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Installation/User Manual for LEO Mobile LED Dental Surgical Light

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Product service

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1 Precautions before installation



Danger: Please turn off the power before installation. Failure to turn off the power before starting the installation procedure may result in electric shock.



Warning: Before starting this process, if the power cannot be turned off, it may cause damage to the product and cause serious injury .



Note:

- **Before installation, please confirm whether the space can meet the installation and use of the dental light.**
- **Please make sure that the device comes with a power cord, and confirm the installation location of the power socket as needed.**
- **It should be installed by an electrician or qualified maintenance personnel.**
- **This equipment is not suitable for use in places with flammable anesthetic mixtures.**

1.1 Power wiring requirements

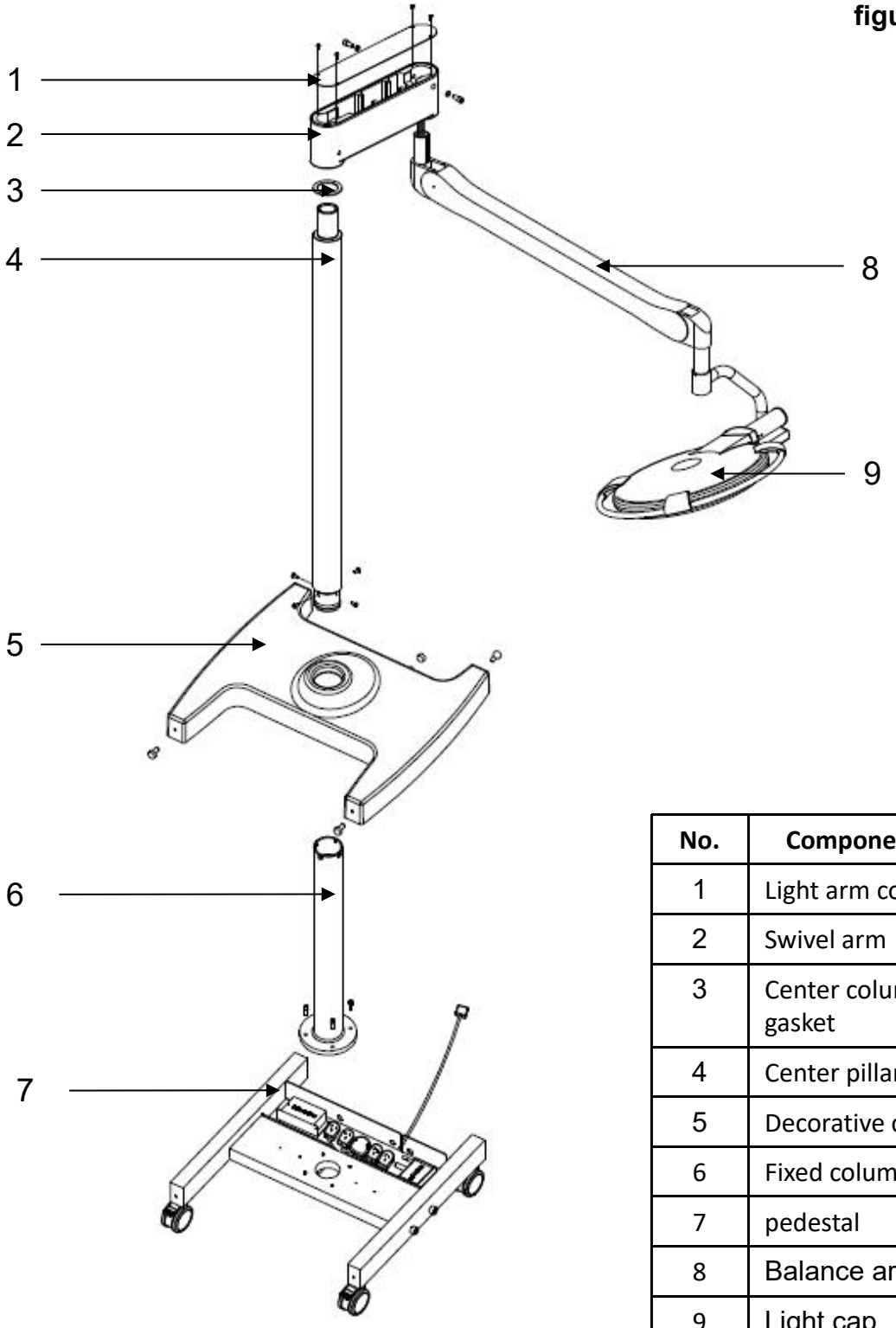
The power requirement of the LED dental light is AC 110V±10%, 60Hz.

