

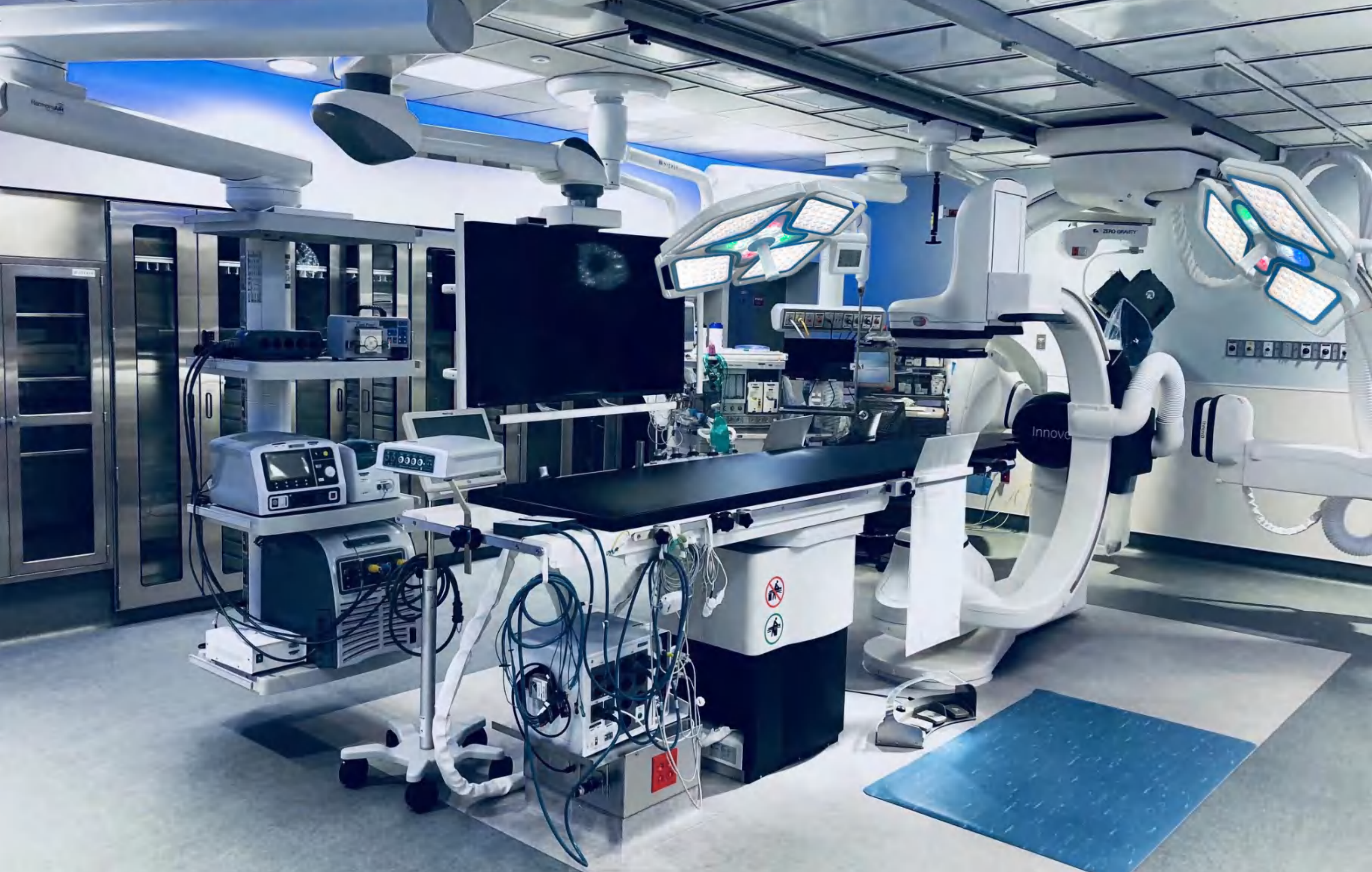
____ MICARE LIGHTING
PUSHING TECHNOLOGY TO EXCELLENCE

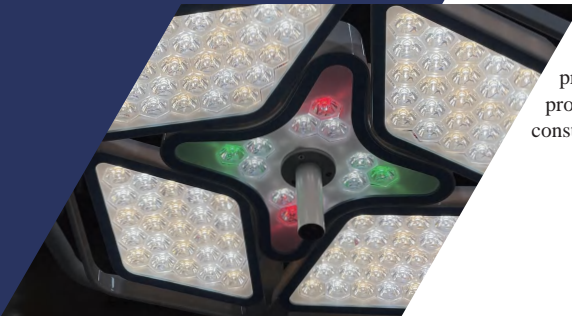
MAX-LED Hybrid Room OR Light — UNIQUE DESIGN FOR IDEAL LIGHTING

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







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 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.

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.



Your benefits at a glance:

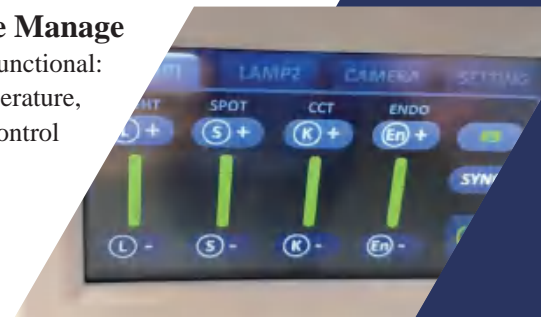
- Warm white/cold white LEDs for brilliant, homogenous light
- Variable light field geometry and matrix light function
- Active Shadow Management for shadow-free illumination
- combined with excellent color rendering
- Maximum light field variability with innovative beam path concept
- SYNC Mode Control optional to provide easy working for 2lamps
- Wireless infrared remote control optional

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.

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

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





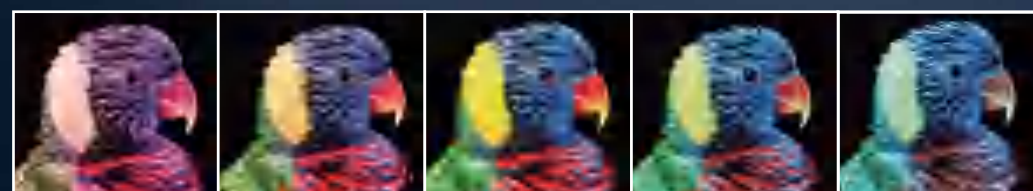
Clear Visualization For Better Results

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.



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.

- 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 Compensationof 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)	60,000-160,000/ 60,000 -160,000 Lux	60,000-160,000 / 40,000 -140,000 Lux	40,000-140,000/ 40,000 -140,000 Lux
Light Intensity Ajustable	10%-100%	10%-100%	10%-100%
Lamp Head Diameter(MM)	650/650	650/650	650/650
LED Bulb Quantity	112 + 112 PCS	112 + 82 PCS	82 + 82 PCS
Color temperature(Kelvin)	3,000 -5,800K	3,000 -5,800K	3,000 -5,800K
Color rendering index Ra	96	96	96
Color rendering index R9	98	98	98
Spot Size Beam	150-350 / 150-350	150-350 / 120-280	120-280 / 120-280
Total Radiant Flux Density	364W/m²	364W/m²	364W/m²
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	Standard	Standard	Standard
Dynamic Obstacle Compensation	Optional	Optional	Optional
Back Up Rechargeable Battery	Optional	Optional	Optional
Internal Sony Camera 20X	Optional	Optional	Optional
Remote / Wall Control	Optional	Optional	Optional
LED Brand	OSRAM	OSRAM	OSRAM

