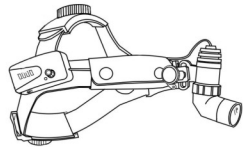


Headband Examination Light USER MANUAL



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I Brief introduction

The head-band headlight (hereinafter referred to as "headlight") is mainly composed of lamp holder, headband, power supply and charger.

This product adopts 3w LED as light source, it adopts integrated design of lamp and power supply, double power supply configurations, easy and fast to replace, the work is guaranteed.

This product adopts low voltage output cold lighting design, safe and stable performance, long life.

Through the optical structure design, the light distribution is uniform, the spot is clear and bright;

Widely used in ENT, Dental, plastic surgery, and also applicable to pet medical field.

II Performance summary

The design and production of this headlight strictly executes the first part of the safety requirements of medical electrical equipment GB9706.1-2007: General Requirements which can guarantee the safety.

III Main technical parameters

1. Input voltage of the charger: AC 90~240V 50Hz~60Hz

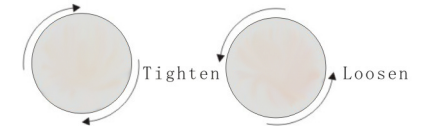
2. Input power: ≤5VA
3. Power of bulb: 3W
4. Color temperature: 5000±500K
5. Working time of main power box :4h
6. Working time of spare power box:2h
7. Charging time: 5h

IV Security tips and symbol instructions 1.

When use the headlight, basic safety precautions should always be followed to avoid the risk of fire or personal injury.

2. Please read the instructions carefully and follow them
3. Maintenance and repair should be operated by professionals
4. When the battery is low, charge it in time.
5. Do not put the lithium battery into fire or near the high temperature, otherwise it will explode.
6. The battery life is about 500 times to charge and discharge. Please put the discarded battery into designated waste box.

7. Symbol: **ON** power on **OFF** power off



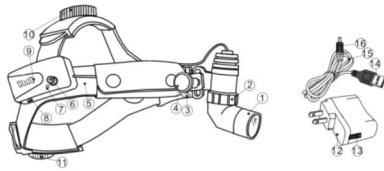
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V Working environment

Environment temperature: -5℃ ~40℃
Relative humidity: 35%~75%
Atmospheric pressure: 700hPa~1060hPa

VI Product interface(Picture 1)



Picture 1

①Lamp holder ②Light spot adjusting ring ③magnifying glass pendant ④lamp holder lock button ⑤Headband
⑥switch/brightness adjusting knob ⑦Power indicator ⑧charging interface ⑨Power box ⑩Top release button ⑪back release knob ⑫charger ⑬USB interface ⑭USB plug ⑮charger cable ⑯charging plug

VII Usage

1. Check before using
 - 1) Open the package and check whether there is any damage
 - 2) Check whether there are missing parts according to the "configuration list". If any

problem is found, please contact the factory or distributor in time for proper solution.
3) Read the instructions carefully and follow the installation steps.

2. Installation and usage

- 1) Loose the button ⑩, then wear the hood ⑤ on your head, tighten the button ⑩ and ⑪, it is ok till you feel comfortable and it doesn't move when raise, lower or shake your head.
- 2) Turn on the switch ⑥, the headlight and power indicator ⑦ are on at the same time.
- 3) Adjust the brightness adjustment ⑥, you can adjust the brightness from 0 to the maximum.
- 4) Adjust the light spot adjusting ring ②, you can change the spot size, to get the right spot size
- 5) Release the lock button ④, you can adjust the angle and height of the lamp, lock it .
- 6) When the brightness of the headlight becomes significantly weakened, change the power supply ⑨.
- 7) Press the front side of the power box ⑨ with the thumb, and push it to the left hand to disengage it from the slide rail and take out the power box ⑨.
- 8) Put the groove of the spare power box aimed at the guide rail and push it to the right position.
- 9) If you charge the whole machine, after completion, the charging plug shall be removed from the power box charging interface, the headlight can be used again.

3. Charging the power box
 - 1) Connect the USB plug ⑭ of the charger line ⑮ with the USB interface ⑬ of the charger ⑫.
 - 2) Connect the charger ⑫ with the internet power supply, the green indicator light on.
 - 3) Connect the charging plug ⑯ of the charging line ⑮ with the charging interface ⑧ of power box ⑨. The green indicator light on the charger turns red, it's charging.

【Notice: the power box of the headlight is full before it leaves the factory, so it is normal that the indicator on the charger is green.】

- 4) After a period of time, the indicator light on charger ⑫ turns from red to green, the battery is full.
- 5) Remove the charging plug ⑯ from the charging interface ⑧, keep the power box as standby.

VIII Attentions

1. When the brightness of the headlight becomes significantly weakened, charge in time,
2. It can't use while charging, turn off the power switch.
3. Do not use liquid or spray cleaners to clean the product.
4. In the case of low power, charge timely, otherwise the battery will be scrapped.

