

LED Headlight for ENT, Dental and Surgical Use, Rechargeable

Operating Manual

Surgical Instrument

Intended use

Head-mounted, battery-powered LED light that provides hands-free illumination of the examination or procedure field in ENT, dental, oral surgery, general surgery and veterinary settings.

Intended users

Trained healthcare professionals, including physicians, surgeons, dentists, veterinarians and supervised trainees. For use by trained healthcare professionals. Follow your facility's protocols and applicable regulations.

Read this manual completely before first use and keep it with the product. This document provides general operating, care and safety guidance. Where the product is supplied with manufacturer labeling or instructions, those take precedence. For questions, a replacement copy, or a digital copy of this manual, email sales@scimedstore.com.

1. Safety

Safety warnings and cautions

- For use by trained healthcare professionals. Follow your facility's protocols and applicable regulations.
- Do not look directly into the LED or shine the light into anyone's eyes.
- Use only the supplied charger. Charge on a dry, non-flammable surface away from heat sources.
- Do not use or charge a battery that is swollen, damaged, leaking or unusually hot.
- Do not immerse the headlight, battery or charger in liquid. Do not allow liquids into the LED housing or battery pack.
- Not autoclavable. Heat sterilization will damage the LED and battery.
- For sterile-field use, cover with a sterile drape per facility protocol.
- Check that the battery has enough charge before starting a procedure.

2. Package contents

- Headband with LED light
- Battery pack
- Charger

Check contents on receipt. Report missing or damaged items to sales@scimedstore.com within 48 hours of delivery.

3. Specifications

LED power	5 W
Illumination	55,000 lux at 420 mm working distance
Color temperature	5500 K +/- 500 K
Working distance	420 mm
Spot size	10-110 mm, adjustable
LED life	50,000 hours
Battery	Rechargeable Li-ion
Battery runtime	4 hours
Recharge time	5 hours
Headband weight	0.42 kg
Color	Varies by variant: Black or White

4. Unpacking and setup

1. Unpack and check the items against the package contents list.
2. Fully charge the battery pack before first use using the supplied charger.
3. Connect the battery pack to the headlight.
4. Put on the headband and adjust its size until it is secure and comfortable.
5. Switch on the light and aim it at the work area at your normal working distance.

- 6 Adjust the light angle so the beam is centered in your line of sight.

5. Operation

Using the headlight

- 1 Switch on the light with the power switch.
- 2 Adjust the light angle so the spot falls where you are looking.
- 3 Adjust the spot size control from a narrow spot for small cavities to a wide spot for a larger field.
- 4 Work at about the 420 mm working distance for best brightness.
- 5 Switch off the light when not in use to save battery.

Charging the battery

- 1 Switch off the headlight.
- 2 Connect the battery pack to the supplied charger and plug the charger into a suitable outlet.
- 3 Charge until full. A full charge takes about 5 hours.
- 4 Disconnect the charger when charging is complete.
- 5 Do not leave the battery charging unattended for long periods.

6. Cleaning and disinfection

- Switch off the light and disconnect the battery and charger before cleaning.
- Wipe the headband, LED housing and battery pack with a soft cloth dampened with a clinical disinfectant compatible with plastics.
- Clean the front lens of the LED with lens tissue. Do not use abrasives.
- Do not immerse any part in liquid and do not autoclave.
- Clean and disinfect between patients per facility protocol.

7. Maintenance and storage

- Store in a clean, dry place away from heat and direct sunlight.
- For long-term storage, charge the battery partly and recharge every few months.
- Inspect the headband, cable, battery and charger regularly for damage.
- Replace the battery pack when runtime becomes noticeably short.
- Refer repairs to qualified service personnel. Do not open the LED housing or battery pack.

8. Troubleshooting

Problem	Likely cause	What to do
Light does not turn on	Battery discharged or not connected	Check the battery connection and charge the battery.
Light is dim	Low battery or dirty front lens	Recharge the battery and clean the front lens.
Runtime is much shorter than 4 hours	Battery worn after many charge cycles	Replace the battery pack.
Light flickers	Loose cable or connector	Check and reseal the battery cable connection; contact the supplier if it continues.
Spot not centered on work area	Light angle not adjusted	Adjust the light angle while looking at the work area.
Battery does not charge	Charger not connected or faulty	Check the charger connection and outlet; contact the supplier for a replacement charger.

9. Disposal

- Clean and disinfect before disposal.
- Dispose of the Li-ion battery at a battery recycling point. Do not discard in household waste or incinerate.
- Dispose of the headlight and charger as electronic waste in accordance with local regulations.

10. Warranty and support

Products are covered by SciMed's standard warranty (12 months from purchase unless a different period is stated on your invoice). Warranty terms: scimedstore.com/pages/warranty.

Support, spare parts and additional copies of this manual: sales@scimedstore.com. Please include your order number and a photo of the product or issue.

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