MAX-LED

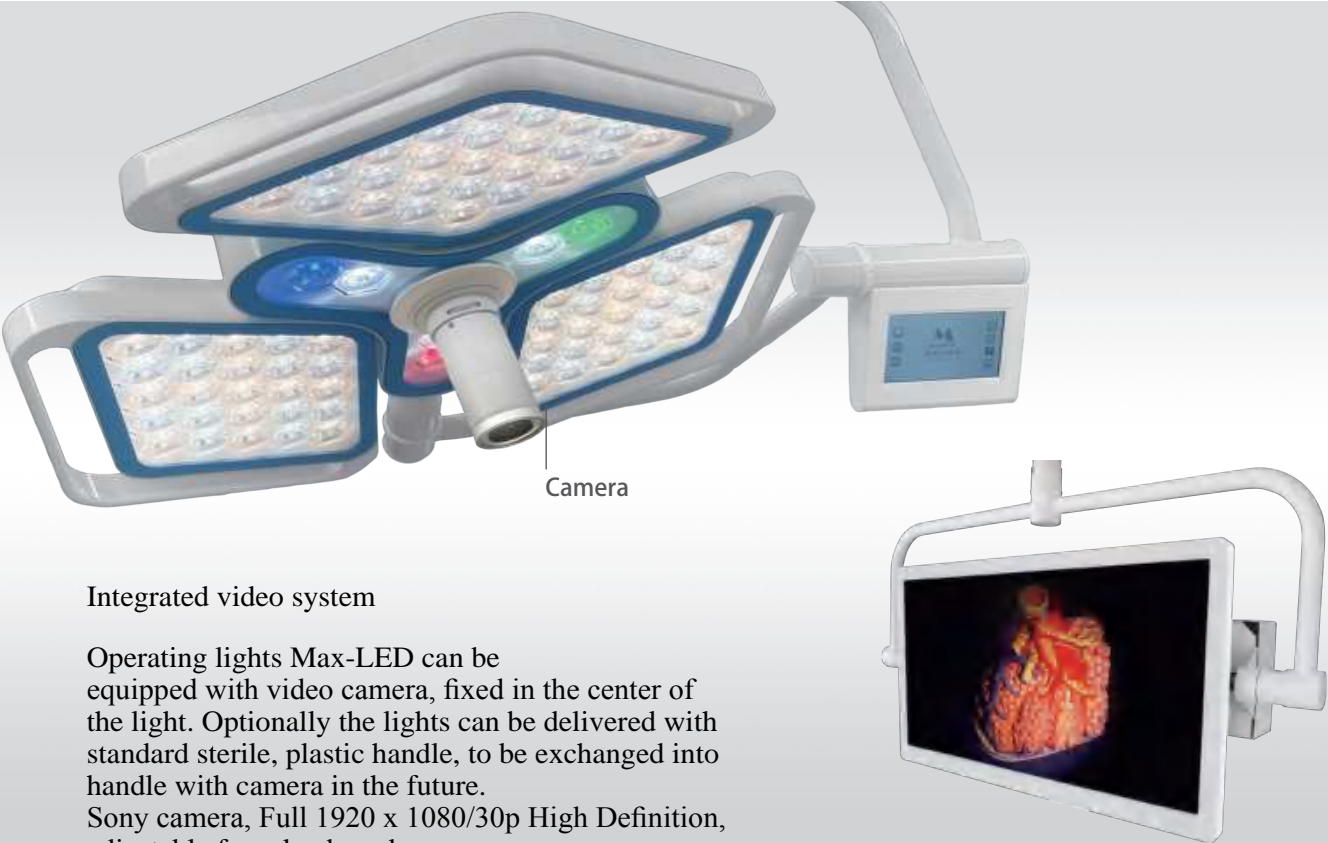
TECHNICAL SHEET

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)	60,000-160,000 Lux	40,000 -140,000 Lux	60,000-160,000 Lux	40,000 -140,000 Lux
Light Intensity Ajustable	10%-100%	10%-100%	10%-100%	10%-100%
Lamp Head Diameter(MM)	650	650	650	650
LED Bulb Quantity	112 PCS	82 PCS	112 PCS	82 PCS
Color temperature(Kelvin)	3,000 -5,800K	3,000 -5,800K	3,000 -5,800K	3,000 -5,800K
Color rendering index Ra	96	96	96	96
Color rendering index R9	98	98	98	98
Spot Size Beam	150-350	120-280	150-350	120-280
Total Radiant Flux Density	364W/ m²	364W/ m²	364W/ m²	364W/ m²
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	Standard	Standard	Standard	Standard
Dynamic Obstacle Compensation	Optional	Optional	Optional	Optional
Back Up Rechargeable Battery	Optional	Optional	Optional	Optional
Internal Sony Camera 20X	Optional	Optional	Optional	Optional
Remote / Wall Control	Optional	Optional	Optional	Optional
LED Brand	OSRAM	OSRAM	OSRAM	OSRAM

Additional Equipment and Functions



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	20X Optical Zoom, 12X Digital 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	20x 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 20X Optical Zoom With 1920*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

- Exnmor 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 Sustems
- 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



NANCHANG MICARE MEDICAL EQUIPMENT CO.,LTD.

Tel: 86-791-88127989

Add: Yaohu West 5th Road, Hi-Tech Zone, Nanchang, Jiangxi, China

**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.



MICARE MULTI-COLOR LED

- Clean Air Ceilings
- True Colors And Dimming
- Lighting With Endoscopic Procedures
- Limitless Service Life
- Excellent Color Properties

MICARE IN THE OR

MICARE Surgical Solutions creates state-of-the-art products to ensure the greatest possible clinical experience. Our second generation,

MICARE MULTI COLOR LED Surgical Lighting System brings the highest LED technology to the Operating Room.

The multi-color surgical light is designed for superior shadow control and optimum light intensity, along with offering diverse, color temperatures to accurately differentiate between tissues. The slim design and laminar flow openings promote airflow, allow for effortless maneuvering of the light, and is attached to a durable suspension system to eliminate drifting. The design was created with exceptional infection control features to prevent the spread of bacteria.

the OR booms to assist clinical staff to safely reposition and transfer patients, ensuring the best possible outcomes in your OR.

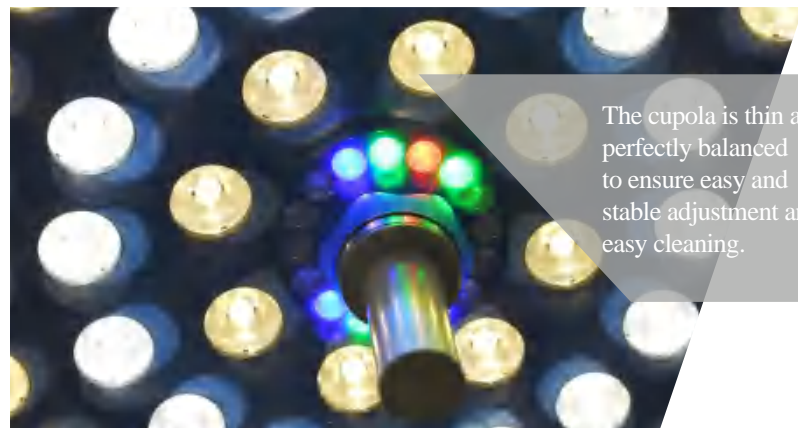
DETERMINATION AND PASSION, THE ART OF INNOVATION

700 500
MULTI COLOR LED
MICARE

A new way to illuminate the operating room

With the introduction of MICARE LED lights, the multi-color surgical lights has now been expanded.

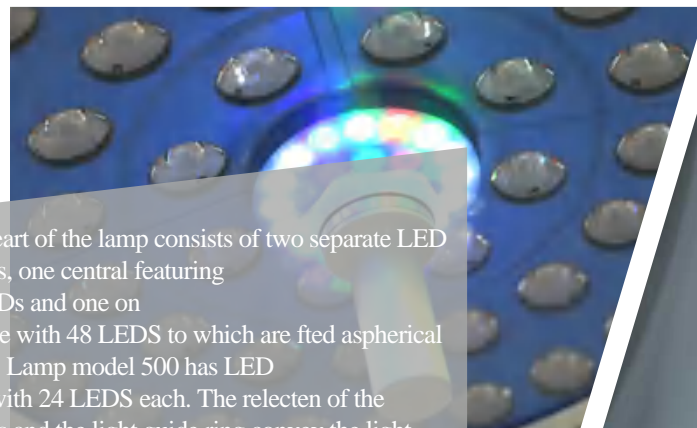
MICARE now has the most extensive selection of products for illuminating the surgical field that can meet any user's requirements and preferences. The innovative MICARE multi-color LED lights have ultra-modern, high-performance LEDs to provide outstanding illumination of the surgical field.