5. When the lamp is stored, it should be recharged every 3 months, otherwise the battery may be scrapped.

6. The battery life is about 500 times of continuous charge and discharge, please put the discarded battery into designated waste box.

7. The battery should be fully charged for the first time (charge for 12 hours). Turn off the main power when it is not in use

8. When charge the whole machine, remove the plug after charging completed, otherwise, the headlight can't work.

IX Failure judgment and eliminate

| Fault phenomena | Reason | Solution |
|--|--|--|
| When turn on the switch, both the indicator and the light don't work | 1. Run out of power | Remove the power box to charge, and install the backup one |
| | 2. Battery damaged | Replace the battery with the same specification |
| | 3. Don't remove the plug ⑯ when charge the whole machine | Remove the plug ⑯ from charging interface ⑧ |
| | 4. Circuit failure | Contact with the after-sales service department for solution |

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|---|--|---|
| When turn on the switch, the indicator works but the lamp doesn't | 1. Power box is not installed properly | Reinstall power box in place |
| | 2. The brightness is closed | Rotate spot adjusting ring ② to increase the spot |
| | 3. The brightness is at the minimum | Rotate the brightness adjusting knob ③ to increase the brightness |
| | 4. Bulb damaged | Replace the same bulb with the same specification |

X Bulb replacement

The lamp bulb is LED light source, the normal life up to 10000 hours, no need to replace normally. In case of any failure, please inform the manufacturer in time for processing.

XI After-sales service

- ◆The product warranty period is 18 months
- ◆During warranty period, Send or give us your warranty and purchase invoices, we will provide free maintenance service when you have quality problems.
- ◆Light bulbs are consumable accessories.
- ◆If you modified the function by yourself and then it does not work, is not covered under

warranty.

◆If the marks on the product such like model, serial number, date of manufacture has been altered, deleted, moved, or unidentifiable, will not provide free warranty service.

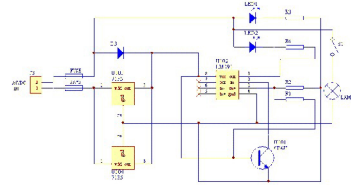
◆If moving falling, squeezing, soaking, moisture and other failures caused by human factors can not enjoy our free warranty service.

◆The service life is 5 years, we provide lifetime maintenance.

XII Transportation and storage condition

Environment temperature: $-40^{\circ}\text{C}\sim 55^{\circ}\text{C}$
 Relative humidity: $30\%\sim 80\%$
 Atmospheric pressure: $500\text{hpa}\sim 1060\text{hpa}$

XIII Electrical schematic diagram and components list



| NO. | Material name | Specification | Quantity | Remark |
|-----|---------------------------------|-----------------------------|----------|--------|
| 1 | Circuit board | | 1 | |
| 2 | Socket | 2*2.54 | 1 | |
| 3 | Electric current detection chip | 7135 | 2 | |
| 4 | Diode | 1N4148 | 1 | |
| 5 | Integrated circuit | LM393 | 1 | |
| 6 | Indicator light | yellow/green | 2 | |
| 7 | Integrated circuit | 6D6U | 1 | |
| 8 | Power switch | --- | 1 | |
| 9 | Resistor | $390\Omega/0.125\text{W}$ | 2 | |
| 10 | Resistor | $300\text{K}/0.125\text{W}$ | 1 | |
| 11 | Resistor | $33\text{K}/0.125\text{W}$ | 1 | |
| 12 | LED bulb | 3W | 1 | |

Any products may be updated or improved. The change of circuit or element specifications of the product will not with prior notice.

XIV Warranty card and Maintenance card

Warranty card

| | | | |
|---|------------------|-----------|--|
| Company name: | | | |
| Address | | Phone No. | |
| Product name | Model | | |
| Serial Number | Manufacture date | | |
| Sale date | | | |
| Fault description: | | | |
| Remark: The warranty of our products is 18 months since the release date. | | | |

(Please fill in the form truthfully, cut it according to the dotted line and send it back to our company, thank you for your cooperation)

Maintenance card

| | | | |
|--------------------|------------------|-----------|--|
| Company name: | | | |
| Address | | Phone No. | |
| Product name | Model | | |
| Serial Number | Manufacture date | | |
| Sale date | | | |
| Fault description: | | | |

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XV Configuration list

| No. | Name | Specification | Quantity | Remark |
|-----|---------------------|-------------------------|----------|--------|
| 1 | Headlight body | 3W | 1 | |
| 2 | Power box (main) | 2200mAh Lithium battery | 1 | |
| 3 | Power box (spare) | 1500mAh Lithium battery | 1 | |
| 4 | Charger | 4.2VUSB | 1 | |
| 5 | Power line | 1.2M 2.1USB line | 1 | |
| 6 | User manual | A4 | 1 | |
| 7 | Shipping document | --- | | |
| 8 | Quality certificate | --- | | |
| 9 | | | | |
| 10 | | | | |

Notice: Please check the goods according to the configuration list within 3 days after receiving the goods

No. 1 edition on May 25, 2019

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