UNIT SPECIFICATIONS

Physical Dimensions
Overall Height: 4.59 in. (11.66 cm)
Overall Width: 6.51 in. (16.54 cm)
Overall Depth: 7.77 in. (19.74 cm)
Shipping Weight: 7 lbs. (3.15 kg)

Environmental Conditions
Operating Temp. Range: 32 to 104°F (0 to 40°C)
Humidity Range: 0 to 80%, non-condensing
Pollution Degree: 2

Electrical Specifications
Input Voltage: 100 VAC, 115 VAC, 50/60 Hz
Power Consumption: 230 VA, maximum
Fuse (quick acting): (100 VAC, 115 VAC) 2.5A 5x20 mm
Variable Light Control: 0 to 100%

Unit is Overvoltage Category II:
Local level, appliances, portable equipment, etc. with smaller transient overvoltages than Overvoltage Category III.

UL Listing #3101-1, File #E177808 (For 115 VAC, 60 Hz)

Your purchase of the Zeon® Fiber-Optic Light Source will provide you with many years of service in a variety of applications which require high intensity yet cool illumination.

Please read the following instructions to ensure that maximum performance is obtained from your system.
General Instructions

Safety/Installation Guidelines

WARNING: Shut off the power to the unit and remove the AC power cord before any maintenance is performed on the unit.

1. Do not defeat safety interlock switch.
2. Do not block ventilation openings or impede air flow.
3. Disconnect power cord when unit will be left unused for a long period of time.
4. Do not attempt to service the unit beyond the functions described in this instruction manual.
5. Allow the unit to cool at least 5 minutes with the door open before changing the lamp. The following symbol (Caution, Hot Surface) appears on the inside of the side panel.
6. Avoid areas of excessive vibration.
7. Do not position the unit so that it is difficult to disconnect the power cord.
8. This unit is intended for indoor use only.

Basic Setup and Operation

1. Remove the Fiber-Optic Light Source from the shipping container.
2. Open the door latch on the side of the source. The side panel will open to permit inspection of the lamp. Ensure that the lamp is properly seated (use only a cloth to touch the lamp) and in full contact with the lamp holder. Close the panel and secure the latch before operating the source.
3. Plug the source's AC power cord into a grounded receptacle. The unit is now ready for operation.
4. Turn the power "ON" at the ON/OFF switch on the front panel.
5. Voltage Control. The sliding knob under the ON/OFF switch controls the light intensity (and voltage used). The light gradually brightens to its highest intensity as the knob is pushed to the right. Sliding the knob to the left gradually dims the light and reduces glare. The sliding knob lowers light intensity by lowering color temperature. It is this sliding knob that should be turned to its lowest intensity between procedures to save lamp life.
6. Iris Control. The manual iris allows light intensity adjustment while maintaining constant color temperature throughout the dimming range. Rotating the Iris Control Actuator located behind the large knob on the front panel controls the iris. Clockwise rotation increases light intensity. Counter-clockwise rotation decreases light intensity.
7. To insert the fiber-optic cable into the unit, slowly push the component into the adapter (located inside the large knob) until it is fully seated. To remove, gently pull on the fiber-optic handle.
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Lamp Replacement

1. Use only Ushio EJV lamps available from Kerr Corporation.
2. To replace the lamp, shut off the power and remove the AC power cord from the outlet. Open the door latch to the side panel and allow the unit to cool at least 5 minutes before removing the old lamp.
3. Slide the old lamp out of the lamp holder and place the old lamp reflector face down next to the door. Do not touch the lamp with bare fingers - use a cloth or glove. Pull the lamp out of the lamp socket and discard the old bulb. Place the new lamp reflector face down next to the door. Carefully, press the lamp prongs into the socket until the prongs are fully seated. Slide the new lamp into the holder until it is firmly seated.
4. Close the side panel, plug the AC power cord into the power outlet and the source is again ready for operation.

Fuse Replacement

Fuse Holder: A fuse holder is integrated into the AC plug connector. To remove fuse, lift the locking tab on the fuse cartridge and pull out fuse holder. Inspect and replace if necessary.

Available from Kerr Corporation:
Fuse Ratings: 100, 115 VAC 2.5 A 5x20 mm

Cleaning

Turn “OFF” the ON/OFF switch and remove the power cord from the electrical outlet. Use only standard glass type cleaners on the exterior of the unit. Caution: Do not use detergents or harsh cleaning agents.

