

Surgical Shadowless Lamp



Advantages:

Cold Light Source Technology

Advanced LED cold light source with zero UV/IR emission. Temperature rise $\leq 1^{\circ}\text{C}$ in surgical areas, 80,000+ hours lifespan, energy-efficient and eco-friendly.

Intelligent Optical Adjustment

Multi-level adjustable color temperature (3000K-6700K). High CRI (Color Rendering Index) enhances tissue contrast visualization. Uniform light column ensures deep-cavity illumination while reducing visual fatigue.

Precision Control System

LCD touch interface with one-touch endoscopic mode. Preset memory for customized parameters. Multi-channel independent control ensures uninterrupted illumination during single-LED failure.

Sterile & Purification-Optimized Design

Seamless aerodynamic housing with aluminum alloy heat dissipation. Silicone-sealed dustproof construction complies with laminar airflow standards. Easy-to-clean surfaces support aseptic protocols.

Articulated Suspension System

Dual curved arms + multi-joint linkage. 340° horizontal rotation, 90° vertical range, and precision positioning. 50,000-cycle endurance tested for multi-angle adaptability in complex procedures.

Autoclavable Focus Handle

Stepless focus adjustment with detachable high-temperature-resistant handle ($\leq 160^{\circ}\text{C}$ autoclave compatible), enabling rapid intraoperative sterilization.

Premium Components

MEAN WELL power supplies (Taiwan-based). Swiss-made antibacterial and flame-retardant coating (EU ROHS-certified) ensures safety and durability.

Base

Rigorously validated via mechanical simulation, the "M"-shaped base integrates four-wheel support, weighted steel plates, and silent wear-resistant casters—ensuring stability, easy maneuverability, and secure positioning anywhere.

Technical Parameters:

Model	BK-LED500L	BK-LED700L
Number of LEDs	48	80
Center Illuminance (LUX at 1M)	40000~160000 (Adjustable)	
Color Temperature (K)	$3000\text{K} \leq T_c \leq 6700\text{K}$ (Adjustable)	
Color Rendering Index (Ra)	$85 \leq Ra \leq 100$	
Spot Diameter (mm)	≥ 120	
Spot Distribution Diameter (mm)	≥ 60	
Light Column Depth (mm)	≥ 800	
Irradiance (W/m^2)	≤ 900	
Temp. Rise at Surgeon's Head ($^{\circ}\text{C}$)	≤ 1	
Temp. Rise in Surgical Field ($^{\circ}\text{C}$)	≤ 2	
Average Lamp Life (h)	≥ 80000	
Lamp Power	1W	
Power Supply	AC100~240V, 50/60Hz	
Consumption	200VA	
Packing Size(W*D*H)	765*590*215mm; 1060*220*200mm; 840*860*300mm	765*590*215mm; 1060*220*200mm; 1035*965*305mm
Net Weight	74kg	77kg
Gross Weight	48kg; 19kg; 14kg	48kg; 19kg; 19kg