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OPERATING ROOM EQUIPMENT

Surgical shadowless lamp
Lectric operating table
Medical pendant/bridge



SHANDONG PING'AN YONGTAI MEDICAL EQUIPMENT CO., LTD.

Catalogue

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02-35 SHADOWLESS OPERATING LAMP

Surgical shadowless lamp (touch system)
Mobile LED Surgical Lighting
LED series surgical shadowless lamp
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36-55 ELECTRIC OPERATING TABLE

Comprehensive operating table
General Surgery
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Mechanical

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Orthopedic traction frame
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Filming bed
Electric chairs
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COMPANY PROFILE

Shandong Ping An Yongtai Medical Equipment Co., Ltd. is a comprehensive enterprise integrating scientific research, production, sales and service.

The company's main products are: surgical shadowless lamp series, electric operating table, electric gynecological maternity bed series, medical pendant, suspension bridge series, medical nursing bed series, stainless steel and ABS medical car counter frame and other products.

The company's products have been exported: the United States, Japan, Russia and other developed and developing countries as representatives, the company has passed the ISO9001: 2015, ISO13485: 2016 quality management system certification, the European Union CE export certification, and obtained the high-tech enterprise and specialized new certification.

Ping An Yongtai people, with the spirit of carrying health and illuminating hope, will continue to improve products and services, provide customers with better products, and make due contributions to the medical industry and social development.



License



High-tech enterprises



Quality system



EU CE certification

LED series shadowless camera main technical parameters

Camera		Function	
Sensor	1/3"Progressive CMOS (Approximately 2.3 million pixels)	Camera ID	0-255 (ID display: Off/On)
Scan the system	16:9 progressive scan	User Title/Zoom Display/ Temperature Display	Off/on
Sync the system	Synchronization within the country	Aperture mode	Automatic/Manual (0-17)
Video pixels	1080 (P)	Electronic shutter speed	1/25 (1/30) sec. to 1/30000 sec. Frame Accumulation (Off - 1/1 Seconds)
Horizontal resolution	1000TVL	Auto gain	Adjustable (0-20)
Minimum illumination	0.2Lux (day) .0.005Lux (DSS Open)	Flicker reduction	Off/on
Lens		White balance	Auto/Auto Tracking White Balance/ Manual/Remote Auto
Focal length	4.7-47mm (10x optical zoom.12x digital zoom)	Day and night switching	Automatic (ICR)/Color/B&W/External Signal Triggering
Number of apertures	F1.6-F3.0	Backlight compensation	Off/on
Horizontal viewing angle	60.9°-6.4° (Wide-Tele)	Electronic image stabilization	Off/on
Minimum viewing distance	30cm	Fog penetration	Off/On (High/Medium/Low)
Zoom speed	Adjustable (0-7)	WDR	Off/On (0-4S adjustable)
Image output		Auto-exposure area	Zone Display: Off/On (Zone Configurable)
HD-LVDS signal output	1920X1080P.50.60.25.30fps 1920X1080P 50.60fps 1280×720P50.60fps	Glare suppression	Off/On (Levels: 0-20, 8 colors)
CVBS signal output	1TU-R BT.1120) (YcbCr4:2:2 16bits) Analog composite video (1V±0.2Vp-p) NTSC/PAL	Privacy masking	Off/on, 1-8 masking areas to choose from, 8 masking area colors to choose from
General parameters		3D digital noise reduction	Off/Low/Medium/High
Operating humidity	-20°C-60°C	Color grade	Adjustable(0-20)
Power supply	DC 7V-15V	Sharpness	Adjustable(0-20)
Power consumption	MAX 5W	The picture freezes	Off/on
Dimensions (W*H*D)	43.6*45.5*67mt	Digital special effects	Close/mirror
Weight	About150g	Motion detection	Off/Track/Monitor, Sensitivity: 0-20
Control interface		Gamma correction	Low/Default/Medium/High
RS-485	PELCO-D/SONY-VISCA agreement	language	English/Chinese Simplified
	8bits data 1stop bit no parity 2400-115200bps		

Remarks: Customer matching scheme

1. RJ45 network version output scheme. {The camera outputs an image using a network signal}
2. Digital SDI version output scheme. {The camera outputs images using SDI coaxial cables}
3. Both solutions can be equipped with auxiliary display {4.3 inches}, equipped with camera remote control, and equipped with high-definition recorder.

