

JAM INVEST LTD - MEDICAL DIVISION

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SURGICAL LAMP SERIES

SHD-LED700 camera system operating shadowless lamp



(COLOR LIGHTS, TOUCH SCREEN OPTIONAL)

Recording terminal

LED series shadowless camera main technical parameters			
camera		Parameter setting	
Sensor type	1/2.8" Progressive Scan CMOS	Focusing mode	Semi-automatic/manual /
Scanning system	Progressive scan	Exposure mode	Automatic exposure/priority/shutter priority/manual exposure
Signal system	PAL/NTSC	Electronic shutter	1/1 second - 1/30,000 second
Video output	SDI output, network output	White balance	Auto 1 / Auto 2 / Indoor/outdoor/manual/sodium lamp/fluorescent lamp
Resolution	50HZ-50fps(1920X1080) 60HZ-60fps(1920X1080)	gain	16 level adjustable
Minimum Illumination	50HZ-25fps(1920X1080) 60HZ-30fps(1920X1080)	Wide dynamic	Off/On, 15 levels adjustable
Signal-to-noise ratio	Color 0.05Lux@F1.6, AGC ON	Digital noise reduction	3D
Lens	Greater than 52dB	Lens initialization	built-in
Focus Distance	4.7-47mm, 10x optical magnification	Image quality adjustment	Brightness, contrast, sharpness, saturation can be adjusted
Illumination value	F1.6 - F3.0	Digital magnification	10
Horizontal field of view	58.6-6.4 degrees (Wide Angle - field of view)	General norm	
Close-up range	120mm-800mm (Wide Angle - field of view)	Power source	DC 12V ± 25%
Interface function		Operating temperature humidity	-10℃-60℃, less than 90%RH
External interface	SDI, RS485, and power U4PT	Power dissipation	5W
External communication	Pelco P, Pelco D, VISCA	dimension	43.8 * 45.4 * 88.8 mm
		weight	190g

SURGICAL LAMP SERIES

SHD-LED700 external camera system operating shadowless lamp



22 inch display

camera

pickup

The models of the LED series operating light-less products include the double-headed SHD-LED700/700, SHD-LED700/500, SHD-LED500/500, the single-headed SHD-LED700, SHD-LED500, and the mobile SHD-LED700, SHD-LED500. With the progress of science and technology and the improvement of user requirements, only providing high-quality lighting effect can not meet the needs of users, therefore, we provide a variety of configurations for the LED series, there are domestic round arm, imported round arm, imported square arm optional, but also equipped with high-quality video and camera system overall program for users to choose. The camera includes built-in camera and external camera.

Built-in camera system				External camera system			
Serial number	name	Specification	Quantity	Remark	Serial number	name	Specification
1	The Kino movement	1x zoom	1	Hivision	1	The Kino movement	20x zoom
2	Explicit recording terminal	Twenty-two inches	1		2	Explicit recording terminal	Twenty-two inches
3	Connecting cable (internal)	SDI Hc Cable (thin)	1		3	Connecting cable (internal)	SDI Hc Cable (thin)
4	Middle camera accessory	Aluminum alloy material	1		4	SDI Cable (external)	Hd line 25 meters
5	Display (small)	4.3 inches	1		5	Picox (audio)	
6	SDI Cable (external)	Hd line 25 meters	1		6	External camera accessories	Aluminum alloy material
7	Pickup (audio)		1				

SURGICAL LAMP SERIES

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SHD-LED5H/3H petal operating light

- ★ New petal three-dimensional design
- ★ Imported German CSRAM lamp beads
- ★ Imported German lens
- ★ Die casting octagonal rotary arm



★ Real cold light source

Using new LED cold light source, energy saving, environmental protection and super long Service life up to 50,000 hours or more. Temperature rise of doctor's head > 1° C.

★ Excellent shadowless effect

The lamp head adopts the most scientific arc, multi-point light source design, so that the spot illumination is fuller, when the surgical lamp is partially blocked, it can also achieve the perfect shadowless effect.

★ Advanced control system

With LCD touch-button control, power switch, illumination, color temperature can be adjusted to meet the requirements of medical staff for different patients.

Digital memory function, automatic memory of the appropriate lighting degree, no need to debug when opened again.