The power switch must cut off both the phase line and the neutral line of the power supply at the same time. The safe current carrying capacity of the fuse is 6A. The safe current carrying capacity of the power cord is 15A.

2 Product Introduction

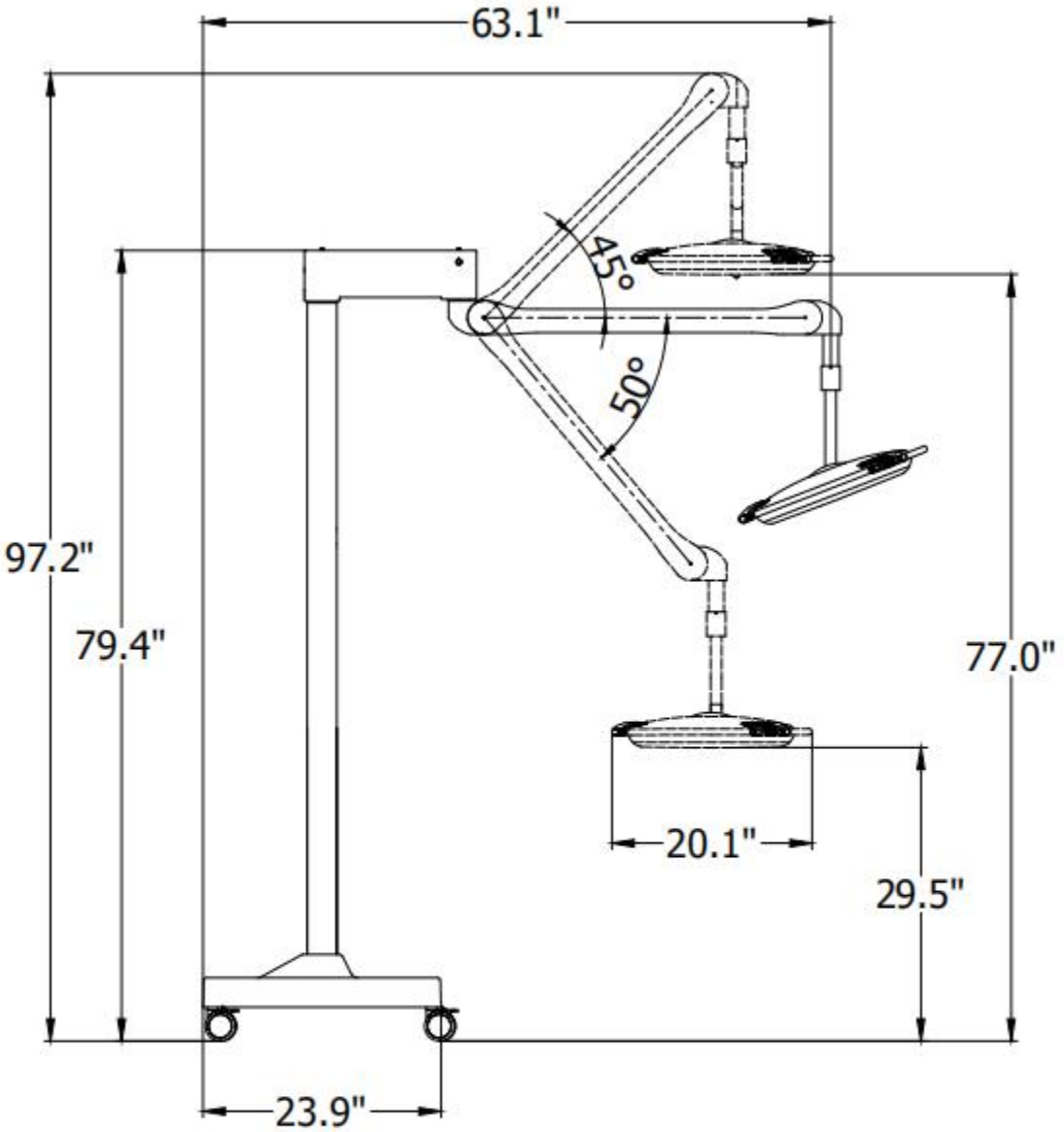
2.1 product composition

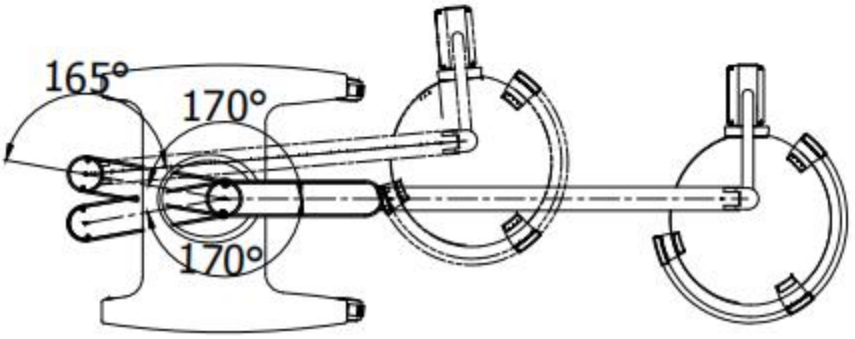
figure 1



No.	Components
