Z-LITE

DECLARATION OF CONFORMITY

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DECLARATION OF CONFORMITY

WE, the undersigned, declare that the apparatus listed below is in conformity with the following provisions of Directive 73/23/EEC relating to our equipment.

Subject to:

EN 61010-1:2001
EN 61010-2-031:2006
EN 61010-2-101:2001
EN 61010-2-102:2001
EN 61010-2-103:2001


Issued on: April 16, 1997

Z-LITE

High intensity source for fiber optic illumination

INSTRUCTION MANUAL

Claims and Returns

• Inspect all shipments upon receipt. Missing cartons or obvious damage to cartons should be noted on the delivery receipt before signing. Concealed loss or damage should be reported at once to the carrier and an inspection requested. All claims for shortage or damage must be made within 10 days after receipt of shipment. Claims for lost shipments must be made within 30 days of invoice or other notification of shipment.

Please save damaged or repaired cartons until claim settles. In some instances, photographic documentation may be required. Some items are time sensitive; WPI assumes no extended warranty or any liability for use beyond the date specified on the container.

• WPI cannot be held responsible for items damaged in shipment en route to us. Please enclose merchandise in its original shipping container to avoid damage from handling. We recommend that you insure merchandise when shipping. The customer is responsible for paying shipping expenses including adequate insurance on all items returned.

• Do not return any goods to WPI without obtaining prior approval and instructions (RMA#) from our returns department. Goods returned unauthorized or by collect freight may be refused. The RMA# must be clearly displayed on the outside of the box, or the package will not be accepted. Please contact the RMA department for a request form.

• Goods returned for repair must be reasonably clean and free of hazardous materials.

• A handling fee is charged for goods returned for exchange or credit. This fee may add up to 25% of the sale price depending on the condition of the item. Goods ordered in error are also subject to the handling fee.

• Equipment which was built as a special order cannot be returned.

• Always refer to the RMA# when contacting WPI to obtain a status of your returned item.

• For any other issues regarding a claim or return, please contact the RMA department

Warning: This equipment is not designed or intended for use on humans.
INTRODUCTION
The Z-LITE Fiber Optic Illuminator provides reliable, uninterrupted high-intensity light for microscopes. Use the rotary dimmer switch to control the halogen light source for a continuous range of subdued or concentrated lighting. The Z-LITE is available in the following configurations:
- Z-LITE - 115V, 60Hz Fiber optic illuminator, beige
- Z-LITE-Z - 230V, 60Hz Fiber optic illuminator, black
- Z-LITE-186 - Z-LITE with bifurcated light guides
- Z-LITE-Z186 - Z-LITE-Z with bifurcated light guides

Common accessories include a ring light and single or bifurcated flexible light guides to direct the light beam precisely.

The unit is shipped with a lamp that produces a color temperature of 3200°K. Forced air cooling prolongs the lamp life. The EJA bulb can be used as a replacement lamp. When you open the front panel, a safety switch automatically shuts off the power.

Unpacking
Upon receipt of this instrument, make a thorough inspection of the contents and check for possible damage. Missing cartons or obvious damage to cartons should be noted on the delivery receipt before signing. Concealed damage should be reported at once to the carrier and an inspection requested. Please read the section entitled “Claims and Returns.” Please contact WPI Customer Service if any parts are missing at 941.371.1003 or customer.service@wplinc.com.

Returns: Do not return any goods to WPI without obtaining prior approval (RMA # required) and instructions from WPI’s Returns Department. Goods returned (unauthorized) by collect freight may be refused. If a return shipment is necessary, use the original container, if possible. If the original container is not available, use a suitable substitute that is rigid and of adequate size. Wrap the instrument in paper or plastic surrounded with at least 100mm (four inches) of shock-absorbing material. For further details, please read the section entitled “Claims and Returns.”