The cupola is thin and perfectly balanced to ensure easy and stable adjustment and easy cleaning.

MICARE MULTI-COLOR LED

The electronics controls the power functions, light adjustment, colour temperature change, change of light diameter in two widths, endoscopy light and courtesy light.



The heart of the lamp consists of two separate LED circuits, one central featuring 16 LEDs and one on the side with 48 LEDs to which are fitted aspherical lenses. Lamp model 500 has LED cruts with 24 LEDs each. The relecten of the mirrors and the light guide ring convey the light flow to the established point without dispersion.



The sterilizable handle is equipped with a capacitive system for light adjustment, operated by the surgeon in the sterile area. A longitudinal guide on the handle helps the surgeon to identify sensor allocation without losing sight of the work area.



In the aluminium cupola and in the protective screen an ergonomic round grip is obtained to hold and move the lamp. The entire aluminium lamp body optimizes the LED thermal management and luminous efficacy, so as to maintain constant illuminance for the whole time the device is on without the aid of electronic processes.

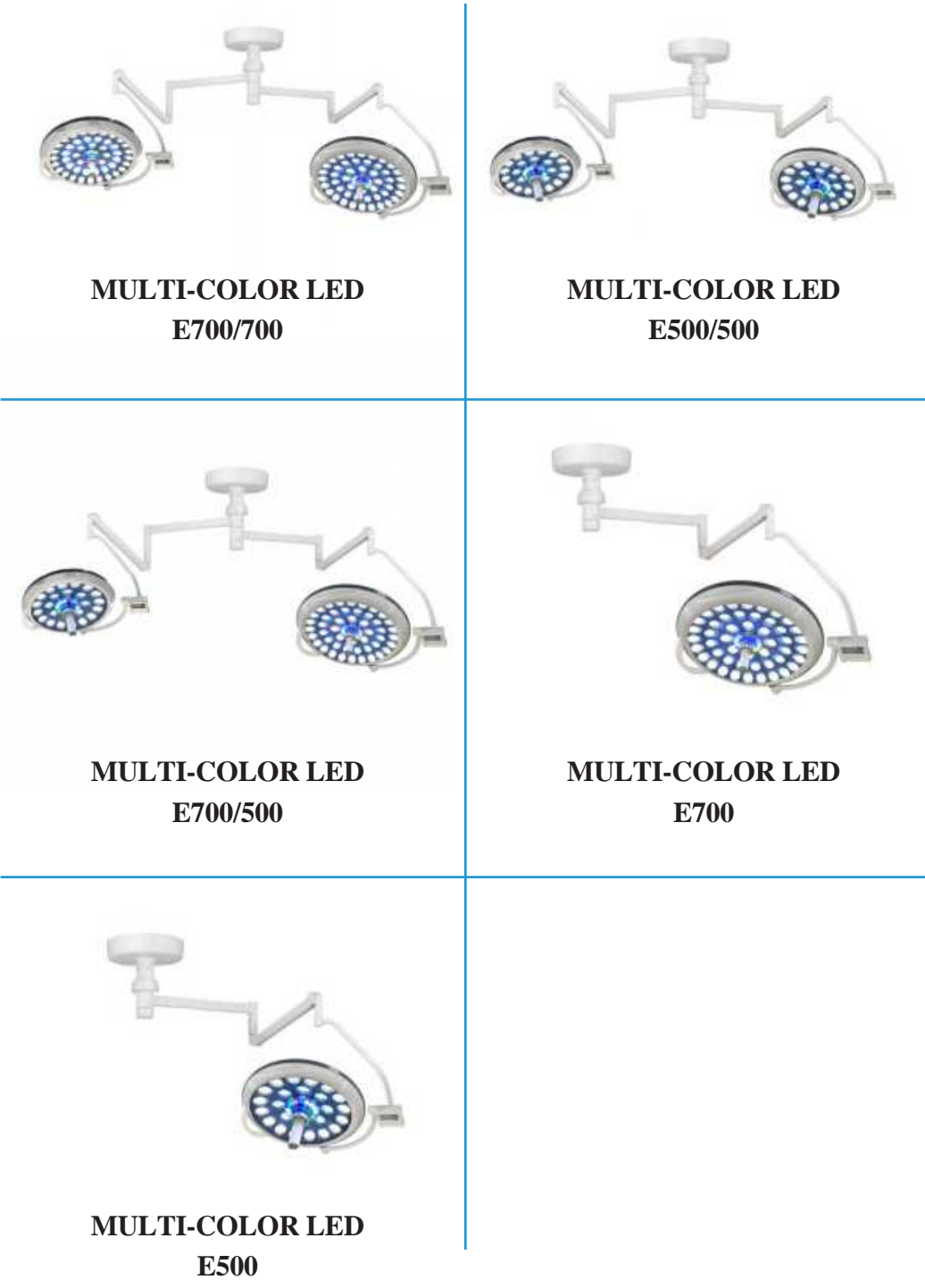
COLORFUL LIGHTS

4 colour temperatures with white LEDs only to avoid annoying coloured shadows.



TECHNICAL SHEET

MICARE MULTI-COLOR LED



Model	E700/700	E700/500	E500/500	E700	E500
Voltage	95~245V , 50/60HZ	95~245V , 50/60HZ	95~245V , 50/60HZ	95~245V , 50/60HZ	95~245V , 50/60HZ
Illuminance at distance of 1 m(LUX)	60,000-180,000/60,000-180,000	60,000-180,000/40,000-160,000	40,000-160,000/40,000-160,000	60,000-180,000	40,000-160,000
Brightness Adjustable	0-100%	0-100%	0-100%	0-100%	0-100%
Lamp Head Diameter	700MM/700MM	700MM/500MM	500MM/500MM	700MM	500MM
Quantity Of LEDS	64PCS/64PCS	64PCS/40PCS	40PCS/40PCS	64PCS	40PCS
Color Temperature Adjustable	3800-5500K	3800-5500K	3800-5500K	3800-5500K	3800-5500K
Color rendering index Ra	96	96	96	96	96
Color rendering index R9(Red)	98	98	98	98	98
Light Field Size Adjustable	150-350MM/150-350MM	150-350MM/120-280MM	120-280MM/120-280MM	150-350MM	120-280MM
Total radiant flux density	364W/m2	364W/m2	364W/m2	364W/m2	364W/m2
Endoscopy Mode	YES	YES	YES	YES	YES
Endoscopy Mode LEDS	16PCS/16PCS	16PCS/16PCS	16PCS/16PCS	16PCS	16PCS
Illumination For Endo-Mode	20%	35%	30%	20%	25%
LED service life	80,000hrs	80,000hrs	80,000hrs	80,000hrs	80,000hrs
Main Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Rotating Angle Of Arm	>540°	>540°	>540°	>540°	>540°
LED Bulb Power	1w Each Pc	1w Each Pc	1w Each Pc	1w Each Pc	1w Each Pc
Input Power	400w	400w	400w	400w	400w
Operating element	Key Board	Key Board	Key Board	Key Board	Key Board
Light head protection rating	IP54+FireProof	IP54+FireProof	IP54+FireProof	IP54+FireProof	IP54+FireProof
Depth of illumination L1+12	1400MM	1200MM	1100MM	1400MM	1100MM
LED Bulb Size	37MM	37MM	37MM	37MM	37MM
Packing	3 Wooden Cartons	3 Wooden Cartons	3 Wooden Cartons	3 Wooden Cartons	3 Wooden Cartons
LCD Touch Screen 4.3Inches	Optional	Optional	Optional	Optional	Optional
Back Up Battery (4-6hrs)	Optional	Optional	Optional	Optional	Optional
Dynamic Obstacle Compensation	Optional	Optional	Optional	Optional	Optional
Internal/External Sony Camera (20X)	Optional	Optional	Optional	Optional	Optional
Monitor With Extra Arm(22 Inches)	Optional	Optional	Optional	Optional	Optional
Remote Control	Optional	Optional	Optional	Optional	Optional