Surgical shadowless lamp (touch control system)



Safety

This shadowless lamp control system consists of a control panel and a constant current control panel. On/off memory mode, step-by-step constant current control, high stability. OSRAM lamp beads, high color rendering index, high light efficiency, high stability. Failure mode, even if the data cable is broken, the PWN control board can remember the current mode to ensure that a single operation can be completed. In order to prevent screen aging and screen burning, this product is designed with a screen off protection function: enter the screen screen protection after 20S without operation, and unlock the touch screen.

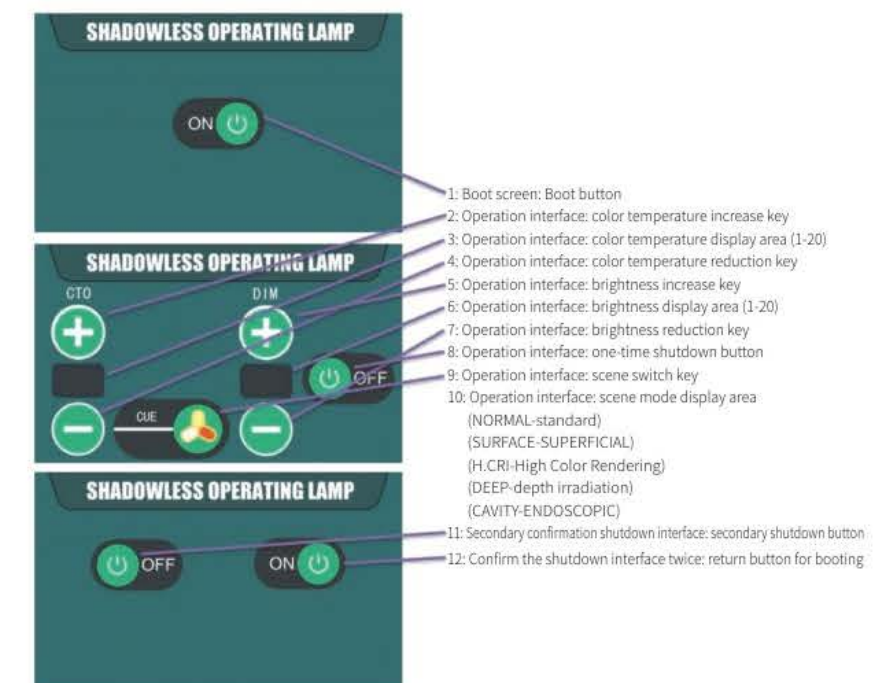
Highly efficient

DC-DC constant current source, using high-frequency PWM constant current source efficiency up to 98%, no heat, more stable. 4kHz high-frequency dimming with no flicker.

Quality

Imported National switch chip, Haier professional PWM microcontroller, gold-plated pin header, 6*6*7 waterproof tact switch.

Schematic diagram of key operation



YTLED700/500 Built-in camera system



YTLED700/500 External camera system



YTLED700 Surgical shadowless lamp
(built-in camera system)



LED series surgical shadowless lamp

A real cold light source

- It adopts a new type of LED cold light source, which is energy-saving and environmentally friendly, and has a long service life of more than 80,000 hours.
- The LED color is gentle and non-dazzling, close to natural light.

Excellent shadowless effect

- The lamp head adopts scientific radian, molding, multi-point light source design, and the light spot is flexibly adjusted, so that the light spot illumination is more uniform, and when the surgical lamp is partially blocked, it can also achieve the perfect shadowless effect.
- The light plate can be adjusted in many directions to adapt to the surgical angle.

Excellent depth lighting

- Computer-aided modular design, multiple LED light pillars focus on illumination, and provide adjustable color temperature close to natural light between 3500K-5000K to meet the needs of various surgical lighting.
- Laparoscopic surgery mode.

Advanced control system

- The liquid crystal display button control can be used to adjust the power supply, laparoscope and other basic adjustments to meet the requirements of medical staff for the brightness of different patients.
- The digital memory function automatically remembers the appropriate illumination level, and there is no need to debug it when it is turned on again.

Universal suspension system

- The rotating boom adopts 50*70 standard rectangular tube to make the appearance safer and more beautiful; The manipulator of the carbon brush of the rotating arm is formed by ABS mold at one time, and it is fixed with screws without leakage, which is more coordinated and beautiful.
- The balance system features a high-quality spring arm assembly that is lightweight, easy to maneuver, precise in positioning, and provides maximum range of adjustment.
- The lampshade housing is made of ABS material, and the center handle of the lamp head is detachable, which is convenient for adjustment and disinfection.

