



LED Operation Lamp

LUXIE 2

We Provide Customized Overall Solutions
for Medical Equipment

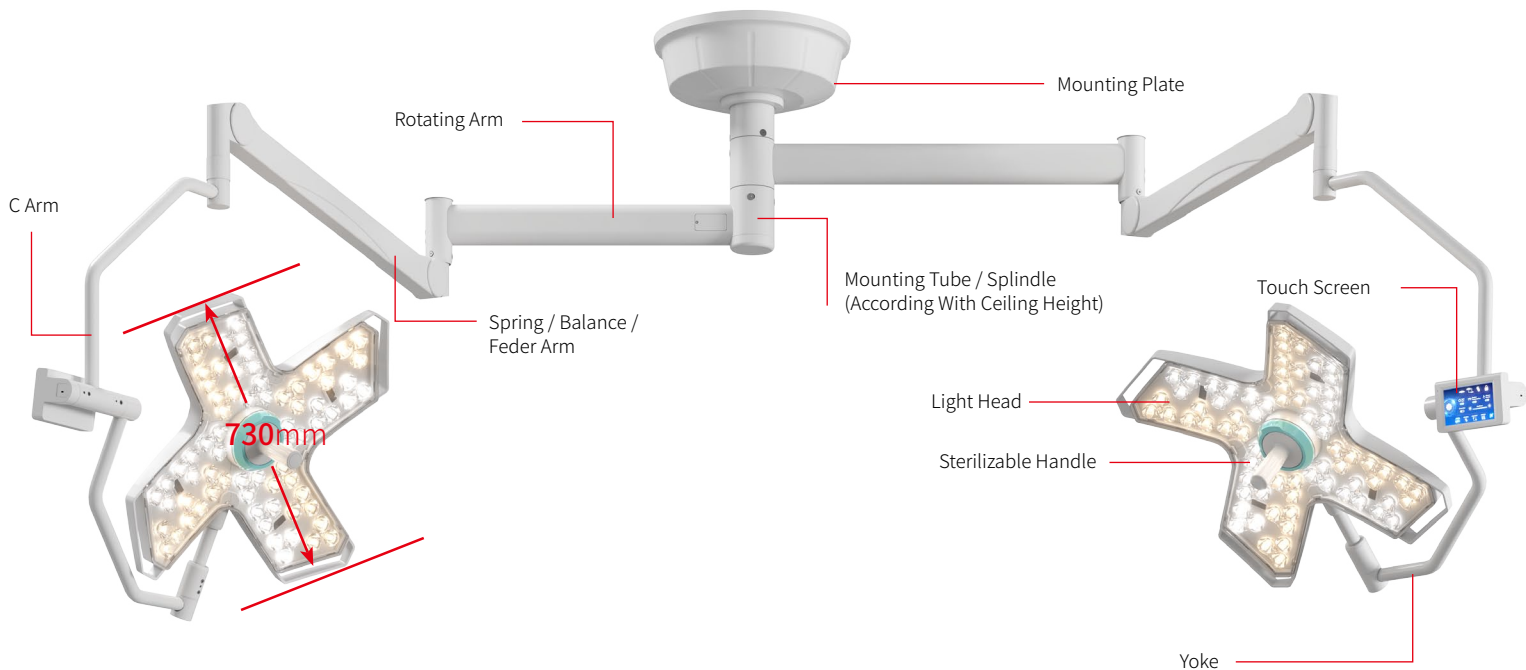


STANDARD CONFIGURATION

5-inch full-screen touch controller	●
Electronic focusing component	●
Red light compensation	●
Green light compensation	●
Three lighting modes: standard, endoscopic, and low-light	●
Shadow compensation	●

TECHNICAL SPECIFICATIONS

Central illuminance (Ec)	40000-160000 lx (10 levels)
Spot diameter (d10)	200-300mm (5 levels)
Spot distribution (d50/d10)	55%
Depth of the light column (60% of Ec)	700mm
Color temperature (Tc)	3500-5500K (11 levels)
Colour rendering index (Ra)	98
Maximum total irradiance (Ee)	≤550 W/m ²
Radiant energy (Ee/Ec)	≤3.5mW/(m ² .lx)



STRUCTURAL TECHNOLOGY

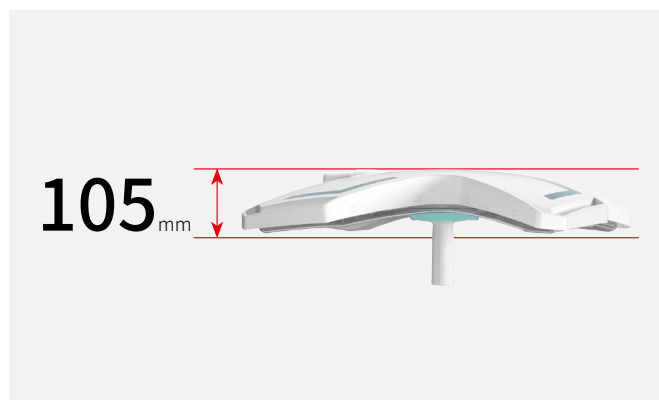
The lamp head adopts an integrated screw-free design, equipped with an integrated operation handle with the lamp head cover, and there is no splicing gap as a whole, which can effectively avoid contaminant residues, and can be directly wiped for disinfection, significantly reducing cleaning difficulty.

