Zeon® Fiber-Optic Cable
Why you should read this guide

Your Zeon® Cable has been fully tested and adjusted by our factory technicians. We recommend that you familiarize yourself with these operating and assembly instructions to understand how to optimize the use of your Zeon. The fiber-optic cable consists of tiny glass fibers through which light is transmitted. The Zeon cable has a steel sheathing surrounding the glass fiber bundle. Proper handling is required to maintain your fiber-optic light as a fine operating instrument. Crimping, yanking or crushing can break the fiber-optic strands causing diminished output or even total loss of light transmission.

Zeon Fiber-Optic Cable Parts

1. Zeon Cable Assembly
   A. Cable Guide
      For use on titanium frame
      1. Slightly loosen the two screws in the hinge for flip-up telescopes, or the two screws in the mounting block for through-the-lens (TTL).
      2. Slide the two prongs between the frame and the hinge or block.
      3. Tighten both screws equally to the frame making sure the hinge or block is level.

   B. Cable Guide Insertion
      Comes attached to the cable
      With the cable guide installed, the grommet will need to be secured. Attach Zeon to telescopes (see section 2) then install the grommet into the guide. The grommet is the small circular ring that slides freely around the fiber optic cable.
      1. Insert cable grommet into guide by aligning the pins on the grommet with the slots on the cable guide.
      2. When aligned, press grommet into the guide.
      3. Turn clockwise (90-degree turn) to lock in place.
      4. To release cable, turn counter-clockwise and lift grommet out of guide.

   C. Headband Guide
      Comes attached to the headband
      Use on: • Orascoptic Rigid Headband.
              • Orascoptic Cloth Headband.
      Snap the cable into the side or upper guides on the headband.

   D. Gown Clips
      Comes attached to the cable
      Use on: All Mounts.
      Attach gown clips so the cable does not interfere with operating procedures.

   E. Temple Clips
      a. Standard Temple Clip
         Use on:
         • Orascoptic Stainless Steel Frame.
         • Orascoptic Titanium Frame.
         • Orascoptic Gargoyle Frame.
         1. Place opening on clip at top edge of frames temple arm.
         2. Rotate the clip down onto the temple arm until it snaps into place.
         3. Push the clip forward until it is snug on the temple.
      b. Elastic Temple Clip
         Use on:
         • Surgitel Frames.
         • Keeler Frames.
         • Zeiss Frames.
         • Other Frames.
         • DVI Designer Frames.
         Insert temple into sleeve on clip. Snap the clip around the cable.
      c. Designs for Vision (DVI)
         Use on:
         DVI Black Frame.
         Slide the U-shaped clip down over the frame.

2. Attaching Cable to Telescopes
   Make sure the cable is on the top of the Clip when attaching to telescopes.
   A. U-Clips
      Use on:
      • Dimension-3 Flip-Up.
      • Surgitel Flip-Up.
      • HiRes Flip-Up.
      Slide the clip over the center of the hinge.

   B. C-Clip
      Attach to top center of hinge snapping into place over the two slide screw pins.
C. J-Clip

Use on:
- All Orascoptic TTL’s.
- DVI TTL.
- Keeler Flip-Up.
- Other Frames.

1. Loosen the thumb screw and place the jaws over the mounting block on Orascoptic TTL’s.
2. On DVI, Keeler, and other frames, place the jaws over the doublebridge or edge of the hinge.
3. Tighten the thumb screws until secure.

D. Z-Clip

Use on: Zeiss Flip-Up

1. Place the supplied machine screws in the larger holes of the Zeiss Mounting Button so that they protrude out the bottom.
2. Locate the two small holes in the front central pivot plate on the Zeiss hinge. Use a small standard screwdriver to screw each machine screw into the small holes in the front central pivot plate. Tighten screws.
3. Loosen, but do not remove, the thumb screw on the mounting ring attached to the Zeon® fiber-optic cable. Slide the Zeiss Mounting Ring onto the Zeiss Mounting Button until it ‘snaps’ into place.
4. Rotate the fiber-optic light lens and assembly until both the thumbscrews and cable are on the topside of the ocular-mounting hinge. Tighten thumb screw until ring is secure and does not rotate.

E. Multi-Hinge

Cable must have the U-Clip.

Use: Enables transfer of cable between Dimension-3® Flip-Ups or HiRes® Plus Flip-Ups, and any Orascoptic TTL or DVI TTL. Attach the multi-hinge to the TTL telescopes per the J-Clip instructions. Then attach the cable to the opposite end following the U-Clip instructions.

