

## Maintenance

Storing the Surgical LED system in a safe place will prolong the life of the unit. The following guidelines will help in sustaining the headlight systems useful life:

- Forming the cable in sharp angles and kinks should be avoided whenever possible. The cable could malfunction under these conditions.
- Keep the optical face on the light unit from touching hard surfaces which may cause scratches on the surface. Scratches on the surface will diminish the light quality.
- When cuts or punctures are visible in the silicone tubing, the cable is no longer safe to use; it should be taken out of service immediately.

## Cleaning

- Do not use any abrasive cleaners
- Wipe equipment and cables with a damp cloth only
- Do not submerge or put under running water
- The Surgical LED system may be sprayed with a disinfectant spray, provided the equipment is disconnected from the battery charger
- The Surgical LED system can not be autoclaved
- Ensure equipment is completely dry and cool prior to use

## Warranty & Repair

Covered under Warranty – from defects in material and/or workmanship

- Battery 12 months - from the date of purchase
- All other parts 24 months - from the date of purchase

Not Covered under Warranty

- Any damage due to improper usage or mishandling, cleaning
- Any damage due to not following instructions and warnings
- Any attempt to repair the light other than with SurgiTel will void warranty
- Normal wear and tear, items based on life (i.e. LED, Battery)

Should your product prove to have such defects that is covered by our warranty within 12 months of the purchase, SurgiTel will repair or replace the product or component part without charge. Should your Surgical LED need servicing under this warranty, please contact SurgiTel customer service for return authorization documentation. You should carefully pack unit in a sturdy carton and ship it to the factory. Mark the package with the RMA number and please include a note describing the defects, your name, telephone number and a return address. This warranty gives you specific legal rights and you may also have other rights that vary from state to state.

**POST WARRANTY REPAIRS: You may return your product(s) for repair by calling customer service to obtain an RMA number. Then carefully package the unit and mark with the RMA number on the outside of the box. Ship prepaid to the factory. Your product will be inspected and an estimate of repair charges will be submitted to you for approval. Payment must be received before repairs are completed.**

In the U.S call: 800-959-0153

FAX number: 734-662-0520

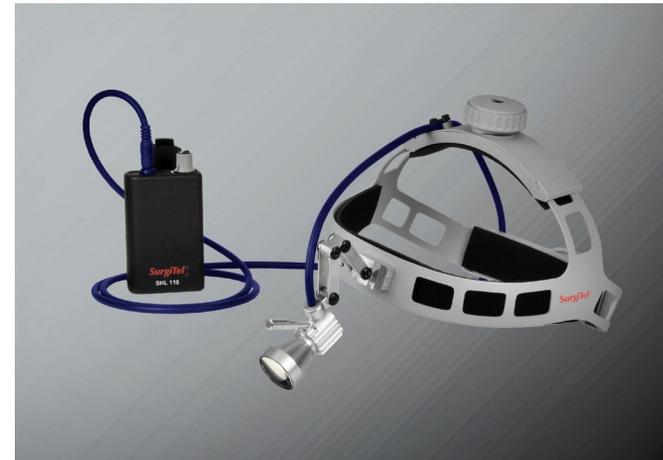
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**SurgiTel®**

## Surgical LED Manual

(Part #25928, Revision D, 01-07-21)



(Headband Mounted)



(Loupe Mounted (FLM))



(Loupe Mounted (TTL))

### Package Contents

- Surgical LED Light and Cable
- SHL110 Battery Control Pack
- Universal AC Charger
- Accessory Kit

#### Purchase Options:

- Headband Mounted
- Loupe Mounted (FLM/TTL)

## Technical Data

Brightness	~ 100,000 Lux	Lens Diameter	0.95" (24.13mm)
Spot Size	2.50" Dia. (63.5mm) @ 14" (355mm)	Weight (LED light unit)	1.52 ounces (43g)
LED Beam Color	Cool Light	Battery	Rechargeable Lithium Ion Battery 7.4V 2,900 mAh
Color Temperature	6,500K	Battery Life	Up to 4.5 hours
LED Life (Estimated on intensity used)	Over 20,000 hours	AC Charger	Input: 100-240V, 50-60Hz, 0.5A Output: +8.4V, 1.5A

## General Warnings

- The user of this product should be thoroughly familiar with the use and care of this product.
- The user should carefully study the manual before making any attempt to use this product clinically.
- Before each procedure carefully inspect the cable to ensure the proper maintenance and sterilization (when recommended).
- Use care not to point the light directly at the eyes during operation; patient use of safety glasses is recommended.

**FIRE HAZARD: DO NOT PLACE THE LED LIGHT UNIT ON ANY FLAMMABLE OBJECT WHILE IT IS OPERATING.**

### WARNING:

- The LED light unit will get hot when left on. Handle with care. It is recommended to turn off the LED before handling or making any adjustments to your LED light system.
- Avoid direct light contact with the eyes.
- Avoid direct light irradiation in patient's eyes; patient use of safety glasses is recommended.

### BATTERY CONTROL PACK & AC CHARGER

- Use only the SHL110 Battery Control Pack & AC Charger supplied with this system; Do not use with other headlights, including SurgiTel Micro or Mini LED Headlights
- Do not disassemble, modify or short circuit
- Do not leave in hot places, such as inside a car or outside in hot weather
- Do not allow to get wet

## Classification

- Protection against electric shock: Class II including AC/DC Adapter.
- Applied parts : No applied parts.
- Protection against harmful ingress of water: ordinary IPXO.
- Degree of safety in the presence of flammable anesthetics mixture with air or with oxygen or with nitrous oxide.
- Not suitable for use in the presence of a flammable anesthetics mixture with air or with oxygen or with nitrous oxide.

## Symbol

	Direct current
	Date of manufacture
	Alternating current
	CE mark
	Class II equipment
	Serial No
	Attention, consult accompanying documents

## Operation Condition

- Ambient temperature range 10 to 40 °C
- Relative humidity range 30 to 75%
- Atmospheric pressure range 70 to 106 kPa

## Transport and Storage Condition

- Ambient temperature range -40 to 70 °C
- Relative humidity range 10 to 100%
- Atmospheric pressure range 50 to 106 kPa

## Operation

- \*COMPLETELY CHARGE/DISCHARGE BATTERY FOR FIRST 3 CYCLES\*  
This will optimize overall battery performance.
- Charge Time (Battery Pack) = approximately over 4 hours
- Maximum continuous operation at full load is approximately over 4 hours
- Attach the LED light to loupes or glasses using an appropriate adapter
- Use the included garment clips to route the cable appropriately

- **Power switch (1):** Rotate to turn light off/on
- **Light intensity (1):** Adjust the position of the knob to adjust the light level
- **Rechargeable inlet (2):** Recharges the battery with the aid of an AC charger
- **Battery charge level indicator light (3):**  
GREEN = fully charged, RED = charging, FLASHES RED = error



### WARNING:

#### SHL110 Battery Control Pack Belt Clip

- Improper use of the belt clip can lead to product damage. Refer to photos shown to the right for correct use.



#### SHL110 Battery Control Pack Placement

- Positioning the battery pack incorrectly can lead to belt clip damage. Refer to the photos shown to the right for correct placement.

