# 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.



NANCHANG MICARE MEDICAL EQUIPMENT CO.,LTD.

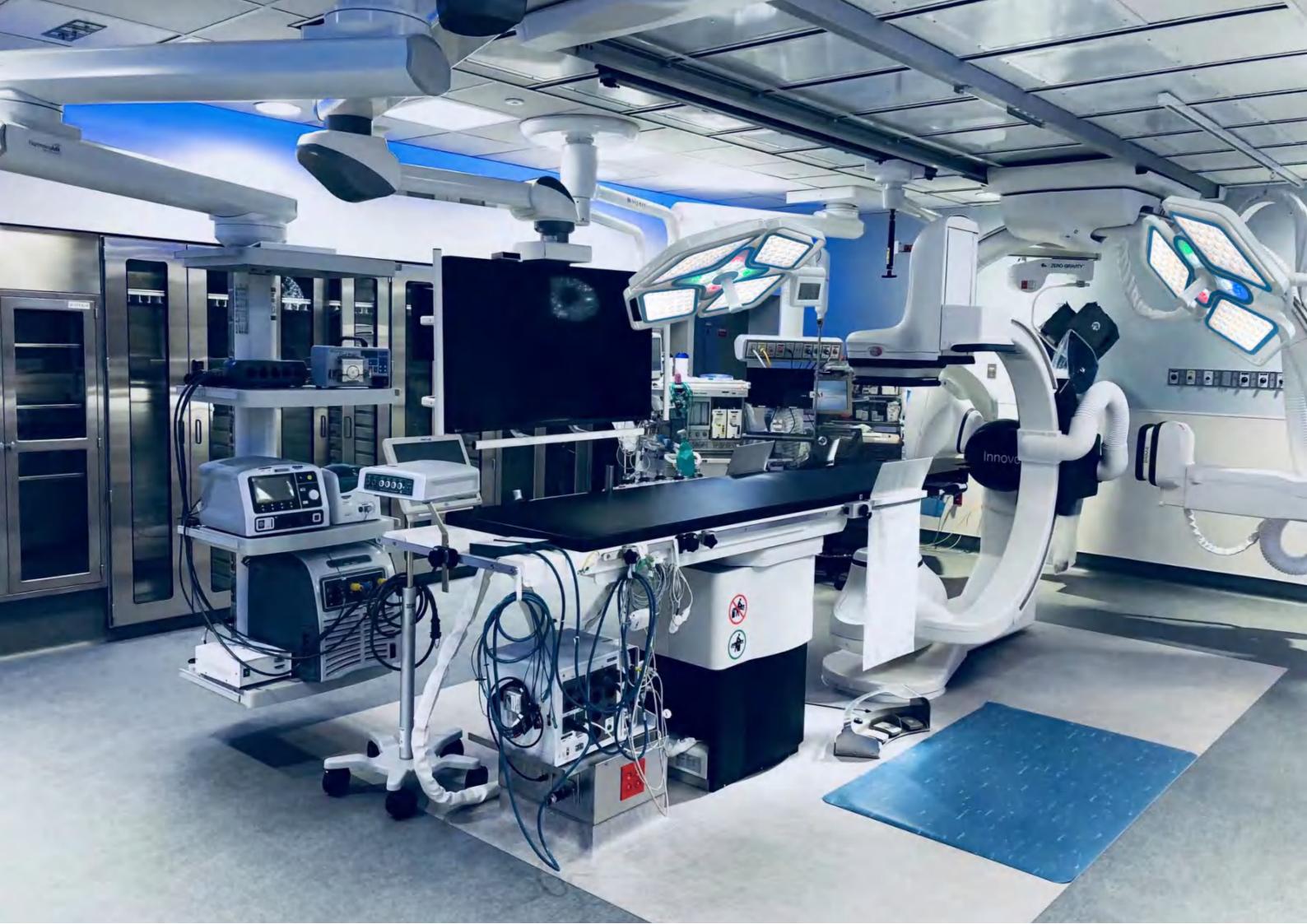
Website: www.micare-med.com / www.surgicallight.com

E-mail: info@micare.cn

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

CE, ISO13485, ISO9001, FDA, FREE SALE CERTIFICATE







### **High quality LEDs**

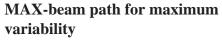
with the lowest infrared or ultraviolet emissions, protects the patient from drying out of the tissue and provides a high quality working condition with the constant high-class lighting temperature to the operator.

