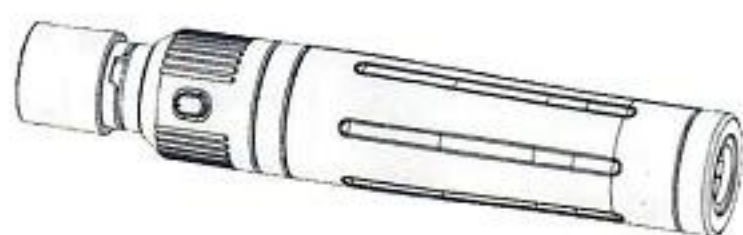

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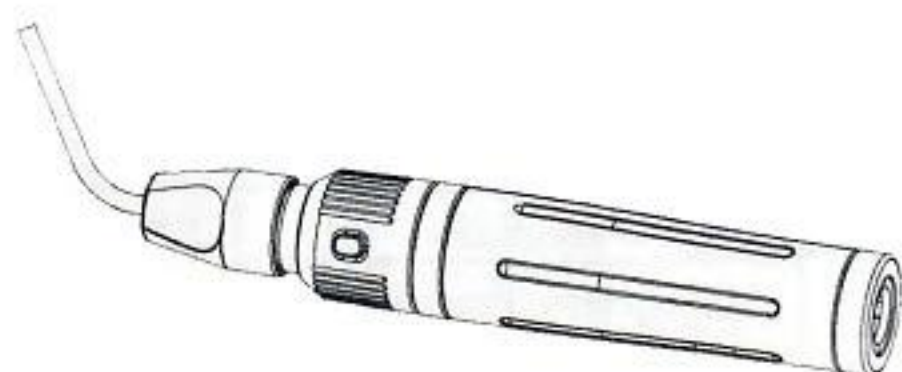
Operation Manual



Illuminator User's Guide



3.5V Throat illuminator



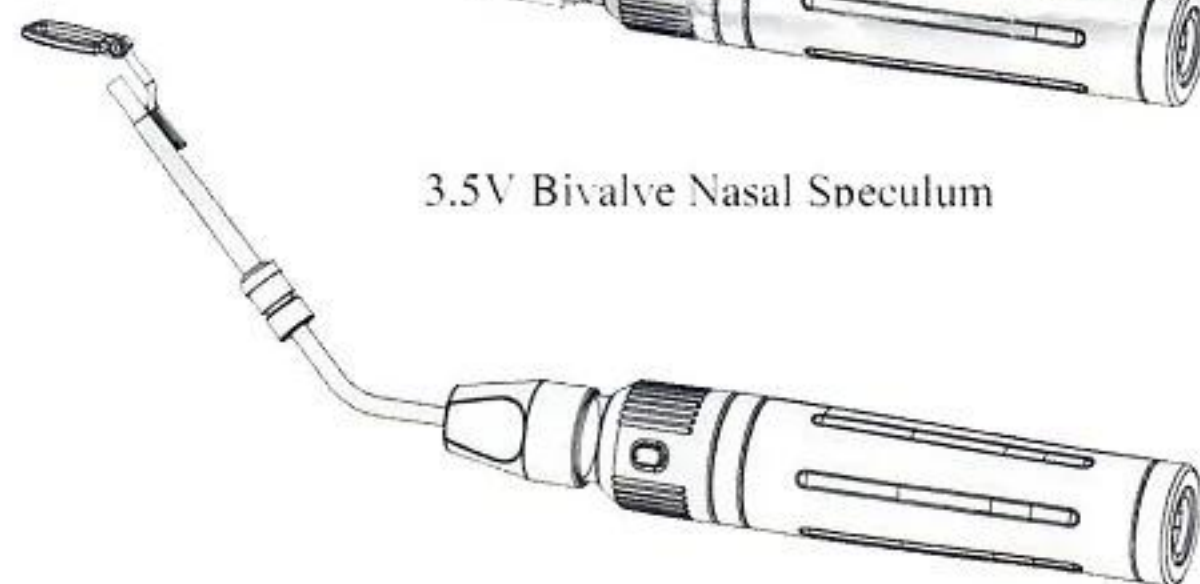
3.5V Halogen Fiber-Optic
Trans illuminator