SPRAY COATING PROCESS

The entire surface is coated with environmentally friendly antibacterial plastic powder, certified by RoHS. A high-voltage electrostatic spraying process is used to ensure antibacterial properties.

ULTRA-THIN DESIGN

The lamp head features an ultra-thin design. It has a diameter of 730 mm and a thickness of 105 mm.



MATERIAL

The shell is made of ABS+PC material, making the whole product lightweight.

The internal light source components are composed of an ABS skeleton and an aluminum base plate structure, which provides excellent heat dissipation performance.

The weight of the lamp head (with the C-arm) is 10 kg, and the weight of the lamp head alone is only 5.2 kg, which is less than half of the existing models. This makes it easy to maneuver and extends the lifespan of the arms.

LIGHT-TRANSMITTING COVER

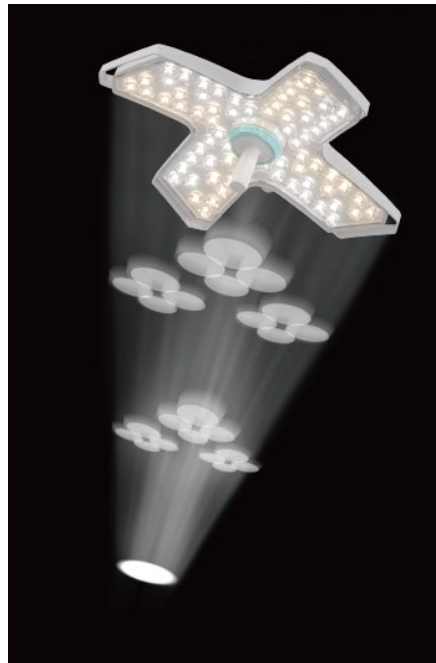
The curved, light-transmitting cover is made of PC material using an integrated molding process. It is heat-resistant up to 120-135°C, with impact resistance more than 10 times that of ordinary acrylic. It also offers strong chemical corrosion resistance, making it suitable for frequent wiping and disinfection.



FUNCTIONALITY

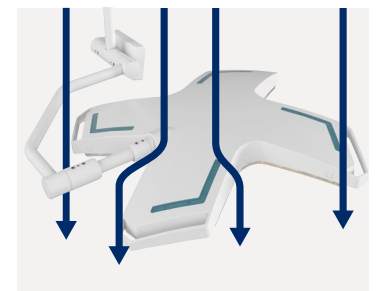
OSRAM BULB

It features original imported LED lamp beads from OSRAM, Germany, with an average lifespan exceeding 60,000 hours. Each lamp head is equipped with 24 sets of triangular lenses and 72 lamp beads. The use of triangular lenses enables multi-layer light spot superposition, ensuring uniform illumination.



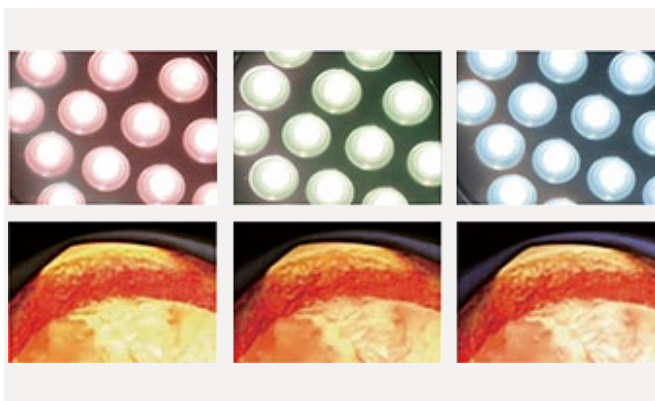
INDUCTION CONTROL DESIGN

Integrated screw-free design,
Laminar flow design,
Antibacterial coating.



COLOR TEMPERATURE&ILLUMINATION

Using an advanced LED cold light source, the illuminance reaches up to 160,000 Lux, and it can achieve 10-level adjustment. The color temperature ranges from 3500K to 5500K. While meeting the high - illuminance requirements, it can adjust the lighting parameters according to the different needs of surgeons, making the surgeons' perception of light soft and non-glare.



