

Operation Lamp

USER MANUAL



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I Brief introduction

The operation lamp is used for surgical auxiliary lighting in the operating room, and its basic nature can keep the illumination level stable. It is composed of lamp holder, power box, spring arm and wall bracket.

This product uses the international brand LED as the light source, touch switch design, brightness high, medium, low three gear touch adjustable. Lamp holder and arm can rotate freely, multi-angle lighting, when not in use, it could be collected close to wall.

The lamp head diameter of this product is 200mm, larger than ordinary examination lamp, smaller than shadowless lamp. Makes up for short lighting depth, low illumination, small lighting spot of examination lamp. It is suitable for lighting during outpatient examinations and surgeries in dental, medical beauty, pet medical, gynecology and other fields, and also for lighting during examinations in family wards.

II Performance summary

1. In the design of the product, low voltage output cold light lighting design is adopted, wide voltage power supply system is used. Low pressure energy saving, stable performance, safe, reliable and long lifetime.
2. Lamp head and arm of this product can rotate freely, with multi-angle lighting, easy to install and operate.
3. The design and production of this operation lamp strictly executes the first part of the safety requirements of medical electrical equipment GB9706.1-2020: general requirements which is guaranteed in safety.

III Main technical parameters

1. Power supply voltage: AC100~240V 50/60Hz
2. Input power: 40VA

3. Fuse: F2AL250V

4. Product specification: LED-70W

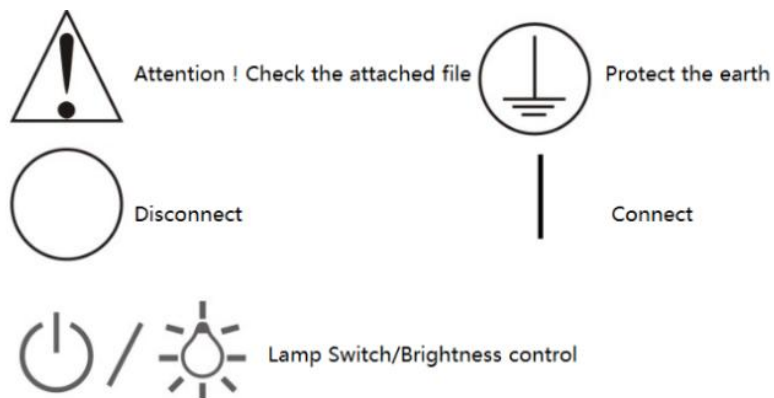
5. Product color temperature: 5300±500K

6. Central illumination: ≥50000Lux

7. Working distance: 700mm

IV Security tips and symbol instructions

1. Before use, read and understand all the contents in the manual and operate strictly in accordance with the requirements.
2. The installation and commissioning of the operation lamp must be carried out by professionals.
3. The installation of the operation lamp should be carried out on the wall that meets the installation requirements.
4. Before cleaning the operation lamp, turn off power switch and unplug power, do not use liquid or spray cleaners.
5. Do not use this product near water. Do not place any items on the power cord of the operation lamp.
6. When replacing the bulb, disconnect the power supply and unplug the power cord.
7. The maintenance of the operation lamp should be carried out by professionals. It is recommended that operators wear static electricity rings when working.
8. The brightness of the operation lamp is relatively high and it must not be directly used for eye lighting!
9. Graphic symbol Illustration



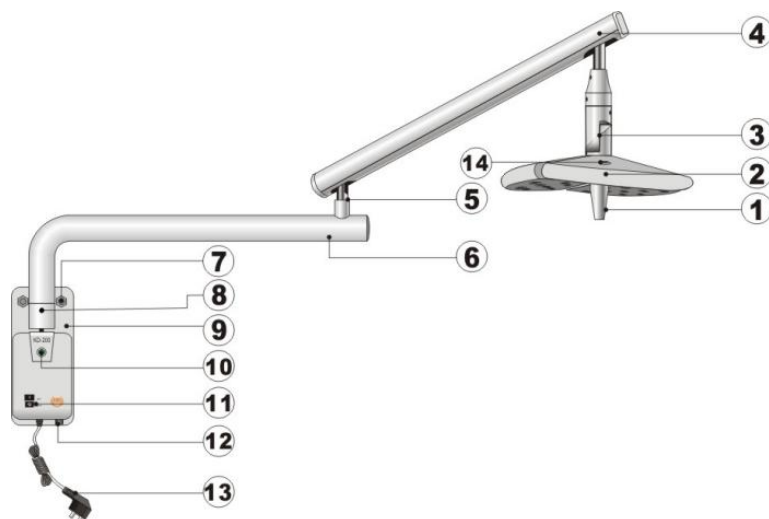
V Working environment

Environment temperature: -5℃ ~40℃

Relative humidity: 35%~75%

Atmospheric pressure: 700hPa~1060hPa

VI Product interface (Picture 1)



Picture 1

①Handle ②Lamp head ③Steering joint ④Spring arm ⑤Spring arm

plug ⑥Balance arm ⑦Expansion screw ⑧Fixing sleeve ⑨Wall mounting plate ⑩Power indicator light ⑪Power switch ⑫Fuse box ⑬Power cord ⑭Lamp switch/Brightness adjustment

VII Usage

1. Check before use

1)Open the package, check whether the product is damaged or missing parts.