1	Light arm cover
2	Swivel arm
3	Center column gasket
4	Center pillar
5	Decorative cover
6	Fixed column
7	pedestal
8	Balance arm
9	Light cap

2.2 Product dimension





3 Installation of LED Dental Surgical Light

① Install the fixing column on the base with 4 M8*30 hex screws.

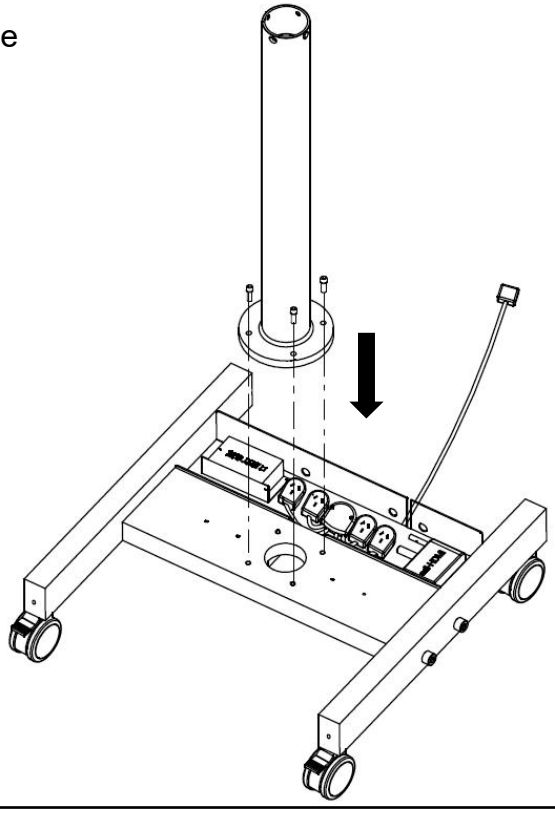


figure 3

② Sleeve the decorative cover into the fixed column.