SPRING ARM

The standard spring arm is domestically manufactured, offering stable performance with an upward and downward folding angle of $\geq +45^\circ / -45^\circ$.

An imported spring arm of the Ondal brand is optionally available. The load capacity can reach 21/40 kg, with an upward and downward displacement of 1288 mm and an angle range of $-70^\circ / +45^\circ$.



5-INCH EXTRA-LARGE LCD TOUCH SCREEN

It is equipped with a 5-inch extra-large LCD touch screen and ultra-simple operation interface design.

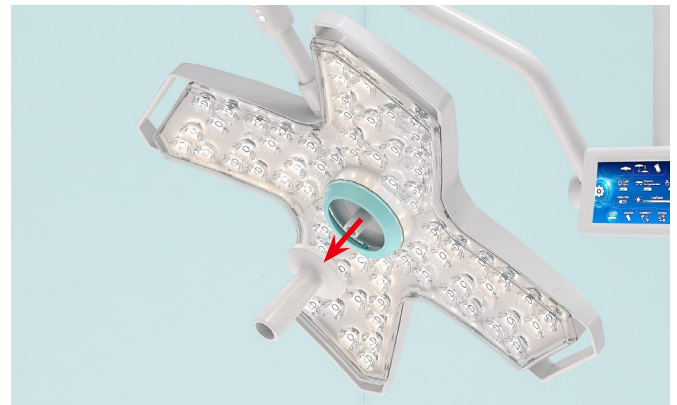
±30° display angle adjustment for different user heights.

Seamless design for easy disinfection.



OPERATING HANDLE

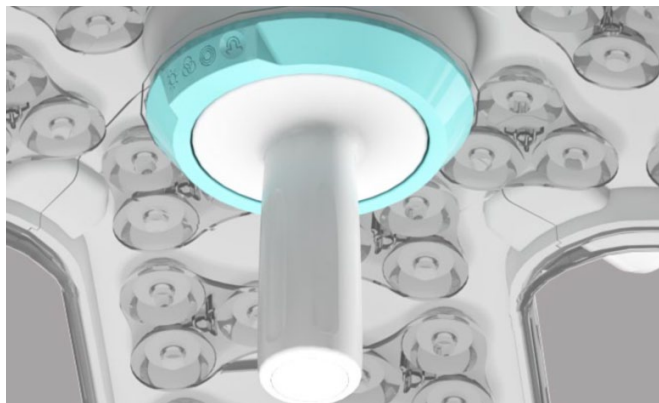
The centrally located operating handle is detachable. It is made of PPSU material, which can withstand a temperature of not less than 134°C and a high pressure of not less than 205.8 kPa, making it suitable for sterilization by high-temperature and high-pressure steam.



STERILE CONTROL

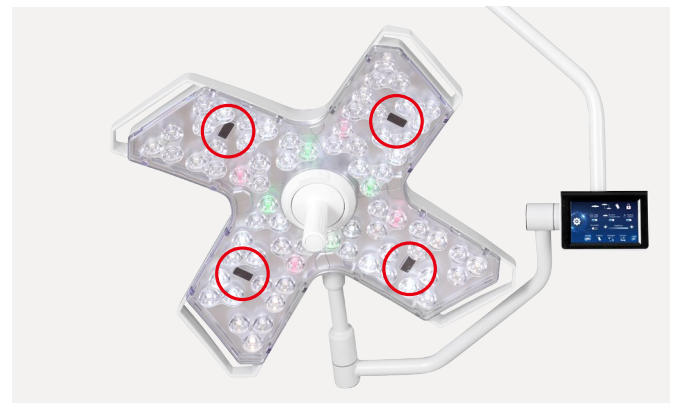
Integrate the most commonly used adjustment functions into the sterile handle to improve surgical efficiency.

It can adjust the color temperature, illuminance, and the size of the light spot, and also adjust the brightness of the soft ambient light.



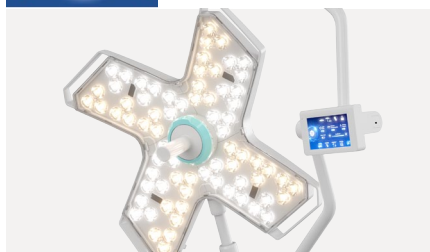
INTELLIGENT SHADOW MANAGEMENT

Sensors are installed in various parts inside the lamp head. When it detects that a certain part is blocked, the remaining lamp beads can gradually and actively supplement the light to ensure the illumination of the surgical field.



