



ISOLUX

LUXTEL: A BRILLIANT CHOICE

OPERATION MANUAL

IsoLED

PORTABLE LED HEADLIGHT



The IsoLED system consists of:

- Re-chargeable control unit with belt clip
- LED Illuminator with variable spot control
- Choice of dual adjust ratchet or soft headband
- 2 meter Cable Assembly
- Battery Charger
- Additional battery control units available



IsoLED Control Unit

- Weighs only 190 grams
- On/Off Intensity Control Knob (3-100% adjustability)
- On indicator
- Re-Charge Plug-in Connector
- Belt clip
- Additional units can be purchased separately

IsoLED Illuminator

- Variable spot, 10-100mm diameter at 400mm/16" or 20-230mm diameter at 1m/39"
- Flexible linkage for infinite positional control
- Removable/sterilizable positioning joystick
- Attached to dual adjustable ratchet headband or soft Velcro headband

Battery Charger

- Universal AC input, 100 to 240 VAC
- Indicator light, goes from red to green when fully charged

1.0 SPECIFICATIONS

Illumination	650,000 lux (minimum)
LED Life	>50,000 hours
Color Temperature	10,000 °K
Light Degradation	None
Spot Size	10mm to 100mm at 400mm/16" working distance
Intensity Range	3% to 100%
Operating Time	>4 ½ hours typical at maximum intensity
Normal Recharge Time	3.6 hours
Quick Recharge Time	2 hours, for 4 hours of maximum intensity
Headband	Dual ratchet or soft velcro
Weight (headlight)	330 grams (LED, headband, cable and optics)
Weight (battery)	190 grams
Size (control unit/battery pack)	4.25" x 2.7" x 1.1"

2.0 OPERATING INSTRUCTIONS

2.1 Charging the Battery

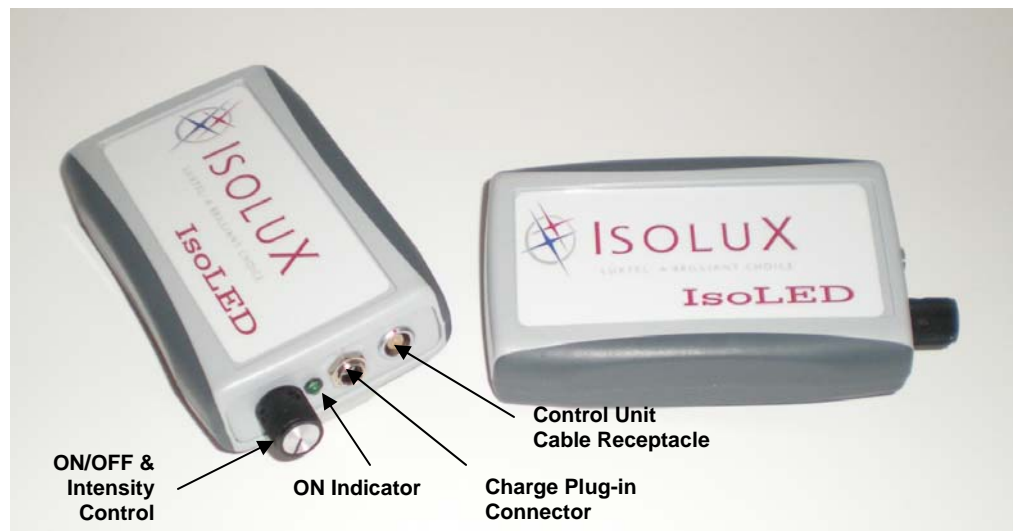
1. Plug the charger male connector into the receptacle on the Control Unit.
2. Plug the AC connection into a 100-240 VAC source.
3. The charger indicator light will illuminate red while charging and turn green when charging is complete (approximately 3.6 hours).
4. An 85% partial charge may be performed in 2 hours.
5. Disconnect the charger from the AC source and unplug the charger from the control unit.

2.2 Illuminator and Headband Operation

1. Plug the Cable Assembly into the illuminator unit receptacle. There are red orientation dots that must be aligned.
2. The cable should be routed and snapped into place through a set of two cable clips. For dual ratchet headsets one is located on the top on the crown and one on the rear of the headband. The user has the choice of using the set on the left or the right.
3. For softband/velcro headsets, the cable should be routed through two clips along the circumference.
4. The illumination spot size may be adjusted by turning the grooved dial on the headlight.
5. The linkage assembly on the headband allows for personal positioning control. The joystick is used to further adjust the position of the light beam.

2.3 Control Unit / Battery Pack Operation

1. Assure the Cable Assembly is plugged into the illuminator unit receptacle. There are red orientation dots that must be aligned.
2. Plug the other end of the Cable Assembly into the Control Unit receptacle, once again aligning the red dots.
3. Clip the control unit where desired or place in a pocket.
4. Turn the ON/OFF and intensity control knob clockwise to turn unit On (switch will close). This knob also controls the intensity.
5. To turn unit Off, turn control knob counter-clockwise until switch opens.
6. When battery has discharged to a level too low to maintain operation, the Illuminator will dim or flicker and the green LED on the control panel will turn off.
7. The unit's operational time could be extended from 4½ hours at full intensity to greater than 9 hours by using the illuminator at half intensity.