### **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.



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.



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

### **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

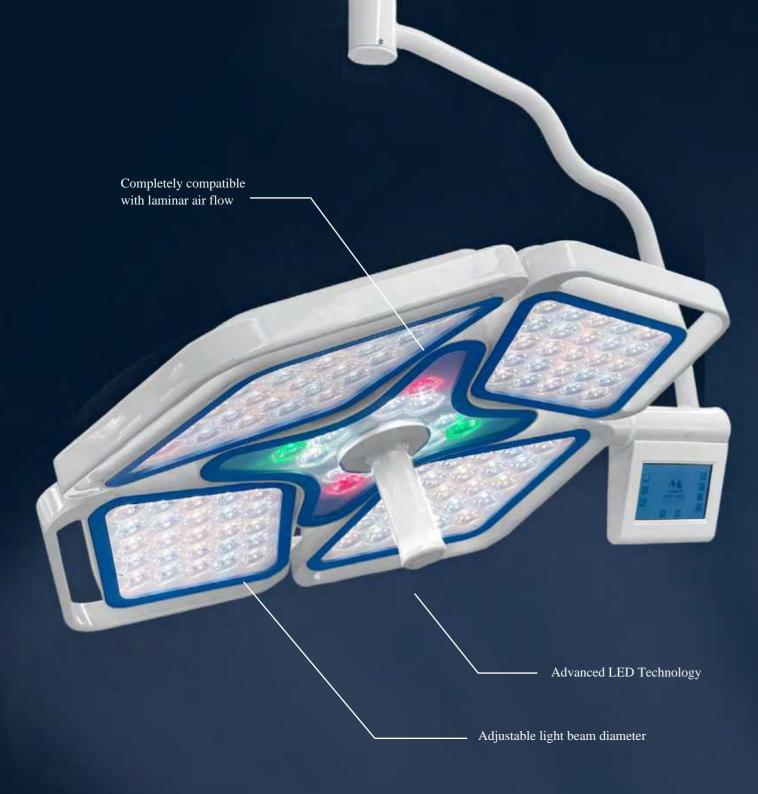
### **Ambiant Lights Balance**

Green Ambiant in Endolight less stressful on the eyes during surgeryRed Ambiant In Endolight provides optimum visualisation of red tissues. Red balance enhancement compensates for our naturalweakness 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**

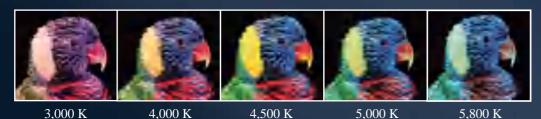
MAX LED support different languages customization: Spanish, French, Russian, Portuguese, Arabic, German, Italian, Japanese, Korean etc.







### Adjustable color control



MAX-LED provides adjustable color temperature to optimize visualization of red tissues. Color temperature is variable from 3000K – 5800K.