Technical parameters

LED series shadowless lamp main technical parameters		
Lamphead model	YTLED700	YTLED500
Illuminance (LUX at 1m apart)	40000-180000	40000-160000
Color Temperature (K)	3500-5000k	3500-5000k
Spot Diameter (mm)	100—300 (Adjustable)	100—300 (Adjustable)
Illumination Depth (mm)	≥1200	≥1200
Brightness adjustment	1-100	1-100
LED display index (adjustable)	85~97	85~97
R9 Red Light Bead (Illumination)	140000lux	130000lux
R11 Green Light Bead (Illuminance)	140000lux	130000lux
R9 Red LED (Lens Diameter)	36mm	36mm
R11 Green LED (Lens Diameter)	36mm	36mm
R9 Color Rendering Index (Ra)	≥85	≥85
Total irradiance	≤1000w/m ²	≤1000w/m ²
Ultraviolet radiation	≤10w/m ²	≤10w/m ²
Working radius(mm)	600—1800	600—1800
Supply voltage	AC100-240V 50/60HZ	AC100-240V 50/60HZ
Average lamp life (h)	≥80000	≥80000
Optimum installation height (mm)	2800—3000	2800—3000

YT-YD01 mobile LED surgical light



■ Features

- ◇ An emergency care bed and surgical light can be assembled in a short time.
- ◇ All main and auxiliary parts can be incorporated into the portable case.
- ◇ It has the function of adjustable illuminance and light spot.
- ◇ The light source board uses the structure of ABS+aluminum substrate, which has good heat dissipation effect and lighter weight.
- ◇ Quick installation, easy assembly and disassembly.
- ◇ The light source is made of LED lamp beads, and the life of the light source is more than 80,000 hours.
- ◇ It has a one-key laparoscopic surgical lighting function.
- ◇ The balance system features a high-quality spring arm assembly that is lightweight, easy to maneuver, precise in positioning, and provides maximum range of adjustment.
- ◇ It can be connected to a battery or a separate 220V power supply.

■ Technical parameters

Main technical parameters:			
Light source type	LED	Brightness control	1-100
Bead quantity	48 grains	Color rendering index	$85 \leq Ra \leq 100$
Illuminance (at 1m)	40000-140000LUX	Irradiance	$6W/m^2$
Color temperature (K)	3500-5000k	Supply voltage	AC100-240V 50/60HZ
Spot diameter (mm)	180-280mm (Adjustable)	LED lamp bead average life	≥ 60000 hour
Light depth (mm)	≥ 1000 mm	Balance arm lifting range	≤ 800 mm

YTLED700 Operating Shadowless Lamp (ultra-thin)



■ Features

- ◇ The lamp beads are made of polygonal diamond lenses, the color is gentle and not dazzling, and the unique concentrating technology greatly improves the light efficiency and no glare.
- ◇ There are 84 light sources, divided into 12 light groups, each group of light sources is controlled by the CPU alone, and the failure of any group will not affect the overall use.
- ◇ The internal light source component uses the structure of ABS engineering plastic skeleton + aluminum substrate, which has good heat dissipation effect, lighter weight, no flying wires, and reduces the failure rate.
- ◇ The unique constant current drive design makes the working current always in a stable state, which greatly prolongs the service life. Energy saving, environmental protection and long service life of more than 80,000 hours.
- ◇ It has three lighting modes: standard illumination, low-light illumination, and endoscopic illumination, which is suitable for the requirements of different surgical light sources; One-click switching operation.
- ◇ The lamp head is designed with a streamlined metal shell to meet the requirements of laminar flow purification. The lamp plate can be adjusted in multiple directions to adapt to the surgical angle, and the appearance is screw-free, corrosion-resistant, and easy to clean. The overall thickness of the lamp head ≤ 100 mm, which is light and beautiful.
- ◇ The appearance of the new sterilization handle does not have a single screw exposed, and the built-in buckle is 360-degree detachable design, which can withstand 134°C high temperature and high pressure sterilization.
- ◇ The controller adopts the 4.3-inch LCD screen with the widest viewing angle, the full screen is touch control, and the 9-level dimming is used. At the same time, there are 25%, 50%, 75%, 100% shortcut keys, and brightness, color temperature has memory function, easy to use, convenient and fast.
- ◇ The universal rotating boom adopts 50*70 standard rectangular tube to make the appearance safer and more beautiful; The manipulator of the carbon brush of the rotating arm is formed by ABS mold at one time, and it is fixed with screws without leakage, which is more coordinated and beautiful.
- ◇ The balancing system features a high-quality spring arm assembly that is lightweight, easy to maneuver, precise in positioning, and provides maximum range of adjustment.