LIGHTING MODE

It has three lighting modes (standard, endoscopic, and low-light), as well as red light compensation, green light compensation, and shadow compensation.



STANDARD



ENDOSCOPIC



LOW-LIGHT

OPTIONAL

DIVERSIFIED CONTROL METHODS

Mutual control of dual lamp heads

In the case of a dual-lamp head setup, each lamp head's controller can adjust the settings of the other.



Assisted voice control

It supports assisted voice control through specified wake-up words and command words.

Voice control is supported in both Chinese and English.



Gesture sensing

By gesture-sensing system, it can achieve touch-free unlocking of the screen and adjustment of the central illuminance, which is convenient and quick.



Wireless terminal control

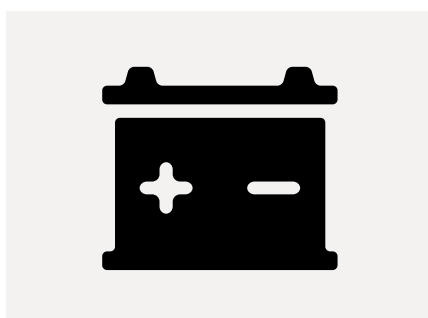
It adopts the 2.4G encrypted wireless transmission technology, with a transmission distance of not less than 20 meters, ensuring safety and reliability. It can also be installed as a wall control device.



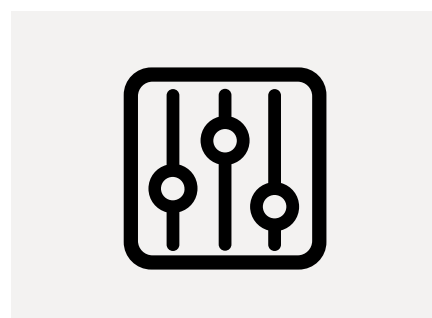
Centrally installed wireless camera shooting



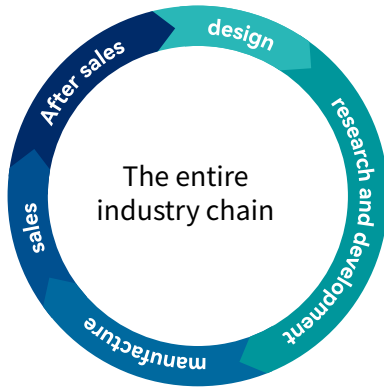
Storage battery



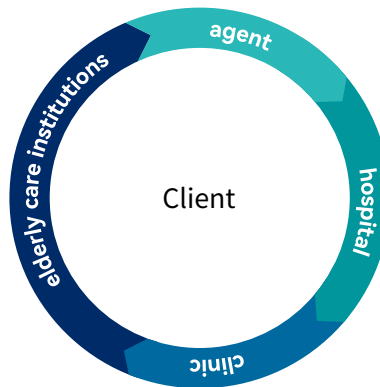
7-inch wired wall-mounted controller



Comprehensive Hospital Design Solutions



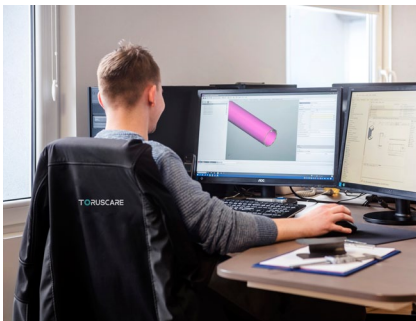
Toruscare has a complete industry chain targeting the global market.



Toruscare provides overall healthcare solutions.



Toruscare provides services for full coverage of target audiences.



Design and Development Excellence

At Toruscare, our strength lies in our robust design and development capabilities. Our dedicated team of engineers and designers continually push the boundaries of innovation, ensuring that our products are at the forefront of medical technology. From conceptualization to prototyping, we meticulously craft each product to meet the highest standards of functionality, durability, and ease of use.



Uncompromising Quality Control

Toruscare is deeply committed to quality, implementing stringent control measures at every manufacturing stage. Our state-of-the-art facilities, equipped with advanced testing and inspection tools, ensure each product meets rigorous standards. This dedication to excellence has earned the trust and loyalty of healthcare providers worldwide.



Global Reach, Local Touch

As a global company, Toruscare understands the diverse needs of different markets. We pride ourselves on our ability to deliver customized solutions that cater to the unique requirements of healthcare providers across the world. Our extensive distribution network and strategic partnerships ensure timely delivery and exceptional after-sales support, making us a trusted partner in the global healthcare community.



Care for All

TORUSCARE

Toruscare Sp. z o.o

Adress: UL. SPACEROWA 1C, 41-253 CZELADŹ, POLAND

Email: export@toruscare.com

Phone: +351 910200400