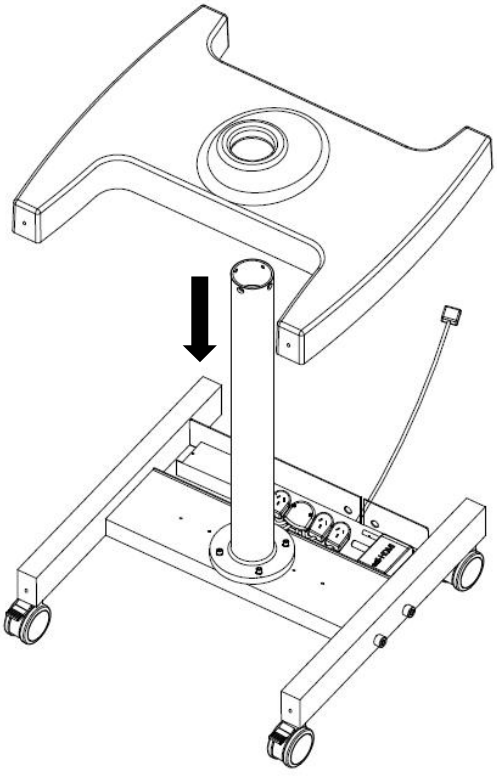


figure 4

③ Put the center column into the fixed column and lock it with 4 M6*16 hexagon socket countersunk head screws.

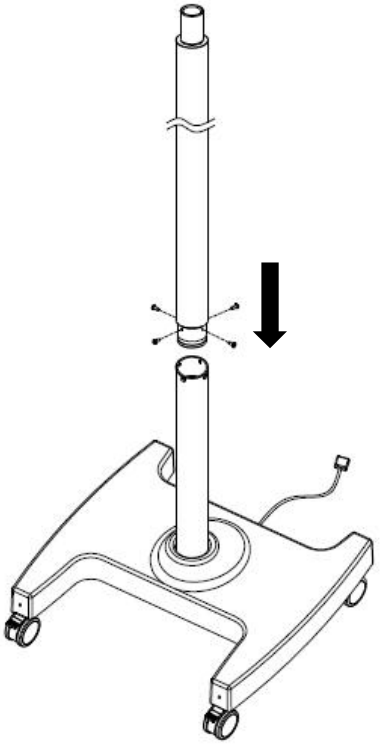


figure 5

④ Pass the flat pad through the center column, then place the rotating arm on the center column, lock it with two M6*8 set screws, and cover the decorative cap. **(Note: The tightness of the set screw affects the damping force of the Light arm)**

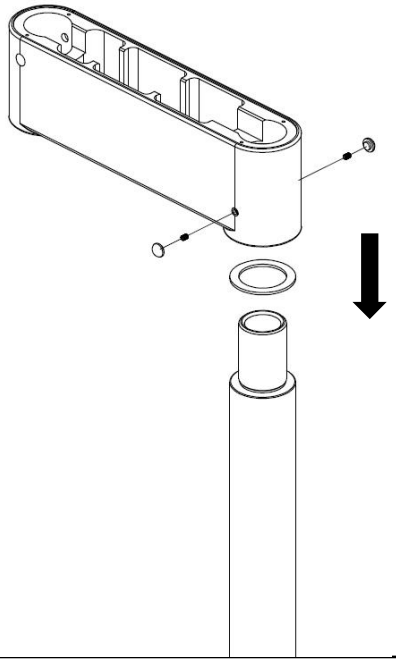


figure 6

⑤ Insert the Flexible arm mounting shaft into the hole of the rotating arm, and lock it with two M10*20 hexagon socket screws and spring washers.

