

# EPSIMED SURGICAL LIGHTS

## OL-100 Series

### Surgical Lights with LED Technology for Operation Room

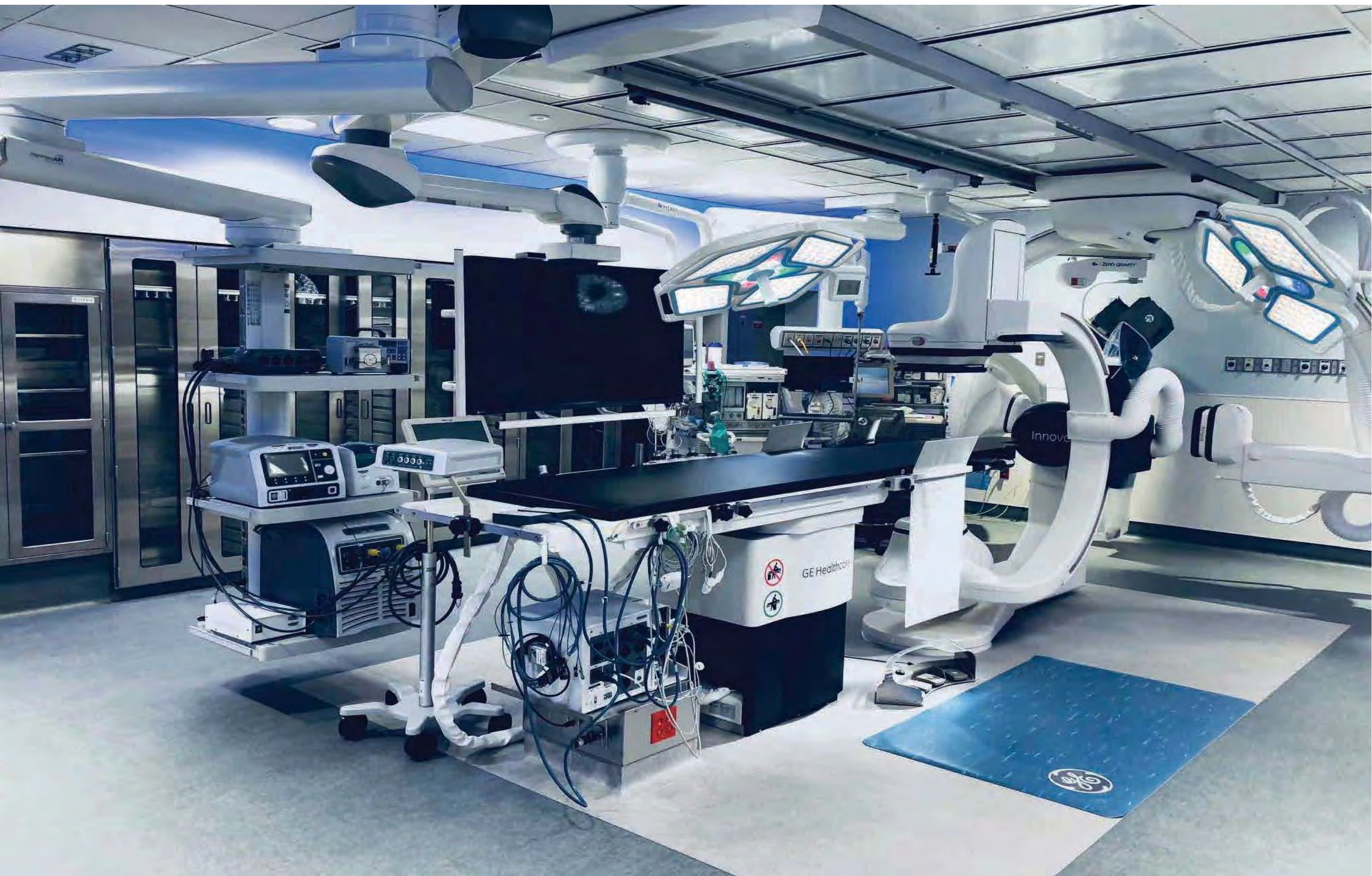
Demanding tasks require special solutions. With the innovative OL-100 surgical lights we give you all the benefits of cutting-edge LED technology, in a uniquely effective way. EPSIMED offers trendsetting light and system solutions that can be retrofitted easily and without special preparation. This includes, for example, the wireless equipping of your surgical lights with cameras.