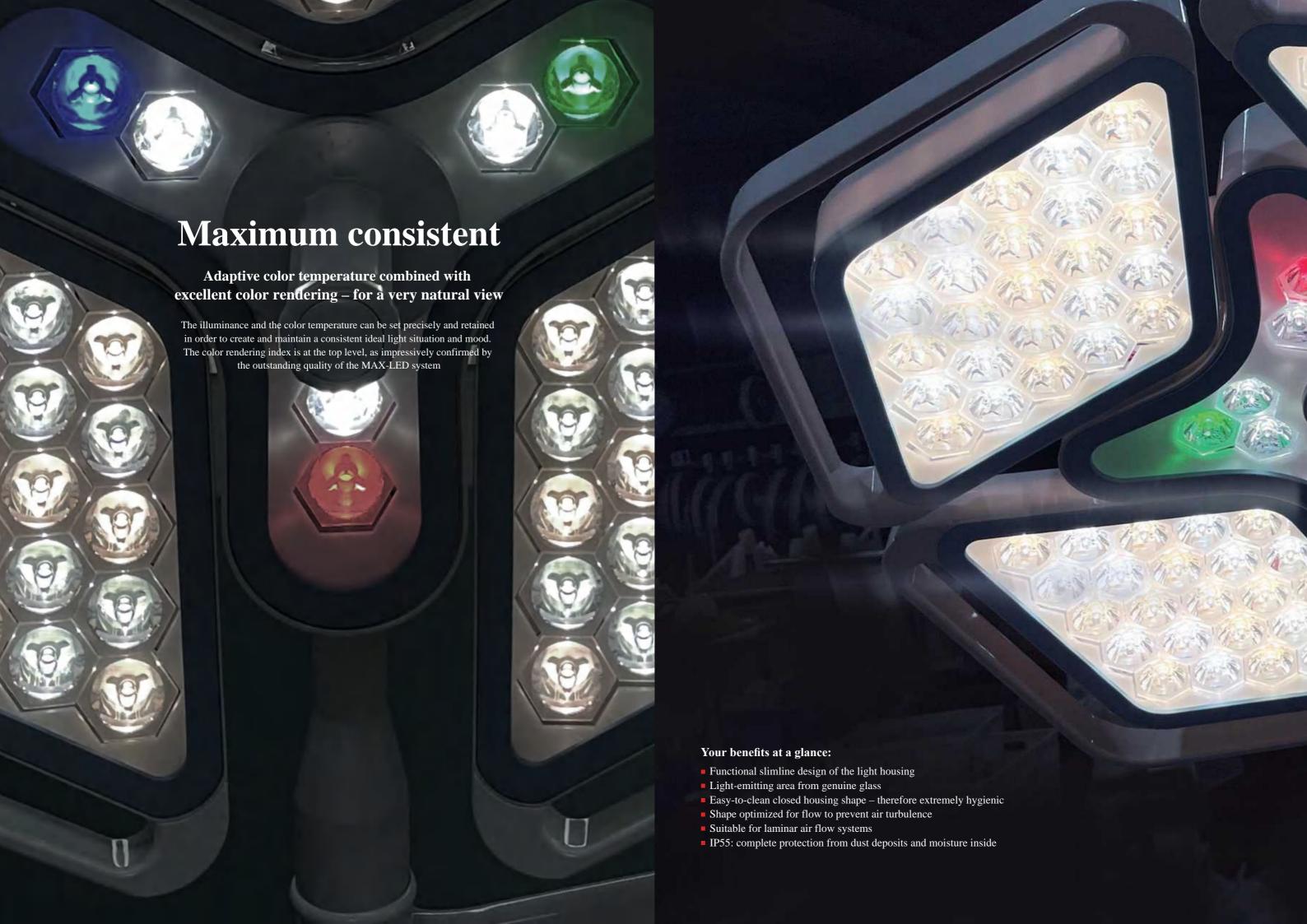


### Clear Visualization For Better Results

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



### **MAX-LED**

### **TECHNICAL SHEET**

### **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 /	40,000-160,000/	
	60,000 -180,000	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/m²	364W/m²	364W/m²	
Endo Ambiant Lights	Green + Red	Green + Red + Blue	Green + Red + Blue	
Endo Lights Quantity (PCS)	12 + 12	12 + 6	6+6	
Light Intensity For Endo	15%	12%	10%	
Lights				
Rated Power	220W	190W	160W	
Depth of illumination	750MM	700MM	650MM	
(L1+L2) @ 60 %				
Depth of illumination	1400MM	1300MM	1200MM	
(L1+L2) @ 20 %				
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	Optional	Optional	Optional	
Compensation				
Back Up Rechargeable	Optional	Optional	Optional	
Battery				
Internal Sony Camera 10X	Optional	Optional	Optional	
Monitor (21Inches)	Optional	Optional	Optional	
LED Brand	OSRAM	OSRAM	OSRAM	

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.