■ Technical parameters

Main technical parameters:	
Illuminance (adjustable)	40000-160000Lux
Bead quantity	84 grains
Average life of lamp bead	$\geq 50,000$ h
Lamp power	Actual power1W
Color temperature (adjustable)	4000K ~ 5000K
Color rendering index (adjustable)	$Ra \geq 96$
Focusing depth	≥ 1200 mm
Spot diameter	180-280mm (Adjustable)
Brightness control	2.4 inch controller with 100 dimming steps
Irradiance	$6W/m^2$
Ultraviolet irradiance	$0.3W/m^2$
Supply voltage	AC100-240V 50/60HZ
Installation height	2800-3200mm

YTLED700 Operating Shadowless Lamp (pilot model)



Operating shadowless lamp (patent)

YTLED700/500 Operating Shadowless Lamp (Sunflower)



Sculpt

- The design of the sunflower model gives the product a unique visual effect and reflects the design concept and aesthetics. The material is not only robust and durable, but also has good corrosion resistance and high temperature resistance.
- The unique shape improves the work efficiency and convenience of doctors.

Excellent shadowless effect

- The lamp head adopts scientific radian, molding, multi-point light source design, and the light spot is flexibly adjusted, so that the light spot illumination is more uniform, and when the surgical lamp is partially blocked, it can also achieve the perfect shadowless effect.
- The light plate can be adjusted in many directions to adapt to the surgical angle.

Excellent depth lighting

- Computer-aided modular design, multiple LED light pillars focus on illumination, and provide adjustable color temperature close to natural light between 3500K-5000K to meet the needs of various surgical lighting.
- Laparoscopic surgery mode.

A real cold light source

- It adopts a new type of LED cold light source, which is energy-saving and environmentally friendly, and has a long service life of more than 80,000 hours.
- The LED color is gentle and non-dazzling, close to natural light.

Advanced control system

- The liquid crystal display button control can be used to adjust the power supply, laparoscope and other basic adjustments to meet the requirements of medical staff for the brightness of different patients.
- The digital memory function automatically remembers the appropriate illumination level, and there is no need to debug it when it is turned on again.

Universal suspension system

- The rotating boom adopts 50*70 standard rectangular tube to make the appearance safer and more beautiful; The manipulator of the carbon brush of the rotating arm is formed by ABS mold at one time, and it is fixed with screws without leakage, which is more coordinated and beautiful.
- The balance system features a high-quality spring arm assembly that is lightweight, easy to maneuver, precise in positioning, and provides maximum range of adjustment.
- The lampshade housing is made of ABS material, and the center handle of the lamp head is detachable, which is convenient for adjustment and disinfection.

YTLED700 Operating Shadowless Lamp
(Sunflower)



YTLED500 Operating Shadowless Lamp
(Sunflower)



YTLED700 Operating Shadowless Lamp
(Sunflower)



YTLED500 Operating Shadowless Lamp
(Sunflower)



YTLED700/700 Operating Shadowless Lamp (Coconut)



YTLED700 Operating Shadowless Lamp
(Coconut)



YTLED700 Operating Shadowless Lamp
(R series coconut)



Petal series operating shadowless lamp

Modern laminar flow lamp holder

- The lamp heads have an ultra-slim and streamlined design, and each head is equipped with an independent handle for flexible operation.
- The center handle of the lamp head is detachable, which is convenient for adjustment, disinfection and flexible positioning.

A real cold light source

- It adopts a new type of LED cold light source, which is energy-saving and environmentally friendly, and has a long service life of more than 80,000 hours. Up to 40 times longer life than halogen lamps. At the same brightness, the energy consumption of LED is only 1/10 of that of ordinary incandescent lamps and 1/2 of that of halogen lamps.
- The LED color temperature is constant, soft and non-dazzling, close to natural light, reducing ultraviolet radiation.
- Two lamp beads with similar color temperatures are used to avoid dizziness for surgeons.

