



# HW-LLD0503F

LED OPERATION LAMP



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## FEATURES AND HIGHLIGHTS

The LED surgical shadowless lamp is composed of multiple lamp bulb. The bulb has a longer life than the traditional shadowless lamp. It can be round or petal-shaped. It is fixed on the balance arm suspension system. What's more, it is stable in positioning and can be moved vertically or cyclically to meet different heights during surgery.



### Technical parameters

▪ Diameter of lighthead (mm):	550/500
▪ Illumination at 1m (Lux):	150000/120000
▪ Brightness control range:	10-100% stepless adjustment
▪ Color temperature (Kelvin):	4800±300
▪ Color rendering index (CRI):	≥96
▪ Temperature rise (Surgeon head)(°C):	≤2
▪ Temperature rise (Surgical field)(°C):	≤1
▪ Total irradiance Ee (W/m2):	≤1043
▪ Radiant power Ee/Ec (mW/m2lux):	≤4
▪ Effective focusing depth (cm):	60
▪ Lighting spot size (cm):	10-24
▪ L1+L2 depth of illumination (cm):	600
▪ Bulb type:	LED

▪ Bulb brand:	OSRAM
▪ Bulb quantity:	65+39
▪ Bulb power (w):	1
▪ Average bulb life (hours):	≥50000

### Technical configuration

<input checked="" type="checkbox"/> Rotating arm	2 set
<input checked="" type="checkbox"/> Balance arm	2 set
<input checked="" type="checkbox"/> C-arm	2 set
<input checked="" type="checkbox"/> Handle	2 pcs



## Material technology

The lampshade shell and boom are selected from Baosteel's high-quality steel. The surface adopts the high-voltage electrostatic spraying process, and the imported environmentally friendly antibacterial plastic powder that used to ensures that the product meets the requirements of surgical hygiene. Also, this product has matte surface and no glint.



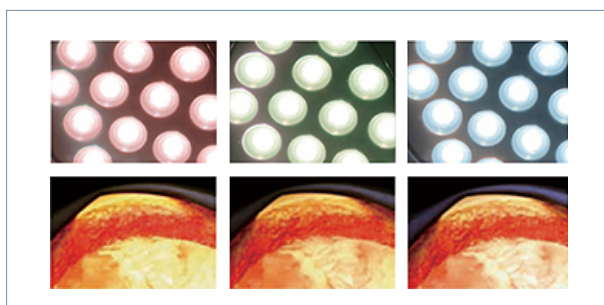
## Bulb

It uses OSRAM high-quality LED light-emitting chips, the chip life is up to more than 50,000 hours, 40 times longer than the life of traditional halogen lamps.



## Color temperature&illumination

It uses LED cold light source, the color temperature is  $4800 \pm 300\text{K}$ , the illuminance can reach 150,000 Lux, which can realize stepless dimming and non-multi-level adjustment. While meeting high illuminance, according to the needs of different surgeons, it can adjust the lighting parameters, so that the surgeon's perception of light is soft and not dazzling.



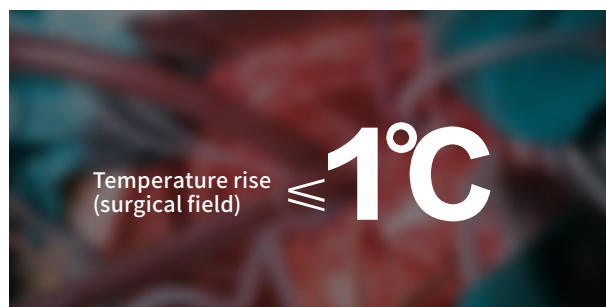
## Color rendering index

The color rendering index is as high as 96, which truly reflects the color of human tissues. It is suitable for various surgical scenes and greatly reduces the visual fatigue of medical staff due to long-term operations.



## Temperature rise (surgical field)

Temperature rise (surgical field)(°C):  $\leq 1$ , this can avoid tissue drying due to high temperature and rapid blood clots at the wound, which will affect the operation.



## Lamp holder structure

The lamp holder is equipped with multiple light sources and reflectors to focus on the working plane, which can effectively eliminate the shadows on the surgical site formed by the surgeon's head, shoulders and arms.



## Operating handle

The detachable disinfection handle is made of high-strength ABS, which can be disinfected and sterilized at a high temperature above 135°, ensuring the durability and reliability of the handle.



As the circumstance of printing, the photos might have minor difference on color, tactile from real products.  
As the update of design and improvement, parameters and outlook of products might change, thanks for understanding.

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