Multiple same power multi-group multi-channel centralized control method to ensure that the damage of a single LED does not affect the requirements of surgical lighting.

★ Universal suspension system

Rotating large arm, lightweight structure, easy to handle, precise positioning, can provide maximum adjustment range.

Models: SHD-LED5/3, SHD-LED5/5, SHD-LED3/3, SHD-LED5, SHD-LED3



SHD-LED5H petal operating light



SHD-LED3H petal operating light



SHD-LED5H petal operating light

(Optional emergency power supply emergency duration ≥5 hours)

Main technical parameters of petal operating shadowless lamp			
Model number	SHD-LED5GH valve type	SHD-LED3H valve type	
Illuminance (Lux)	≥ 140000	≥ 120000	
Number of bulbs	61	39	
Average life of lamp bead	≤ 50000h	≤ 50000h	
Color temperature (adjustable)	4000K - 5000K	4000K - 5000K	
Focusing depth	≥ 800mm	≥ 800mm	
Spot diameter	180mm	170mm	
Irradiance(W/m ²)	≤ 550	≤ 550	
Brightness control	1%-100%	1%-100%	
The surgeon's head heats up	> 1°C	> 1°C	
Lamp bead	1W/3V	1W/3V	
Supply voltage	AC100-220V 50HZ	AC100-220V 50HZ	

SURGICAL LAMP SERIES

SURGICAL LAMP SERIES

SHD-LED700/500 Operating Shadowless Lamp (Luxury)



LED operating shadowless lamp product introduction

The inside of the LED operating lamp is composed of a number of lamp lobes, fixed on the balance arm suspension system, stable positioning, can do vertical circulation movement, can meet the needs of different heights and angles in the operation. The whole shadowless lamp consists of a mother lamp and a child lamp. Both the master lamp and the sub-lamp include five modules: Each module of the mother lamp includes 14 lamp beads, of which eight are warm white, represented by yellow, six are cold white, eight warm white in series into a group, six cold white in series into a group, that is, called the High brightness light emitting diode string HBL EDS(High Brightness LightingDiode); Each module consists of nine lamp beads, of which six are warm white, denoted by yellow, three are cold white, six warm white in series into a group, and two cold white in series into a group.

● The master lamp and the sub-lamp can be controlled by liquid crystal display push-button, and the brightness of the two lamp beads can be controlled by PWM mode respectively to achieve the overall brightness color temperature and focusing adjustment. Each module is independent of each other, and if one module is damaged, the others can continue to work.

● Long service life lighting source: LED light source life of up to 50,000 hours. The average service life is 40 times that of the overall halogen light source, and each LED can be replaced separately to ensure the maximum economic use.

● Excellent cold light effect: The use of a new LED cold light source as surgical lighting, the doctor's head and wound area almost no temperature rise.

1, good light quality: white LED is different from the color characteristics of ordinary surgical light source, can increase the color difference between blood and other tissues and organs of the human body, so that the doctor's vision is more clear, in the flowing and penetrating blood of the human body's various issues and organs are easier to distinguish, which is ordinary surgical shadowless lamp does not have.

2, brightness adjustment: The use of digital way to control the brightness of the LED, the operator can adjust the brightness according to their own adaptability to the brightness, so that it can achieve the most ideal comfort, so that the long-term work of the eyes is not easy to produce fatigue.

3, no strobe: because the LED shadowless lamp is pure DC power supply, no strobe, it is not easy to make the eyes feel tired, nor will it cause harmonic interference to other equipment in the work area.

4, uniform illuminance: using a special optical system, 360° uniform irradiation on the observed object, no ghost generation, high clarity.

5, energy saving and environmental protection: LED has a high luminous efficiency, impact resistance, not easy to break, no mercury pollution, and its emitted light does not contain infrared and ultraviolet radiation pollution.