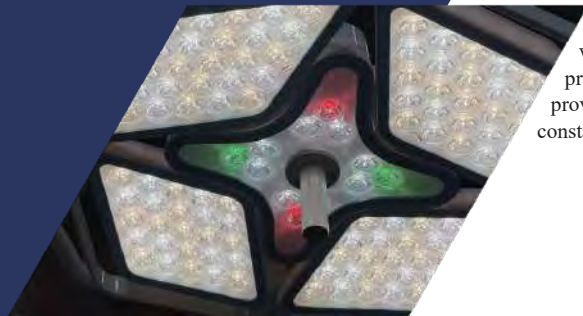
## Innovative and Different











### High quality LEDs

with the lowest infrared or ultraviolet emissions, protects the patient from drying out of the tissue and provides a high quality working condition with the constant high-class lighting temperature to the operator.



### Active Shadow Management

light precisely where you need it with OL-100 Active Shadow Optional Management is a fully automatic system for ensuring that light is always available exactly where it is needed.



### Perfect and even illumination

can be adjusted for any situation 112PCS powerful LEDs ensure that the surgical site always appears in the best light, literally. The conditions for a successful procedure are always ideal.

### OL-100-beam path for maximum variability

And that particularly applies to the surgical field and how it is illuminated. With its innovative beam path concept the OL-100 offers you a previously unattainable light field size from 15 cm to 35 cm.



### Your benefits at a glance:

- Warm white/cold white LEDs for brilliant, homogenous light
- Variable light field geometry and matrix light function
- Active Shadow Management for shadow-free illumination combined with excellent color rendering
- Maximum light field variability with innovative beam path concept

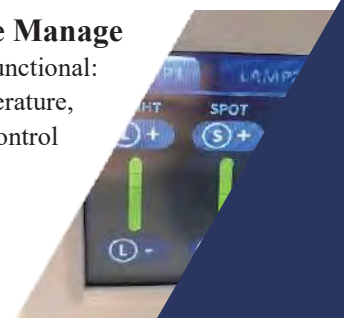


## OL-100 EXTREMELY FUNCTIONAL

You have options for operating OL-100. The control panel on the light for setting the main functions. You can use the touch-sensitive OL-100 controller to adjust every parameter for your specific requirements during the operation. And even better: you can set your own "personal light", the precise light settings that you prefer. You can also control all the functions of the OL-100 camera systems without difficulty. All completely intuitive with the self-explanatory, icon-based operation of the touch screen.

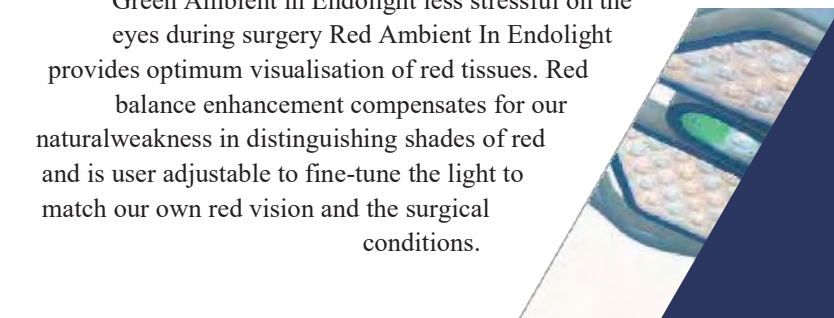
### Flexible Manage

4.3Inches TFT LCD Touch Screen With Functional:  
Light Intensity , Light Beam , Color Temperature,  
EndoLight Control



### Ambient Lights Balance

Green Ambient in Endolight less stressful on the eyes during surgery Red Ambient In Endolight provides optimum visualisation of red tissues. Red balance enhancement compensates for our natural weakness in distinguishing shades of red and is user adjustable to fine-tune the light to match our own red vision and the surgical conditions.



