KD-202A-2 KD-202A-6 Head Lamp

USER MANUAL



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I .Brief introduction

Model: KD-202A-2 KD-202A-6

Scope of application: Above products are elaborately designed for the auxiliary lighting of local examination and operation which are occasions of frequent mobility. They are used in dental department, operating rooms, doctor consultation and wild healing.

Characteristic: Adopt high power LED for lighting, long life of about 50000 hours. KD-202A-2 uses super power battery which has a long working time. KD-202A-6 uses high power 5W LED bulbs for lighting which can provide high and deep illumination.

Product component: lamp holder, hood, power box, guide line, charger etc.

II. Performance Summarize:

This product uses wide voltage power supply system, high power LED lighting. Lamp holder is composed of optical lens and grating. Uniform distribution of light, clear and flare adjustable. The joint design of lamp holder and hood can realize the effective regulation of up and down angle. It uses lithium batteries. This product is equipped with a magnifying glass joint, can be used together with a magnifying glass.

The design and production of this light source strictly executes the first part of the safety requirements of medical electrical equipment GB4793.1-2007: general requirements which is guaranteed in safety.

III Main technical parameters:

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Model	C.T.	Power	Input	Power supply	Charge
			power	time	Time
KD-202A-2	6000k±500k	3W	≤10W	7h	6h
KD-202A-6	6000k±500k	5W	≤10W	4h	6h
	4500±500k				

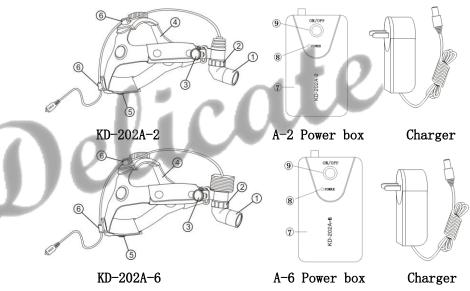
IV Requirements of working environment

A. Environmental temperature: -10 $^{\circ}$ C $^{\sim}$ +40 $^{\circ}$ C

B. Relative humidity : ≤75%

C. The atmosphere: 86.0 kPa~106.0kPa

V Product interface



1.Lamp holder 4.Head band

2. Flare-adjusting ring

5. Tightness-adjusting knob8. Working indicator light (green)

Lock switch
Card slot

9. Power switch

VI Product list

7.Power box

KD-202A-2 Head light: one

Power box of A-2: one

Charger: one

KD-202A-6 Head light: one

Power box of A-6: one

Charger: one

Ⅲ Assembly, debugging, operation

Assembly:

Open the packing box, check whether there are missing parts or damage phenomenon of the products according to the product list. If there is any problem, pls contact with the dealer or manufacturer in time to get solved properly.

Insert the power plug into the output port of the power supply box, turn on the power switch (8), the lamp lights up.

Debugging and operation

- 1. Wear the head lamp on head, adjust the tightness-adjusting knob(5) on the top and the back. It is advisable if the lamp is stable and you feel comfortable when looking up, down and sway your head.
- 2. Flare-adjusting ring (2) can help you to get the right spot size.
- 3. Loosen the Lock switch (3) to adjust the angle and the height of lamp holder. Lock it after it is appropriate.
- 4. Clip the back splint on the power box into the belt clip, or you can put the power box to your pocket.

VIII Note

- 1. When use the battery power supply, you need to charge in time if brightness of the light significantly weakened.
 - 2. The lamp can't work in charge, please turn off the power switch
 - 3. You can't use liquid spray cleaners to clean the product.
- 4. You need to recharge in time when the battery power is not full, or the battery will be scrapped.
- 5. Battery life is of about 500 times to charge and discharge, please put the abandoned battery into a designated chemical waste.

IX Failure Judgment and Eliminating Methods

Fault	Fault cause	Solution	
phenomena			
Turn on the	A.Run out of power	Charging in time	
power switch,	B.Battery damage	Replace the same	
the indicator is		specification battery(4000mA)	
not bright	C.Not remove the	Remove the charge plug	
	charge plug		
OV	D.Power board fault	Contact with the after-sale	
IKA		service department for	
		solution	
Turn on the	A.Ligature of lamp	Connect the ligature well	
power switch,	holder hasn't been		
the indicator is	connected well		
bright but the	B.Not open the	Transfer the flare-adjusting	
lamp is not	flare-adjusting ring	ring clockwise to the	
bright		maximum	
	C.Bulb is damaged	Replace the bulb	
Other fault		Contact with the after-sale	
		service department for	
		solution	

X After-sales service warranty

Warranty of 18 months, provide maintenance service all user's life.

- ♦In the warranty period, in normally using, the trouble because of the product quality, the consumer depends on the warranty slip and invoice enjoys free maintenance service.
- ♦ If the error caused by remodel or install other functions which is without our company's permission, is not within the scope of warranty
- ◆If the model, number, release date is modified, deleted, moved or illegibility, will not enjoy the maintenance service.
- ◆The error caused by human factor such as falling, squeezing,dip in, wetting, etc. is not within the scope of warranty.
- ◆Once receiving the goods, please sign and accept it after opening the package to inspect and confirm whether the instrument is crushed, scratched or not. Make sure there is no special unnumbered inside. If the goods are damaged and you did not inspect before sign it, It will be at your own risk.

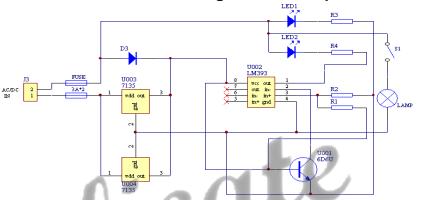
XITransportation and storage conditions

A. Environmental temperature: -40°C~55°C

B. Relative humidity : ≤70%

C. The atmosphere: 50Kpa~106Kpa

XII Electrical schematic diagram and components list



N0.	Material name	Specification	Quantity	Remark
1	Circuit board)	1	
2	Socket	2*2.54	1	
3	Electric current	7135	2	
3	detection chip			
4	diode	IN4148	1	
5	Integrated circuit	LM393	1	
6	Indicator light	yellow/green	2	
7	Integrated circuit	6D6U	1	
8	Power switch		1	
9	Resisitor	390 Ω	2	
		/0.125W		
10	Resisitor	300K/0.125W	1	
11	Resisitor	33K/0.125W	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.

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Warranty card

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

Remark: The warranty of our products is 18 months since the release date.

(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)

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Maintenance card

Company n	name:				
Address		77 1	Phone No.		
Product		Model			
name					
Serial	6	Manufacture			
Number		date			
Sale date					
Fault description:					
Remark: You can enjoy seventy percent discount for the maintenance					
					services even if you use this card over the quality assurance period.