Excellent depth lighting

- Computer-aided modular design, multiple LED light pillars focus on illumination, and provide adjustable color temperature close to natural light between 3500K-5000K to meet the needs of various surgical lighting.
- Laparoscopic surgery mode.

Advanced control system

- The button control can be used to adjust the power switch, illuminance, color temperature, etc., to meet the requirements of medical staff for the brightness of different patients.
- Multiple multi-group and multi-channel centralized control methods of the same power.

Universal suspension system

- The rotating boom adopts 50*70 standard rectangular tube to make the appearance safer and more beautiful;
- The carbon brush manipulator of the rotating arm is formed by ABS mold at one time, and it is fixed with screws without leakage, which is more coordinated, beautiful and safe.
- The balance system features a high-quality spring arm assembly that is lightweight, easy to maneuver, precise in positioning, and provides maximum range of adjustment.

Technical parameters

Petal series shadowless lamp main technical parameters				
Specification and model	YTLED500 (3 petal)	YTLED700 (4 petal)	YTLED700 (5 petal)	YTLED700 (6 petal)
Illumination (adjustable) Lux	40000-160000lux(Adjustable)	40000-180000lux(Adjustable)	40000-180000lux(Adjustable)	40000-180000lux(Adjustable)
Bead quantity	39 grains	50 grains	61 grains	72 grains
Average life of lamp bead	≥80, 000h	≥80, 000h	≥80, 000h	≥80, 000h
Color temperature (adjustable)	3500K~5000K	3500K~5000K	3500K~5000K	3500K~5000K
Color rendering index (adjustable)	85~98	85~98	85~98	85~98
Focusing depth	≥1200mm	≥1200mm	≥1200mm	≥1200mm
Working radius (mm)	600-1800	600-1800	600-1800	600-1800
Spot diameter	160-280mm (Adjustable)	160-280mm (Adjustable)	160-280mm (Adjustable)	160-280mm (Adjustable)
Brightness control	1%-100%	1%-100%	1%-100%	1%-100%
Irradiance	6w/m ²	6w/m ²	6w/m ²	6w/m ²
Ultraviolet irradiance	0.3w/m ²	0.3w/m ²	0.3w/m ²	0.3w/m ²
Supply voltage	AC100-240V 50/60HZ	AC100-240V 50/60HZ	AC100-240V 50/60HZ	AC100-240V 50/60HZ
Optimum mounting height (mm)	2600-3000	2600-3000	2600-3000	2600-3000

YTLED700/500 Operating Shadowless Lamp (Patent)



YTLED500 Operating Shadowless Lamp (Patent)



YTLED700 Operating Shadowless Lamp (Patent)



YTLED700/700 Operating Shadowless Lamp (conventional)



YTLED500 Operating Shadowless Lamp (conventional)



YTLED500 Operating Shadowless Lamp (conventional)



YTLED700/500 Operating Shadowless Lamp (conventional)



YTLED700/700 Operating Shadowless Lamp (conventional)



YTLED700 Operating Shadowless Lamp (conventional)



YTLED700 Operating Shadowless Lamp (conventional)



YTLED700 Operating Shadowless Lamp
(conventional)



YTLED700 Operating Shadowless Lamp
(conventional)



YTLED500 Operating Shadowless Lamp
(Patent)



YTLED700 Operating Shadowless Lamp
(Patent)



YTLED700 Operating Shadowless
Lamp (conventional)



YTLED700 Operating Shadowless
Lamp (conventional)



YTLED700 Operating Shadowless
Lamp (conventional)



YTLED500 Operating Shadowless
Lamp (conventional)



YTLED700 Operating Shadowless
Lamp (conventional)



YTLED700 Operating Shadowless
Lamp (conventional)



YTLED700/700 Operating Shadowless Lamp (conventional)



YTLED700/500 Operating Shadowless Lamp (conventional)



A real cold light source

- It adopts a new type of LED cold light source, which is energy-saving and environmentally friendly, and has a long service life of more than 80,000 hours.
- The LED color is gentle and non-dazzling, close to natural light.

Excellent shadowless effect

- The lamp head adopts scientific radian, molding, multi-point light source design, and the light spot is flexibly adjusted, so that the light spot illumination is more uniform, and when the surgical lamp is partially blocked, it can also achieve the perfect shadowless effect.
- The light plate can be adjusted in many directions to adapt to the surgical angle.