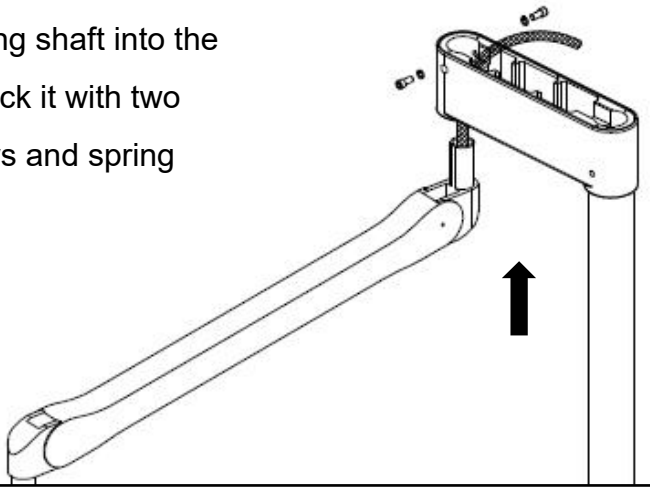


figure 7

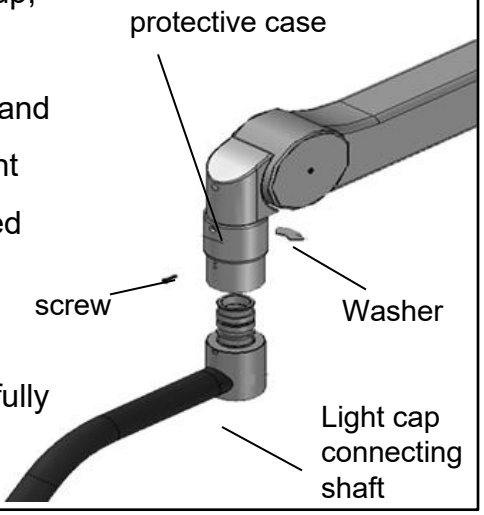
⑥Flexible Arm mount Light

Unscrew the screw of the protective cover at the front end of the balance arm, push the protective cover up, and pull out the moon-shaped retaining ring.

Push the connecting shaft between the Light body and the balance arm into the connecting hole at the front end of the balance arm, press into the moon-shaped retaining ring, push the protective sleeve back to the original position, and screw on the screw.

Caution: The moon-shaped retaining ring must be fully pressed into the notch.

figure 8



⑦ Install the disinfection handle

Push the disinfection handle into the handle shaft of the light source component, and when you hear a "click" sound, the disinfection handle has been positioned.

Note: The spare disinfection handle should be kept properly so that it can be disinfected and replaced after use.

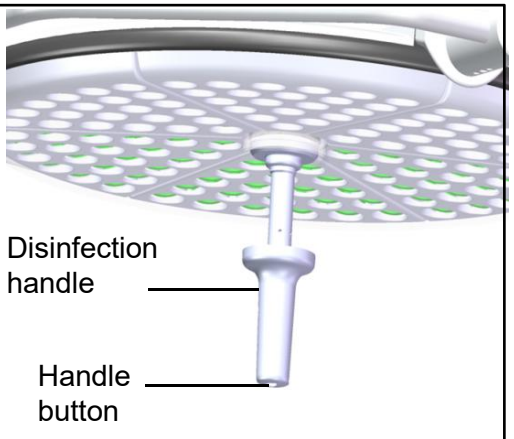


figure 9

⑧Connect the light wires and put them down from the hole in the arm, pull them out from the base, and connect the wires.

