Z-LITE

WARRANTY

WPI (World Precision Instruments) warrants to the original purchaser that this equipment, including its components and parts, shall be free from defects in material and workmanship for a period of 30 days from the date of receipt. WPI's obligation under this warranty shall be limited to repair or replacement, at WPI's option, of the equipment or defective components or parts upon receipt thereof f.o.b. WPI, Sarasota, Florida U.S.A. Return of a repaired instrument shall be f.o.b. Sarasota.

The above warranty is contingent upon normal usage and does not cover products which have been modified without WPI's approval or which have been subjected to unusual physical or electrical stress or on which the original identification marks have been removed or altered. The above warranty will not apply if adjustment, repair or parts replacement is required because of accident, neglect, misuse, failure of electric power, air conditioning, humidity control, or causes other than normal and ordinary usage.

To the extent that any of its equipment is furnished by a manufacturer other than WPI, the foregoing warranty shall be applicable only to the extent of the warranty furnished by such other manufacturer. This warranty will not apply to appearance terms, such as knobs, handles, dials or the like.

WPI makes no warranty of any kind, express or implied or statutory, including without limitation any warranties of merchantability and/or fitness for a particular purpose. WPI shall not be liable for any damages, whether direct, indirect, special or consequential arising from a failure of this product to operate in the manner desired by the user. WPI shall not be liable for any damage to data or property that may be caused directly or indirectly by use of this product.

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 filled 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 on route to us. Please endosce 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.

• 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.

Z-LITE
High intensity source for fiber optic illumination

Serial No._____________________

USA
175 Sarasota Center Blvd., Sarasota FL 34240-9258
Tel: 941-371-1003 • Fax: 941-377-5428 • E-mail: sales@wpiinc.com

UK
1 Hunting Gate, Hitchin, Hertfordshire SG4 0TJ
Tel: 44 (0)1462 424700 • Fax: 44 (0)1462 424701 • E-mail: wpiuk@wpi-europe.com

Germany
Pfingstweide 16, D-61169 Friedberg (Hessen), Germany
Tel: +49 (0)6031 67708-0 • Fax: +49 (0)6031 67708-80 • E-mail: wpide@wpi-europe.com

China & Hong Kong
WPI Shanghai Trading Co., Ltd.
Rm 27A, Liangfeng Building, No 8, Dongfang Road, Pudong New District, Shanghai, PRC
Tel: +86 21 6888 5517 • 400 688 5517 • E-mail:chinasales@china.wpiinc.com

Brazil
Av. Conselheiro Nébias, 756 sala 2611, Santos-CEP: 11045-002, São Paulo Brazil
Tel: (013)406-29703 • E-mail: info@brazil.wpiinc.com

Internet
www.wpiinc.com • www.wpi-europe.com • www.wpiinc.net
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.

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 customerservice@wpiinc.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 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. Although the power is automatically shut off by a safety switch when the front panel is opened, removing the AC cord is a precautionary measure.
2. Loosen the knurled case knob on the top of the case until the front panel opens.
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 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>
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<tr>
<td>Power</td>
<td>115/230V, 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)
- 13338 Ring Light Guide for PZM (Requires adapter #13338 for use with PZM stereo microscopes)
- 13338 Ring Light Adapter for PZM (48mm O) for PZM, PZMI, PZMIi
- 502015 Ring Light Adapter for PZM IV
- S475 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.*