TECHNICAL SHEET

MICARE MULTI-COLOR LED



MULTI-COLOR LED
E700L



MULTI-COLOR LED
E700L+BATTERY



MULTI-COLOR LED
E500L



MULTI-COLOR LED
E500L+BATTERY

Model	E700L	E500L
Voltage	95~245V , 50/60HZ	95~245V , 50/60HZ
Illuminance at distance of 1 m(LUX)	60,000-180,000	40,000-160,000
Brightness Adjustable	0-100%	0-100%
Lamp Head Diameter	700MM	500MM
Quantity Of LEDS	64PCS	40PCS
Color Temperature Adjustable	3800-5500K	3800-5500K
Color rendering index Ra	96	96
Color rendering index R9(Red)	98	98
Light Field Size Adjustable	150-350MM	120-280MM
Total radiant flux density	364W/m2	364W/m2
Endoscopy Mode	YES	YES
Endoscopy Mode LEDS	16PCS	16PCS
Illumination For Endo-Mode	20%	25%
LED service life	80,000hrs	80,000hrs
Main Material	Aluminum	Aluminum
Rotating Angle Of Arm	>540°	>540°
LED Bulb Power	1w Each Pc	1w Each Pc
Input Power	400w	400w
Operating element	Key Board	Key Board
Light head protection rating	IP54+FireProof	IP54+FireProof
Depth of illumination L1+12	1400MM	1100MM
LED Bulb Size	37MM	37MM
Packing	3 Wooden Cartons	3 Wooden Cartons
LCD Touch Screen (4.3Inches)	Optional	Optional
Back Up Battery (4-6hrs)	Optional	Optional
Dynamic Obstacle Compensation	Optional	Optional
Internal/External Sony Camera (20X)	Optional	Optional
Monitor With Extra Arm (22 Inches)	Optional	Optional
Remote Control	Optional	Optional

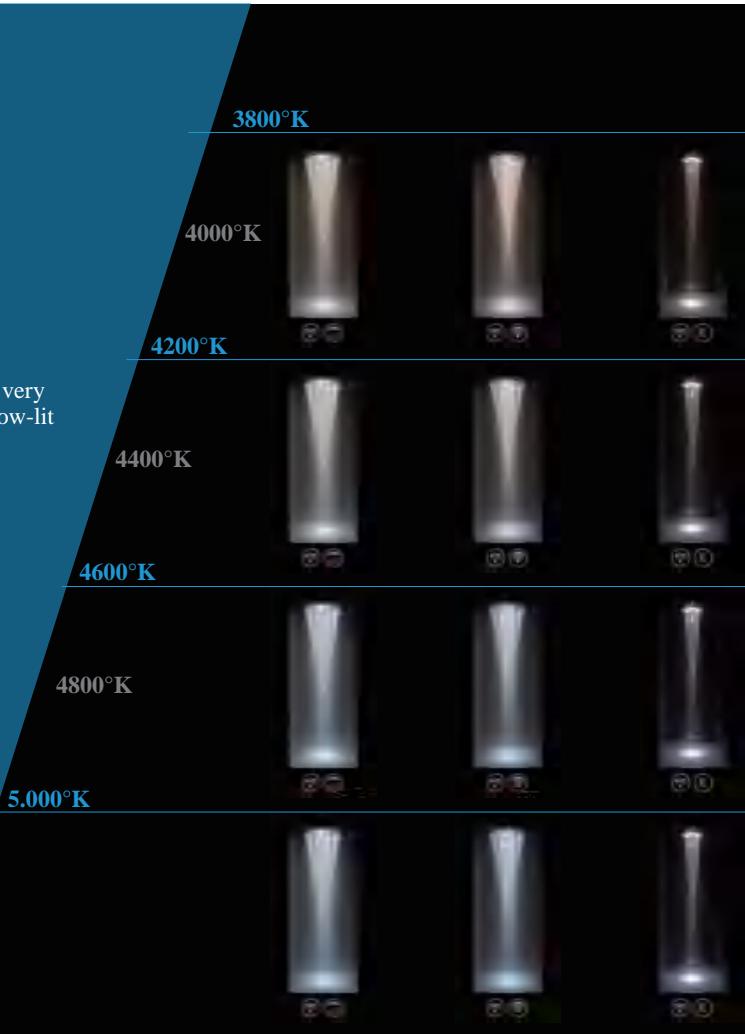


CREE MULTI-COLOR LED

With MICARE, light can be personalized in a very simple way

Particular attention has been devoted to visual impact. To avoid the feeling of blindness experienced when passing from a very well-lit area to a non-illuminated peripheral zone, an intermediate low-lit area has been created so the eye can adapt to light change.

MICARE uses white LEDs with colour temperatures - 3800K, 4000K, 4200K, 4400°K, 4600°K, 4800°K, 5000°K. It is also possible to select two diameters of the lit-up surface according to the specificity of the operation to be performed. An electronic system switches- on a group of extra LEDs which, reflected on the elliptical mirrors, creates two different light diameters. For endoscopy and concentrated operating field operations, the Endoled function is active, providing soft light, this too adjustable in intensity and tone, to light up the work area.



CAMERA (INTERNAL & EXTERNAL)
More Details, Better Visualization
Fascinating Images-With Clear, Sharp Contrours



High Image Quality

- Camera With 20X 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 Sustems
- Mechanical And Electronical Image Rotation
- Fl:exible And Indepent Operation Via Remote Control
- Optional Operation Via Wall Control Unit



IMAGE SENSOR	SONY 1/2 8TYPE “EXMOR” CMOS, SUPPORT PROGRESSIVE MODE
IMAGE SOLUTION	1920*1080P, APPROX, 2,140,000 PIXELS
VIDEO OUTPUTS	20X OPTICAL ZOOM, 12X DIGITAL ZOOM
ASPECT VIDEO	SDI
FOCUS OPERATING	16:9
WHITE BALANCE	MANUAL & AUTO
REMOTE CONTROL	AUTO, ATW, INDOOR, OUTDOOR, ONE, PUSH WB, MANUAL WB
WIRELESS REMOTE CONTROL	STANDARD ACCESSORIES
HARD DISK FOR STORE	1T
POWER	6.8W
VOLTAGE	DC12-30W, 1.5A
INSTALLATION	INTERNAL & EXTERNAL OPTIONAL
MONITOR	22INCHES (RECORD AND STORAGE INTERGRATED)
SOUND COLLECTION	OPTIONAL