### Language Customization

OL-100 support different languages customization: Spanish, French, Russian, Portuguese, Arabic, German, Italian, Japanese, Korean etc.

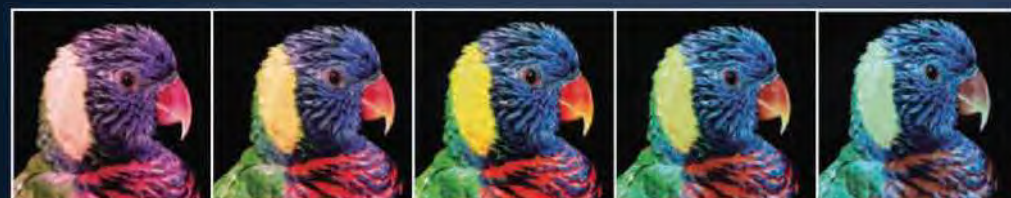






## MultiColours

Adjustable color control



3,000 K

4,000 K

4,500 K

5,000 K

5,800 K

OL-100 provides adjustable color temperature to optimize visualization of red tissues  
Color temperature is variable from 3000K-5800K

### Clear Visualization For Better Results

Improved Beam Technology Quick and Comfortable Usage Special lens technology designed for surgical lighting fully compatible with LED, provides homogeneous light field; when the light field is changed, the light intensity does not change.

- Multiple Light Beam Configuration for Shadowless Illumination
- Improved Beam Technology
- No flicker effect
- Quality Light
- Super Optical Performance
- 4.3" TFT LCD Touch Screen Panel.

- Memory function
- Easy to clean
- Endo Mode
- Ergonomic and practical design for Laminar Air Flow
- Quick and comfortable usage





# Maximum consistent

Adaptive color temperature combined with excellent color rendering – for a very natural view

The illuminance and the color temperature can be set precisely and retained in order to create and maintain a consistent ideal light situation and mood. The color rendering index is at the top level, as impressively confirmed by the outstanding quality of the OL-100 system



## Your benefits at a glance:

- Functional slimline design of the light housing
- Light-emitting area from genuine glass
- Easy-to-clean closed housing shape – therefore extremely hygienic
- Shape optimized for flow to prevent air turbulence
- Suitable for laminar air flow systems
- IP55: complete protection from dust deposits and moisture inside



OL-100

TECHNICAL SHEET

OL-100 is the intelligent solution for any operating theatre. The design is optimised for an OR’s air flow, improving air flow circulation in the operating area and reducing the potential for contamination. In addition, the Dynamic Obstacle Compensation of OL-100 automatically adapts to the shadows in the light field. Furthermore, Intuitive Sterile Surgeon Control makes surgical operations safer and more ergonomic for surgeons. The user interface design is simplicity itself – anyone can use it.



Model	OL-100.1/OL-100.1
Voltage	95-245V, 50/60HZ
Light Intensity at 1m (EC)	60,000-180,000/ 60,000 -180,000
Light Intensity Ajustable	0%-100%
Lamp Head Diameter(MM)	700/700
LED Bulb Quantity	112 + 112 PCS
Color temperature(Kelvin)	3,000 -5,800
Color rendering index Ra	96
Color rendering index R9	98
Spot Size Beam	150-350 / 150-350
Total Radiant Flux Density	364W/m²
Endo Ambient Lights	Green + Red
Endo Lights Quantity (PCS)	12 + 12
Light Intensity For Endo Lights	15%
Rated Power	220W
Depth of illumination (L1+L2) @ 60 %	750MM
Depth of illumination (L1+L2) @ 20 %	1400MM
Class Of Protective	IP55
Main Material	Aluminum Alloy
Rotation	540°
4.3” TFT LCD Touch Screen	Optional
Dynamic Obstacle Compensation	Optional
Back Up Rechargeable Battery	Optional
Internal Sony Camera 10X	Optional
Monitor (21Inches)	Optional
LED Brand	OSRAM