SHD-LED700

Luxury Operating Shadowless lamp (ceiling) SHD-LED500



SHD-LED 500

Luxury Operating Shadowless Lamp (mobile)

SHD-LED 300 Shadowless lamp

LED series shadowless lamp main technical parameters		LED series shadowless lamp main technical parameters	
Model number	LED700	LED500	LED300
Number of LED bulbs	Focus 70 pieces	Focus 45 pieces	Focus 30 pieces
Illuminance (Lux)	≥140000	≥120000	≥100000
Single Screen (Lux)	90000	30000	10000
Double shutters (Lux)	65000	46500	16500
Average life of lamp bead	≤50000h	≤50000h	≤50000h
Color temperature (K)	3800K-5700K	3600K-5700K	3600K-5700K
Spect diameter (mm)	≥110	≥110	≥110
Irradiance (W/)	≤550	≤350	≤350
Dimming system	10-speed control	10-speed control	10-speed control
Head temperature rise (°C)	>1°C	>1°C	>1°C
Temperature rise in surgical field (°C)	>2°C	>2°C	>2°C
Color Rendering Index (Ra)	85%≤Ra≤100%	85%≤Ra≤100%	85%≤Ra≤100%
Illumination depth (mm)	≥800mm	≥800mm	≥800mm
Supply voltage	220V/50Hz	220V/50Hz	220V/50Hz
Input Power (VA)	200	200	200

SURGICAL LAMP SERIES

SURGICAL LAMP SERIES

SHD-LED700/500 operating shadowless lamp



SHD-LED700
Operating Shadowless Lamp (ceiling type)



SHD-LED500
Operating Shadowless Lamp (wall mounted)

LED operating shadowless lamp product introduction

The inside of the LED operating lamp is composed of a number of lamp lobes, fixed on the balance arm suspension system, stable positioning, can do vertical circulation movement, can meet the needs of different heights and angles in the operation. The whole shadowless lamp consists of a mother lamp and a child lamp. Both the mother lamp and the sub-lamp include eight modules: Each module of the female lamp includes ten lamp beads, seven of which are warm, represented by yellow, three are cold white, represented by gray, seven warm white in series into a group, three cold white in series into a group, that is, called the High brightness light emitting diode ring HBL EDSH-High Brightness LightingDiode); Each module consists of six lamp beads, of which "our are warm white, represented by yellow, two are cold white, four warm white in series into a group, two cold white in series into a group.

- The master lamp and the sub-lamp can be controlled by liquid crystal display push-button, and the brightness of the two lamp beads can be controlled by PWM mode respectively to achieve the overall brightness color temperature and focusing adjustment. Each module is independent of each other, and if one module is damaged, the others can continue to work.
- Long service life lighting source: LED light source life of up to 50,000 hours or more. The average service life is 40 times that of the overall reflective halogen light source, and each LED can be replaced separately to ensure the maximum economic use.
- Excellent cold light effect: The use of a new LED cold light source as surgical lighting, the doctor's head and wound area almost no temperature rise.
- 1, good light quality: White LED is different from the color characteristics of ordinary surgical light source, can increase the color difference between blood and other tissues and organs of the human body, so that the doctor's vision is more clear, in the flowing and penetrating blood of the human body's various tissues and organs are easier to distinguish, which is ordinary surgical shadowless lamp does not have.
- 2, the brightness of the infinite adjustment: the use of digital way to control the brightness of the LED, the operator can adjust the brightness according to their own adaptability to the brightness, so that it can achieve the most ideal comfort, so that the long-term work of the eye is not easy to produce fatigue.
- 3, no strobe: because the LED shadowless lamp is pure DC power supply, no strobe, it is not easy to make the eyes feel tired, nor will it cause harmonic interference to other equipment in the work area.
- 4, uniform illuminance: using a special optical system, 360° uniform irradiation on the observed object, no ghost generation, high clarity.
- 5, energy saving and environmental protection: LED has a high luminous efficiency, impact resistance, not easy to break, no mercury pollution, and its emitted light does not contain infrared and ultraviolet radiation pollution.



