Examination Lamp

HF-FSLED

Product use, installation, maintenance instruction

（Technical specification）

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1 Overview

HF-FSLED Examination Lamp becomes clear and even gets high quality of the spot light flat surface by optical co-issued of the light. It is widely used in industrial, medical, jewelry, photos.
Scientific research and so on, it is the present domestic advanced lighting equipment, in home and abroad.

Electrical requirements: kindIof no application part of ordinary equipment.Not in inflammable, explosive, anesthetic gas environment use.

Operation mode: continuously.

2 Technical parameters:

Electrical Characteristics	
Contents	HF-FSLED
Input power	12V 700Ma
Bulb power	12V 8W
The main fuse	F1AL-250V
Power supply voltage	110V/220V
Power supply frequency	60Hz/50Hz
Performance characteristics	
Contents	HF-FSLED
Illumination	50,000Lx at 0.5m 26,000Lx at 1m
Color temperature approx (Lamp emits natural white light)	6,000K±500K
Adjust	Height
Bulb's lifetime	50,000 hours

3 Structure characteristics and working principle

1. Compact design, can be bent freely for lighting.
2. Wide voltage power supplies
3. High brightness and long service life
4. 12 V, low voltage for Examination Lamp use
5. Examination Lamp is composited by lamp holder,goosetube,thepillar,base and other components.
6. Electric principle of Examination Lamp(see figure 1)
7. Working principle: the light of the lamp bulb irradiates to the reflective sheet, and then is projected to be the optimum.Light goes through the heat insulation glass and gathers as cold flare.

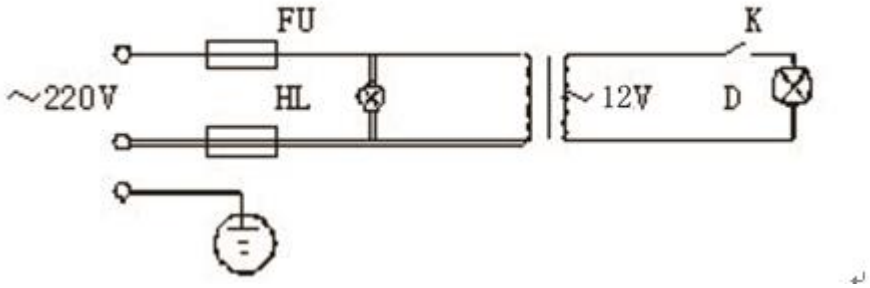

Figure 1 electric principle diagram of Examination Lamp

4 Normal operating conditions

a) Environmental temperature: -20℃-40℃；
b) Relative humidity range: ≤70％；
c) Atmospheric pressure range: 860hPa～1,060hPa;
d) Power supply: 110V/220V;
e) Frequency: 60Hz/50Hz;

5 Installation, use

1 Preparation work

Before installation and debugging the Examination Lamp, first check the appearance of the Examination Lamp being good or not , the variety and number of accessories whether accord with the instruction accessories list of. If there are defects, please feedback to suppliers or contact the manufacturer.

2 Installation: insert the key tube into base, spin and lock the screws tight. (see chart 2)

3 Plug in the power.

4 Open the lamp holder switch, Check the light, if the light is on, start work.

5 After use, the switch should be timely turn off , and again the power plug should be plucked out from power socket, cut off nets power to prevent long-term transformer from working conditions.