Excellent depth lighting

- Computer-aided modular design, multiple LED light pillars focus on illumination, and provide adjustable color temperature close to natural light between 3500K-5000K to meet the needs of various surgical lighting.
- Laparoscopic surgery mode.

Advanced control system

- The liquid crystal display button control can be used to adjust the power supply, laparoscope and other basic adjustments to meet the requirements of medical staff for the brightness of different patients.
- The digital memory function automatically remembers the appropriate illumination level, and there is no need to debug it when it is turned on again.

Universal suspension system

- The rotating boom adopts 50*70 standard rectangular tube to make the appearance safer and more beautiful; The manipulator of the carbon brush of the rotating arm is formed by ABS mold at one time, and it is fixed with screws without leakage, which is more coordinated and beautiful.
- The balance system features a high-quality spring arm assembly that is lightweight, easy to maneuver, precise in positioning, and provides maximum range of adjustment.
- The lampshade housing is made of ABS material, and the center handle of the lamp head is detachable, which is convenient for adjustment and disinfection.

YTLED700 Operating Shadowless Lamp (conventional)



YTLED500 Operating Shadowless Lamp (conventional)



YTLED700/500 Operating Shadowless Lamp (in-line)



YTLED700 Operating Shadowless Lamp (wall-mounted)



YTLED500 Operating Shadowless Lamp (wall-mounted)



YTLED700 Operating Shadowless Lamp (in-line)



YTLED500 Operating Shadowless Lamp (in-line)



※In-line for low operating rooms

YTLED700 Operating Shadowless Lamp (in-line)



YTLED500 Operating Shadowless Lamp (in-line)



YTLED700/700 Operating Shadowless Lamp (R series basic model)



YTLED700/500 Operating Shadowless Lamp (R Series luxury model)



YTLED700 Operating Shadowless Lamp
(R series basic model)



YTLED500 Operating Shadowless Lamp
(R series basic model)



YTLED700 Operating Shadowless Lamp
(R Series luxury model)



YTLED500 Operating Shadowless Lamp
(R Series luxury model)



YTLED700 Operating Shadowless Lamp
(R Series luxury model)



YTLED500 Operating Shadowless Lamp
(R Series luxury model)



YTLED700 Operating
Shadowless Lamp
(conventional)



YTLED500 Operating
Shadowless Lamp
(conventional)



YTLED500 operating
shadowless lamp
(Touch control system)



YTLED500 Operating
Shadowless Lamp
(R Series luxury model)



Integral reflex series operating shadowless lamp

■Features

- ◇ Surgical shadowless lamps are widely used for the lighting needs of various surgical occasions and are the ideal lighting equipment for modern operating rooms.
- ◇ The optical system made by CAD/CAM technology has an illumination depth of 1200mm, and the color temperature compensation technology is used to improve the color reproduction, which is more suitable for the illumination of large and complex surgeries such as brain surgery and thoracic surgery.
- ◇ Microcomputer numerical control, with ten brightness selection, and illumination memory function and wide voltage working characteristics, mains AC180V-250V range of stable work, strong anti-interference ability.
- ◇ The fully enclosed and streamlined lamp body design fully meets the needs of today's operating room disinfection and high-standard laminar flow.
- ◇ The wick is composed of PC (bulletproof plastic) pressure injection molding produced by GE, which makes the light softer and more reliable.
- ◇ The structure of the tuning system is exquisite, and it is quick and easy to replace the bulb and porcelain base; Detachable handle jacket can be sterilized at high temperature ($\leq 180^{\circ}\text{C}$).
- ◇ It has the function of automatic switching of backup bulbs, when the main light burns out, the secondary light will automatically light up within 0.1 seconds. On the handle panel, there are tests of the main and secondary lights and their circuits.
- ◇ Set up soft start device to effectively prolong the service life of the bulb, using imported long-life halogen tungsten bulb, the bulb life reaches more than 1000 hours.
- ◇ The key components are all national standard brand-name products, which run smoothly and reliably, and the flame-retardant materials are temperature-resistant and safe, in line with IEC standards.
- ◇ It can be equipped with a lightweight imported balance arm suspension system, six groups of universal joint linkage, light movement, stable and stable, and a 360-degree all-round design, which can meet the needs of different heights and angles during surgery.
- ◇ The surgical shadowless lamp can be configured in different combinations such as 700/700, 700/500, 500/500, 700, 500, vertical 700, 500, etc., and the camera system can also be selected.