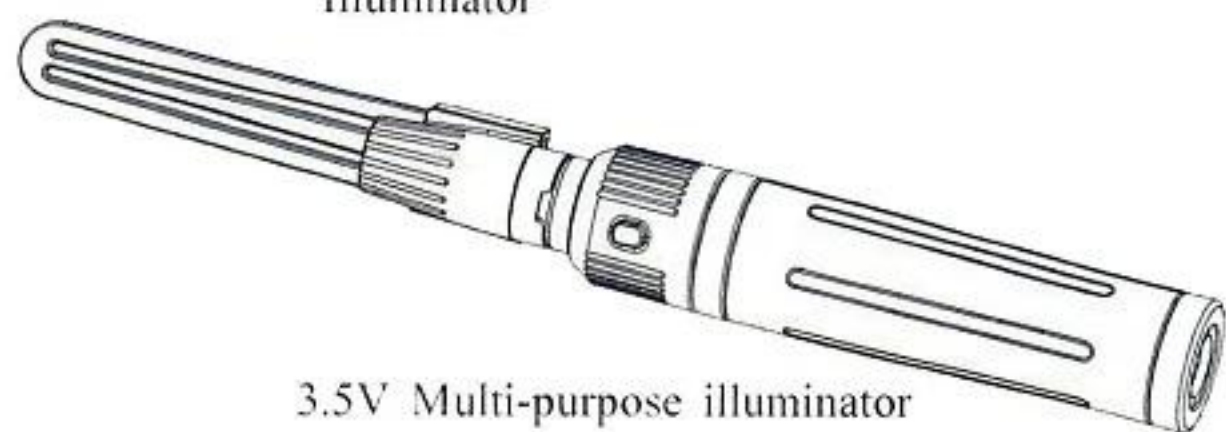
3.5V Nasal illuminator



3.5V Bivalve Nasal Speculum



3.5V Larynx / Nasopharynx
Illuminator



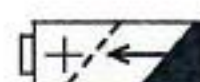
3.5V Multi-purpose illuminator
with integrated tongue-blade
holder

Thank you for purchasing this Illuminator. To prevent damage to the Illuminators or injury to yourself or to others, read the following safety precaution in their entirety before using this equipment. Keep these safety instructions where all those who use the device will read them.

Symbol:



BF applied part



Internal electrical power source

Attention: Read user's guide for warning and cautions and instructions for operating.



Warnings and Cautions



Warning: Use Illuminator only with all approved 3.5V power.



Warning: This device should not be immersed in fluids.



Warning: Federal law restricts this device to sale or order of a physician.

1. Purpose and features 3.5V Throat illuminator

1.1 Purpose

The Illuminator described in these instructions for operating have been produced for ENT.

1.2 Features:

- The Illuminator is rechargeable, composed by the handle and the head.
- Halogen lamp provides light output for true tissue color and consistent, long-lasting illumination.
- The Illuminator is available with Li-ion battery. Show as Table 1.

Table 1

Type	Features
3.5V Throat illuminator	As a throat illuminator or a Pencil flashlight.
3.5V Halogen Fiber-Optic Trans illuminator	Fiber-optic light transmission for cool distal light. Fully sterilizable with steam, water, gas or solutions.
3.5V Nasal illuminator	Fiber optics project cool distal light. Simply detach the head to use as a throat illuminator/penlight.
3.5V Bivalve Nasal speculum	Fiber-optic light transmission produces cool distal light. Adjustable speculum facilitates removal of foreign bodies. Autoclavable for complete sterilization.
3.5V Larynx / Nasopharynx Illuminator	Fiber-optic light transmission produces cool distal light. Wide-angle rotatable mirror with pilot aperture. Illuminators withstand sterilization with steam, water, gas or solutions.
3.5V Multi-purpose illuminator with integrated tongue-blade holder	Fiber-optic light transmission produces cool distal light. Can be used as a general illuminator and as an illuminated tongue-blade holder for disposable blades.

2. Operating Instructions

Examiner holding the handle, Depress On /Off Button on the ring of handle and rotate the ring.rotate clockwise to increase brightness, rotate counter-clockwise to reduce brightness.

Operating:

1. Patients should be sitting in front of the examiner or the examiner's left.
2. According to test the different station ,select the Illuminator and turn on the power.
3. Push the finger seat area of the illuminator ,also the top of the blade open the same angle .
4. The front of the illuminator have a reflector , The test station can be observed by the light from the mirror,and also the reflacotr can rotate on the fiber-optic tube. The hole of the mirror can place the posion.
5. power adapter output 9 VDC –12 VDC, the current 800 mA. –1200mA.

3. Maintenance

3.1 Replacing the illumination bulb

Turn off the main power switch,remove the GL60 Series Illuminator from the power . grasp end of bulb and pull out. Insert replacement bulb, Push bulb in firmly.

The specification of bulb for the Illuminator is 3.5 V/2.7 W



Caution: Please use the appropriate bulb. When the device is powered for an extended period, the bulb may become hot. Before removing the bulb, allow the bulb to cool.

3.2 Cleaning

The cleaning of the illuminator is easily accomplished by wiping the external surface with a cloth dampened with a mild detergent and water solution, or a 70% isopropyl alcohol, or a 10% bleach solution (by volume). Do not immerse.

NOTE: Solution entering the assembly could damage internal components. Use caution to ensure cloth is not saturated with solution.



Caution: The Illuminator should never be placed in municipal waste.



Caution: The battery should never be placed in municipal waste. Please check local regulations for disposal of batteries.

Optical specifications		
Illumination Form		Fiber optics transmit light
Electrical specifications		
Rated voltage		3.7 V rechargeable Li-ion battery
bulb		3.5 V/2.7 W
Electrical Safety		Complying with EN60601-1 EN60601-1-2 Protection: Internal electrical power source Operation mode: Intermittent 2 mins "ON" 5 mins "OFF"
Environment requirements		
Operation	Environment Temperature	+10 °C – +35 °C
	Relative Humidity	30% – 75%
	Atmospheric Pressure	700 hPa – 1060 hPa
Shipping	Common Conveyance	
Storage	Environment Temperature	-40 °C – +55 °C
	Relative Humidity	10% – 90%
	Atmospheric Pressure	500 hPa – 1060 hPa

4. Technical Specifications

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