E700/700
Internal Camera

E700/500
Internal Camera

E500/500
Internal Camera



E700
Internal Camera



E500
Internal Camera



E700
Internal Camera



E500
Internal Camera



E700/700
External Camera

E700/500
External Camera

E500/500
External Camera

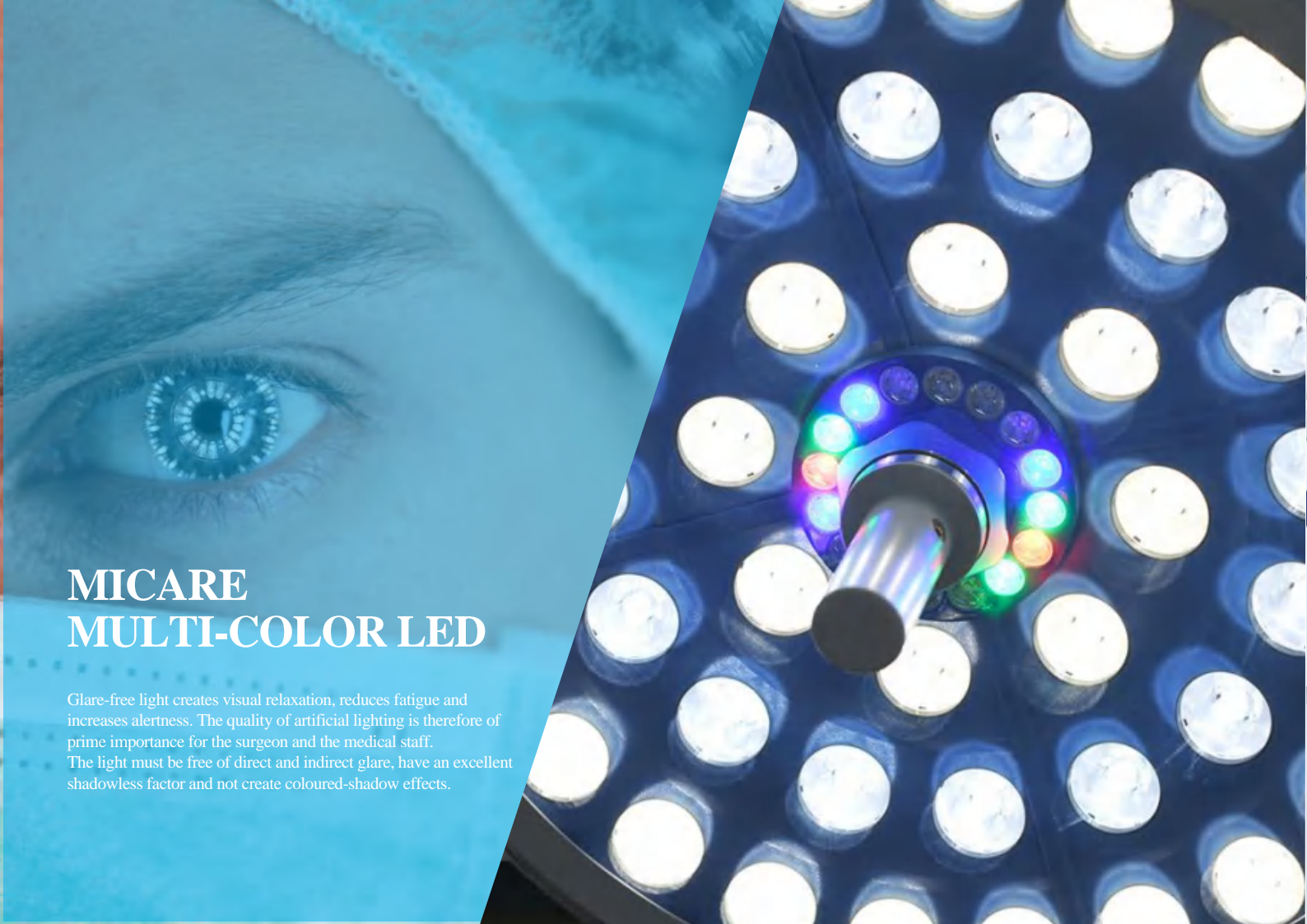


E700
External Camera



E500
External Camera





MICARE MULTI-COLOR LED

Glare-free light creates visual relaxation, reduces fatigue and increases alertness. The quality of artificial lighting is therefore of prime importance for the surgeon and the medical staff. The light must be free of direct and indirect glare, have an excellent shadowless factor and not create coloured-shadow effects.



MICARE again asserts its uniqueness, a lamp designed to enhance operating theatre lighting.

The concepts "White Light without colour shadows" and "Indirect Light", already established in the previous series, are now enhanced by technology which permits light propagation without glare.

MICARE has been a specialist In surgical lighting equipment, We offer best-in-class products, global experience in planning and project management, and individual service.

Our products and services include:

- MICARE Surgical Lights
- MICARE video and camera systems
- MICARE Examination Lamps
- MICARE OR tables and accessories
- MICARE Surgical Headlights
- MICARE LED X-ray Film Viewer
- Development, consu lting. project management
- Service and Installation by the best-trained specallsts

We look forward to hearing from you and helping you plan, design and install your next surgical environment.

MICARE MULTI-COLOR LED



MICARE POWERLED

- Aluminum Lamp Housing
- Uniform And Round Focus
- Safety Explosion-Proof
- High Color Rendering Index
- Life Time: $\geq 80,000$ hrs

BRILLIANT BY DESIGN

The MICARE PowerLED Surgical Lighting System
Provides Meaningful, Clinician-Inspired Advances To Keep
Up With Life In Today's OR.

Through Thoughtful Innovation, This Future-Ready System Offers
Superior Optical Performance, Laminar Airflow Design

Full Intergration To The OR Environment From Conventional To Theatre Rooms

MICARE PowerLED ensures the clearest
and brightest light for surgeons, without
distractions from glare.

Allows equipment
to be positioned within reach of the
surgeon, concealing wires and cables to
improve safety and hygiene. Equip-
ment can be easily added, removed and
upgraded to meet future requirements.

Thanks to MICARE Power LED
High-quality illumination helps to
relieve strain, Comfort Light feature,
improves visual performance, reduces
the sensation of glare and increases the
feeling of wakefulness leading to a
better working environment

Micare PowerLED 700/500

Evolving Design, Revolutionary Features

Near Perfect Colour Rendition with white and yellow LEDS mix
For the best visualisation of tissue during surgery.

Widely Beam Technology From 15CM-35CM
The largest light beams of any current product with high intensity across the full beam width.

Unique Comfort
A soft illumination of light to reduce eye strain from high contrasts of light intensity.



Designed to Minimise Infections
Easy to clean, sealed light head, remote controls and anti-microbial coatings.

HDI-SDI Camera Optional, Integrated cameras are fully enclosed inside the light head, records for risk, management, and optimize understanding and learning.

Maximum illumination up to 180,000 lux
Stable and constant illumination
Enhanced visibility, diagnosis and treatment



Endoscopy Mode In Deep Illumination For Various Operation Enviromental



Astro Space Design, Working seamlessly with laminar airflow solutions



Removable Sterilizaer Handle Can Be Easily For Internal Camera



4.3INCHES LCD Touch Panel Optional (OEM With LOGO Print Available)



MICARE PowerLED Model	E700/700	E700/500	E500/500
Voltage	95~245V , 50/60HZ	95~245V , 50/60HZ	95~245V , 50/60HZ
Illuminance at distance of 1 m(LUX)	60,000-180,000/60,000-180,000	60,000-180,000/40,000-160,000	40,000-160,000/40,000-160,000
Brightness Adjustable	0-100%	0-100%	0-100%
Lamp Head Diameter	700MM/700MM	700MM/500MM	500MM/500MM
Quantity Of LEDS	80PCS/80PCS	80PCS/48PCS	48PCS/48PCS
Color Temperature Adjustable	3800-5500K	3800-5500K	3800-5500K
Color rendering index Ra	96	96	96
Color rendering index R9(Red)	98	98	98
Light Field Size Adjustable	150-350MM/150-350MM	150-350MM/120-280MM	120-280MM/120-280MM
Total radiant flux density	364W/m2	364W/m2	364W/m2
Endoscopy Mode	YES	YES	YES
Endoscopy Mode LEDS	8PCS/8PCS	8PCS/8PCS	8PCS/8PCS
Illumination For Endo-Mode	10%	15%	18%
LED service life	80,000hrs	80,000hrs	80,000hrs
Main Material	Aluminum	Aluminum	Aluminum
Rotating Angle Of Arm	>540°	>540°	>540°
LED Bulb Power	1w Each Pc	1w Each Pc	1w Each Pc
Input Power	400w	400w	400w
Operating element	Key Board	Key Board	Key Board
Light head protection rating	IP54+FireProof	IP54+FireProof	IP54+FireProof
Depth of illumination L1+12	1400MM	1200MM	1100MM
Lamp weight	700+700=52KGS	700+500=49KGS	500+500=46KGS
Packing	3 Wooden Cartons	3 Wooden Cartons	3 Wooden Cartons
LCD Touch Screen	Optional	Optional	Optional
Back Up Battery (4-6hrs)	Optional	Optional	Optional
Dynamic Obstacle Compensation	None	None	None
Internal/External Sony Camera(20X)	Optional	Optional	Optional
Monitor With Extra Arm(22 Inches)	Optional	Optional	Optional
LED Bulb Diameter	20MM	20MM	20MM