6 Please note the electromagnetic interference between the equipments.

7 Equipment symbols explain:

Symbols	Meanings
~	Alternating current (AC)
⚠	Attention! Search instructions

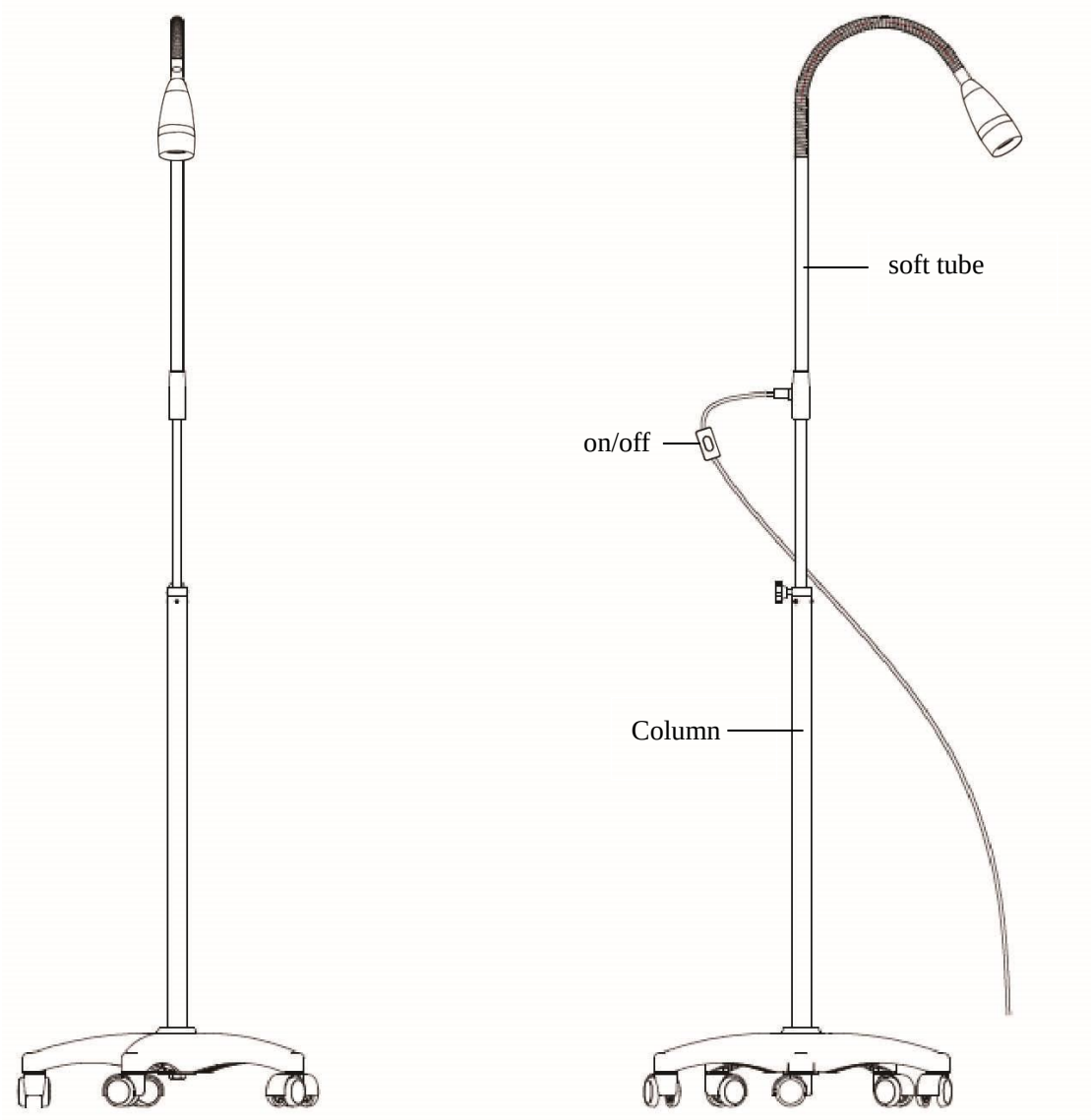

Figure 2 structure diagram of the Examination Lamp

6 maintenance and troubleshooting

(1) Maintenance

1,light bulb replacement

Rotating the lamp holder, take off the lamp holder's former cover, then make sure the bulb cool down, and then replace the damaged light bulb. Please wear gloves.

