

LED OPERATION THEATRE LIGHT

OL-LED70/50



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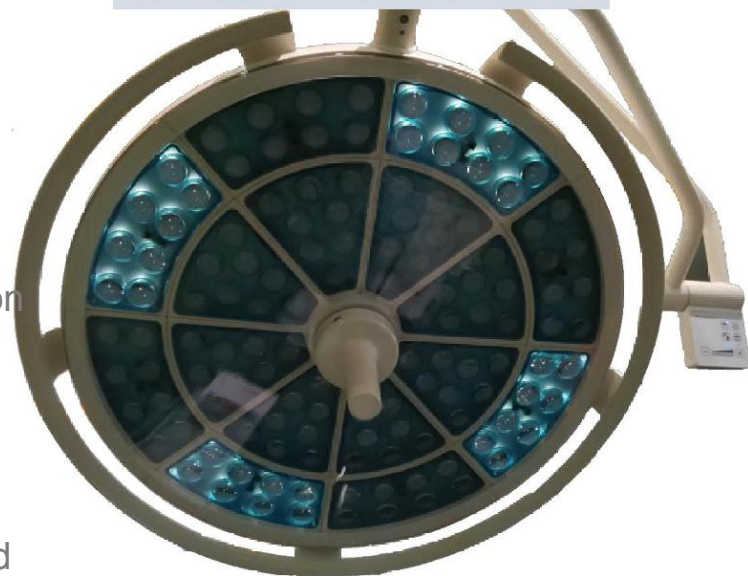
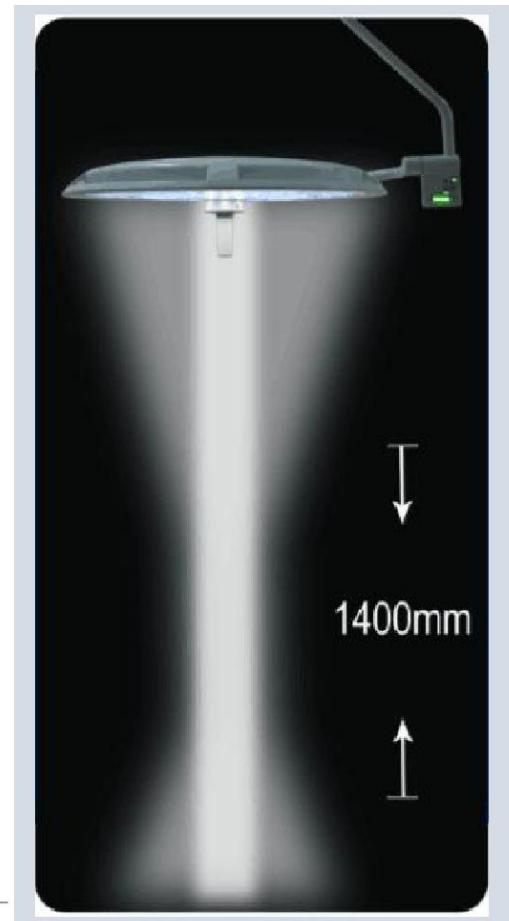


Utilising the most advanced LED technology available, the LED70 series of operating theatre lights have been designed to provide a high quality, shadowless beam with extremely low running costs.

The LED operation lamp has the backlight compensation function, one part of LEDs over surgeon's head will be closed and other Light source will be enhanced.

LEDs (light emitting diodes) have been around for a long time. Recently this technology has become leading-edge in the field of lighting - a breakthrough technological solution to the inherent problems of the incandescent light bulb.

We have taken the technology and developed it further to provide high definition lighting solutions with no infrared, low environmental impact, high brightness, low power consumption, no toxic chemicals and a long operating life.



Good blue light source that reduces doctors' eye fatigue
Endoscopic light source

HD camera system

* FCB-EH6500 whole machine is a 3.27 million-pixel high-definition zoom camera integration, its internal parts use original high-definition Sony FCB-EH6500 movement, is tailored for high-end surveillance industry definition industrial cameras.

* This camera resolution reach 1080P Full HD, true color reproduction, outstanding overall image. In the meantime, this camera with 360 times zoom function (30x optical and 10x digital) and IR-CUT Infrared

sense day and night conversion and precise autofocus function to ensure the camera can easily be used for various field angles and lighting conditions place.

