

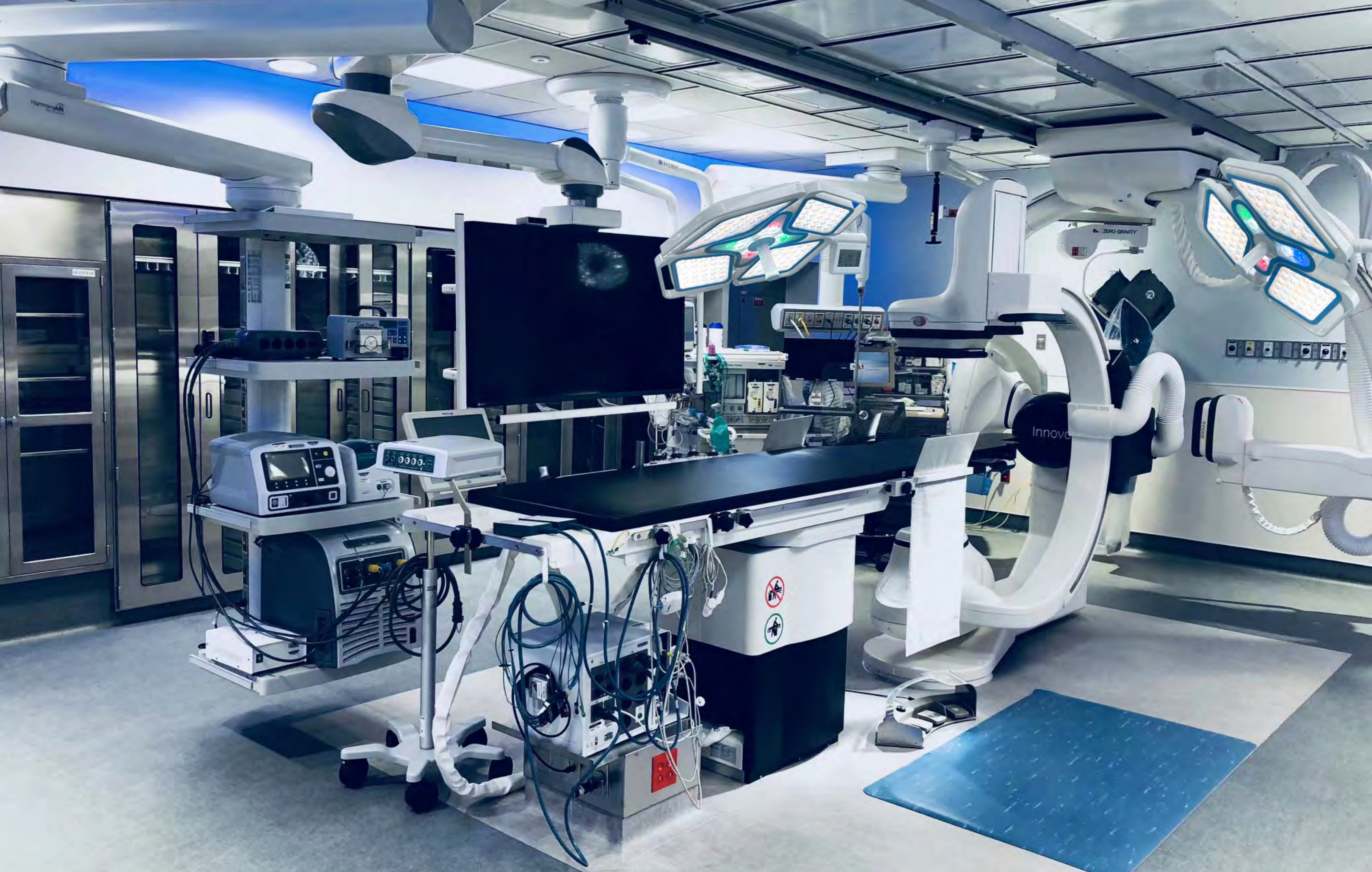
— MICARE LIGHTING
PUSHING TECHNOLOGY TO EXCELLENCE

MAX-LED Hybrid Room OR Light — UNIQUE DESIGN FOR IDEAL LIGHTING

Demanding tasks require special solutions. With the innovative MAX-LED surgical lights we give you all the benefits of cutting-edge LED technology, in a uniquely effective way. MICARE 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.

