Content

I Brief introduction1
II Performance Summarize1
III Main technical parameters1
IV Requirements of working environment1
V Product list
VI Product interface
VII Assembly, debugging, operation
VIII Note
IX Failure Judgment and Eliminating Methods3
X After-sales service warranty4
XITransportation and storage conditions4
XII Electrical schematic diagram and components
list

KD-202A-3 Head Lamp

USER MANUAL

Joylay In IX F

I.Brief introduction

Model: KD-202A-3

Scope of application: The product is elaborately designed for the auxiliary lighting of local examination and operation which are occasions of frequent mobility. It is 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-202 A-3 has the fuction of AC and DC amphibious. It can work at the same time with charging.

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

II. Performance Summary:

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. AC and DC can all supply power. 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:

Color temperature: 6000k±500k Lamp Power: 3W Input power: ≤5W Charge Time: 5H Power supply time: 4H Input voltage: 100V-245V 50HZ-60HZ

IV Requirements of working environment

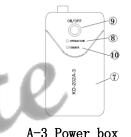
- A. Environmental temperature: -10°C~+40°C
- B. Relative humidity : \leq 75%

- C. The atmosphere: 86.0 kPa~106.0kPa
- Product list V

Head light: one Power box of A-3: one Power line: one

VI Product interface





1.Lamp holder	2. Flare-adjusting ring	3. Lock switch	
4.Head band	5. Tightness-adjusting knob	6.Card slot	
7.Power box	8. Working indicator light (green)	9. Power switch	
10. Charging indicator light (red)			
M Assembly debugging operation			

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. KD-202A-3 can work at the same time with charging.

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,		
the indicator	B.Battery damage	Replace the same
is not bright		specification battery(2200mA)
	C.Power board fault	Contact with the after-sale
0		service department for
		solution
Turn on the	A.Ligature of lamp	Connect the ligature well
power switch,	holder hasn't been	
the indicator	connected well	

is bright but	B.Not open the	Transfer the flare-adjusting		
the lamp is	flare-adjusting ring	ring clockwise to the		
not bright		maximum		
	CBulb is damaged	Replace the bulb		
Other fault		Contact with the after-sale		
	service department f			
		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

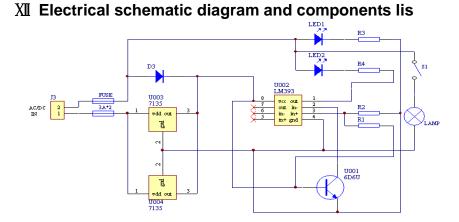
◆ If the model, number, release date is modified, deleted, moved or illegibility, will not enjoy the maintenance service.

◆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.

XI Transportation and rage conditions

- A. Environmental temperature: -40°C~55°C
- B. Relative humidity : \leq 70%
- C. The atmosphere: 50Kpa \sim 106Kpa



N0. Material name Specification Quantity Remark 1 Circuit board 1 2*2.54 2 Socket 1 3 F2A-L250 2 Fuse 7135 Electric current 2 4 detection chip IN4148 5 diode Integrated circuit LM393 6 1 yellow/green Indicator light 2 7 Integrated circuit 6D6U 8 1 1 9 Power switch 1 10 390**Ω** /0. 125W 2 Resisitor 11 300K/0.125W Resisitor 1 12 33K/0.125W 1 Resisitor

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

2012 edition

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)

Maintenance card

Company name:				
Address			Phone No.	
Product	1	Model		
name				
Serial	ſ	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.				