

KD-202D-2 Examination lamp

USER MANUAL

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I . Brief introduction

Model: KD-202D-2(AC) KD-202D-2(AC/DC)

Scope of application: The examination lamp can also be classified as operation light, mostly used in outpatient visits and the auxiliary lighting in the operating room. It is suitable for the frequently moved occasion.

Characteristic: The lamp uses the long-life and low-energy LED light source which has the characteristics of elegant appearance, simple operation, easy installation, safety with low voltage, hard to be damaged.

Product component: lamp holder, power box, lamp stent, lamp base etc.

II. Performance Summarize

It is designed with the system of low voltage output cold lighting, wide voltage power supply which can adapt to the voltage of the countries all over the world.

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 are is guaranteed in safety.

III Main technical parameters

Input voltage: 90V~240V 50Hz-60Hz

Color temperature: 6000K±500K 4500K±500K

Center Luminance: 40000lx~80000lx

Spot diameter: 110~200mm

Lighting depth: 200mm

Bulb power: 36*3W

Input power: ≤120W

DC power supply time: 10h

DC charging time: 8h

Fuse protector: F3A-250V

IV Security tips and symbol instructions

When the check lamp is in use, you should always abide by the basic safety precautions in order to avoid fire, electric shock or the risk of injury,.

(1) Please read the instructions carefully, and operating according to the specifications and requirements.

(2) Before cleaning the light, please unplugged the power cord and close the total power supply.

(3)The maintenance, installation, commission of the light should be operated by professional personnel.

(4) . The introduction of the following symbols



Attention! Check the random documents



Protect the grounding



Disconnect the power



Connect the power

V Working Environment

A. Environmental temperature: -10°C~+40°C

B. Relative humidity : ≤75%

C. The atmosphere: 86.0~106.0kPa

VI Product list

1. Lamp holder: one

2. Lamp pole: two

3. Case: one

4. Chassis: one

5. Power line: one

6. Trundle: fou

7. Disinfecting knob: one

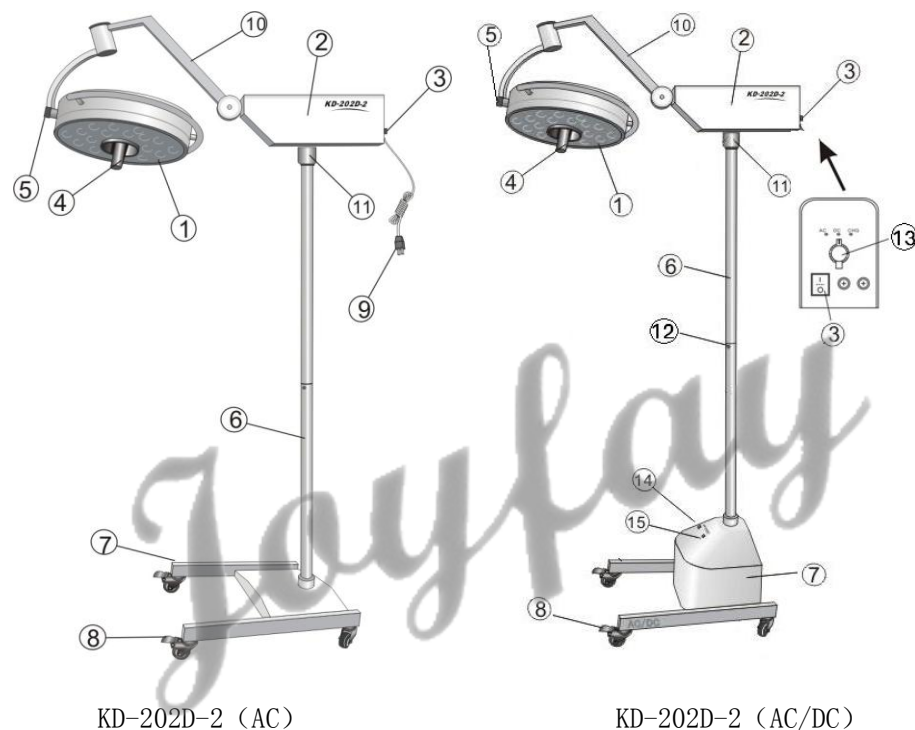
8. Sheath: two

9. M8 wrench: one

10. M6 wrench: one

VII. Product interface

- | | | | |
|------------------------------|------------------------|------------------------|----------------------|
| 1. Lamp holder | 2. Case | 3. Power switch | 4. Disinfecting knob |
| 5. Brightness adjusting knob | 6. Lamp pole | | |
| 7. Chassis | 8. Trundle | 9. Power line | |
| 10. Lifting arm | 11. Sheath | 12. Fixed screws | |
| 13. Range switch | 14. AC indicator light | 15. DC indicator light | |



KD-202D-2 (AC)

KD-202D-2 (AC/DC)

VIII Installation instructions

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, please contact with the dealer or manufacturer in time to get solved properly.