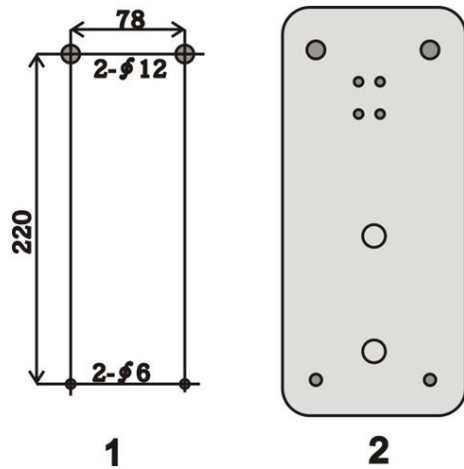
2) According to the Configuration List, check whether the product model, name, quantity and accessories are consistent with the Configuration List; If any exception is found, contact the manufacturer or distributor in time for proper handling.

3)Read the instructions against the product and remember the precautions, familiar with the installation steps.

2. Product installation and use

1)Wall selection: Wall quality is an important factor in the installation and use of safety, general concrete walls, brick walls, steel walls, 24 brick walls can meet safety requirements [Note: gypsum board, plastic partition, thin wooden walls can not meet safety requirements, confirm before installation.]

2) Installation location selection, drilling: At the selected position of the wall, draw four holes on the selected position of the wall according to Picture 2-1 or wall hanging board⑨. [Note: the center of the two holes should be at the same level!] See Picture 2-2 for details. After the drawing is finished, the upper end uses $\phi 12$ mm drill bit to drill two pre-buried holes with a depth of 110mm; At the lower end, use the $\phi 6$ mm drill bit to drill two 30mm deep embedded holes and install the expansion tube.



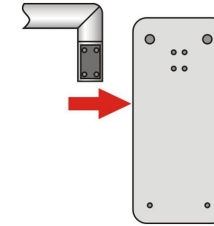
Picture 2

3) Spring arm installation: Insert the spring arm plug ⑤ into the jack of the balance arm ⑥ (see Picture 3-1) [Note: do not clip the wire when inserting], if clip the wire, pull out the plug to straighten the wire and re-insert it, or use needle-nose pliers to reach the waist hole of the spring arm plug ⑤ and gently straighten the cable upwards (see Picture 3-2).



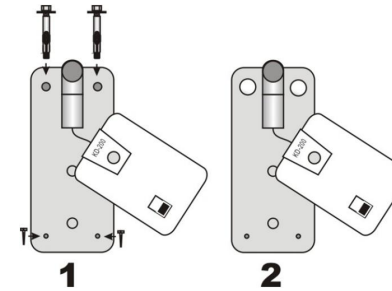
Picture 3

4) Installation of Spring arm and hanging plate: remove the 4 screws on the fixing sleeve ⑧ connect with the wall hanging plate ⑨ and install 4 screws to tighten, see Picture 4.



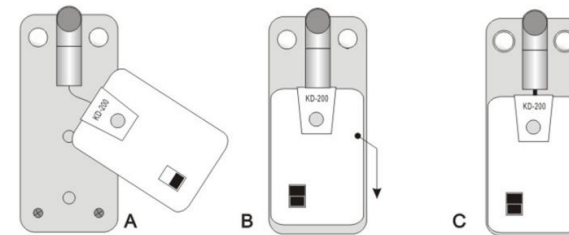
Picture 4

5) Installation of wall mounting plate: Install the wall mounting plate ⑨ on the drilled wall (see Picture 5-1), tighten the top with two expansion screws and the bottom with two self-tapping screws, and cover the decorative cap (see Picture 5-2).



Picture 5

6) Installation of the power box: Press the two round holes at the back of the power box to align with the two pins on the wall and pull the power box down so that the lower end is flush with the mounting plate, as shown in Picture 6-A, B, and C.



Picture 6

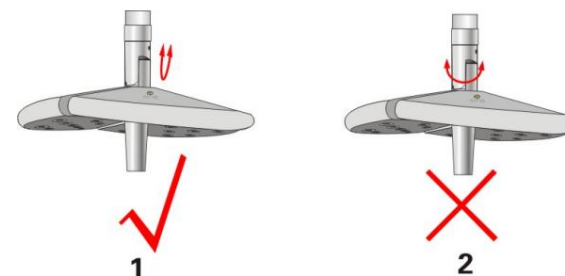
7) Installation of the lamp holder and handle: Remove the fixing screws on the connecting shaft of the lamp head, and connect the power docking plug-in of the lamp head② and the spring arm④, as shown in Picture 7-1. Connect the connecting shaft of the lamp head② to the jack of the spring arm④, align the screw holes, and use a Phillips screwdriver install the fastening screws of the lamp holder, as shown in Picture 7-2. Align the center handle① with the base thread and tighten it in the direction indicated by the arrow, as shown in Picture 7-3. The installation of the operating lamp is complete.