MICARE PowerLED Model	E700	E500
Voltage	95~245V , 50/60HZ	95~245V , 50/60HZ
Illuminance at distance of 1 m(LUX)	60,000-180,000	40,000-160,000
Brightness Adjustable	0-100%	0-100%
Lamp Head Diameter	700MM	500MM
Quantity Of LEDS	80PCS	48PCS
Color Temperature Adjustable	3800-5500K	3800-5500K
Color rendering index Ra	96	96
Color rendering index R9(Red)	98	98
Light Field Size Adjustable	150-350MM	120-280MM
Total radiant flux density	364W/m2	364W/m2
Endoscopy Mode	YES	YES
Endoscopy Mode LEDS	8PCS	8PCS
Illumination For Endo-Mode	10%	18%
LED service life	80,000hrs	80,000hrs
Main Material	Aluminum	Aluminum
Rotating Angle Of Arm	>540°	>540°
LED Bulb Power	1w Each Pc	1w Each Pc
Input Power	400w	400w
Operating element	Key Board	Key Board
Light head protection rating	IP54+FireProof	IP54+FireProof
Depth of illumination L1+12	1400MM	1100MM
Lamp weight	700+700=52KGS	500+500=46KGS
Packing	3 Wooden Cartons	3 Wooden Cartons
LCD Touch Screen	Optional	Optional
Back Up Battery (4-6hrs)	Optional	Optional
Dynamic Obstacle Compensation	None	None
Internal/External Sony Camera (20X)	Optional	Optional
Monitor With Extra Arm(22 Inches)	Optional	Optional
)LED Bulb Diameter	20MM	20MM





MICARE PowerLED Model	E700L(Battery Optional)	E500L(Battery Optional)
Voltage	95~245V , 50/60HZ	95~245V , 50/60HZ
Illuminance at distance of 1 m(LUX)	60,000-200,000	40,000-180,000
Brightness Adjustable	10-100%	10-100%
Lamp Head Diameter	700MM	500MM
Quantity Of LEDS	80PCS	48PCS
Color Temperature Adjustable	3800-5500K	3800-5500K
Color rendering index Ra	96	96
Color rendering index R9(Red)	98	98
Light Field Size Adjustable	150-350MM	90-260MM
Total radiant flux density	364W/m2	364W/m2
Endoscopy Mode	YES	YES
Endoscopy Mode LEDS	8PCS	8PCS
Illumination For Endo-Mode	10%	18%
LED service life	80,000hrs	80,000hrs
Main Material	Aluminum	Aluminum
Rotating Angle Of Arm	>540°	>540°
LED Bulb Power	1w Each Pc	1w Each Pc
Input Power	400w	400w
Operating element	Touch Control	Touch Control
Light head protection rating	IP54+FireProof	IP54+FireProof
Depth of illumination L1+12	1400MM	1100MM
Lamp weight	700+700=52KGS	500+500=46KGS
Packing	3 Wooden Cartons	3 Wooden Cartons
LCD Touch Screen	Key Board	Key Board
Back Up Battery (4-6hrs)	Optional	Optional
Dynamic Obstacle Compensation	None	None
Internal/External Sony Camera (20X)	Optional	Optional
Monitor With Extra Arm (22 Inches)	Optional	Optional
LED Bulb Diameter	20MM	20MM



Redefine optical performance

Aerospace-based design

How can you deliver more clean airflow to your patient during a surgical procedure? The Osram Power LED allows unobstructed flow of clean air through the lighthouse to dissipate accumulated heat and surgical smoke. Working seamlessly with laminar airflow solutions , it decreases air turbulence through its unique airfoil design. Aerospace-based design, We’ve learned from the best in the aerospace industry for a design that mitigates airflow turbulence while delivering clean air to the patient.

Lightweight aluminum construction
The suspension weights approximately
30% less than previous generations
of steel arms.

Micare Power LED E700/500
CAMERA AND VIDEO SYSTEM

THE NEW DIMENTSION IN VIDEO IMAGES

CAMERA (INTERNAL & EXTERNAL)
More Details, Bettery Visualization
Fascinating Images-With Clear, Sharp Contrours

And Striking Quality

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

Details That Full HD Was Unable To Dfepict Are Now Clearly And Distinctly Visualized In HD



IMAGE SENSOR	SONY 1/2 8TYPE “EXMOR” CMOS, SUPPORT PROGRESSIVE MODE
IMAGE SOLUTION	1920*1080P, APPROX, 2,140,000 PIXELS
VIDEO OUTPUTS	20X OPTICAL ZOOM, 12X DIGITAL ZOOM
ASPECT VIDEO	SDI
FOCUS OPERATING	16:9
WHITE BALANCE	MANUAL & AUTO
REMOTE CONTROL	AUTO, ATW, INDOOR, OUTDOOR, ONE, PUSH WB, MANUAL WB
WIRELESS REMOTE CONTROL	STANDARD ACCESSORIES
HARD DISK FOR STORE	1T
POWER	6.8W
VOLTAGE	DC12-30W, 1.5A
INSTALLATION	INTERNAL & EXTERNAL OPTIONAL
MONITOR	22INCHES (RECORD AND STORAGE INTERGRATED)
SOUND COLLECTION	OPTIONAL



E700/700
Internal Camera



E700/500
Internal Camera



E500/500
Internal Camera



E700
Internal Camera



E500
Internal Camera



E700
Internal Camera



E500
Internal Camera



E700/700
External Camera



E700/500
External Camera



E500/500
External Camera



E700
External Camera



E500
External Camera





Future-ready to evolve with you

What if you had a lighting system that was modular, upgradeable, and expandable so that it could meet your ongoing needs with ease? You've found it. There are ways to customize this system today and in the future.

All of us here at MICARE are committed to you



SIMPLY INGENUOUS

What if you had illumination in the OR that simply supported you throughout each surgical procedure? The MICARE PowerLED does this, delivering excellent color, contrast, clarity, and control.

A unique peninsula design provides optimal illumination at the surgical site, including deep cavity procedures. Advances in LED technology mean that the MICARE PowerLED is able to optimize illumination through fewer LEDs than in the past.

You focus on patients. We focus on you.

MICARE Lighting solutions bring together people and technology so that you have exactly what you need, when you need it, for the intelligent OR of today and tomorrow. From project design to implementation to service support, your success is our highest priority.

**LIGHTING
EXPERIENCE**

Surgical Solutions

Surgical Lighting

FLOWER LED
Surgical Lighting System

Brighten your Expertise



One Integrated Approach to Healthcare



Adjustable colour temperature: For Your Visual Comfort

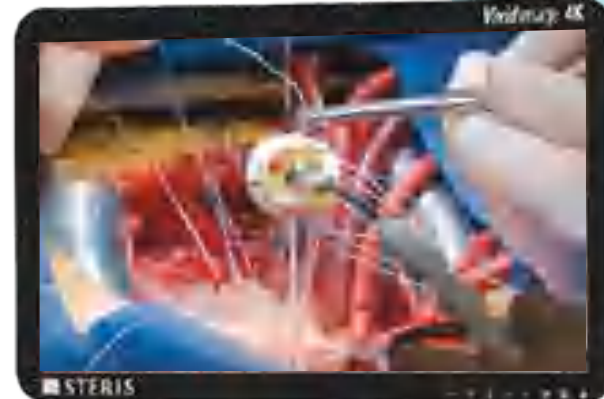
FLOWER LED surgical lighting with adjustable colour temperatures retains all the benefits of white LEDs while offering additional functions.

Selecting from 4 calibrated colour temperatures, the user can choose a light adapted to their visual sensitivity and preferences - warmer colours aiming towards orange, or cooler tones, aiming towards warm white.