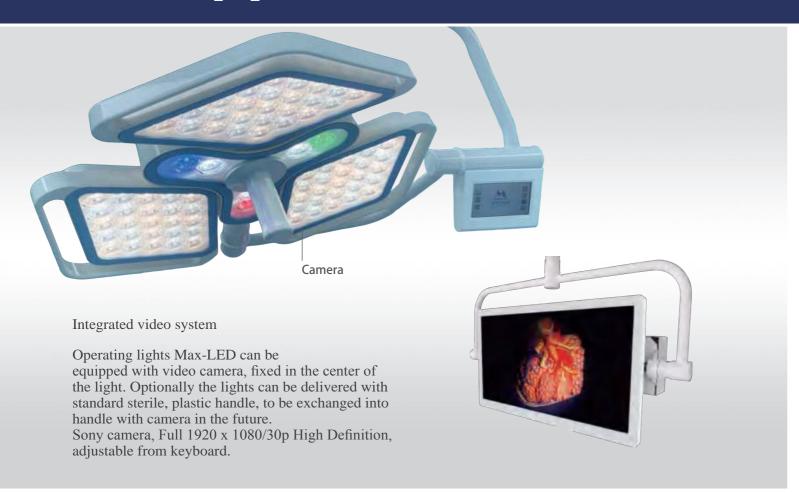






Model	E700	E500	E700L	500L
Voltage	95-245V, 50/60HZ	95-245V, 50/60HZ	95-245V, 50/60HZ	95-245V, 50/60HZ
Light Intensity at 1m (EC)	60,000-180,000	40,000 -160,000	60,000-180,000	40,000 -160,000
Light Intensity Ajustable	0%-100%	0%-100%	0%-100%	0%-100%
Lamp Head Diameter(MM)	700	700	700	700
LED Bulb Quantity	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/ m²	364W/ m²	364W/ m²	364W/ m²
Endo Ambiant 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 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
  - Fl:exible And

