

MIDORI™ ULB-50sc

UV Spot Cure LED Light Source

The Midori™ ULB-50sc LED light sources are compact, energy-efficient, and versatile illuminators for spot curing of adhesives and coatings in either narrow spaces or working areas. Both market well-known wavelengths 365 nm and 405 nm are provided.

Applications

UV light curing of photoactivated:

- ◆ Adhesives
- ◆ Conformal Coatings
- ◆ Sealants and Encapsulants

Precision assemblies used in:

- ◆ Industrial
- ◆ Medical
- ◆ Electronics
- ◆ Optoelectronics

Features & Benefits

Ushio is a partner that listens to your ideas and requirements. Let us optimise your processes according to your specifications and expectations. Use our expertise to develop a tailor-made solution that matches your needs.

- ◆ High output power density
- ◆ Constant output control
- ◆ User friendly program control
- ◆ UVA narrow spectral width
- ◆ Lower curing temperatures



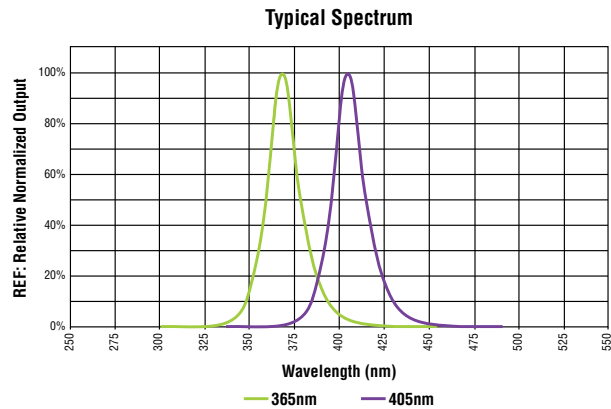
Unique Product Features

- ◆ 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

When compared to most existing lamp-based systems, Midori™ surpasses in terms of cost-effective photocuring. With programmable features, a narrow spectral bandwidth and precise irradiance control, these UV LED light sources are ideal for demanding spot curing applications. They come equipped with an integrated microprocessor LCD control panel and pre-aligned coupling optics, ensuring top-notch light delivery and compatibility with industry-standard liquid light guides.

Nominal Peak Wavelength

- 365 nm
- 405 nm



Mechanical Dimensions



Midori ULB-50sc

Lamp description	Watts (W)	Peak wavelength (nm)	Spectral bandwidth (FWHM**)	Output irradiance ^(1,3) (W/cm ²)	Electrical output	Average rated life* (h)
Midori ULB-50sc UV Spot Cure, 365 nm	50	365	28 nm	25 ⁽²⁾	12 vdc / 5A	10,000
Midori ULB-50sc UV Spot Cure, 405 nm	50	405	28 nm	32 ⁽²⁾	12 vdc / 5A	10,000

⁽¹⁾ Outputs may vary and dependent on radiometer.

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

⁽³⁾ Reference irradiance as measured out of light source through 5 mm quartz rod (up to 40 W/cm²).

* 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)

- ◆ UPS-05, Universal PS w/ Locking Nut
- ◆ UPC-US, Power Cord; US - Shaver EN60320/IEC320-C7
- ◆ UPC-EU, Power Cord; EU - Shaver EN60320/IEC320-C7
- ◆ UPC-UK, Power Cord; UK - Shaver EN60320/IEC320-C7
- ◆ UPC-AU, Power Cord; AU - Shaver EN60320/IEC320-C7
- ◆ UAC-04, Std. Lumatec-D LLG; 5 mm x 1 m
- ◆ UAC-05 Collimating Optic; 5 mm

Consult factory for OEM custom design options such as:

- ◆ Private labeled turnkey unit
- ◆ Product color scheme
- ◆ Mounting features
- ◆ 4-colour logo silk screen printing
- ◆ Fiber optic adapter design styles

Subject to minimum order quantity requirements.



Developing Solutions Together

Ushio is a partner that listens to your ideas and requirements. Let us optimise your processes according to your specifications and expectations. Use our expertise to develop a tailor-made solution that matches your needs.

USHIO

USHIO EUROPE B.V.
The Netherlands | +31 20 446 9333
sales@ushio.eu | www.ushio.eu

USHIO U.K., LTD.
United Kingdom | +44 1296 339988
sales@ushio.eu | www.ushio.eu



USHIO GERMANY GmbH
Germany | +49 8094 906 0
sales@ushio.de | www.ushio.de

USHIO FRANCE S.A.R.L.
France | +33 134 64 94 94
sales@ushio.eu | www.ushio.eu

Intended use: Specifically designed and exclusively approved for use in industrial or professional equipment only.

© Ushio Europe B.V. All texts, contents, images and other graphical representations are protected by copyright. Ushio is owner of the respective copyright and / or rights of use thereto. Any reproduction, distribution, or providing public access is permitted only with the approval of Ushio. Copyright violations are prosecuted by civil and criminal law.

Version: 2023-F-UV-SPOTCURE-EN