

L2700 Series Operating Room Lamps



Patented suspension arm design gives the Oricare L2700 Operating Room Lamps excellent stability with a compact and streamlined appearance

Technical specifications	Model	L2770	L2750
Diameter of Light Head		700mm	500mm
Illumination(Lux)		140000~160000Lux	110000~130000Lux
Color temp(K)		4300±500	4300±500
Color Rendering Index (Ra, %)		Ra 95%±3%	Ra 95%±3%
Color Rendering Index (R9, %)		R9 93%±3%	R9 93%±3%
Diameter of light spot (D10,mm)		225±25	175±25
Diameter of light spot (D50, mm)		≥100mm	≥75mm
Input Power(VA)		300	160
LED Power(W)		160	80
Illumination Depth (mm) (60% of Central Illumination)		≥500	≥400
Illumination Depth (mm) (20% of Central Illuminance)		≥800	≥800
LED Service Life		50,000 hours	50,000 hours
Illumination of background light (Lx)		≥30	≥30
The quantity of LED Elements		160	80
Recommended finished ceiling height of Operating Room		3000mm	
10 Level Illumination adjustment		30%~100%	
Temperature rise in the surgical area surface		≤3°C	
Temperature rise in the area of the surgeon's head		≤1°C	

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Technical Data

Video Camera	SD	HD
CCD sensor	1/4" CCD	1/3" Cmos
Signal system	NTSC or PAL	1080i
Effective number of pixels	440,000	2,000,000
Horizontal resolution (at center) (LVT) -Standard NTSC or PAL	600 TV-line	N/A
Aspect Ratio	4:3	16:9
S/N ratio (dB)	> 50	> 50
Optical zoom	43x motorized zoom	10x motorized zoom
Digital zoom	16x	12x
Focal length (mm/inch)	f = 3.21-138.5mm	f = 5.1mm-51.0 mm
Minimum. working distance (mm/inch)	100 mm	10 mm (wide) to 800 mm (tele)
Aperture	F1.65 to F3.7	F1.8 to F2.1
Antiflicker	Integrated	Integrated
Autofocus	Integrated	Integrated
Sensitivity (lx)	1.4 (F1.6, 50IRE)	1.2 (F1.8, 50IRE)
Location of camera	Center of lighthouse in post for sterilizable handle	Center of lighthouse in post for sterilizable handle
Control box power supply	100-240 VAC ; 50/60 Hz ; 50 VA	100-240 VAC; 50/60 Hz; 50 VA
White balance	Auto	Auto
Video signal outputs	SD: 75 ohm/external BNC plug-composite	HD: Component YPbPr SD: Y/C 75 ohm/external BNC plug-composite
Serial link interface	RS-485	RS-485

ORICARE™

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Your healthcare, we care.

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Operating Room
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Oricare is the first manufacturer who applies the warm-white LED compound solid-state light source to the Operating Room.

The design of the Oricare L2700 Operating Room Lamps is based on the leading LED technology. Our advanced optics create bright light which forms an absolutely shadowless lighting environment and meets the requirements of many different surgical procedures. With our unique patented shadowless optics, outstanding lighting depth, natural light color rendering and recovery capability and an ultra-long working life, the Oricare L2700 series is now the best choice in surgical illumination.

Warm-white LED lighting produces low IR and zero UV radiation.

L2700 Operating Room Lamps have low Infrared and UV-free radiation, thanks to the warm-white LED light source. This creates a lower heat load at the surgical site as well as a cooler work environment for you and your staff.

The illumination consistency is controlled by microprocessor technology, with ten-levels of illumination output adjustment (30% - 100%) available to the clinician.



Patented light path design, no need for manual focus adjustment

Oricare L2700 Series Operating Room Lamps include patented light path focus technology which provides an abundant and uniform lighting field. A 225mm light cylinder diameter and 500mm of light depth provide an effective illuminating solution for most surgery situations, including surgery of a large wound area.



Light screen is anti-infrared and scratch-proof.

Ultra-thin with a streamlined appearance

Benefiting from LED light technology, Oricare L2700 Series Operating Lamps do not require the massive reflection body and related complex heat-insulation system of traditional Halogen light systems. Slim and compact, with low wind resistance and a flow-optimized appearance, Oricare L2700 minimizes turbulence in laminar air flow. Therefore, the laminar flow can reach the surgical wound area consistently.



The shell of Oricare L2700 Series Operating Lamps is made of an aluminum alloy, with outstanding heat dissipation capacity, which extends the LED elements working life and illuminating efficiency.

ORICARE L2700 SD/HD System

Oricare L2700 series Operating Room Lamps can be easily used in conjunction with our SD and HD video systems, if you wish to document surgical procedures for training purposes, make use of live transmissions or consult with external surgeons during operations. The camera system is available in different versions and can be operated with integrated OR systems. It delivers first-rate images in SD or HD quality straight to the TFT monitor.



Smart background light gives basic illumination for endoscopic surgery.

Two independent LED elements give basic environmental illumination for low-light settings like endoscopic surgery.