MAX INNOVATIVE & DIFFERENT





HarmonyAIR

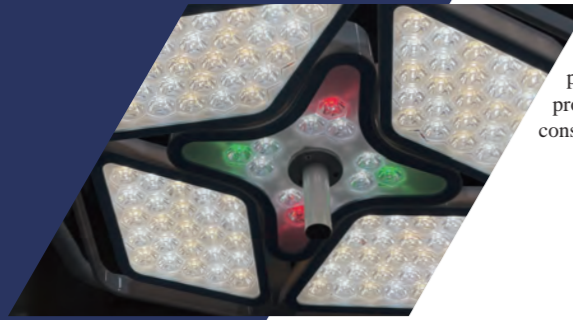
STERIS

ZERO-GRAVITY

Innov

ROBOTECH





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.

MAX-TREMELY FUNCTIONAL

You have options for operating MAX-LED. The control panel on the light for setting the main functions. You can use the touch-sensitive MAX-LED 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 MAX-LED camera systems without difficulty. All completely intuitive with the self-explanatory, icon-based operation of the touch screen.



Active Shadow Management
light precisely where you need it with MAX-LED. 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.

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.



MAX-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 MAX-LED offers you a previously unattainable light field size from 15 cm to 35 cm.



Language Customization
MAX LED support different languages customization: Spanish, French, Russian, Portuguese, Arabic, German, Italian, Japanese, Korean etc.



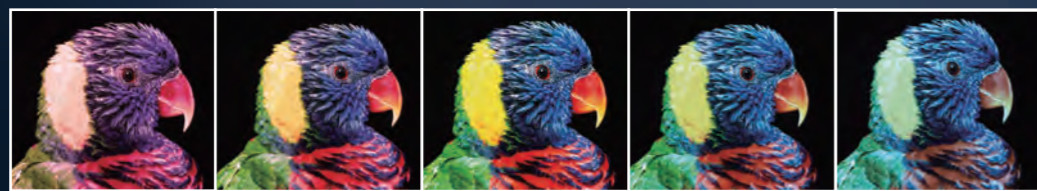
Your benefits at a glance:

- 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



 Multi Colours

Adjustable color control



3,000 K

4,000 K

4,500 K

5,000 K

5,800 K

MAX-LED 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
- Laminar Air Flow
- Quick and comfortable usage
- Extra Protection

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 MAX-LED 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

MAX-LED

TECHNICAL SHEET

MAX-LED 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 MAX-LED 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	E700/700	E700/500	E500/500
Voltage	95-245V, 50/60HZ	95-245V, 50/60HZ	95-245V, 50/60HZ
Light Intensity at 1m (EC)	60,000-180,000/ 60,000 -180,000	60,000-180,000 / 40,000 -160,000	40,000-160,000/ 40,000 -160,000
Light Intensity Ajustable	0%-100%	0%-100%	0%-100%
Lamp Head Diameter(MM)	700/700	700/700	700/700
LED Bulb Quantity	112 + 112 PCS	112 + 82 PCS	82 + 82 PCS
Color temperature(Kelvin)	3,000 -5,800	3,000 -5,800	3,000 -5,800
Color rendering index Ra	96	96	96
Color rendering index R9	98	98	98
Spot Size Beam	150-350 / 150-350	150-350 / 90-280	90-280 / 90-280
Total Radiant Flux Density	364W/m ²	364W/m ²	364W/m ²
Endo Ambient Lights	Green + Red	Green + Red + Blue	Green + Red + Blue
Endo Lights Quantity (PCS)	12 + 12	12 + 6	6 + 6
Light Intensity For Endo Lights	15%	12%	10%
Rated Power	220W	190W	160W
Depth of illumination (L1+L2) @ 60 %	750MM	700MM	650MM
Depth of illumination (L1+L2) @ 20 %	1400MM	1300MM	1200MM
Class Of Protective	IP55	IP55	IP55
Main Material	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy
Rotation	540°	540°	540°
4.3" TFT LCD Touch Screen	Optional	Optional	Optional
Dynamic Obstacle Compensation	Optional	Optional	Optional
Back Up Rechargeable Battery	Optional	Optional	Optional
Internal Sony Camera 10X	Optional	Optional	Optional
Monitor (21Inches)	Optional	Optional	Optional
LED Brand	OSRAM	OSRAM	OSRAM