OPERATING INSTRUCTIONS
1. Plug the illuminator’s AC power cord into a grounded receptacle.
2. Turn the rotary dimmer knob (large black knob on the front panel) in a clockwise direction to increase the light intensity. A click indicates that the power is ON. When you rotate the knob to its extreme clockwise position, the light is at its brightest. Rotating the knob counterclockwise decreases the intensity of the light and also shuts off the power.

Using Light Guides
The metal light guide port on the face of the Z-LITE (bottom left) has an inside diameter of 5/8” to accommodate fiber light guides. See ACCESSORIES. Insert the desired light guide into the connection port and tighten the knurled light guide knobs to hold the guide firmly.

Replacing the Bulb
1. Shut off the power and remove the AC power cord from the outlet.
2. Turn the rotary dimmer knob (large black knob on the front panel) in a clockwise position, the light is at its brightest. Rotating the knob counterclockwise decreases the intensity of the light and also shuts off the power.
3. The bulb release lever is located on the left side of the bulb. Push this lever upward. The lever pushes the bulb which slides forward out of the cradle.
4. Gently pull the socket away from the back of the bulb.
5. To insert a new bulb, push the bulb release lever down into its original position. Align the two pins on the lamp with the two holes in the socket. Firmly press the bulb into the socket until the pins are fully seated. Then, push the bulb back until its cradle.
6. Close the front panel, re-tighten the knurled case knob, plug the AC power cord into the power outlet.

Changing the Fuse
This unit is equipped with a fuse. The fuse will blow if a problem occurs. If this happens, wait until the lamp cools down before attempting to replace the fuse. If the fuse continues to blow, there is a short and the problem must be fixed by a qualified technician. To change the fuse:

1. Insert a small, flat-head screwdriver into the recess on top of the fuse housing that is located on the back of the unit. The fuse casing pops out.
2. Remove the casing and the fuse.
3. Position a new fuse in the casing and reinstall the casing.

TROUBLESHOOTING
If the illuminator will not operate:
1. Check the connections to the lamp. Loosen the case knob on the top front of the instrument to open the front panel. Verify that the lamp is properly seated and in full contact with the lamp holder contact springs. Close the panel and re-tighten the case knob.
2. Check the fuse. See Changing the Fuse.

SPECIFICATIONS
<table>
<thead>
<tr>
<th>Lamp</th>
<th>21V/150W quartz halogen</th>
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<tbody>
<tr>
<td>Fuse</td>
<td>3A Fast, 5mm x 20mm</td>
</tr>
<tr>
<td>Maximum Temperature</td>
<td>3200°K</td>
</tr>
<tr>
<td>Size</td>
<td>200 x 200 x 140mm (7.9 x 7.9 x 5.5&quot;)</td>
</tr>
<tr>
<td>Power</td>
<td>115V/230V / 50/60Hz / 3A</td>
</tr>
<tr>
<td>Weight</td>
<td>5.7kg (12.6 lb.)</td>
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ORDERING INFORMATION
- Z-LITE 115V, 60Hz Fiber optic Illuminator, beige
- Z-LITE-Z 230V, 60Hz Fiber optic Illuminator, black
- Z-LITE-186 Z-LITE with bifurcated light guides
- Z-LITE-Z186 Z-LITE-Z with bifurcated light guides

Light Guides and Accessories
- 500186 Bifurcated Light Guide (with lenses)
- R-8-B-WPI-01 Ring Light Guide for PZM (Requires adapter #13338 for use with PZM stereo microscopes)
- 13338 Ring Light Adapter (48mm Ø) for PZM, PZMII, PZMIII
- 502015 Ring Light Adapter for PZMV
- 5475 Adapter for SMA-terminated Fiber Optic Cables
- EJA* Replacement Bulb, 21V, 150W, 40 hour lamp, 3350K
- EKE Replacement Bulb, 21V, 150W, 200 hour lamp, 3250K

*The Z-LITE is supplied with an EKE 200 hour lamp. The recommended EJA is brighter, though it has a shorter life.