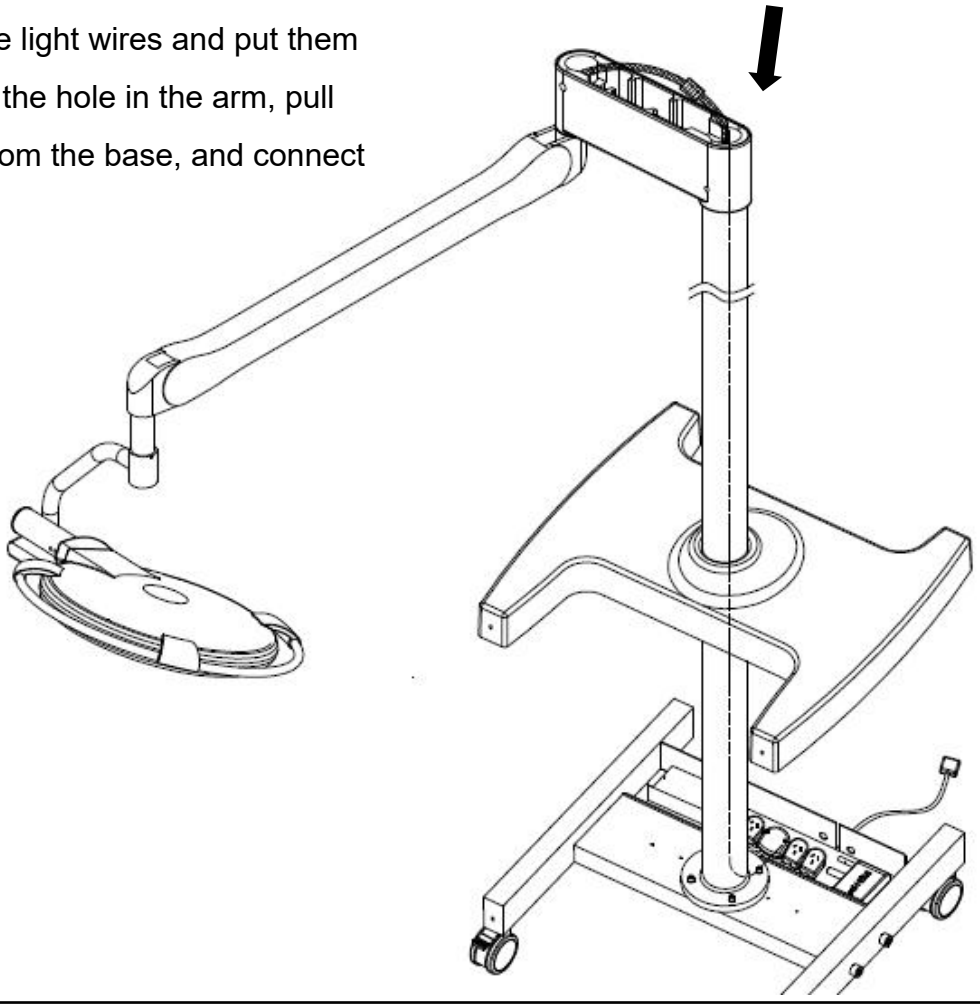


figure 10

⑨Use 4 screws to lock the Light arm cover。

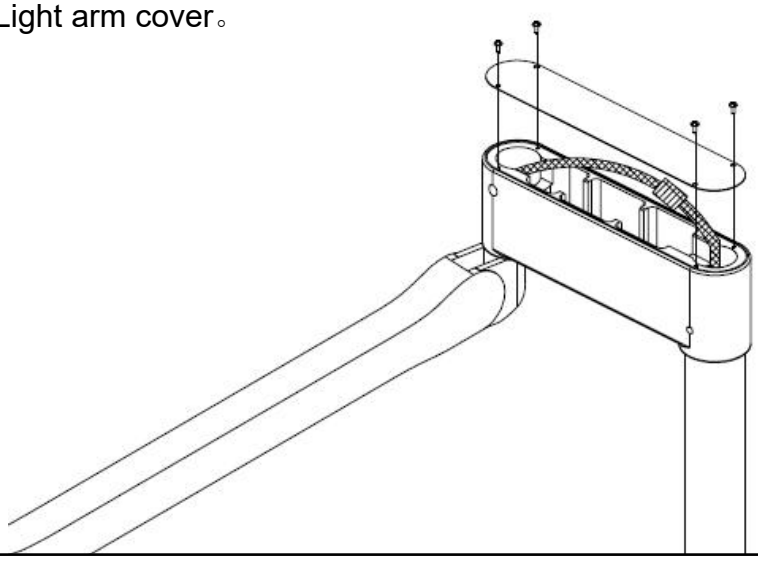


figure 11

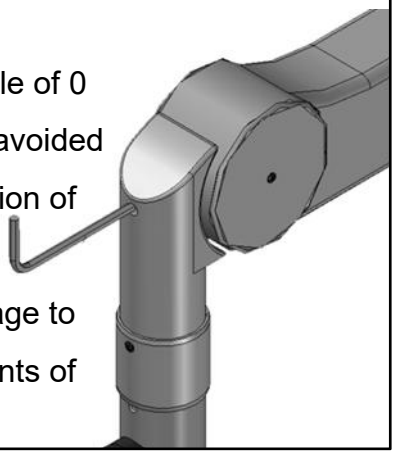
4 Adjustment of LED Dental Surgical Light

1. Adjustment of the Flexible arm

figure 12

After the Light holder is installed, at the connection between the Flexible arm and the Light holder, push the Allen wrench on the plastic cap at the front end of the Flexible arm forward, and loosen a Allen screw in the Flexible arm. The Light holder is adjusted to rise and fall to a suitable position.

Warning: The removal of the Light holder must follow the following steps: adjust the balance arm to an upward angle of 0 degrees, and remove the Light holder body. It should be avoided that the balance arm suddenly bounces up due to the action of the internal compression spring