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ESS Universal Light Guide Part/SKU#: U5.0U225

Usage, Maintenance and Sterilization Instructions

Thank you for your purchase of the ESS Universal Light Guide

INTENDED USE

The ESS Universal Light Guide is designed to provide illumination to a surgical site by efficiently transferring light from a fiber optic light source to an appropriate surgical instrument, laparoscope or surgical headlight.

The light guide may be used with compatible halogen, metal halide, xenon and LED light sources.

NOTE: 300 watt or greater xenon light source should have at least 90% IR filtering to prevent damage to light guides.

NOTE: Careful matching of fiber optic cable bundle size to instrument will ensure maximum light transmission and minimize end fitting temperature. Use the instrument manufacturer's recommendations for light guide sizing to minimize scope fitting temperature.

NOTE: The light guide is provided non-sterile and must be sterilized before use. See cleaning and sterilization instructions

INSTRUCTIONS FOR USE

1. Verify mating connections are compatible with the light guide.
2. Attach light guide to light source and instrument per each manufacturer's instructions.

NOTE: Verify all connections to light source and instruments are firm before use.

WARNING: Light emitted from this light guide contains significant energy. When connected to operating light source, unintended contact with the light from a light guide not attached to a device may result in burns. Do not allow distal end to directly contact tissue or other heat sensitive materials. Do not place on or near drapes, gowns or other textiles. Do not contact patient directly. Do not use for transillumination.

The temperature of the end fittings is affected by the light source and scope. These surfaces may exceed 50°C during operation.

Allow light source end fitting to cool, or avoid contact after use.

CAUTION: The fiber optic cable is a precision optical instrument. Do not cut, stretch, kink, puncture or otherwise damage or alter the cable. The above will reduce light transmission and/or effect user and patient safety. Discard or repair if damaged.

CLEANING

The Fiberoptics Technology, Inc (FTI) light guide may be cleaned using a mild soap or non-oil cleaner.

CAUTION: DO NOT use synthetic detergents or oil-based soaps. The petroleum components of these soaps may be absorbed by the silicone rubber components and may leach out during use to cause a tissue reaction.

CAUTION: Avoid scratching glass fibers at ends of light guide. Damage to fibers may reduce light transmission.

NOTE: Use a mild cleaning solution with a pH range of 5 to 9.

1. Clean thoroughly using a soft-bristled brush in a lukewarm water-soap solution to remove any possible contamination.
2. Rinse thoroughly in lukewarm water.
3. Rinse thoroughly in distilled water.
4. Allow to air dry or re-sterilize, per facility policy.

STERILIZATION

AUTOCLAVING AND STEAM STERILIZATION

CAUTION: DO NOT use a HIVAC sterilizer. It may cause the silicone tubing to bubble excessively.

CAUTION: Remove the fiberoptic cable from the sterilizer and allow to cool slowly to room temperature.

CAUTION: DO NOT immerse or rinse hot fiberoptic cables in cold water or liquid. This may cause glass breakage which may reduce light transmission.

GRAVITY DISPLACEMENT STEAM STERILIZATION:

- Gravity displacement sterilizer, 121°C
- Cable wrapped in an instrument tray or fully perforated sterilization box.
- 30 minute exposure time
- 20 minute dry time

PRE-VAC “FLASH” STEAM STERILIZATION:

- Gravity displacement sterilizer, 134°C
- Cable unwrapped in an instrument tray or fully perforated sterilization box.
- 4 minute exposure time
- 20 minute dry time

STERRAD®:

- Use the manufacturer’s instruction for operation.
- Do not sterilize in sterilization pouches. Doing so may result in damage to device.

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ETHYLENE OXIDE (EtO):

- Wrapped
- 100% EtO (725-750mg/l)
- 1 hour 45 min exposure at 54°C
- 12 hour aeration at 54°C

WARRANTY & REPAIR

This fiber optic cable is warranted to be free from defects of material and workmanship to the original purchaser for a period of **12 months (1 year) from the date of purchase**. This warranty is limited to the repair or replacement of the fiberoptic cable.

The warranty does not cover damage resulting from misuse, mishandling, or use or processing outside of recommendations in this user instruction. No other warranties are expressed or implied.

All requests for warranty repair or replacement must be made to:

**Endoscopy Support Services, Inc.
ATTN: Service Department
3 Fallsview Lane
Brewster, NY 10509
(USA)**

You can obtain repair instructions and an ESS “Speed-Up” Repair Form (in Acrobat® PDF format) from our website:

<https://www.endoscopy.com/repairs>

You can also contact ESS, Inc. toll-free (U.S. Residents Only):

1-800-FIX-ENDO (349-3636)

For customers outside the United States, please use our main Phone Number:

1 (845) 277-1700

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