■Technical parameters

Integral reflection series shadowless lamp main technical parameters		
Model number	YTZF500 Shadowless operating lamp	YTZF700 Shadowless operating lamp
Illuminance (Lux)	40000-160000	40000-160000
Color temperature (K)	3500-6000	3500-6000
Spot diameter (mm)	80-200mm	80-200mm
Illumination depth (mm)	$\geq 1200\text{mm}$	$\geq 1200\text{mm}$
Brightness control	Twenty speed continuous dimming	Twenty speed continuous dimming
Color rendering index	85-98	85-98
Irradiance	6w/m^2	6w/m^2
Ultraviolet illuminance	0.3w/m^2	0.3w/m^2
Power source	AC100-240V 50/60HZ	AC100-240V 50/60HZ
Input power (W)	400VA	400VA
Lamp Power (W)	24V 150W	24V 150W
The main light and secondary light switch automatically	0.1 seconds	0.1 seconds
Installation height	2500-3000	2500-3000

YTLED700/500 Operating Shadowless Lamp



YTLED700 Operating Shadowless Lamp(Suspension type)



YTLED500 Operating Shadowless Lamp(Suspension type)



YTLED500 Operating Shadowless Lamp (wall-mounted)



YTLED500/500 Operating Shadowless Lamp



YTLED700/700 Operating Shadowless Lamp



YTLED700 Operating Shadowless Lamp (wall-mounted)



YTLED700 Operating Shadowless Lamp (Vertical type)



YTLED500 Operating Shadowless Lamp (Vertical type)



Operating lamp

JKY5 Surgical Lighting
(Luxury LED five-hole)



JKY5 Surgical Light
(Deluxe Halogen Five-hole)



JKY5 Surgical Lighting
(Simple LED five-hole)



JKY5 Surgical Lighting
(Simple halogen pentapore)



- Lamp illumination
Illuminance adjustment can be infinitely dimmed, and reducing the illuminance does not change the color temperature range.
- Color temperature range
Technical requirements: 3800K±500K
- The size of the lighting area
The lamp head can be manually focused, and the size of the lighting area can be adjusted by turning the spot dimming knob, so that the lighting areas of each lighting module overlap.
- Low failure rate:
By using the original imported OSRAM lamp beads, the lamp head has a very low failure rate, and the failure of a single group of LED lamp beads will not damage the normal use of the lamp head.
- The lamp head has a separate memory switch, and the next time the light is turned on after this use, the brightness remains the same as when the light was

- turned off last time, so as to reduce the doctor's operation steps.
- Each lamp comes with an ABS head handle for easy adjustment of the head position.
 - With power indicator, with fuse.
 - The light transmission plate is made of shatterproof material to ensure the safety of doctors and patients.
 - The lamp head is equipped with a fan heat hole to better reduce the heat of the lamp.
 - LED surgical lighting adopts innovative light source, that is, LED (light-emitting diode), and the LED light-emitting diode used by our factory is the original imported OSRAM lamp beads.
 - Average service life:
What makes LED lamps better than traditional halogen or gas discharge lamps is that they last longer. Traditional light emitting patterns usually need to be replaced after about 500 hours of use, while the average lifespan of LED lights is about 20,000 hours.

Technical parameters

Lighting main technical parameters	
Central illumination Ec	55000-160000LX(Adjustable)
Spot diameter D10	120mm≤d10≤220mm
Spot distribution	D50≥0.5xd10
Color rendering index Ra	85≤Ra≤100
Beam depth	≥400mm
Luminaire height	2000mm-2100mm (Highly customizable)
Cap size	500mm
Maximum distance between lamp holder and column size	1600mm
Distance between top and bottom of lamp holder	Up ≈2400mm, down ≈930mm
Arm swing Angle	Up ≈27°, down ≈51°

JKY5L Surgical Light (LED reflection five-hole)



JKY5L Surgical Light (simple LED five holes)



JKY5L Surgical Light (Simple Halogen five-hole)



JKY5L Surgical Light (Luxury Halogen five-hole)



JKY4 Surgical Light (Simple LED four holes)



JKY4L Surgical Light (Simple LED four holes)



- The lamphead is equipped with multiple light sources and reflectors that are focused on the working plane, effectively eliminating the shadows that the surgeon's head, shoulders, and arms have formed on the surgical site.
- It has the characteristics of good shadowless effect, good filter heat dissipation performance, low temperature rise of the irradiated surface, soft and uniform light, and arbitrary adjustment of illumination.
- The LED lamp beads and the principle of color subtraction are used to make the light close to the color temperature of natural light, so that the doctor can accurately judge whether the surgical tissue is diseased or not.
- Use a highly efficient infrared filter to minimize temperature rise in the work area and the doctor's head area.
- The illuminance adjustment adopts multi-stage dimming, which can meet the brightness requirements of different surgeries.