* 1 / 2.8-type exmor 327 million pixels, 30x optical zoom, 12x digital zoom, wide dynamic range, day and night conversion function, HD-SDI output, 1080p, support for SDI and component output interface, also supports remote RS485 communication

HD camera system features:

- Focus Function :720 and 1080P optional ;30X optical zoom lens ;327W effective pixels.
- WDR, automatic white balance
- Digital Noise Reduction
- Sensor :1 / 2.8 inches Exmor CMOS
- Optical zoom : 30x optical zoom
- Word zoom: 12x electronic zoom
- 0.5 lx (F1.6, ICR OFF) 0.095 lx (F1.6, ICR open)
- SNR: More than 50dB
- Focal length: Automatic or manual
- WDR automatically or manually
- White balance, image, color enhancement, digital noise reduction, slow snapshots, automatic gain
- PRIVACY: Support
- Gain control: Automatic or manual (-3dB-26 dB, 16STEPS)
- Maximum gain limit(6dB to 28dB, 12STEPS)
- Weight: 1.2KG
- External Control Built-in RS485
- **Machine parameters:**
- CPU: Intel I5
- Cover:Aluminum
- Nuclear significant HD4600
- Monitor: 21.5-point touch screen
- Day and night automatic switching function
- RS485 control
- Clarity :1920 x 1080
- Effective Pixels :3.27 million pixels
- Minimum illumination
- 1.7 lx (F1.6, ICR OFF)0.3 lx (F1.6, ICR open)
- WDR:Support
- White balance: Automatic or manual
- Video reinforcement
- Snapshot Speed: 1/1 to 1 / 10000sec
- Working temperature: -5 °C to 60 °C
- Power consumption: 12V DC, maximum 9W
- Alarm ;1 input / 1 output
- Output Interface
- Running memory: 4G Housing
- Hard Drive: 128 solid-state hard drive Graphics:
- System: WIN8










Features:

- Streamlined, ultra-thin, enclosed head with reduced air resistance to minimise contamination
- 4000~ 5000K variable colour temperature
- Manual focus
- Digitally controlled light intensity with grades of brightness and automatic memory for added flexibility
- Optionally built in power supply systems avoiding complicated installation of wall mounted control boxes
- Auxiliary light source included for laparoscopic operations
- LED light-source with up to 60,000 hours of light
- Rigid suspension arm with easy mobility and stable positioning
- 360° arm rotation
- No infrared or ultraviolet radiation
- The LED operation lamp has the backlight compensation function, one of LEDs over surgeon's head will be closed and other light source will be enhanced.
It has endoscopy light source.



Ultra thin design

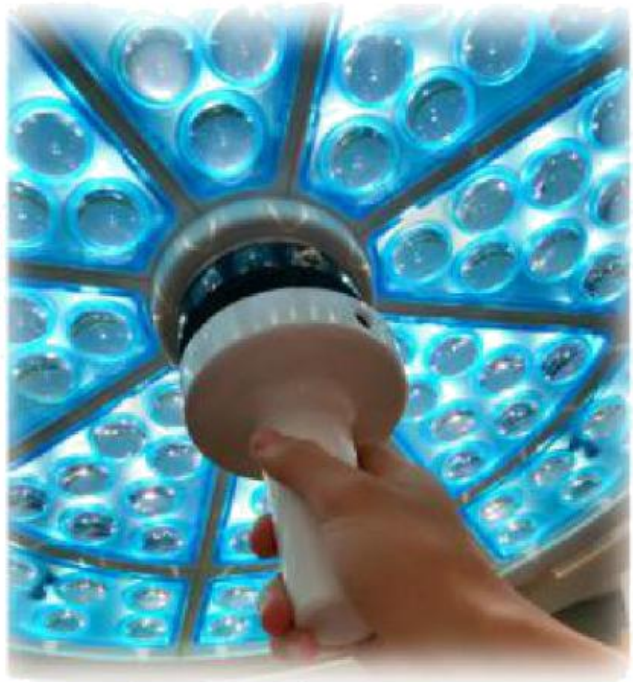


	Camera	On & off of camera, The light indicates working state.
	Power switch	
	Zoom in	To magnify the image
	Zoom out	To narrow the image
	Near	To reduce the distance of the camera focus
	Far	To pull away the camera focus distance