when the balance arm suddenly leaves the load of the Light body, causing damage to the balance arm components and even dangerous incidents of personal injury.



2. Flexible arm adjustment

At the connection between the balance arm and the cross arm elbow, use an Allen wrench to push up the plastic cover at the lower end of the balance arm, adjust the screw in the balance arm, pull the Light cap, and adjust the tension of the balance arm until it is suitable.

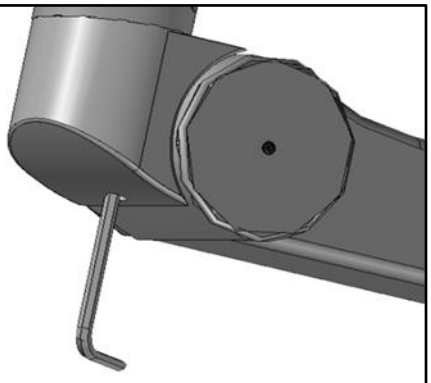


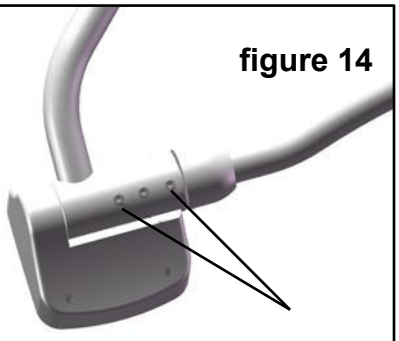
figure 13

3. Rotation adjustment of Light connecting tube

figure 14

Adjust the hex socket screw with the hex wrench to make the rotation force appropriate.

Note: The rotating tension of the Light has been adjusted before leaving the factory. Under normal circumstances, the user does not need to adjust it.