1. Installation method

1) KD-202D-2(AC)

a. Insert the bolts of the trundle into the base plate, put the ones with lock in the front and the ones without lock in the back. Lock them tightly with wrench;

b. First unscrew the locking screw in the lamp pole (4), insert it into the chassis (5) hole according to the track of the positioning slot, lock the screws firmly in the bottom with the wrench;

c. Contrapuntal insert the top and the bottom of the light pole, lock the fixed screws, put on the aprons and sheath;

d. Insert the connect column in the bottom of the power box into the top hole of the lamp pole (6), lock the screws with M10 wrench, push the sheath (11) to the top of the lamp pole with aprons;

2) KD-202D-2(AC/DC)

a. Insert the bolts of the trundle into the base plate, put the ones with lock in the front and the ones without lock in the back. Lock them tightly with wrench;

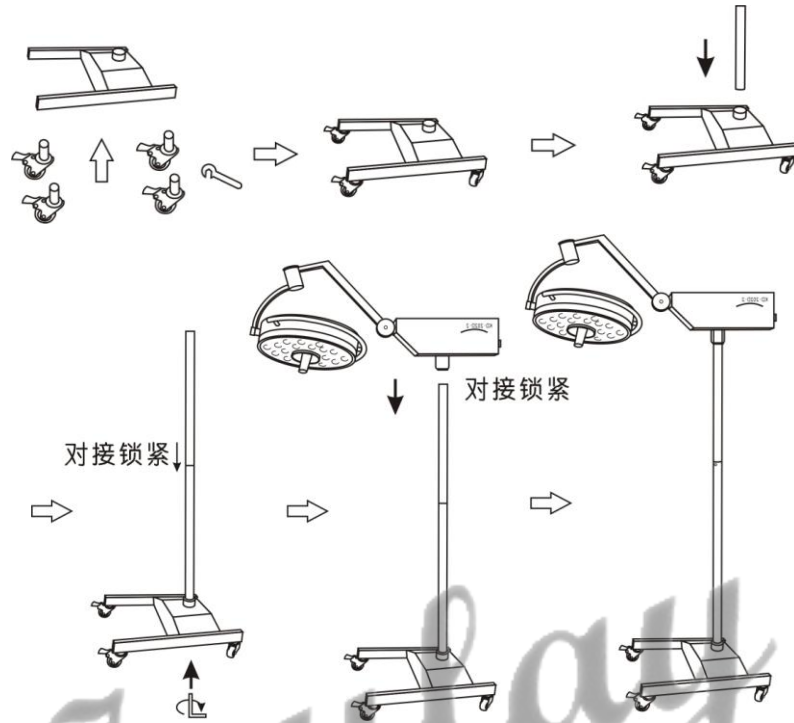
b. Butt joint the guide line plugin of the lamp pole (6) and the chassis (7) firmly, insert the lamp pole into the chassis (7) hole according to the track of the positioning slot. Pay attention that you should push the guide line along with the slot. Then unscrew the locking screw in the lamp pole (4), insert it into the chassis (5) hole according to the track of the positioning slot, lock the screws firmly in the bottom with the wrench;

c. Contrapuntal insert the top and the bottom of the light pole, lock the fixed screws, put on the aprons and sheath;