Depending on the type of surgery, the surgical team can easily adapt the color



3 800 K
Ra=96 / R9=96



4 000 K
Ra=96 / R9=96



4 500 K
Ra=96 / R9=96



5 500 K
Ra=96 / R9=96

Homogeneous and constant quality of light across the different colour temperatures and over time.

How Does that Work? Optimal Duo of White&Yellow LEDs

Contrary to the light generated by a combination of coloured LEDs (green, red, blue...) which have a tendency to decline over time and need regular recalibration to conserve its properties, FLOWER LED surgical lights with adjustable colour temperature option is obtained by combining white LEDs and yellow LEDs with different colour temperatures.

PRACTICAL ASPECTS CUSTOMER-ORIENTED

Flexible system

The light, camera and monitor arm with considerable swiveling and tilting range for all commercially available screens can be attached to an individual ceiling suspension and are lightweight and safe to position. 4 arms can be used per ceiling support unit.

*Performance + 10% according to IEC60601-2-41 / **Performance 0/-10% according to IEC60601-2-41 /

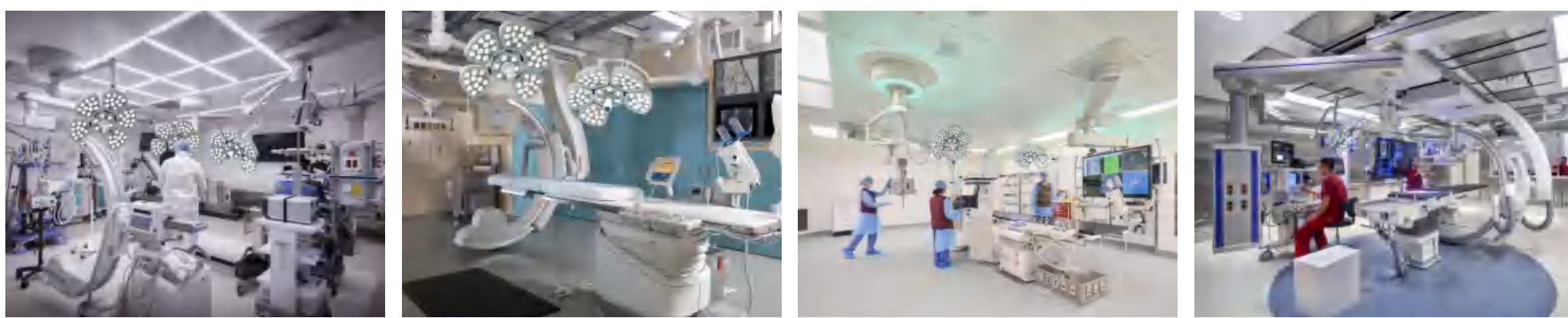
***Performance + 6% according to IEC60601-2-41

TECHNICAL SHEET

FLOWER LED



Model	E700/700	E700/500	E500/500	E700	E500
Voltage	95~245V , 50/60HZ	95~245V , 50/60HZ	95~245V , 50/60HZ	95~245V , 50/60HZ	95~245V , 50/60HZ
Illuminance at distance of 1 m(LUX)	60,000-160,000/60,000-160,000	60,000-160,000/40,000-140,000	40,000-140,000/40,000-140,000	60,000-160,000	40,000-140,000
Brightness Adjustable	0-100%	0-100%	0-100%	0-100%	0-100%
Lamp Head Diameter	650MM/650MM	650MM/650MM	650MM/650MM	650MM	650MM
Quantity Of LEDS	61PCS/61PCS	61PCS/39PCS	39PCS/39PCS	61PCS	39PCS
Color Temperature Adjustable	3800-5500K	3800-5500K	3800-5500K	3800-5500K	3800-5500K
Color rendering index Ra	96	96	96	96	96
Color rendering index R9(Red)	96	96	96	96	96
Light Field Size Adjustable	150-350MM/150-350MM	150-350MM/120-280MM	120-280MM/120-280MM	150-350MM	120-280MM
Total radiant flux density	364W/m2	364W/m2	364W/m2	364W/m2	364W/m2
Endoscopy Mode	YES	YES	YES	YES	YES
Endoscopy Mode LEDS	6PCS/6PCS	6PCS/6PCS	6PCS/6PCS	6PCS	6PCS
Illumination For Endo-Mode	10%	12%	15%	10%	15%
LED service life	80,000hrs	80,000hrs	80,000hrs	80,000hrs	80,000hrs
Main Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Rotating Angle Of Arm	>540°	>540°	>540°	>540°	>540°
LED Bulb Power	1w Each Pc	1w Each Pc	1w Each Pc	1w Each Pc	1w Each Pc
Input Power	400w	400w	400w	400w	400w
Operating element	Key Board	Key Board	Key Board	Key Board	Key Board
Light head protection rating	IP54+FireProof	IP54+FireProof	IP54+FireProof	IP54+FireProof	IP54+FireProof
Depth of illumination L1+12	1400MM	1200MM	1100MM	1400MM	1100MM
Lamp weight	700+700=52KGS	700+500=49KGS	500+500=46KGS	700+700=52KGS	500+500=46KGS
Packing	3 Wooden Cartons	3 Wooden Cartons	3 Wooden Cartons	3 Wooden Cartons	3 Wooden Cartons
LCD Touch Screen 3.7Inches	Optional	Optional	Optional	Optional	Optional
Back Up Battery (4-6hrs)	Optional	Optional	Optional	Optional	Optional
LED Bulb Size	20MM	20MM	20MM	20MM	20MM
Internal/External Sony Camera (20X)	Optional	Optional	Optional	Optional	Optional
Monitor With Extra Arm (22 Inches)	Optional	Optional	Optional	Optional	Optional



TECHNICAL SHEET

FLOWER LED



**FLOWER LED
E700L**



**FLOWER LED
E700L+BATTERY**

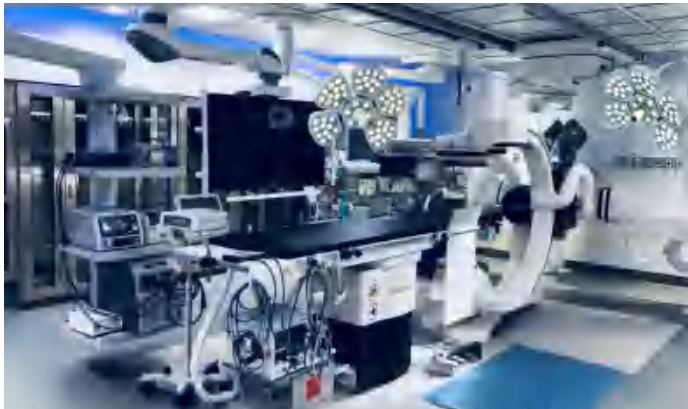


**FLOWER LED
E500L**



**FLOWER LED
E500L+BATTERY**

Model	E700L	E500L
Voltage	95~245V , 50/60HZ	95~245V , 50/60HZ
Illuminance at distance of 1 m(LUX)	60,000-160,000	40,000-140,000
Brightness Adjustable	10-100%	10-100%
Lamp Head Diameter	650MM	650MM
Quantity Of LEDS	61PCS	39PCS
Color Temperature Adjustable	3800-5500K	3800-5500K
Color rendering index Ra	96	96
Color rendering index R9(Red)	98	98
Light Field Size Adjustable	150-350MM	90-260MM
Total radiant flux density	364W/m2	364W/m2
Endoscopy Mode	YES	YES
Endoscopy Mode LEDS	6PCS	6PCS
Illumination For Endo-Mode	10%	15%
LED service life	80,000hrs	80,000hrs
Main Material	Aluminum	Aluminum
Rotating Angle Of Arm	>540°	>540°
LED Bulb Power	1w Each Pc	1w Each Pc
Input Power	400w	400w
Operating element	Touch Control	Touch Control
Light head protection rating	IP54+FireProof	IP54+FireProof
Depth of illumination L1+12	1400MM	1100MM
Lamp weight	700+700=52KGS	500+500=46KGS
Packing	3 Wooden Cartons	3 Wooden Cartons
LCD Touch Screen 3.7inches	Optional	Optional
Back Up Battery (4-6hrs)	Optional	Optional
LED Bulb Size	20MM	20MM
Internal/External Sony Camera (20X)	Optional	Optional
Monitor With Extra Arm (22 Inches)	Optional	Optional