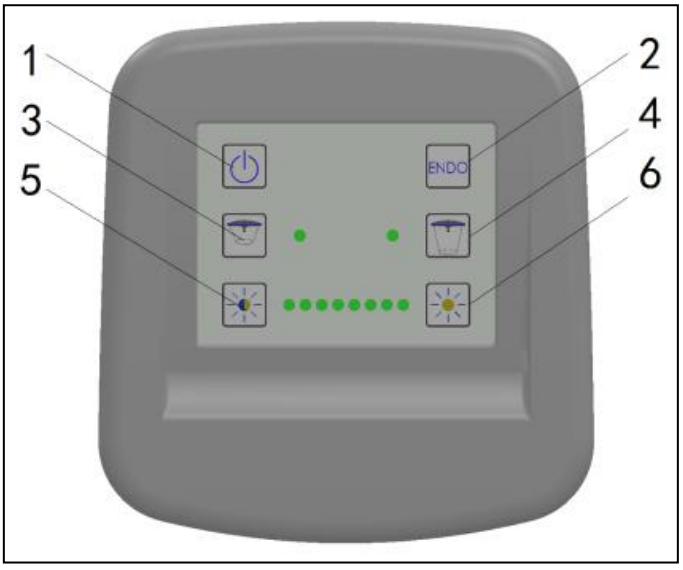
Socket head cap screws

After debugging, plug in the power and use the machine.

5 Function table

(PANALEX LED control panel for the dental surgical light)

figure 15



1.ON/OFF
Switch on/off the light

2.ENDO Switch
Switch on/off the ENDO operating

3.Spot adjustment Switch
Two spot adjustments

4.Spot adjustment Switch
Two spot adjustments

5.Lighting Switch
Decrease illuminance

6.Lighting Switch
Increase illuminance

6 Maintenance of LED dental surgical light

6.1 Product cleaning

After using the LED Dental Surgical Light for a period of time, dust, blood, body fluids, etc. will accumulate on the housing and Light panel, and the product must be cleaned.

6.1.1 Clean the cover

Scrubbing with liquid wax and soft cloth can not only clean the cover, but also protect the paint layer. Alcohol can be repeatedly scrubbed for serious dirt.

6.1.2 Light panel cleaning

Because the Light panel is made of polymer material, the surface has serious dirt or lint, which has a great impact on the light source. Therefore, when cleaning, you can only use a neutral detergent and a clean soft cloth without debris to scrub. .

Note: Do not scrub with acid, alkaline solutions or abrasives.

6.2 Sterilize the handle

The disinfection handle is made of high-temperature resistant materials. It can be disinfected and sterilized for 60 minutes in the saturated steam of high-pressure steam sterilization at a temperature of 134℃, or it can be disinfected with medical alcohol.

Note: The laws and regulations related to the disinfection of medical device products are applicable to this product.

6.3 Routine inspection

6.3.1 Check the connection

Because the safety of LED Dental Surgical Lights is of utmost importance. The condition of the connecting nut and other connecting screws must be checked regularly, and if any looseness is found, they should be tightened immediately. Operate according to the relevant content in the third section of Chapter 3 "Installation of LED Dental Surgical Lights".

6.3.2. Electrical inspection

Check the connection status of the power cord. If the connection is loose, it should be tightened immediately. If there is oxidation, replace the connecting terminal. Use a resistance measuring instrument to check whether the performance of the protective grounding wire is safe.

Note: The above-mentioned inspection shall be carried out at least once a year.

Warning: The power supply of the network must be cut off during the electrical inspection.

If you sign a service agreement with our company, our company can do regular inspections for you.

7 Troubleshooting of LED Dental Surgical Light

7.1 Faults that users can troubleshoot

Phenomenon	possible reason	elimination method
The control panel is blank or the control panel power indicator is off	The power is not connected	Turn on the wall power switch
	Switching power supply disconnected	Reconnect the power cord
Balance is too tight or too loose	The balance arm elasticity is too large or too small	Adjust the elasticity of the balance arm
The Light body cannot be positioned	The screw of the Light body connection tube is loose	Tighten the screws

Please refer to the relevant chapters of Chapter 3 "Installation of LED Dental Surgical Light" and Chapter 4 "Debugging of LED Dental Surgical Light" for the above troubleshooting operations.

Warning: The network power supply must be cut off when troubleshooting.

7.2 Notify the repairer or the company

After the user has eliminated the above faults, the LED Dental Surgical Light still does not work properly. Please inform the local authorized repairer or the maintenance department of the company in time for the detailed information. We will troubleshoot for you in the shortest possible time.

We reserve the right to make any alterations which may be due to technical improvements.

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