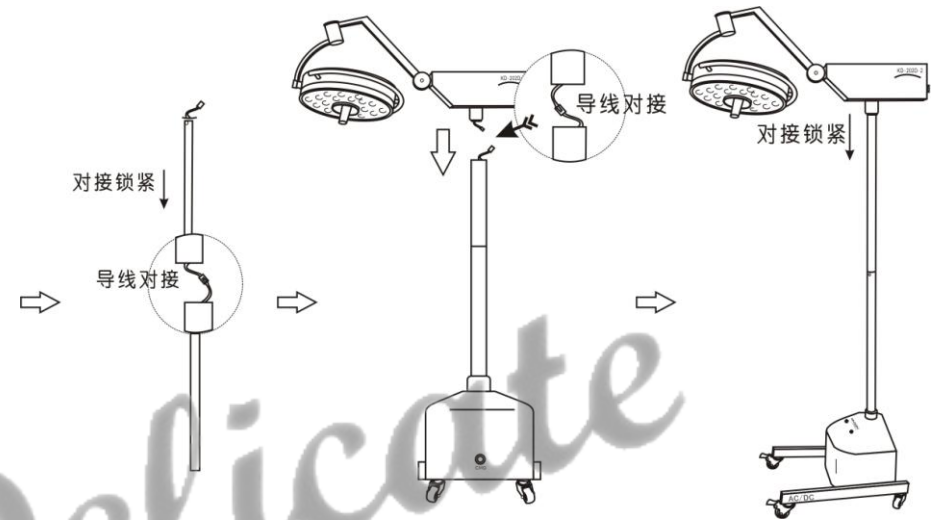
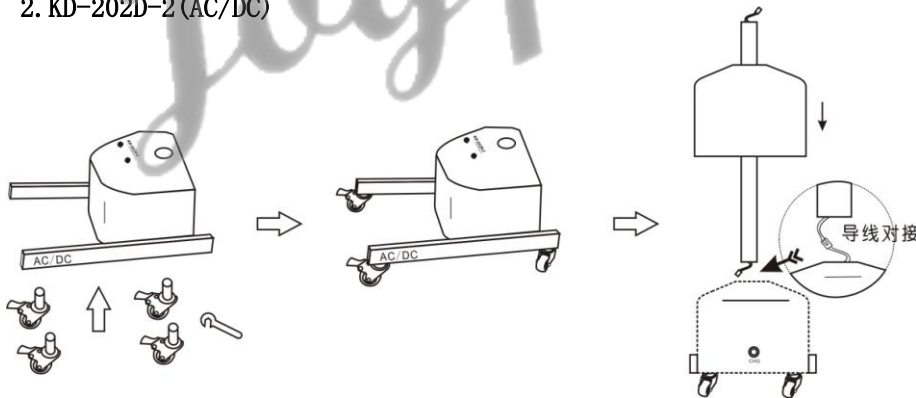
d. Insert the connect column in the bottom of the power box into the top hole of the lamp pole (6), lock the screws with M10 wrench, push the sheath (11) to the top of the lamp pole with aprons;

Installation Instruction:

1. KD-202D-2(AC)



2. KD-202D-2(AC/DC)



IX operating instructions

1) KD-202D-2(AC)

Connect the power line with the external power supply, switch on the power supply

- Open the power switch (3), regulate the brightness adjusting knob to get proper lighting intensity.
- Rotating the disinfecting knob, you can adjust the spot size.
- Regulating the knob in the external of the lamp holder, you can adjust the lighting angle.

2) KD-202D-2(AC/DC)

Connect the power line with the external power supply, switch on the power supply

- AC condition: When the AC indicator light lights up, operate it the same as the instructions of KD-202 D-2 (AC).
- DC condition: Rotating the range switch (13) and the DC indicator light lights up, operate it the same as the instructions of KD-202 D-2 (AC).

X Note

1. When installation, please assembly and reinforce according to the instruction of the technical requirements.
2. Illuminating position in the operation process is controlled by the handle of the disinfecting knob.
3. You should disinfect the disinfecting knob in time after operation.
4. Before cleaning the light, please unplugged the power cord and close the total power supply.
5. Do not use liquid spray to clean the light.
6. The maintenance, installation, commission of the light should be operated by professional personnel.
7. Never put any item on the power line.

XI Failure Judgment and Eliminating Methods

(It should be operated by the professionals)

Fault phenomena	Fault cause	Solution
Turn on the power switch, the indicator light is not bright	Power lines have no electricity	Connect to the circuit where there is electricity supply
	The power cord is not connected well	Reconnect the power cord
	Fuse damage	Change the fuse
Turn on the power switch, the indicator light is bright but the lamp is not bright	Brightness adjusting button is not open	Re-install the bulb firmly
	System line fault	Contact with the after-sale service department for solution
KD-202D-2(AC/DC) DC indicator light is not bright	Range switch (13) is not clicked to the proper position	Click the range switch to the DC position
	The accumulator has	Recharge it in time

	no electricity	
Other fault		Contact with the after-sale service department for solution
A bulb damage will influence the other 3 bulbs, please contact with the manufacturer, you will get the new bulb and bulb replacement manual. The replacement should be operated by professional or you can send it back to the manufacturer.		