(Optional emergency power supply emergency duration ≥5 hours)

SHD-LED 500

Operating Shadowless Lamp (mobile)

SHD-LED 150

Surgical Assistance Light (Mobile)

SHD-LED 200

surgical auxiliary lighting

LED series shadowless lamp main technical parameters					
Model number	SHD-LED700	SHD-LED500	Model number	LED700	LED500
Number of LED bulbs	Focus 80 pieces	Focus 48 pieces	Dimming system	1%-100%	1%-100%
Illuminance (Lux)	≥140000	≥120000	Head temperature rise (°C)	> 1°C	> 1°C
Singla Screen (Lux)	90000	30000	Temperature rise in surgical field (°C)	> 2°C	> 2°C
Double Screen (Lux)	65000	46500	Color Rendering index (Ra)	85%≤Ra≤100%	85%≤Ra≤100%
Average life of lamp bead	≤50000h	≤50000h	Illumination depth (mm)	≥30mm	≥80mm
Color temperature (K)	4000K-6000K tunable	4000K-6000K tunable	Supply voltage	220V/50Hz	220V/50Hz
Spot diameter (mm)	≥180mm	≥170mm	Input Power (VA)	200	200
Irradiance (W /)	≤550	≤550			
Dimming system	1%-100%	1%-100%			

SURGICAL LAMP SERIES

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SHD 700/500 Integral Reflex Operating Lamp (Multi-prism)

Integral reflection lamp is now widely used in the hospital operating departments, especially brain surgery, thoracic surgery, the use of integral reflection lamp can ensure enough lighting, and the light is soft, more safe and reliable, is an ideal surgical lighting equipment.

- Depth lighting, using imported German bulbs, provides an optimal beam depth, which is extremely important for surgeries with small openings and large depths. Detachable sterilizing handle, which can be sterilized at 130°C.
- Excellent color temperature of the surgical lamp, through the principle of three primary colors can make the light closer to natural light, which is conducive to medical personnel to distinguish the color of blood vessels and nerve endings, and can clearly and accurately identify the organizational structure of the surgical field of vision.
- Excellent shadowless effect, despite obstacles, but still able to project a bright, continuous spot of light in the surgical area.
- Caring cold light source, we designed the excellent heat dissipation effect, to solve the problem of high temperature of the coctors head, and effectively avoid the loss of water or the surgical wound, which is conducive to the rapid recovery of the patient's wound after surgery. The cooling system is conducive to absorbing the heat energy of the light and transferring the heat energy to the top of the lampshade according to the air circulation theory
- Streamlined shell, fully enclosed streamlined lamp body design, fully meet the requirements of disinfection and high standard laminar flow in today's operating room, the configuration of lightweight balance suspension system, six groups of joint linkage, dual lamp shift lightweight positioning stability, 360 degree all-round design, can meet the needs of different heights and angles in surgery
- Stable safety performance When the main bulb fails, the secondary bulb can automatically switch within 0.2 seconds to ensure the continuation of the operation; The control panel has the main and secondary lamp failure warning.



SHD 700

Integral Reflex Operating Lamp (ceiling)

SHD-500

Integral Reflex Operating Lamp (Wall-mounted)

(Optional emergency power supply emergency duration ≥ 5 hours)

SHD 500 Integral Reflex Operating Light (Mobile)

SHD 150 Surgical Auxiliary Light (Mobile)

Integral reflection series shadowless lamp main technical parameters		SHD-500		SHD-700		SHD-500	
Model number	SHD-700	SHD-500	Model number	SHD-700	SHD-500	SHD-500	SHD-500
Central illuminance (Lux)	≥ 140000	≥ 120000	Surgeon head temperature rise	$> 2^{\circ}\text{C}$	$> 2^{\circ}\text{C}$	SHD-500	SHD-500
Single Screen (Lux)	38000	7000	Supply voltage	220V 50Hz	220V 50Hz	SHD-500	SHD-500
Double shutters (Lux)	5000	3400	Input Power (VA)	200	200	SHD-500	SHD-500
Temperature	3000K-6000K	3000K-6000K	Lamp Power (W)	150/150	150/150	SHD-500	SHD-500
Spot diameter	$\geq 110\text{mm}$	$\geq 120\text{mm}$	Color rendering index	$85\% \leq Ra \leq 100\%$	$\geq 85\%$	SHD-500	SHD-500
Illumination depth	$\geq 750\text{mm}$	$\geq 1000\text{mm}$	Irradiance (W/m ²)	≤ 1000	≤ 1000	SHD-500	SHD-500
Brightness control	20 speed continuous dimming	20 speed continuous dimming				SHD-500	SHD-500