MAX-LED

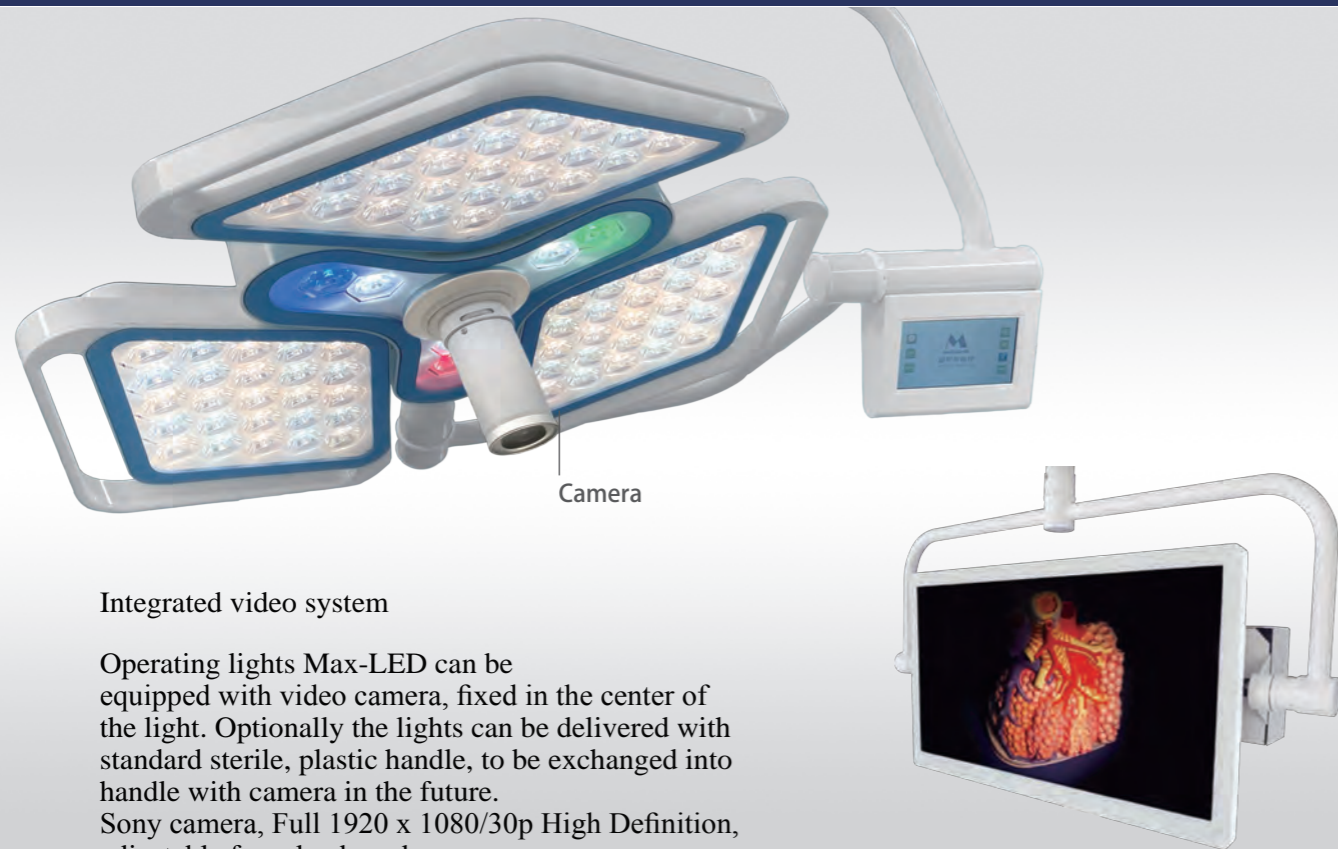
TECHNICAL SHEET

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



Model	E700	E500	E700L	500L
Voltage	95-245V, 50/60HZ	95-245V, 50/60HZ	95-245V, 50/60HZ	95-245V, 50/60HZ
Light Intensity at 1m (EC)	60,000-180,000	40,000 -160,000	60,000-180,000	40,000 -160,000
Light Intensity Ajustable	0%-100%	0%-100%	0%-100%	0%-100%
Lamp Head Diameter(MM)	700	700	700	700
LED Bulb Quantity	112 PCS	82 PCS	112 PCS	82 PCS
Color temperature(Kelvin)	3,000 -5,800	3,000 -5,800	3,000 -5,800	3,000 -5,800
Color rendering index Ra	96	96	96	96
Color rendering index R9	98	98	98	98
Spot Size Beam	150-350	90-280	150-350	90-280
Total Radiant Flux Density	364W/ m ²	364W/ m ²	364W/ m ²	364W/ m ²
Endo Ambient Lights	Green + Red	Green + Red + Blue	Green + Red	Green + Red + Blue
Endo Lights Quantity (PCS)	12	6	12	6
Light Intensity For Endo Lights	15%	12%	15%	12%
Rated Power	110W	80W	110W	80W
Depth of illumination (L1+L2) @ 60 %	750MM	700MM	750MM	700MM
Depth of illumination (L1+L2) @ 20 %	1400MM	1300MM	1400MM	1300MM
Class Of Protective	IP55	IP55	IP55	IP55
Main Material	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy
Rotation	540°	540°	540°	540°
4.3" TFT LCD Touch Screen	Optional	Optional	Optional	Optional
Dynamic Obstacle Compensation	Optional	Optional	Optional	Optional
Back Up Rechargeable Battery	Optional	Optional	Optional	Optional
Internal Sony Camera 10X	Optional	Optional	Optional	Optional
Monitor (21Inches)	Optional	Optional	Optional	Optional
LED Brand	OSRAM	OSRAM	OSRAM	OSRAM

Additional Equipment and Functions



Camera

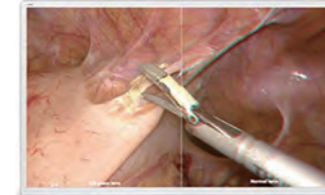
Integrated video system

Operating lights Max-LED can be equipped with video camera, fixed in the center of the light. Optionally the lights can be delivered with standard sterile, plastic handle, to be exchanged into handle with camera in the future. Sony camera, Full 1920 x 1080/30p High Definition, adjustable from keyboard.

