MLED-700/500



Product advantages and features:

· Color temperature adjustment: The lamp head is equipped with "Osram" LED lamp beads with different color temperatures. While maintaining the color rendering index of 90, the color temperature can be adjusted between 3000K and 6700K; thus achieving the best tissue resolution.

· Bright and uniform illumination: The beam emitted by the LED light source is focused in the surgical area through a specially designed high-performance lens to form the light domain required for surgical lighting; the maximum illumination can reach 160.000LUX. The

brightness of the LED is steplessly controlled digitally, and the illumination of each lamp head can be adjusted separately;.

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

· Convenient focus adjustment: Cooperating with the manual focusing system can achieve a bright and uniform shadowless lighting effect, and the maximum illumination can be achieved within the spot adjustment range, which not only meets the requirements of large spot and high illumination for open major surgery, but also meets the requirements of conventional windows The small spot and high illumination requirements required for surgery;

· Low heat production: The greater advantage of LED is that it produces less heat because it emits almost no infrared or ultraviolet rays.

· Average service life: LED lights are superior to traditional halogen lamps or gas lamps in that they have

a long service life. While traditional lamps usually have to be replaced after 600 to 5,000 hours of use, LED lamps have an average lifespan of 100,000 hours.

· Energy saving: Use 1W lamp beads and use 3D software to simulate the spatial position, and achieve the established performance indicators with the minimum arrangement of lamp beads;

· The spoiler design that complies with laminar flow allows the purified laminar air to easily move along with the streamlines of the surgical lamp, and allows the lamp head to maintain a better working temperature, effectively ensuring the service life of the LED lamp beads.

· Luxurious spring arm, sturdy and durable, light and flexible. This allows the lamp head to be easily rotated 360° and precisely positioned in the ideal position. The lamp arm has a wide range of activities and can be applied to operating rooms under different building conditions.

· The detachable handle cover can be sterilized at a high temperature of 135° C and can operate the focus, position and angle of the lamp body;

Working environment conditions:

a) Ambient temperature +10—+40℃;

b) Relative humidity 30% ~ 75%;

c) Atmospheric pressure (500~1060) hPa;

d) Power supply voltage and frequency AC 220V±22V 50HZ ±10HZ;

Main product technical parameters:

Performance	Unit	700 lamp head	500 lamp head
Illuminance	Lux	⩾ 120,000	⩾ 80,000
Color temperature	K	3,000 - 6,700	3,000 - 6,700
Color rendering index Ra		⩾ 85	⩾ 85
Illumination depth	mm	1,000	1,000
Irradiance at a wavelength < 400nm	W/m²	⩽ 0.006	⩽ 0.006
Bead power	W	1W/bead x 60 beads	1W/bead x 45 beads
Power supply		220V 50Hz	220V 50Hz
Input power	W	100	80
Average LED life	H	100,000	100,000
Minimum installation height	M	2.8	2.8