



SURGICAL HEADLIGHT USER GUIDE



INTENDED USE

The Surgical Headlight is a passive luminaire. It is illuminated by a source of light by way of fiber optics and provides supplemental lighting for medical and surgical procedures.

ASSEMBLY AND OPERATION

1. Insert fiber optic cable into the headlight module.
2. Place cable over top of headband. Place the fiber optic cable into the crown and back clips.
3. Adjust headlight module position using the joystick
4. Secure fiber optic cable to the user's surgical gown using the gown clip(s) provided.

HEADGEAR ADJUSTMENT

The optional top adjustment (models: GMF-H200, GMF-H201, GMF-H202, and GMF-H203) is very important; therefore it should be done first to gain maximum comfort. The top adjustment allows the headband to sit as low as possible on the head. Use knob at top to adjust headgear. The back adjustment is done by turning the back knob until snug around the head.

HEADLIGHT OPERATION

1. Turn light source intensity down to a minimum. Insert fiber optic cables proximal end into Illuminator.
 2. Set illuminator power switch in the ON position. Adjust light intensity as desired using the variable intensity knob.
- Adjust size of illumination spot by turning grooved dial on headlight.



WARNING: Do not look directly into light source, cable or headlight when illuminated. Eye injury may result.

HEADLIGHT ADJUSTMENT

The joystick should be used to adjust the positioning of the light beam and it should be pushed or pulled gently.

- Rotational, clockwise and counter clockwise movements for exact focusing of the light spot.

CLEANING AND MAINTENANCE

CAUTION: Turn off Illuminator before disconnecting fiber optic cable from Illuminator.

CLEANING INSTRUCTIONS:

Exterior surfaces of the headlight, headgear and fiber optic cable can be wiped clean with the following solution:

- Tween 80 (or equivalent)

WARNING: DO NOT IMMERSE OR SATURATE THE HEADLIGHT OR FIBER OPTIC CABLE AS DAMAGE TO THE OPTICS WILL RESULT. REMOVE VISIBLE SOIL FROM THESE PARTS WITH A SOFT CLOTH SLIGHTLY MOISTENED WITH A SOLUTION OF TWEEN 80 DETERGENT (OR EQUIVALENT) AND TAP WATER MIXED TO MANUFACTURER'S INSTRUCTIONS. RINSE WITH A SOFT CLOTH SLIGHTLY MOISTENED WITH TAP WATER. DRY WITH A DRY, ABSORBANT SOFT CLOTH.

Step	Solution	Time	Temperature	Instruction
1	Tween 80 detergent (or equivalent) and water mixed to manufacturer's instructions	10 minutes minimum	Warm, as delivered from the available hot water tap	Remove the Joystick from the Headlight. Remove the Sweatbands from the Headgear. Being careful not to wet the Headlight or Optic Cable, saturate a soft cloth with solution and wipe the surfaces of the Joystick, Sweatbands and Headgear until all visible soil is removed. Use additional clean saturated cloths as needed. If necessary, scrub with a soft bristle brush.
2	Tap Water	5 minutes minimum	Ambient	Using a soft cloth, wipe rinse thoroughly immediately after Step 1. Again, use extreme caution not to wet the Headlight or Optic Cable.
3	70% Isopropyl Alcohol (IPA)	1 minute minimum	Ambient	Using a soft cloth, wipe rinse immediately after Step 2.
4	Air	As required	Ambient	Allow surfaces to dry and inspect for visible soil. Repeat from Step 1 if needed.

Headbands and headlight should not be immersed into disinfecting liquids or sterilizers.

Keep ends of fiber optic cable clean by wiping with a damp cloth.

Clean the optics only with lens soft tissue. Follow the instructions on the package.

Avoid scratching or striking ends of fiber optic cable. Reduction in light transmission may occur.

To inspect fiber optic cable for fiber breakage, remove from light source and headlight assembly. .
Avoid excessive fiber breakage by coiling loosely.

DO NOT AUTOCLAVE THE FIBER OPTIC CABLE OR ANY OTHER PARTS OF THE HEADLIGHT SYSTEM!

PRECAUTIONS



"Caution: Federal law restricts this device to sale by or on the order of a physician ", or with the descriptive designation of any other practitioner licensed by the law of the State in which he practices to use or order the use of the device.



Do not look directly into illumination source, end of cables or headlight when illuminated. Eye injury may result.



Do not use at distances closer than 16in. (40cm) for extended periods. Erythema may result.



Do not remove the fiber optic cable from the headlight while light source is on. The light guide's distal end may transfer extreme heat.



Proximal end of fiber optic cable may be hot after use. Do not touch.

WARRANTY

Headlight

The Surgical Fiber Optic Headlight System is guaranteed against all defects in materials and workmanship. All surgical Headlight Optical Modules are warranted for 1 year.

This warranty is void if service is performed by anyone other than the manufacturer.

AVAILABLE PARTS AND COMPONENTS

	<u>Order#</u>
Replacement Bifurcated Fiber Optic Headlight Cable	GMF-BC10
Replacement Mono Fiber Optic Headlight Cable	GMF-MC10
Replacement Sweatbands (1 set):	GMF-OP05
Replacement Joysticks (pack of 3):	GMF-OP02
Replacement Gown Clips (pack of 10):	GMF-OP03

CONTACT INFORMATION

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