- The adjustment handle is easy to disassemble and can be sterilized in a low-temperature formaldehyde steam sterilizer or EO gas sterilizer.
- Low failure rate: By using the original imported OSRAM lamp beads, the lamp head has a very low failure rate, and the failure of a single group of LED lamp beads will not damage the normal use of the lamp head.
- The lamp head has a separate memory switch, and the brightness of the lamp will remain the same as when the lamp was turned off the last time the lamp was turned off, so as to reduce the doctor's operation steps.
- Each lamp comes with an ABS head handle for easy adjustment of the head position.
- With power indicator, with fuse.
- The light transmission plate is made of shatterproof material to ensure the safety of doctors and patients.
- The lamp head is equipped with a fan heat hole to better reduce the heat of the lamp.

JKY4 Surgical Light (Simple Halogen Four-hole)



JKY4L Surgical Light (Simple Halogen Four-hole)



Technical parameters

Lighting main technical parameters			
Electrical characteristic	Input power	120VA	
	Lamp power	24V/25W	
	Main fuse	F1.5AL-250V	
	Supply voltage	110V-220V±10% AC(AC), wide voltage rectifier, can be customized according to the requirements of the US standard, European standard, British standard plug (conventional plug)	
Performance characteristic	Power frequency	50Hz±1Hz	
	Rated illumination	40,000lx	
	Temperature	3700K±500K	
	Total irradiance	Not more than 1000W/M²	
Mechanical characteristic	Color rendering index	85≤Ra≤100	
	The lamp head rotates around the main straight pipe	180°	
	Y-tube swings up and down	38°	
	Y-tube rotates from side to side	150°	
	The lamp body rotates in the Y-tube	90°	

JKY4L surgical light



Extra-long LED service life

- The new LED cold light source is adopted, which is 40 times longer than the life of halogen bulbs, reaching 60,000 hours without replacing the bulbs, low maintenance costs and economical use.

Powerful deep lighting, perfect shadow-free effect

- The perfect LED space layout design can still achieve perfect lighting effect and super deep lighting under the shielding of the doctor's head and shoulders.
- The leading level of its own patented technology is used to achieve the harmony and unity of illumination, color temperature and color rendering index.
- Imported high-performance lamp beads, efficient space layout, and energy-saving effect under the same illumination are better than other international well-known brands.
- Lamp beads with similar color temperature are used to avoid dizziness among surgeons.
- Original electric focus adjustment method (optional).

Sustainable without sacrificing performance and efficiency

- The effective substance is reduced to a minimum.
- 90% of LED surgical lights are made of aluminum alloy, which can be reused without the need to consume more raw materials.
- Simple packaging reduces the amount of material used and the amount of waste it generates, as well as reduces carbon emissions in transportation.
- The curved surface with smooth surface prevents the deposition of dust and reduces the amount of detergent used during cleaning, as well as the loss of cleaning products.

Technical parameters

Lighting main technical parameters			
Model number	JKY4L type	Effective working focus depth	≥900
Illuminance 1 m apart (lux)	90000	Spot diameter	100—300
Temperature	4300±500	Lamp type	LED
Display index	85-98	Average life of bulb	≥60000 hour
Dimming range	0%-100%	Bead quantity	30 capsules
irradiance	6w/m²	Brightness adjustment digital display	1—100
Ultraviolet irradiance	0.3w/m²	Supply voltage	AC100-240V 50/60Hz

JK3/3 Type surgical lighting



YT-DKD1 surgical auxiliary lighting



YT-DKD1 Surgical Auxiliary Light (pedal switch)



JK-3 Type surgical lighting



JK3L Surgical Light (Luxury)



JK3L Surgical Light (simple)



YT-DKD2 surgical auxiliary lighting



YT-DKD3 surgical auxiliary lighting