### **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

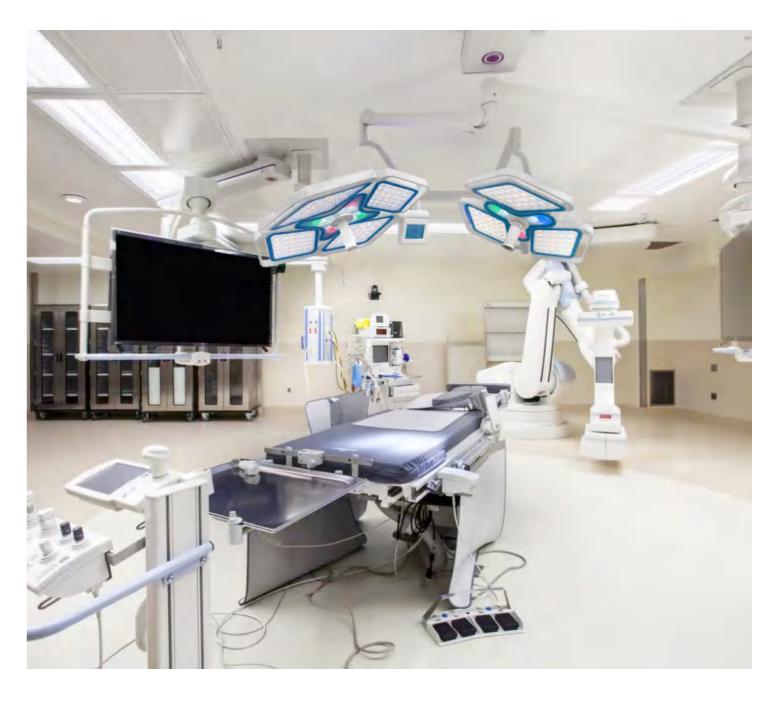














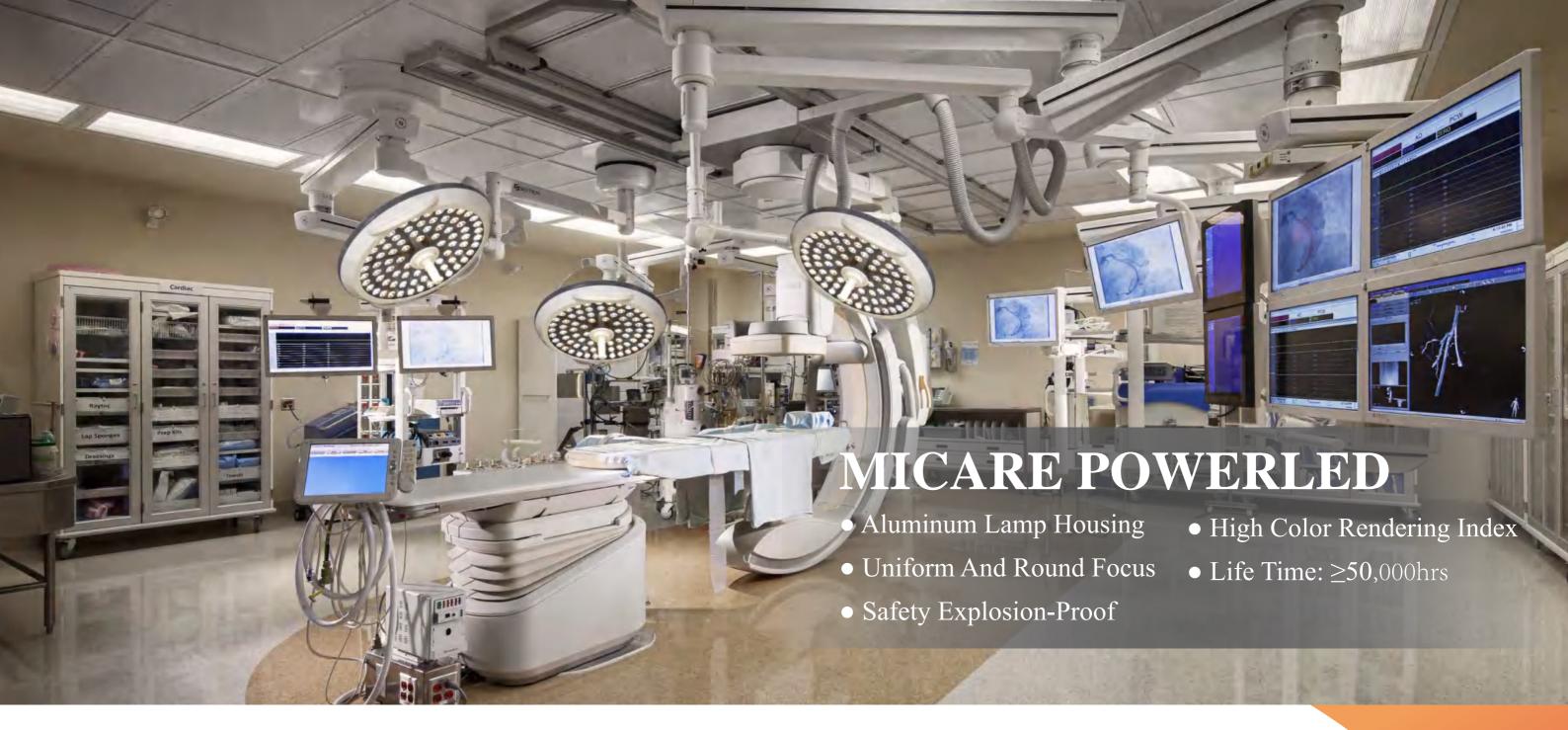
### **MICARE LIGHTING**

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.



### **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. Equipment 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 Environmental



Astro Space Design, Working seamlessly with laminar airflow solutions



Removable Sterilizaer Handle Can Be Easily For Internal Camera



5.1INCHES LCD Touch Panel Optional (OEM With LOGO Print Available)

TECHNICAL SHEET
TECHNICAL SHEET







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)	93,000-180,000/93,000-180,000		83,000-160,000/83,000-160,000
Brightness Adjustable	10-100%	10-100%	10-100%
Lamp Head Diameter	700MM/700MM	700MM/500MM	500MM/500MM
Quantity Of LEDS	80PCS/80PCS	80PCS/48PCS	48PCS/48PCS
Color Temperature Adjustable	3800-5000K	3800-5000K	3800-5000K
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/90-260MM	90-260MM/90-260MM
Total rediant 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	50,000hrs	50,000hrs	50,000hrs
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	Touch Control	Touch Control	Touch Control
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
Shadow Compensation Function	Optional	Optional	Optional
Internal/External Sony Camera(10X)	Optional	Optional	Optional
Monitor With Extra Arm(21 Inches)	Optional	Optional	Optional
Wall Mounted Control)	Optional	Optional	Optional