OL-100

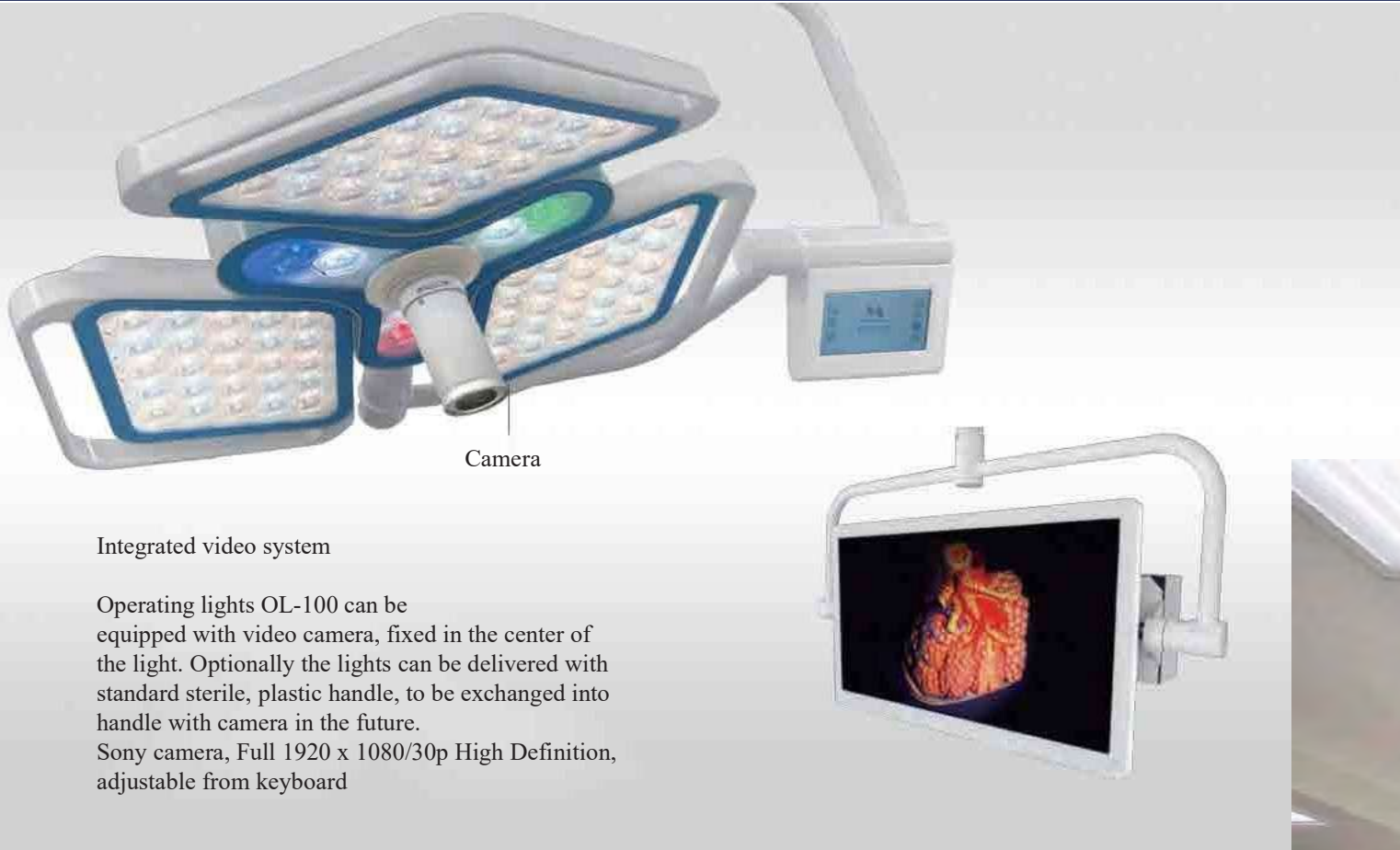
TECHNICAL SHEET

Each medical specialty requires particular and specific installations.The modular design of OL-100 surgical lighting with multiple associated products brings a unique architectural, tailor-made solution which precisely responds to both your current and futureneeds



