

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.  $340^{\circ}$  horizontal rotation,  $90^{\circ}$  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.

Modular Configurations  
 Supports ceiling-mounted, floor-standing, wall-mounted, single/dual-head setups. Optional upgrades: shadow management system, HD camera systems,  $360^{\circ}$  balanced arms.

Technical Parameters:

Model	BK-LED500	BK-LED700	BK-LED500/700
Number of LEDs	48	80	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)	$85 \leq R_a \leq 100$		
Spot Diameter(mm)	$\geq 120$		
Spot Distribution Diameter(mm)	$\geq 60$		
Light Column Depth(mm)	$\geq 800$		
Irradiance(W/m <sup>2</sup> )	$\leq 900$		
Temp. Rise at Surgeon's Head( $^{\circ}\text{C}$ )	$\leq 1$		
Temp. Rise in Surgical Field( $^{\circ}\text{C}$ )	$\leq 2$		
Operating Radius(mm)	$\geq 2200$		
Working Radius(mm)	600~1800		
Average Lamp Life(h)	$\geq 80000$		
Lamp Power	1W		
Optimal Installation Height(mm)	2800~3000		
Power Supply	AC100~240V 50/60Hz		
Consumption	200VA		
Packing Size(W*D*H) mm	Single arm: 1090*370*435 Lamp: 860*840*290	Single arm: 1090*370*435 Lamp: 1040*970*320	Double arm: 1090*370*520 Lamp: 860*840*290 1040*970*320
Net Weight(kg)	Single arm: 28.2 Lamp: 8.6	Single arm: 28.2 Lamp: 12.98	Double arm: 44.3 Lamp: 8.6,12.98
Gross Weight(kg)	Single arm: 38.2 Lamp: 13.12	Single arm: 38.2 Lamp: 18.42	Double arm: 55.2 Lamp: 13.12,18.42