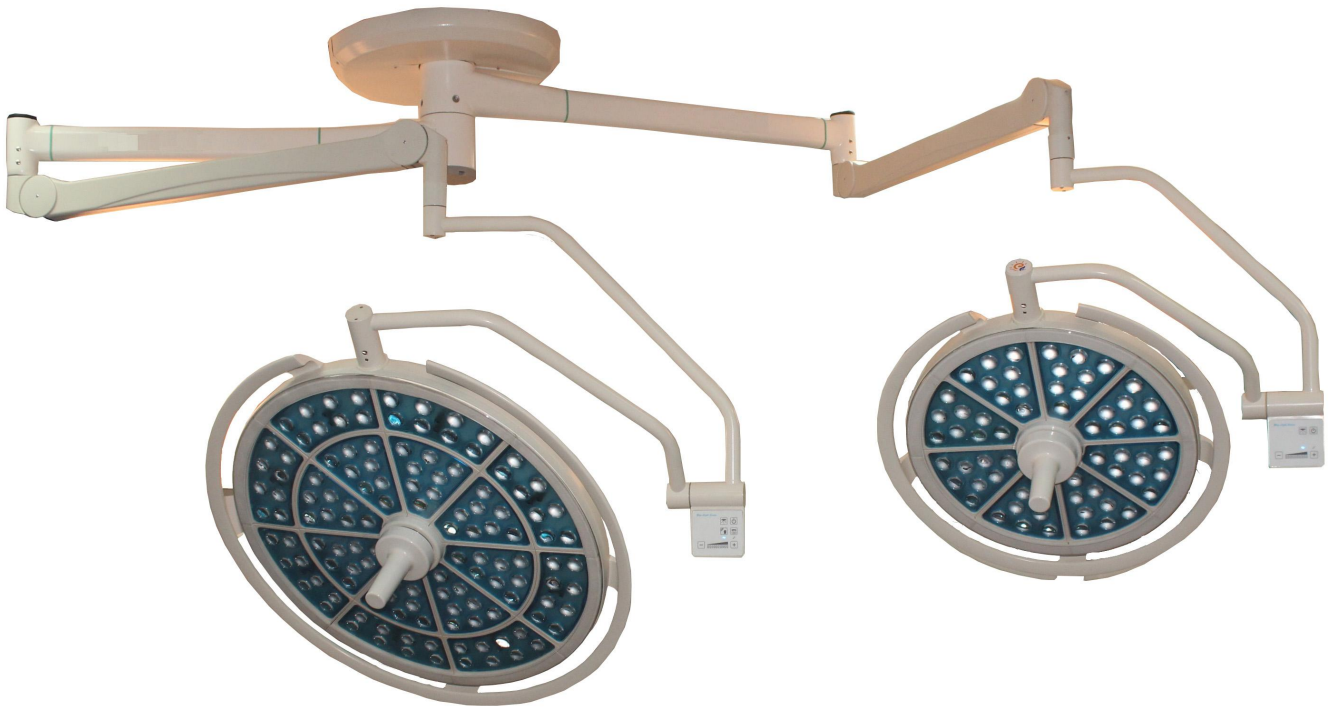
Technical Specifications

Diameter of lights	700mm	500mm
Illumination(Lux.)	160000lux.	140000lux.
Color temperature(K)	4500±500K	4500±500K
Color rendering index(Ra.%)	≥95	≥95
R9	90	90
R13	92	92
50%spot diameter d50(mm)	130	130
10%spot diameter d10(mm)	350	350
depth of illumination(cm)	140	120
the adjusting range of Illumination%	10~100	10~100
Wavelength less than 400nm, Ultraviolet irradiation illuminance (W/m2)	0.002	
Focus System	Manual	
Voltage(V)	220	220
Frequency (Hz)	50	50
Input power(W)	128	64
light source	LED	
LED service life	60000hours	60000hours
Illuminance of background light(Lx)	≥30	≥30
Minium installation height in operation room	2800mm	
Temperature rise in the area of the surgeons	≤1℃	

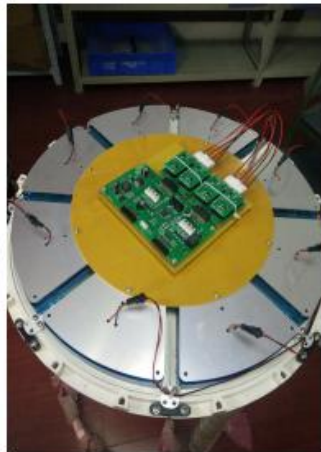




OL-LED7050



OL-LED7050



All Models Of OL-LED Series



OL-LED70 Single Dome LED Operation Lamp



OL-LED50 Single Dome LED Operation Lamp



MOL-LED50 Portable Led Operation lamp



EOL-LED70/50A LED Operation Lamp

Utilising the most advanced LED technology available, The MT-medical LED70 /50 series of operating theatre lights have been designed to provide a high quality, shadowless beam with extremely low running costs.

The new, slim, fully enclosed head with colour touchscreen digital controls is a perfect LED lighting solution complementing all surgical rooms.

LEDs (light emitting diodes) have been around for a long time. Recently this technology has become leading-edge in the field of lighting - a breakthrough technological solution to the inherent problems of the incandescent light bulb.