Picture 7

3. Usage

- 1) Connect power plug⑬ with network power supply, turn on power switch ⑪, the indicator⑩ and the lamp light up.
- 2) Hold the center handle① and pull it down or push it up to adjust the lighting height of the operation lamp. You can also rotate the lamp head left and right by about 120° and turn it axially by 90° for lighting. Hold the central handle① and pull it down or push it up to adjust the lighting height of the operation lamp. You can also rotate the lamp head left and right by approximately 120°, using the spring arm plug⑤ or the fixing sleeve⑧ as the axis to rotate left and right. It is also possible to perform 90° steering lighting with the vertical gap of the steering joint③ as the axis, as shown in Picture 8-1. Do not operate in the direction indicated by the arrow in Picture 8-2, otherwise the steering joint will be damaged and the surgical lighting will be unusable.



Picture 8

- 3) This product has three levels of brightness, high, medium and low. The brightness is the highest when it is turned on, and the brightness will be reduced by one step until the light is turned off after each touch the Lamp switch/Brightness adjustment⑭.
- 4) Turn off the power switch after the surgical examination; When the center handle needs to be disinfected, it can be turned counterclockwise and removed for disinfection.
- 5) When not in use, take the joint between the spring arm plug⑤ and the spring arm④ as the rotating fulcrum, and gather the lamp against the wall.

VIII Attentions

1. When installing the operation lamp, please assemble and reinforce it according to the technical requirements in the manual.
2. The spare fuse should be placed in the working area of the operation lamp, and its specifications should be consistent with the technical parameters. The old bulb replaced by the operation lamp should be put into the waste bucket, and do not throw it carelessly.
3. The surface of the lens of the operation lamp is often wiped with medical gauze to remove dust to maintain illumination.
4. It is strictly forbidden to hang other items except this equipment on the lamp body of the operation lamp, and it is not allowed to modify this product; Do not pull and turn the lamp head and arm heavily when using!

5. Use 75% alcohol cotton to disinfect and remove dust from surface of the lamp every two months. [Note: Before cleaning, turn off the switch and unplug the power cord. After cleaning, open the Windows and doors for ventilation for 30 minutes.]

6. Every quarter, the structural parts, nuts, level, damping, switch, key, brightness, ringing of the surgical lamp should be comprehensively checked, and timely maintenance and adjustment should be found if any abnormality is found.

7. Bulbs are consumables and have a basic lifespan. The normal lifespan of an LED bulb is approximately 10,000 hours. Pay attention to the usage time of the bulbs and make preparations in advance.

8. The service life of the operation lamp is five years. After the expiration, if the product is scrapped, its metal, electronic components, plastic, glass and other materials should be uniformly and strictly treated in accordance with local environmental protection regulations to prevent their spread or reuse and minimize the risk of environmental pollution.

IX Failure judgment and eliminating methods

[This requires professional operation]

Failure phenomenon	Reason	Solution
The indicator light is not on.	1.The power switch is not on	Turn on the power switch ^⑪ .
	2. AC Power supply circuit is no electricity	Switch to a live supply line.
	3. Power cord is not properly connected	Reconnect power line.
	4. Fuse is blown	Replace fuse with the same specification.
Turn power switch, indicator light is on, lamp is not on.	1. The touch switch didn't turn on.	Touch the Lamp switch/Brightness adjustment ^⑭ to turn on the light.
	2. The power butt plug is not connected properly.	Remove lamp head and reconnect.
	3. Other faults.	Contact our service department.

X Bulb replacement

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

XI After-sales service

- ◆The product warranty period is 18 months
- ◆Under the circumstances of normal use during the warranty period, any failure caused by the quality problems of the product itself can be repaired free of charge with the warranty and purchase invoice.

- ◆ The bulbs are consumable accessories.
- ◆ After modifying or installing other functions without the company's permission, the product failure, not within the scope of warranty.
- ◆ If the marks on the product such as model, serial number, date of manufacture has been altered, deleted, moved, or unidentifiable, will not provide free warranty service.
- ◆ Failure caused by human factors such as falling, squeezing, soaking and damp is not covered by the warranty.
- ◆ The production date is shown on label, service life is 5 years, we provide lifetime maintenance.

XII Transportation and storage condition

Environment temperature: -40℃～55℃

Relative humidity: 30%~80%

Atmospheric pressure: 500hpa~1060hpa

XIII 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 release date. Please keep the certificate and instruction properly, and send it back with the product when repairing.			

(Please truthfully fill in this form, 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:			
Remark: You can enjoy 30% discount for the maintenance services even if you use this card over the quality assurance period.			

XIV Configuration list

No.	Name	Specification	Quantity	Remark
1	Lamp head	LED-70W	1	
2	Lamp arm	—	1	
3	Wall mounting plate	250x105x4.5mm	1	
4	Fuse	F2AL250V-φ5x20mm	1	
5	Expansion screws	M10x100mm forced type	2	
6	Expansion screw decorative cover	—	2	
7	Installation tools	4#socket head wrench	1	
8	User manual	A5	1	
9	Certification	—	1	

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

2025-07-17 version 2