Installation Instructions

Zeon Cure-Inhibiting Filter

1. With spring notch on bottom of filter, begin to insert filter over guides.
2. Depress spring notch with screwdriver. This allows notch to slide over alignment guide.
3. When notch has cleared the alignment guide continue sliding filter into box.
4. FOR CURING PROTECTION: Filter should be inserted all the way into the box.
5. FOR NORMAL LIGHT USAGE: Filter should be partially inserted in the box.

NOTE: AFTER INSTALLATION DO NOT TOTALLY REMOVE THE FILTER FROM THE BOX.
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1. Use only Ushio EJV lamps available from Kerr Corporation.
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**Installation Instructions**

**Zeon Cure-Inhibiting Filter**

1. Using a small screwdriver gently lift out the plastic insert on the left side of the source box.
2. With spring notch on bottom of filter begin to insert filter over guides.
3. Depress spring notch with screwdriver. This allows notch to slide over alignment guide.
4. When notch has cleared the alignment guide continue sliding filter into box.

*FOR CURING PROTECTION: Filter should be inserted all the way into the box.*

*FOR NORMAL LIGHT USAGE: Filter should be partially inserted in the box.*

*NOTE: AFTER INSTALLATION DO NOT TOTALLY REMOVE THE FILTER FROM THE BOX.*
Limited Warranty on Light Sources

Kerr Corporation, warrants the Orascoptic Zeon Fiber-Optic Light Source when new, to be free of defects in material and workmanship, as a limited warranty, and to perform in accordance with manufacturer’s specifications, when subject to normal use and service from Kerr Corporation or its authorized agent for a period of two years from the date of purchase (the “Warranty Period”). The Warranty Period begins on the original date of purchase.

At its sole discretion, Kerr Corporation will either repair or replace the complete product with either a new or refurbished equivalent product, or repair or replace any components found to be defective, FOB at the Kerr Corporation facility in Middleton, Wisconsin, USA. It shall be the purchaser’s responsibility to return the product, in appropriate packing materials, so as to prevent accidental breakage in transit, and sufficiently cleaned and disinfected, directly to Kerr Corporation. Kerr Corporation reserves the right, at its sole discretion, to refuse to repair or replace the product if the product is deemed to be unsanitary. It will be the responsibility of the purchaser to arrange for the product to be returned to the purchaser for appropriate cleaning and sanitation, and the purchaser shall be responsible for all shipping charges.

This Warranty does not cover breakage or failure due to tampering, misuse, neglect, accidents, improper installation, modification, shipping, or to improper maintenance, service or cleaning procedures. This Warranty is also void if the Zeon Fiber-Optic Light Source is not used in accordance with manufacturer’s recommendations or instructions, if serviced by other than Kerr Corporation or its authorized agent, or if the serial number has been removed or altered in any way.

In no event shall Kerr Corporation’s liability be greater than the original purchase price of the product. Nor shall Kerr Corporation be held liable for consequential or special damages, or for transportation, installation, adjustment or other expenses, which may arise in connection with such products or parts. This product warranty applies only to customers in the United States of America (USA), Canada or to units sold to and by authorized and approved international dealers. This Warranty is non-transferable and shall only apply to the original purchaser of the product, as exclusively contained in Kerr Corporation’s records. THIS WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ALL OTHER STATEMENTS, WARRANTIES OR GUARANTEES, EXPRESS OR IMPLIED, BY KERR CORPORATION OR ITS AUTHORIZED REPRESENTATIVE, INCLUDING WARRANTIES WITH RESPECT TO DESCRIPTION, QUALITY, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. The limits and exclusions contained herein shall apply unless otherwise prohibited by applicable law.

Kerr Corporation continuously improves its products as a result of customer feedback. At time of shipment, products may reflect improvements in appearance and function.
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In no event shall Kerr Corporation’s liability be greater than the original purchase price of the product. Nor shall Kerr Corporation be held liable for consequential or special damages, or for transportation, installation, adjustment or other expenses, which may arise in connection with such products or parts. This warranty applies only to customers in the United States of America (USA), Canada or to units sold to and by authorized and approved international dealers. This Warranty is non-transferable and shall only apply to the original purchaser of the product, as exclusively contained in Kerr Corporation’s records. THIS WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ALL OTHER STATEMENTS, WARRANTIES OR GUARANTEES, EXPRESS OR IMPLIED, BY KERR CORPORATION OR ITS AUTHORIZED REPRESENTATIVE, INCLUDING WARRANTIES WITH RESPECT TO DESCRIPTION, QUALITY, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. The limits and exclusions contained herein shall apply unless otherwise prohibited by applicable law.

Kerr Corporation continuously improves its products as a result of customer feedback. At time of shipment, products may reflect improvements in appearance and function.