3. Adjusting Beam Position

1. Once your Zeon cable is successfully mounted to your frame, pull it on and comfortably tighten the headstrap.
2. Turn on the light source and turn intensity knob to maximum. Plug the free end of the cable into the light source, taking care not to push it in too far. Push the tip in until you feel it engage the indent. CAUTION: For 110 volt and 220 volt models purchased prior to December, 1998 and all 220 volt models: Pushing the tip in too far can cause heat damage to the cable. There should be an air gap between the handle and the metal adapter on the light source.
3. While looking at a target through your telescopes, adjust beam location by holding the telescopes with one hand and adjusting the housing with the other hand. Center the beam on your work site.
4. Select desired beam size by rotating the housing clockwise for a smaller beam, and counter-clockwise for a larger diameter beam.

4. Adapter - Standard Cable

Adapters are available to utilize the Zeon fiber-optic cable with other source boxes. The adapters and hypo tube are threaded. Place the adapter on the hypo tube and tighten.

5. Important Precautions

DO NOT TOUCH THE METAL TIP OR LIGHT SOURCE PORT WHEN IN USE. BURN HAZARD. The end-tip requires about 30 seconds to cool. Never sharply bend or crush the cable. Fiber-optic strands may break, resulting in partial or total light loss. Position the light source so as not to expose the cable to crush or bending hazards. Take extreme care during initial use to unplug the cable BEFORE getting up to leave the work site. The small metal tip may break or you may pull the light source off a counter. GET INTO THE HABIT OF DISCONNECTING BEFORE STANDING!

6. Cable Replacement

If your fiber-optic cable grows dim, first check for proper bulb operation (see light source manual). If you susped trauma to the fiber-optic strands, call for assistance. In the U.S. call 800-369-3698. Outside of the U.S. call your local distributor.

Customer satisfaction agents will help troubleshoot the problem and, if necessary, will arrange for the exchange of your cable.

7. Cleaning Your Zeon Cable

Your Zeon Cable is manufactured from the highest quality components. It is a precision optical instrument that must be properly cleaned and protected from rough use. To prevent clouding the lens, simply wipe to remove gross debris. DO NOT SUBMERGE IN WATER, COLD STERILANTS OR IN AN ULTRASONIC CLEANER. UNIT IS NOT WATERTIGHT.

You may disinfect using either a quaternary ammonium disinfectant such as CaviCide®, or a phenol alcohol-based spray such as Lysol® brand disinfectant. Follow the label directions. DO NOT USE AN AUTOCLAVE, CHEMICLAVE, GLUTARALDEHYDE, IODOPHOR OR ANY OTHER STERILIZATION METHOD, OR DAMAGE MAY RESULT. If there are any questions, please call Customer Service at the toll-free number.

One-Year Limited Warranty

Kerr Corporation, warrants the Orascoptic Zeon Fiber-Optic Cable, 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 agents for a period of one year 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 unsatisfactory. 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 improper maintenance, service or cleaning procedures. This Warranty is also void if the Zeon Fiber-Optic Cable 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.

U.S. Technical Support: 800-369-3698
Outside the U.S. Call Your Local Distributor

Kerr Corporation
3225 Deming Way, Suite 190 • Middleton, WI 53562, USA
Phone: 608-831-2555 • Fax: 608-828-5265
orascopic.com
In Canada: Synca • 800-667-9622

© 2005 Kerr Corporation
U.S. Patent Number 5,667,291 and 6,012,827, Patented, B.D.P., Breve No. 0830541, Breve 18.50

European Union Representative
Kerr Italia Spa, Via Passante, 392
I-44018 Scalfati (RA), Italy

AL-INSTR-CABLE-005
Zeon® Micro Cable
For Use With Zeon LumenArc Light Source

Zeon Micro Cable Parts

A. Through-the-Lens (TTL)
Use on: • HiRes.
• HiRes Plus.
• Dimension-3.
From side, slide on to micro mounting block, turn thumb screw slightly to tighten.

B. Flip-Up
Use on: HiRes.
Slide the clip over the center of hinge.

2. Micro Cable Temple Clip
Use on: Orascoptic Titanium Frames.

3. For Use With Zeon LumenArc™ Light Source

4. For all other cable instructions, refer to Zeon Fiber-Optic cable manual.