XII After-sales service warranty

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

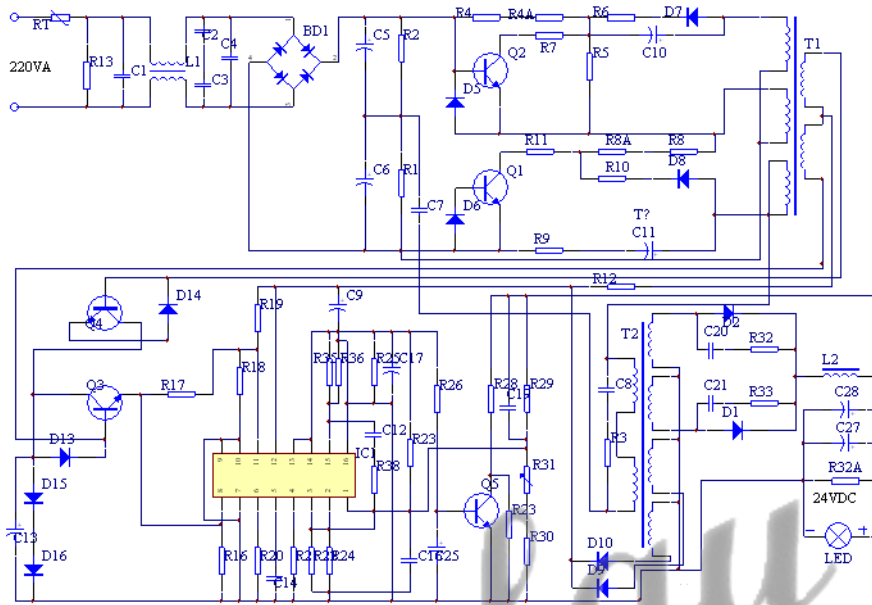
- ◆ In the warranty period, in normally using, the trouble because of the product quality, the consumer depends on the warranty slip and invoice enjoys free maintenance service.
- ◆ The bulb of the lamp is LED and the normal life of LED bulb is about 50000 hours. Generally, you do not need to change them.
- ◆ 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.

XIII Transportation and storage conditions

- A. Environmental temperature: -40°C ~ 55°C
- B. Relative humidity: ≤70%

C. The atmosphere: 50Kpa~106Kpa

XIV Electrical schematic diagram and components list



NO.	Material name	Specification	Quantity	Remark
1	Circuit board	7D1A	1	
2	Field-effect tube	SL20C20U	1	
3	Filter choke	220mH	1	
4	Inductance	470mH	1	
5	Capacitance	F103M/2KV	3	
6	Capacitance	22nj/T100V	1	
7	Capacitance	102M/2KV	1	
8	Electrolytic capacitor	50V/1uf	1	

9	Capacitance	222J/250V	1	
10	Capacitance	102J/100P	1	
11	Electrolytic capacitor	50V/4.7uf	3	
12	Electrolytic capacitor	50V/22uf	1	
13	Electrolytic capacitor	50V/47uf	1	
14	Electrolytic capacitor	50V/1000uf	2	
15	Electrolytic capacitor	250V/470uf	2	
16	CBB capacitor	400V/105J	1	
17	Filter capacitor	0.1uf	2	
18	Resistance	150K/0.25VA	1	
19	Resistance	15Ω /0.25VA	2	
20	Resistance	120K Ω /0.25VA	1	
21	Resistance	12KΩ /0.25VA	1	
22	Resistance	10KΩ /0.25VA	1	
23	Resistance	1KΩ /0.25VA	1	
24	Resistance	22KΩ /0.25VA	1	
25	Resistance	15KΩ /0.25VA	1	
26	Resistance	5.6KΩ /0.25VA	2	
27	Resistance	560Ω /0.25VA	1	
28	Resistance	1.2KΩ /0.25VA	1	
29	Resistance	3.9KΩ /0.25VA	1	
30	Resistance	680K Ω /0.25VA	1	
31	Resistance	1.5KΩ /0.25VA	1	
32	Resistance	100K Ω /0.25VA	1	

33	Resistance	4.7K Ω /0.25VA	1	
34	Resistance	220 Ω /0.25VA	1	
35	Resistance	150K Ω /0.25VA	5	
36	Resistance	2 Ω /0.25VA	2	
37	Resistance	22K/0.25VA	2	
38	Resistance	24 Ω /0.25VA	2	
39	Resistance	3.9K/0.25VA	2	
40	Resistance	100 Ω /3VA	1	
41	Resistance	680 Ω /3VA	1	
42	Diode	F107	6	
43	Diode	IN4752	2	
44	Diode	IN4148	2	
45	Audion	1815	3	
46	Thermistor	5D-15	1	
47	Piezoresistor	10D471K	1	
48	Integrated circuit	LM494	1	
49	Rectifier bridge	KBU810	1	
50	Lamp	LED	54	
51	Power socket		1	
52	Power line		1	
53	Fuse block		2	
54	Power switch		1	
55	Accumulator	18AH, 12V	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 name		Model	
Serial Number		Manufacture 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 name		Model	
Serial Number		Manufacture 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.			