

LED Handle For Endoscopic Illuminators

by Orion Concepts Inc.
www.orionconceptsinc.com

GreenStar LED Handle for Endoscopic Illuminators

Intended use: These LED handles are designed to be used with fiber-optic ring illuminators for sigmoidoscopes and anoscopes, reusable fiber-optic anosopes and sigmoidoscopes or with single-use light guides for anosopes.

The Illuminator handle consists of two sections: the main handle & head section. The batteries must be removed & the LED cartridge removed from the head prior to sterilization.

SAFETY INSTRUCTIONS

EMC compatibility: this device conforms with current required standards for electromagnetic interference and should not present problems to other equipment or be affected by other devices.

ENVIRONMENTAL CONDITIONS

Operation: Temperature +10°C to 30°C, Rel. Humidity 30% - Air Pressure 800mb - 1060mb

CLEANING, DISINFECTION & STERILIZATION PRODEDURE (REFER TO FIG. 1)

When hospital policy permits the illuminator handle may be wiped down using a suitable disinfectant wipe or disinfectant solution.

Remove head section by unscrewing from handle body and remove batteries and LED lamp cartridge before subjecting handle to any of the following processes.

LED LAMP CARTRIDGE

The cartridge lens must only be cleaned with a mild detergent and warm water solution.

The lamp cartridge may be wiped with cloth dampened with 70% isopropyl alcohol. Avoid prolonged contact with IPA.

DO NOT ALLOW SOLUTION TO ENTER INTO CARTRIDGE.

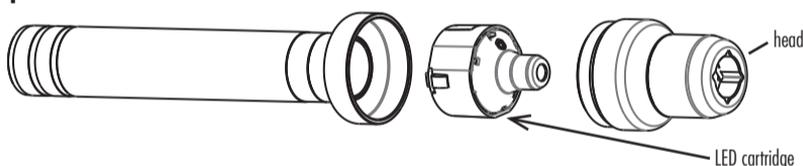
The lamp cartridge **CANNOT BE SOAKED OR AUTOCLAVED**

MAIN HANDLE & HEAD SECTIONS

After removing the batteries and LED lamp cartridge, the main handle assembly and head may be sterilized by any method or system, according to the best practices of your facility.

The main handle assembly and head sections may also be soaked in an enzymatic detergent instructions or washed or soaked in disinfection solution following the directions supplied by the manufacturer of the detergents or solutions.

Fig. 1



TEST PROCEDURE

- Illuminator handles should always be tested after cleaning/disinfection/sterilization and prior to use.
- To check, insert the fiber-optic lighted anoscope, proctoscope or single-use light guide into the socket at the top of the illuminator handle until it clicks into place. If the unit fails to light or flickers, check the batteries and ensure cartridge is fully seated in the handle head.
- Be sure adequate supplies of batteries and replacement parts are readily available. If the problem still persists, contact Orion Concepts Inc. Customer Service.

WARNING: If handle is hot to touch, immediately remove and inspect all batteries and check cartridge for proper operation.

MAINTENANCE

Battery Replacement (Disposable & Rechargeable)

1. Unscrew head from handle and remove batteries.
2. Standard Handle uses 2 "AA" cell batteries.
3. Replace with appropriate batteries observing polarity as shown (fig. 2) and replace handle head.

WARNING: Remove batteries and store separately from handles if handles will be out of service for periods of 2 months or longer.

LED LAMP CARTRIDGE (Refer to Fig 2)

1. Prior to removal, allow cartridge time to cool. Unscrew handle head by turning counterclockwise. LED Lamp holder cartridge assembly will remain in head. Remove by applying pressure in direction of arrow shown, using finger or blunt-tipped object, taking care to avoid damage to cartridge lens.

CAUTION: Be sure cartridge lens is clean and free of any fingerprints after assembly. If necessary, the lens may be cleaned with a soft cloth or cotton ball moistened with a mild detergent and warm water solution.

2. To reinstall cartridge in the head, invert head. Insert the cartridge into the head as shown (Fig.2) and apply slight pressure to set the cartridge in place.
3. Reinstall batteries in handle observing polarity as shown (Fig. 2) and replace head on handle & tighten by turning clockwise.

* There are no user serviceable parts in the LED lamp cartridge.

Product Code	Class	Description
GS-LEI-A-HP	1	GREENSTAR LED ENDOSCOPIC ILLUMINATOR "AA"-cell batteries, Welch Allyn Compatible
P71905-CASA	Part	Lamp Cartridge- Alkaline
P71912-BC1	Part	Handle Tube, Bottom Cap & Spring
GS-LEI-S-A-HP	1	GREENSTAR LED ENDOSCOPIC ILLUMINATOR "AA" - cell batteries, Storz Compatible
P71905-HB23	Part	Head Section, Welch Allyn Compatible
P71905-HB19	Part	Head Section, Storz Compatible

CLASS B, GROUP 1 ISM EQUIPMENT

CUSTOMER SERVICE

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Use of instrument in presence of intense magnetic fields should present no problems.



Fig. 2