We have taken the technology and developed it further to provide high definition lighting solutions with no infrared, low environmental impact, high brightness, low power consumption, no toxic chemicals and a long operating life

Features

- Streamlined, ultra-thin, enclosed head with reduced air resistance to minimise contamination
- 3,600 ~ 5,500K (± 500) variable colour temperature
- Automatic focus
- Digital controlled light intensity with 10 grades of brightness and automatic memory for added flexibility
- Built in power supply systems avoiding complicated installation of wall mounted control boxes
- Auxiliary light source included for laparoscopic operations
- LED light-source with up to 50,000 hours of light.
- Rigid suspension arm with easy mobility and stable positioning

Technical Parameters

Illuminance :	160000/140000Lux.
Illuminance adjustable range :	25% - 100%
Color Temperature :	3600-5500K
CRI RA : 95 R9 :90 R13 :92	
50% Spot Diameter (D50) :	150 mm / 120 mm
10% Spot Diameter (D10) :	280 mm / 230 mm
Illumination Depth :	140cm / 120 cm
Ultraviolet light irradiance within40nm wave length:	0.002W/M2
Temperature at surgeon's head :	≤ 2°C
Focus mode :	manual or electric(optional,but price is different)
Power Supply :	220V,50HZ
Lamp Beads Power :	1W * 60N / 1W *45N
Input Power :	85W / 65W
The Average Life Expectancy H Lamp Beads :	50,000 Hours
Lowest installation height :	2.8 M



Touch Screen Panel



Electric Focus System



Inserted Camera System



Cold And Warm Light Source



Ondal Light Arm

EOL-LED70/50A



Other models (Electric focus model, manual and fixed focus mode for choosing)



EOL-LED70A Single Dome LED Operation Lamp With TV

Technical Parameters

Illuminance :	160000 Lux.
Illuminance adjustable range :	25% - 100%
Color Temperature :	3600-5500K
CRI RA : 95 R9 :90 R13 :92	
50% Spot Diameter (D50) :	150 mm
10% Spot Diameter (D10) :	280 mm
Illumination Depth :	140cm
Temperature at surgeon's head :	≤ 2°C
Power Supply :	220V,50HZ
Lamp Beads Power :	1W * 60N
Input Power :	65W

The Average Life Expectancy H Lamp Beads : 50,000 Hours



Technical Parameters

Illuminance :	140000Lux.
Illuminance adjustable range :	25% - 100%
Color Temperature :	3600-5500K
CRI RA : 95 R9 :90 R13 :92	
50% Spot Diameter (D50) :	120 mm
10% Spot Diameter (D10) :	230 mm
Illumination Depth :	120cm

Ultraviolet light irradiance within40nm wave length:0.002W/M2

Temperature at surgeon's head : ≤ 2°C

Focus mode : manual or electric(optional,but price is different)

Power Supply : 220V,50HZ

Lamp Beads Power : 1W * 45N

Input Power : 65W

The Average Life Expectancy H Lamp Beads : 50,000 Hours

Optional Battery



EMOL-LED50A Potable LED Operation Lamp



EOL-LED70/50B Double Dome LED Operation Lamp

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- Manual focus
- Digital controlled light intensity with 10 grades of brightness and automatic memory for added flexibility
- Built in power supply systems avoiding complicated installation of wall mounted control boxes
- Auxiliary light source included for laparoscopic operations
- LED light-source with up to 50,000 hours of light.
- Rigid suspension arm with easy mobility and stable positioning

Technical Parameters

Illuminance :	160000/140000Lux.
Illuminance adjustable range :	25% - 100%
Color Temperature :	3600-5500K
CRI RA : 95 R9 :90 R13 :92	
50% Spot Diameter (D50) :	150 mm / 120 mm
10% Spot Diameter (D10) :	280 mm / 230 mm
Illumination Depth :	140cm / 120 cm
Ultraviolet light irradiance within 40nm wave length:	0.002W/M2
Temperature at surgeon's head :	≤ 2°C
Focus mode :	manual or electric(optional, but price is different)
Power Supply :	220V, 50HZ
Lamp Beads Power :	1W * 60N / 1W * 45N
Input Power :	85W / 65W
The Average Life Expectancy H Lamp Beads :	50,000 Hours
Lowest installation height :	2.8 M



Control Panel



Manual Focus



Inserted Camera System



Cold And Warm Light Source



Rigid Light Arm

All Models For B Series (It has manual focus mode and fixed focus mode for choosing)



