



GIMA

PROFESSIONAL MEDICAL PRODUCTS

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GIMA LED HEADLIGHT 5W - BLACK

USE AND MAINTENANCE BOOK

ATTENTION: The operators must carefully read and completely understand the present manual before using the product.



REF 30940



Teme l'umidità
Keep dry



Conservare al riparo della luce solare diretta
Keep away from sunlight



Fabbricante
Manufacturer

Gima S.p.A.
Via Marconi, 1 - 20060 Gessate (MI) Italy
Made in China

Thank you for purchasing this product. To prevent damage to your product 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 product will read them.

Symbols



Attention: Read User's Guide for cautions and instructions for use



CLASS II



Internal electrical power source



Warnings and Cautions



This product must not be used in the presence of flammable gases.

This product should not be immersed in fluids.

Do not shine the light directly into the patient's eyes.

Ensure that the headband power cord is located in the clips provided. The headlight body should not be left covered with a cloth or similar.

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

1. Purpose and Features of the product

1.1 Purpose

The headlight is used for examination and surgical operation in multifarious microsurgery.

1.2 Features



- Light Source: Our LED without the heat of traditional Halogen headlight. With a color temperature of ~~6000~~ Kelvin, this light supplies bright, white, shadow-free light allowing the doctor to see tissue characteristics without distortion.
- Enjoy the flexibility of operating the headlight using the rechargeable Lithium battery, can use without the direct power source. It is one of the most comfortable lightweight headlights and suitable for all kinds of surgery.
- The headlight could be used when it is charging.
- Has low-battery indicator light.
- Adapts to any Binocular Loupes of GIMA.
- Smart design, convenient for mobile diagnosis.

2. Operating Instructions

Attach the power cord by means of the clip provided. Place the instrument on your head and adjust for width and height to that it fits comfortably.

Connect the Headlight to the power adapter. Switch it on and use the headband right or left brightness control knob to select the required brightness.

Loosen the fixing screw to adjust the light head up and down and backwards or forwards. After adjustment, re-tighten the screw. The illuminated field of view can be selected by means of the slide control.

3. Maintenance

3.1 Battery charging and replacing

During charging the LEDs operate sequentially, in use they remain switched on. If the LEDs remain switched off, the unit is non-operational or the battery is switched off. The number of illuminated or

sequentially-switched LEDs indicates the state of charge of the Li-ion battery. The state of charge is shown whether an instrument is connected or not.

All four LEDs illuminated indicated a fully-charged battery,

If only the yellow LED illuminated, the battery must be recharged. Switch off the battery and recharge it by means of the transformer.



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

3.2 Battery use and care

The capacity of Lithium battery will be changed by it's using condition. For maximum battery capacity, use the battery in room temperature (10 °C ~ 40 °C). Do not expose the battery to extreme temperatures, if the battery is used in high or low temperatures, the battery capacity will be reduced.



The old batteries should never be placed in municipal waste.

3.3 Cleaning and sterilization

- The outer surface of the instrument may be cleaned with wet cloth, the remaining stains can be cleaned off with the mixture of 50% alcohol and 50% distilled water. Do not wipe with any corrosive detergent lest that the surface should be damaged.
- Cleaning the lenses: Mirror-cleaning paper or a drop of liquid solvent (50% alcohol and 50% aether) may be used to clean the lens, blow it carefully. If there is dust stained on the lens, blow them with a blowball or brush them with a dust pen.



Caution: Be careful to prevent the solvent into the instrument.

4. Technical Specification

Optical specifications

420mm illumination light spot
 Illumination in 200mm working distance
 Adjustable range:
 Fluctuation distance
 Angle range
 Weight: Headlight (excluding head band)

20-80mm
 ≥ 75000-lx



12.5mm
 Vertical ±25°
 69g

Electrical specifications

Illumination Source
 Battery
 Battery Run-time
 Battery Charging-time
 Rating Adapter Voltage
 Maximum Adapter Input Power
 Power Adapter Output
 Electrical Safety

Extremely bright light, 5W LED, life 20000 hours continuous burn, do not need to change the LED lamp.
 7.4 V Lithium battery
 Not less than 7 hours continuous runtime on a fully charged battery.
 Not more than 5 hours
 100VAC-240VAC 50Hz/60Hz
 15VA
 12V DC 1250mA
 EN60601-1,EN60601-1-2 / CLASS II / Internal electrical power source



Environment requirements

Operation:

Environment Temperature	+10 °C - +40 °C
Relative Humidity	30% - 75%
Atmospheric Pressure	700 hPa - 1060 hPa

Storage:

Environment Temperature	-40 °C - +55 °C
Relative Humidity	10% - 90%
Atmospheric Pressure	500 hPa - 1060 hPa



Disposal: *The product must not be disposed of along with other domestic waste. The users must dispose of this equipment by bringing it to a specific recycling point for electric and electronic equipment.*

For further information on recycling points contact the local authorities, the local recycling center or the shop where the product was purchased. If the equipment is not disposed of correctly, fines or penalties may be applied in accordance with the national legislation and regulations.

GIMA WARRANTY CONDITIONS

Congratulations for purchasing a GIMA product.

This product meets high qualitative standards both as regards the material and the production. The warranty is valid for 12 months from the date of supply of GIMA.

During the period of validity of the warranty, GIMA will repair and/or replace free of charge all the defected parts due to production reasons. Labor costs and personnel traveling expenses and packaging not included.

All components subject to wear are not included in the warranty.

The repair or replacement performed during the warranty period shall not extend the warranty.

The warranty is void in the following cases: repairs performed by unauthorized personnel or with non-original spare parts, defects caused by negligence or incorrect use.

GIMA cannot be held responsible for malfunctioning on electronic devices or software due to outside agents such as: voltage changes, electro-magnetic fields, radio interferences, etc.

The warranty is void if the above regulations are not observed and if the serial code (if available) has been removed, cancelled or changed.

The defected products must be returned only to the dealer the product was purchased from. Products sent to GIMA will be rejected.