Energy Efficiency

Operating costs for ventilation ceilings and air-conditioning systems are reduced due to low surface temperature of $<2^{\circ}\text{C}$

Service / Maintenance

Service and maintenance are aided by the D-A-S (Data Analysis System), for determining operating hours and other functional concerns



Technology

Lens combination was developed with primary and secondary optics for light bundling. We use high-performance LEDs with a maximum color rendering index. Color temperature is variable, and the illumination intensity is dimmable

Optimized View

Endoscopy mode provides improved contrast for surgeons using imaging procedures. Monitor reflection is reduced during endoscopic procedures while offering adequate background lighting to support the orientation of the entire surgical team

Color Temperature Selection

Color temperature selection can be set individually for Flower LED. There are three levels from 3,800 K to 5,500 K, yielding high-contrast light for different types of tissue

Light

Flower LED Illumination in both area and depth is optimal and shadow-free, with the ideal ratio of luminaire to light field diameter. Provides a natural color-rendering index with white light (Ra of 96 at all light levels, R9 of 98 in the red region). It can be regulated to 160,000 lx

Hygiene

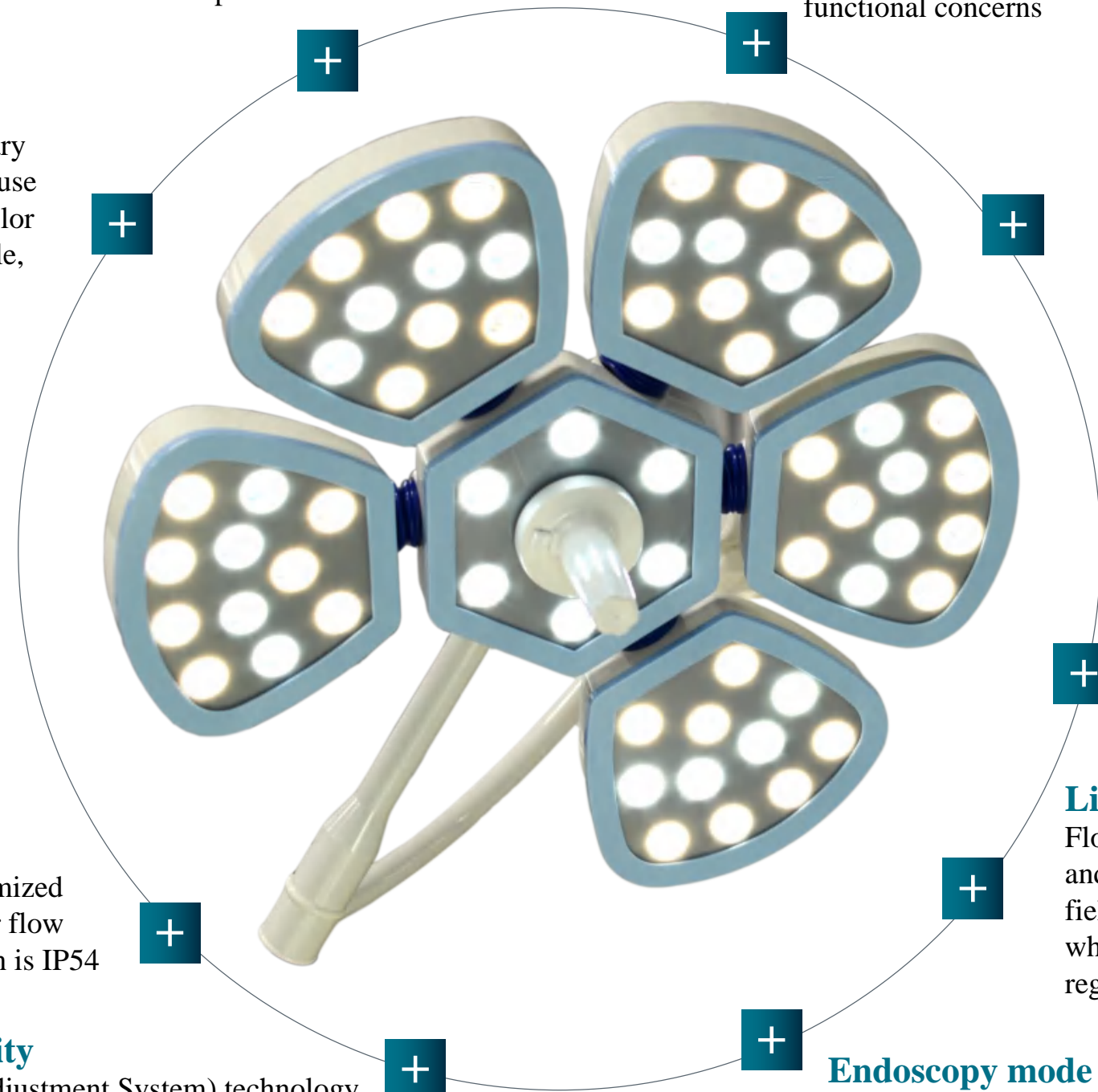
Flower LED include a flow-optimized luminaire housing for laminar air flow ceilings. The degree of protection is IP54

Sustainability

LAS (Light Adjustment System) technology creates 100% lighting power, even after many years of use

Endoscopy mode

Switch to White LEDs for optimum endoscopic intervention conditions



CAMERA (INTERNAL & EXTERNAL)
More Details, Better Visualization
Fascinating Images-With Clear, Sharp Contrours



High Image Quality

- Camera With 20X 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 Conventional Sensors
- Higher Image Quality In Low Light Conditions

Easy Handling

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



IMAGE SENSOR	SONY 1/2 8TYPE “EXMOR” CMOS, SUPPORT PROGRESSIVE MODE
IMAGE SOLUTION	1920*1080P, APPROX, 2,140,000 PIXELS
VIDEO OUTPUTS	20X OPTICAL ZOOM, 12X DIGITAL ZOOM
ASPECT VIDEO	SDI
FOCUS OPERATING	16:9
WHITE BALANCE	MANUAL & AUTO
REMOTE CONTROL	AUTO, ATW, INDOOR, OUTDOOR, ONE, PUSH WB, MANUAL WB
WIRELESS REMOTE CONTROL	STANDARD ACCESSORIES
HARD DISK FOR STORE	1T
POWER	6.8W
VOLTAGE	DC12-30W, 1.5A
INSTALLATION	INTERNAL & EXTERNAL OPTIONAL
MONITOR	22INCHES (RECORD AND STORAGE INTERGRATED)
SOUND COLLECTION	OPTIONAL



E700/700
Internal Camera



E700/500
Internal Camera



E500/500
Internal Camera



E700
Internal Camera



E500
Internal Camera



E700
Internal Camera



E500
Internal Camera



E700/700
External Camera



E700/500
External Camera



E500/500
External Camera



E700
External Camera



E500
External Camera

FLOWER LED
SMART INNOVATION

PERFORMANCE INNOVATIVE TECHNOLOGY

FLOWER LED is a new generation of surgical lights. The latest LED technology with user-relevant features can be configured to suit individual requirements and offers the perfect lighting solution.

ICE COLD AND EFFICIENT A NEW GENERATION OF SURGICAL LIGHTS.

In the operating room, shadow-free lighting that does not change the surrounding climatic conditions and minimally affects air flow is essential. The wide variety of performed procedures calls for extreme flexibility, and equipment must be adaptable to individual requirements at all times. Time for the new Flower LED technology

FLOWER LED

**ICE COLD AND EFFICIENT
A NEW GENERATION OF
SURGICAL LIGHTS.**