### UNIQUE PRODUCT FEATURES

- Constant UV Power Output Control Mode
- Output Power Calibration Capability to External Radiometers
- Intensity Adjustable from 0-100% Output
- Exposure Timer Control in 0.1-sec Increments
- Foot Pedal Switch Control or Manual (LCD Panel) Control
- Password Protection for Production Protocols
- USB Remote Control Operation and PC Programmable
- Safety Interlock - Fiber Sense Technology (Fiber Must be Inserted to Activate Unit)
- LCD Touch Screen Panel for User Input/Output Controls

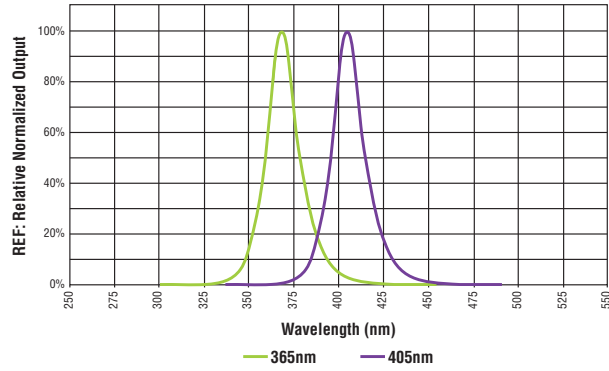


# NOMINAL SPECIFICATIONS

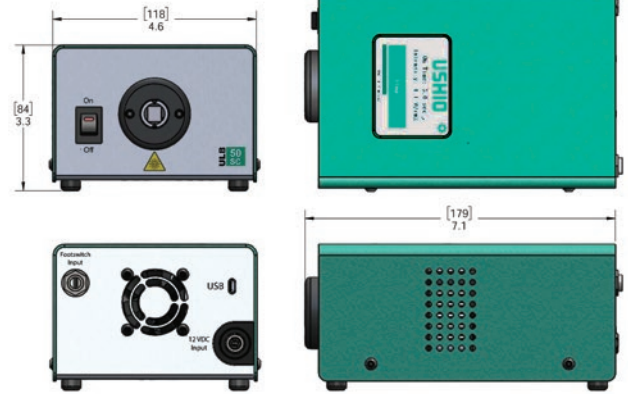
## Nominal Peak Wavelength

- 365nm
- 405nm

Typical Spectrum



## Mechanical Dimensions



Midori ULB-50sc

Watts (W)	Ordering Code	Lamp Description	Peak Wavelength (nm)	Spectral Bandwidth (FWHM**)	Output Irradiance <sup>(1, 3)</sup> (W/cm <sup>2</sup> )	Electrical Output	Average* Rated Life (h)
50	1005108	Midori ULB-50sc UV Spot Cure, 365nm	365	28nm	25 <sup>(2)</sup>	12vdc/5A	10,000
50	1005109	Midori ULB-50sc UV Spot Cure, 405nm	405	28nm	32 <sup>(2)</sup>	12vdc/5A	10,000

(1) Outputs may vary and dependent on radiometer.

(2) Irradiance as measured through 5mm "Lumtec-D" industry standard Liquid Light guide.

(3) Reference irradiance as measured out of light source through 5mm quartz rod (up to 40W/cm<sup>2</sup>).

\* Life based on LED manufacturer rated wattage and thermal operation.

\*\* FWHM is at 50%.

ULB-50sc has been tested and certified to comply with the following industrial EMC and safety specifications:

- UL/EN/CSA 61010
- IEC 61347
- IEC 62471
- CE
- UK

## ACCESSORIES (Sold Separately)

- 1003879 = UPS-00, Universal Input PS; Desktop 60W/12vdc EN60320/IEC320-C8
- 1003881 = UPC-US, Power Cord; US - Shaver EN60320/IEC320-C7
- 1003880 = UPC-EU, Power Cord; EU - Shaver EN60320/IEC320-C7
- 1003882 = UPC-UK, Power Cord; UK - Shaver EN60320/IEC320-C7
- 1004095 = UPC-AU, Power Cord; AU - Shaver EN60320/IEC320-C7
- 5003217 = UAC-04, Std. Lumatec-D LLG; 5mm x 1m (Art 4081.1000)
- 5003301 = UAC-05 Collimating Optic; 5mm (Art 9200.0049)



5003217 = UAC-04, Std. Lumatec-D LLG

UPC-US  
Power Cord  
EN60320/IEC320-C7



UPS-00  
External PS  
100-240V AC;  
50-60 Hz.

Input AC Connector  
EN60320/IEC320-C8  
Shaver Style

Output DC Connector; Isolated  
2.1mm x 5.5mm x 9.5mm; Center Positive



Consult factory for OEM custom design options such as:

- Private Labeled Turnkey Unit
- Product Color Scheme
- Mounting Features
- 4-Color Logo Silk Screen Printing
- Fiber Optic Adapter Design Styles

Subject to Minimum Order Quantity Requirements.

# USHIO