Control Unit / Battery Pack

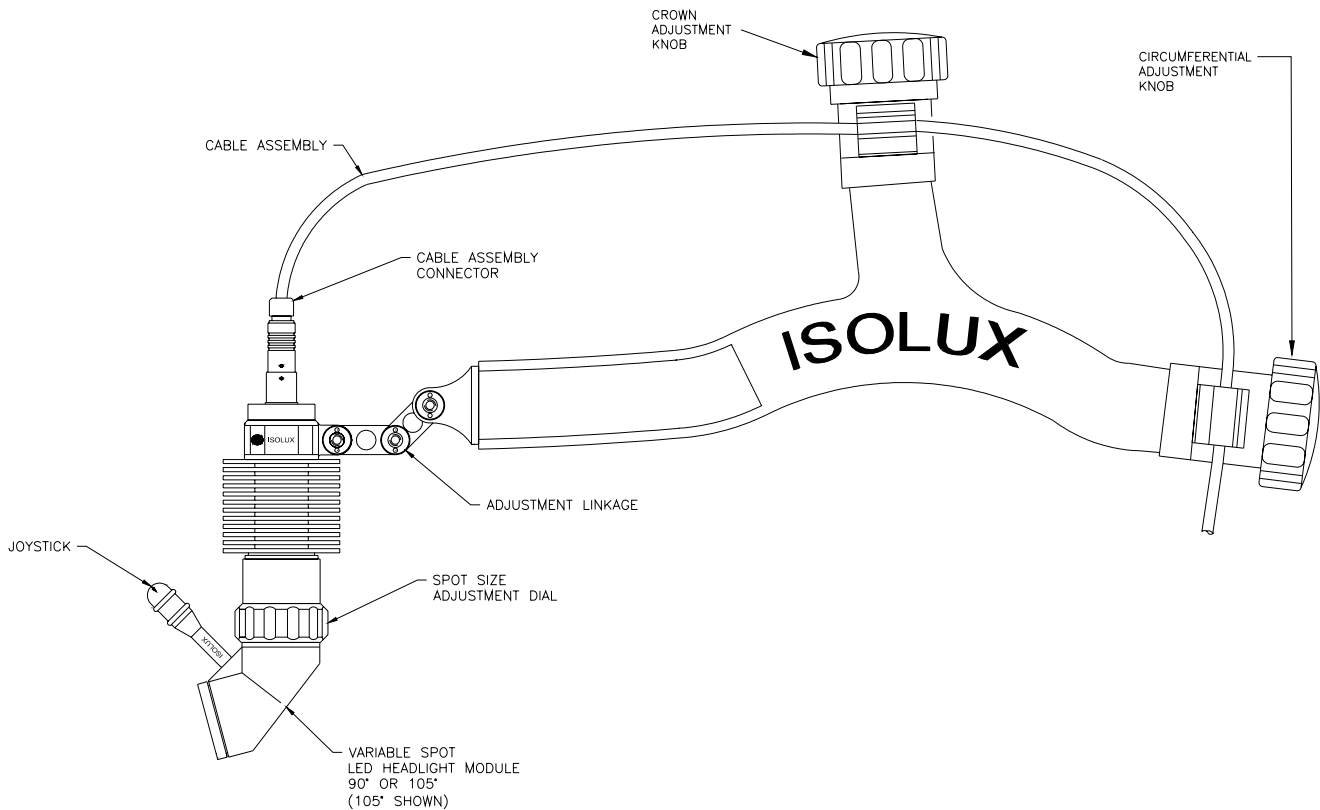


Figure 2 – Headlight Assembly with Illuminator

3.0 CARE & MAINTENANCE

3.1 Headlight, Headgear and Cable

DO NOT AUTOCLAVE !

Exterior surfaces of headlight, headgear and cable can be wiped clean with any of these solutions:

- Banicide
- Cidex, Cidex Plus, Cidex 7
- Metracide
- 10% Wescodyne
- 10% bleach
- 70% isopropyl alcohol
- Wavecide-01
- Mild soap

Headbands and headlight modules can not be immersed into disinfecting liquids or sterilizers. Keep ends of cable clean by wiping with a damp cloth. Allow to dry before use.

Clean the optics only with lens tissue available at any camera store. Follow the instructions on the package.

To insure long life for the headgear, cable and power source, store them in a cool dry environment.

3.2 Joystick

Joystick can be sterilized after unscrewing from headlight.

DO NOT AUTOCLAVE ANY OTHER PARTS OF THE HEADLIGHT SYSTEM !

4.0 WARNINGS AND CAUTIONS

4.1 Warnings

Users of this headlight should be trained in the appropriate surgical procedures. They should read and understand the owner's manuals for this Headlight and all equipment used in conjunction with it.

4.2 Cautions



Do not look directly into headlight when illuminated. Eye injury may result.



Do not use at distances closer than 10in(25cm) for extended periods. Erythema may result.



Service must be performed only by IsoluX authorized repair personnel.

6.0 WARRANTY AND SERVICE

6.1 Headlight

The IsoLux IsoLED Headlight System is guaranteed against all defects in materials and workmanship. All surgical Headlight Optical Modules and Connecting XYZ Mechanisms are warranted for the lifetime of the purchaser.

This warranty covers the replacement of the parts only and does not include any on-site labor costs. This warranty is void if service is performed by persons other than authorized IsoLux llc distributors or representatives or if equipment is interconnected with components not manufactured by IsoLux llc and/or have been approved by IsoLux llc for compatibility.

6.2 LEDs

IsoLux llc warrants the LED's a full five (5) years, by normal use only. Isolux reserves the right to void this warranty if any non authorized power source is used in conjunction with the head set or if liquids are allowed to ingress the optical head or control unit.

7.0 ORDERING PARTS AND COMPONENTS

The IsoLux Ilc IsoLED Headlight is designed for use with the IsoLux Ilc power source only.

	<u>Order#</u>
DC Rechargeable Control Unit/Power Pack	07-A1
Headlight Illuminator	07-A2
Cable Assembly	07-A4
Battery Charger	07-A5
Replacement Sweatbands (pack of four sets):	07-HGFS
Replacement Joysticks (pack of 2):	07-HGJS
Replacement Headband	07-HLAG