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

High Image Quality

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

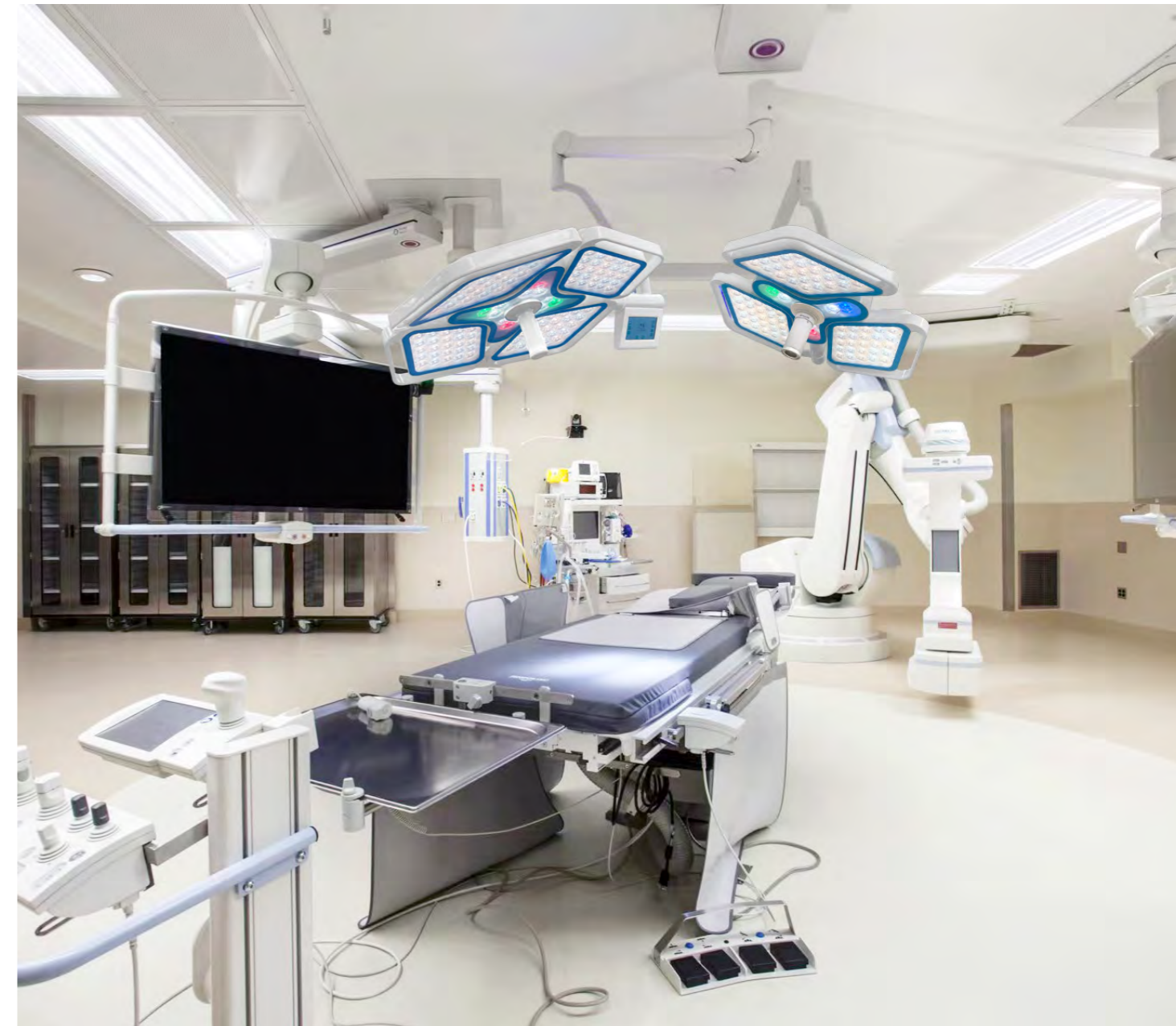


Ultra High Definition

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

Easy Handling

- Easy Installation And Modification Or Retrofitting Of Existing OR Light Systems
- Mechanical And Electronical Image Rotation
- FI:exible And Indepent Operation Via Remote Control
- Optional Operation Via Wall Control Unit



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



Diversification

MICARE has continuously been developing new and innovative products since its foundation, always in line with MICARE'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 90 countries-world wide.



Cooperation

Being a reliable business partner



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**CE, ISO13485, ISO9001, FDA,
FREE SALE CERTIFICATE**

MICARE MEDICAL WE OFFER EXCELLENCE FOR YOUR HOSPITAL

As a surgical lighting solution provider, MICARE Medical 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.