

LED-700 LED surgical shadowless lamp

Technical parameters and product introduction



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1. Ultra long service life:

Adopting a new type of LED cold light source, the lifespan can reach over 60000 hours without the need to replace the light bulb. Compared to traditional halogen lamps, it can also meet the requirements of energy conservation and environmental protection.

2. Perfect cold light effect:

Using a new type of LED cold light source, there is no ultraviolet or infrared radiation in the spectrum, neither heat nor radiation. The temperature rise of the doctor's head and wound area

is ≤ 1 °C, with almost no temperature rise.

3. Ideal exterior design that meets purification requirements:

The fully enclosed streamlined lamp head design conforms to the principles of aerodynamics, completely eliminating dead corners in the purified air and meeting the high standard laminar flow requirements of modern operating rooms, which is conducive to the sterile requirements of the operating room.

4. Humanized interface design:

The lighting brightness can be changed according to the hospital's requirements for different surgical lighting. Optional new LED touch LCD control panel can be equipped to achieve lighting switch and adjustment of illumination, color temperature, and brightness mode.

5. Super strong deep lighting and perfect shadowless effect:

The overall design of the LED lamp head concentrates the light beam into a high brightness uniform beam, ensuring a soft and uniform deep focusing effect, and meeting the high brightness and depth lighting requirements of surgery.

6. Color temperature adjustable function:

The color temperature of the LED-700 surgical shadowless lamp can be adjusted from 3500K to 5000K, making diagnosis more accurate and avoiding eye fatigue for medical staff due to long-term work.

7. Good suspension system:

A lightweight and high-quality balance arm suspension system (optional with imported arms), six sets of universal joint linkage, 360 degree all-round design, can meet the needs of various heights, angles, and positions during surgery, with convenient movement and accurate positioning.

8. A finely structured focusing system:

Equipped with manual focusing technology, the operation is simple and lightweight, overcoming the technical difficulties in focusing LED surgical shadowless lamps and achieving stepless focusing function; Detachable handle, capable of high-temperature sterilization

treatment ($\leq 134^{\circ}\text{C}$).

9. Bright and uniform lighting:

The light beam emitted by the LED light source is focused and converged through a specially designed high-performance lens in the surgical area to meet the lighting requirements for surgery; The maximum illumination level can reach 180.000LUX. The brightness of the LED is steplessly controlled through digital means, and the illumination level of each lamp head can be adjusted separately.

10. Extremely low failure rate:

Each LED module contains 6-10 LED beads, and each module has an independent electronic control system. The lamp head has a very low failure rate, and the failure of a single LED will not affect the function of the lamp head.

11. Low heat production:

The greater advantage of LED is that it produces less heat because it emits almost no infrared or ultraviolet radiation.

12. Technical parameters:

model	LED-700 type
Number of LED bulbs	80
Illumination (Lux)	60000 to 180000
Color temperature (K)	3500-5000K adjustable
Spot diameter (mm)	150-350
Dimming system	Unlimited dimming system
Color rendering index	≥ 85
Head temperature rise of the surgeon ($^{\circ}\text{C}$)	≤ 1
Temperature rise in surgical field area ($^{\circ}\text{C}$)	≤ 2
Color rendering index (CRI)	≥ 96

Color restoration index	≥ 97
Lighting depth (mm)	≥ 1200
Supply voltage	220V/50Hz
Input power (W)	400
Minimum/optimal installation height	2.4m/2.8m

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Configuration List (Single Unit)

Number	Accessory Name		quantity	unit	Remarks
1	700 lamp head		1	set	
2	Disinfection handle		2	individual	1 standard and 1 spare part each
3	LED light group	Osram, Germany	1	set	700 lamp heads with 80 LED beads
4	Balance arm		1	set	Optional imported balance arm
5	Rotating arm (including fixed base)		1	set	Single arm
6	Switching power supply assembly		1	set	
7	Shield		1	set	
8	Accompanying light tool		1	set	
9	Product certificate/warranty card		1	set	
10	User manual		1	set	
Wooden box packaging size		Base box 107x35x46 cm,			40KG

	Lamp head box 93x99x35 cm,	29KG