EOL-LED70B Single Dome LED Operation Lamp



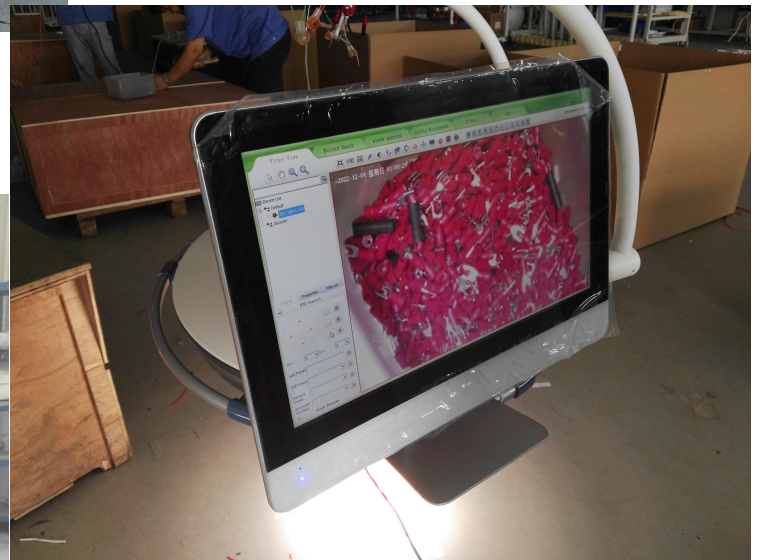
EOL-LED50B Single Dome LED Operation Lamp



Real Images In factory (B Model)



Optional Accessories For Surgery light (camera system, battery backup)



Note:

This camera system can be matched with all 2 dome Light expect OL-LED7050 (OLseries, the camera system Series are in high configuration).

MEL-LED11 (It can be used for emergency led in minor surgery)

PORTABLE LED EXAMINATION LIGHT



MEL-LED11

• MEL-LED11 Portable LED examination light is an invaluable and cost effective tool. It has been specifically designed for minor procedures under local anaesthetic in health centres, GP surgeries and outpatient departments.

• **FEATURE :**

- The use of multiple LED's provides a high, and even light intensity throughout the entire viewing area to reduce eye strain
- A concise and self-explanatory 3 button control system on the light head itself
- Balanced arms for one touch adjustment and a great range of movement
- Ideal for minor surgery and gynaecological procedures

PARAMETERS:

Diameters:		
Illuminance	80,000lux -100,000lux	
Color Temperature	4500K(±500K)variable	
Color Rendering Index(Ra.%)	93	
Input power	50W	
Power Of Bulb(W)	1W X N20	
Spot Diameter d50(mm)	80	
Spot diameter d10(mm)	150	
Battery	Optional	
Temperature increase in lamp head area(°C)	≤2°	
Battery	Optional	
Focus System	Automatic	
LED Service Life	50000h	
Voltage	220V	220V
Frequency	50Hz	50Hz
Depth Of Illuminance (cm)	80	



MEL-LED11

Portable Type

MEL-LED11 Ceiling Mounted Model



MEL-LED11 Portable standing model



Other Led Examination Lamp



- 1) Illuminance: ≥ 40000 Lux;
- 2) Color Temperature: 5000 ± 500 K;
- 3) Temperature of Work Area: $\leq 2^{\circ}\text{C}$;
- 4) Life of Bulb: 50000 h;
- 5) Voltage: AC90~240V;
- 6) Input Power: 36 W

(the arm is metal with painting and tube, ABS light head)

Wall mounted led Examination MEL-LED17

Packaging details



Other Led Examination Lamp



- 1). Illumination: 80,000Lux;
- 2). Color temperature: 5500 \pm 500K;
- 3). Voltage: AC90-240V;
- 4). Bulb Power: LED 7*3W;
- 5). LED service life: 50000h;
- 6). Packing details: 0.03CBM/set; G.W: 8.5KG

Portable Led Exam Light MEL-LED13

MEL-LED13 With battery



Other Led Examination Lamp



Technical Parameters

- 1.Voltage: AC90-240V
 - 2.Bulb Power: LED 5W
 - 3.C.T.:5500±500K 4.Illumination:35000lx
 - 5.Life:50000h
- Optional Battery

MEL-LED15 Mobile Stand LED Exam Light



Other Led Examination Lamp



MEL-14 Portable LED Exam Light

Technical Parameters

1. Usually: AC
2. it can also be DC which can last for 4 hours if in the state
3. High color temperature, temperature is low
4. Brightness is adjustable

1. Voltage: AC90-240V
2. Bulb Power: LED 9W
3. C.T.: 5500±500K
4. Illumination: 40000lx
5. Life: 50000h



Portable Led Light MEL-LED12