Attention: do not use hand to tough the light bulb directly, lest the fingerprint stay in new light bulb and influence the light source.

Attention: (1)The power must be cut off and make sure the light bulb cool down, when you intend to replace the light bulb.

Equipment clean

After period of use, the shell, lamp panel will be raised with dust, blood, body fluids, etc, and the equipment cleaning must be carried out.

2, shell clean

Using fluid wax and soft cloth not only can clean shell, but also can protect the paint layer.Using alcohol to swab the serious dirt repeatedly.

Caution: but not with acid, alkali solution or abrasive to clean.

3, when not in use, the equipment should be placed in a clean, dry place, re-installation and commissioning should be carried out when the equipment run again.

(2) Troubleshooting

1, Failures can be excluded by user of himself.

Serial number	Fault phenomenon	Cause analysis	Removal Methods Remarks
1	Light does not shine	The bulb is broken	Replacement Bulbs

Warning: the power network should be shut off before removing the faults.

2, Inform the service provider or the Company

If the Examination Lamp still not shine after the above troubleshooting, please inform the local maintenance department by the company authorized or the maintenance department of the company in time, we will help you to remove the faults in the shortest time.

HF-FSLED Examination Lamp packing list
1, Lamp holder and goose each one 2, One principal post 3, One small principal post 4, One base 5, One copy of instruction description 6, Product certification

Please check each of these pieces when unpacking, if any missing parts are discovered, please contact our factory, Notice that the numbers of the light and the production date should be indicated.

7 Compliance instructions

7.1 device type

I	Prevent shock type
No application part	Prevent shock degree
Continuous operation	Operation mode
Ordinary equipment that cannot prevent liquid in.	Protection degree
Do not use it in inflammable and explosive environment	Operation Place

7.2 product standards

Execution standard enterprise registered products

7.3 mandatory standards

Products are fully implemented to GB9706.1 "medical electrical equipment first part:

the general requirements for safety" (equivalent IEC601-1 "medical electrical equipment first part: the general requirements for safety" and YY 0627-2008 the floodlight lighting and diagnosis of the security operation special requirements"
7.4 disinfected work shall abide by the relevant state health and disinfection of regulations.

8 Product transportation and storage

In the following environment, transportation and storage this equipment:
8.1 Environmental temperature: －20℃～＋40℃
8.2 Relative humidity: ≤80％
8.3 Atmospheric pressure: 860hPa～1,060hPa, and non-corrosive gases and ventilated good indoor.

9 Safety instructions to the environment

9.1 Packing material disposition
According to the national environmental protection request for processing.
9.2 Equipment disposition
Stop using the equipment when the equipment achieved service life
The dismantle products of the equipment should be disposed by classification processing according their different material component.

10 Points for attention:

The transparent cover of the Examination Lamp is glass material, reminds medical personnel of avoiding sharp objects to hit the Examination Lamp in order to avoid fractured glass, and should be placed one meter away from patients.

11 Warranty period

Free repair for normal use of 12 months, the light bulb and switch is not within guaranteed repair range.

12 Equipments cleanliness

The surgical operation have noes the shadowless light to use a period of time the empress, outer shell, light the front-panel can accumulate to have the dust, blood, the liquid the etc., and must proceeds to equipments to sweep.
12.1 Outer shell cleanliness
Use the liquid oil to proceeds with soft cloth to wipe to wash, and can not only sweep the outer shell, and can still protect to varnish the layer. Serious to filthly can use the alcohol to again and again wipe to wash.
Carefully: But can't use the acidity, alkaline the aqua or abrasive to proceed to wipe to wash.

12.2 handle disinfection

Disinfect the hand handle to use to bear the heat material to make into, can at put into the boiled water to disinfect, and also can use to cure to use the alcohol disinfection.

Carefully: But can't use the similar forma horse the wood the etc. the melting agent the aqua to proceed to wipe to wash.