



LB24M SERIES MEDICAL FIBER-OPTIC ILLUMINATOR

High-Intensity Arc Lamp Technology

USHIO's Sōlarc® Fiber-Optic Illuminators use patented Sōlarc® lamp technology. Sōlarc® Illuminators combine the efficiencies of high-pressure metal halide arc lamps, precision miniature lamp construction and precise optical alignment to deliver unequaled fiber illumination performance and value.

Brilliant White Light

Unlike halogen-based light sources, Sōlarc® Illuminators deliver intense, brilliant white light, typically with a color temperature greater than 5,000K—comparable to true daylight.

Long Life and Cost Effective

Sōlarc® lamp technology is at the heart of the illuminator, requiring only 24 watts of energy and typically lasting about 500 hours (median life). Comparable halogen based illuminators require 150 watts of power and may have average rated lifetimes between 40-50 hours. Sōlarc® lamps consume considerably less energy and last nearly 10-12 times longer than standard halogen lamps, assuring lower cost of ownership.

Superior Fiber-Optic Coupling

Available with an ACMI and optional industry-standard optical couplers, precisely aligned, highly efficient Sōlarc® lamps provide superior light coupling into small and miniature fiber bundles. This allows the lamps to deliver significantly more light at a fraction of the size and wattage when compared to halogen alternatives.

Flexible Design

The LB24M series is available with a variety of fiber-optic couplers. It is rated for operation on voltages between 100 VAC and 240 VAC and frequencies from 50 Hz to 60 Hz.

Enhanced Features

- Internal Thermal Cutout
- Double Insulated
- Low Electrical Noise
- Cooler Operation
- Positive-Lock ACMI Fiber Adapter
- Full-Off Light Attenuation
- Medical-Grade UV/IR Filter Included
- Threaded Input Port—Allows for Custom Adapters
- Improved Lamp Retention System

Conforms to Medical Standards

The LB24M series meets the standards identified in the accompanying specifications. Sōlarc® Illuminators are the solution for applications that require intense, white illumination, such as lighting for medical and dental procedures.

Power Supply Included with Each Illuminator



LBM-PS-00 included with LB24MS00-004-00. North American-Style Plug



LBM-PS-01 included with LB24MS00-004-01. IEC Adapter to allow a variety of cords (sold separately)



LB24M Specifications

Illumination System Lamp Light Output Color Temperature Lamp Life (Median) Integral Iris	AL-0950 Sōlarc® Lamp Technology 590 Lumens (4 mm [0.16"] glass rod) 5,000K 500 Hrs 0%–100% attenuation		
Physical Dimensions Weight	147.3 mm [5.8"] length x 88.9 mm [3.5"] width x 71.1 mm [2.8"] height 1.0 kg [2.2 lbs]—includes power supply		
Electrical Input Voltage Input Current Leakage Current	100 to 240 VAC, 50-60 Hz 1 A @ 100 VAC <100 μA		
Environmental Temperature Humidity	10°C (50°F) to 30°C (86°F) 15% to 95% RH noncondensing		
Approvals	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"> EN/IEC 60601-1 CAN/CSA C22.2 No. 601-1, 1-M90 JIS T0601/J1000 IEC60601-1-2 </td> <td style="width: 50%; border: none;"> UL60601-1 AS3200.1 EN55011 </td> </tr> </table>	EN/IEC 60601-1 CAN/CSA C22.2 No. 601-1, 1-M90 JIS T0601/J1000 IEC60601-1-2	UL60601-1 AS3200.1 EN55011
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Ordering Information Part Number LB24MS00-004-00 LB24MS00-004-01 LBM-PS-00 LBM-PS-01 704904 704905 704906 50160 50159	Description Illuminator/ACMI Adapter—North America Power Supply Illuminator/ACMI Adapter—International Power Supply (requires power cord—sold separately) Replacement Power Supply—North America Replacement Power Supply—International (requires cord—sold separately) AC Power Supply Cord—Europe AC Power Supply Cord—Australia AC Power Supply Cord—UK Olympus Adapter (screw-on) Storz Adapter (screw-on)		

LB24M (All measurements in mm [inches].)