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Voltage	95-245V, 50/60HZ	95-245V, 50/60HZ
Light Intensity at 1m (EC)	60,000-180,000	60,000-180,000
Light Intensity Ajustable	0%-100%	0%-100%
Lamp Head Diameter(MM)	700	700
LED Bulb Quantity	112 PCS	112 PCS
Color temperature(Kelvin)	3,000 -5,800	3,000 -5,800
Color rendering index Ra	96	96
Color rendering index R9	98	98
Spot Size Beam	150-350	150-350
Total Radiant Flux Density	364W/m²	364W/m²
Endo Ambient Lights	Green + Red	Green + Red
Endo Lights Quantity (PCS)	12	12
Light Intensity For Endo Lights	15%	15%
Rated Power	110W	110W
Depth of illumination (L1+L2) @ 60 %	750MM	750MM
Depth of illumination (L1+L2) @ 20 %	1400MM	1400MM
Class Of Protective	IP55	IP55
Main Material	Aluminum Alloy	Aluminum Alloy
Rotation	540°	540°
4.3” TFT LCD Touch Screen	Optional	Optional
Dynamic Obstacle Compensation	Optional	Optional
Back Up Rechargeable Battery	Optional	Optional
Internal Sony Camera 10X	Optional	Optional
Monitor (21Inches)	Optional	Optional
LED Brand	OSRAM	OSRAM

# Additional Equipment and Functions



### High Image Quality

- Camera With 10X Optical Zoom With 1950\*1080P HD resolution
- Finely Textured Images With Clear, Sharp Colors
- Remarkably Better Colors For Better Attention To Detail And A Brilliant Rendition



### Ultra High Definition

- Exmor R Sensor - Clearer Images In Every Condition
- Twice As Sensitive As Conventional Sensors
- Higher Image Quality In Low Light Conditions

### Easy Handling

- Easy Installation And Modification Or Retrofitting Of Existing OR Light Sustersms
- Mechanical And Electronical Image Rotation
- Flexible And Indepent Operation Via Remote Control
- Optional Operation Via Wall Control Unit



Camera Specifications	Details
Image Device	1/2.8 type Exmor™ CMOS sensor (SONY Brand)
Effective Pixels	Approx. 2 million
Digital Zoom	12X Optical Zoom
Horizontal Viewing Angle	54.1° (wide end) to 2.9° (tele end)
Sync System	Internal
Electronic Shutter	1/2 to 1/10,000 s
White Balance	Auto
Focus System	Auto
Exposure Control	AE Control: Auto, Manual, Priority (shutter priority and iris priority)
Video Output	Details
Lens Value	10x Optical Zoom, f=4.7 mm (wide) ~ 94.0 mm (tele), f1.6 to f3.5
S/N Ratio More	More than 50 dB
Signal System	Signal System HD: 1080p/29.97, 1080p/25, 1080i/59.94, 1080i/50, 720p/50, 720p/29.97, 720p/25 SD: NTSC/PAL



# CONSISTENTLY TOP-NOTCH PRODUCT QUALITY

In recent years, we have developed to become one of the world's leading producers of hospital solutions. We operate and produce according to our philosophy "Pushing Technology to Excellence" at all times. Our work is based on three pillars: innovation, global footprint



## Innovative solutions

For EPSIMED, innovation means adding value to the customer. EPSIMED products provide a great deal of flexibility, and our numerous patents are testament to their exceptional level of technical innovation; these qualities have helped EPSIMED become a key company in medical technology.



## Diversification

EPSIMED has continuously been developing new and innovative products since its foundation, always in line with EPSIMED's philosophy as a solution provider for the hospital with focus on the OR.



## Global

As an internationally operating company, we sell in more than 25 countries-world wide.



## Cooperation

Being a reliable business partner

# WE OFFER EXCELLENCE FOR YOUR HOSPITAL

As a surgical lighting solution provider, EPSIMED has more than 20 years of experience, great innovative capacity and invaluable know-how for medical technology solutions. Thank to our proximity to our customers and understanding of their needs, we guarantee you excellent products.



## EPSIMED



ISO 13485:2016

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