MICARE PowerLED Model	E700	E500
Voltage	95~245V, 50/60HZ	95~245V, 50/60HZ
Illuminance at distance of 1 m(LUX)	93,000-180,000	83,000-160,000
Brightness Adjustable	10-100%	10-100%
Lamp Head Diameter	700MM	500MM
Quantity Of LEDS	80PCS	48PCS
Color Temperature Adjustable	3800-5000K	3800-5000K
Color rendering index Ra	96	96
Color rendering index R9(Red)	98	98
Light Field Size Adjustable	150-350MM	90-260MM
Total rediant flux density	364W/m2	364W/m2
Endoscopy Mode	YES	YES
Endoscopy Mode LEDS	8PCS	8PCS
Illumination For Endo-Mode	10%	18%
LED service life	50,000hrs	50,000hrs
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	Optional	Optional
Back Up Battery (4-6hrs)	Optional	Optional
Shadow Compensation Function	Optional	Optional
Internal/External Sony Camera(10X)	Optional	Optional
Monitor With Extra Arm(21 Inches)	Optional	Optional
Wall Mounted Control)	Optional	Optional



### **TECHNICAL SHEET**



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)	93,000-180,000	83,000-160,000
Brightness Adjustable	10-100%	10-100%
Lamp Head Diameter	700MM	500MM
Quantity Of LEDS	80PCS	48PCS
Color Temperature Adjustable	3800-5000K	3800-5000K
Color rendering index Ra	96	96
Color rendering index R9(Red)	98	98
Light Field Size Adjustable	150-350MM	90-260MM
Total rediant flux density	364W/m2	364W/m2
Endoscopy Mode	YES	YES
Endoscopy Mode LEDS	8PCS	8PCS
Illumination For Endo-Mode	10%	18%
LED service life	50,000hrs	50,000hrs
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	Optional	Optional
Back Up Battery (4-6hrs)	Optional	Optional
Shadow Compensation Function	Optional	Optional
Internal/External Sony Camera(10X)	Optional	Optional
Monitor With Extra Arm(21 Inches)	Optional	Optional
Wall Mounted Control)	Optional	Optional



# 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 lighthead 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.

### **CAMERA (INTERNAL & EXTERNAL) More Details, Bettery Visualization**

**Fascinating Images-With Clear, Sharp Contrours** 



- 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

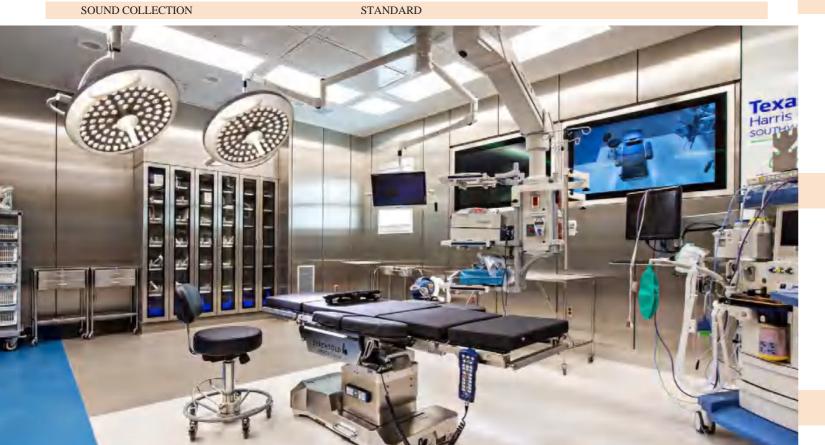
   Easy Installation And Modification Or Retrofitting Of
- Existing OR Light Sustems
- Mechanical And Electronical Image Rotation
- Fl;exible And Indepent Operation Via Remote Control
- Optional Operation Via Wall Control Unit







IMAGE SENSOR	SONY 1/2 8TYPE "EXMOR" CMOS, SUPPORT PROGRESSIVE MODE
IMAGE SOLUTION	1920*1080P, APPROX, 2,140,000 PIXELS
VIDEO OUTPUTS	10X 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	21INCHES HANGING WITH ARM





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 INGENIOUS**

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



### 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.



# MICARE MULTI-COLOR LED

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









# TECHNICAL SHEET MICARE MULTI-COLOR LED



MULTI-COLOR LED E700/700



MULTI-COLOR LED E500/500



MULTI-COLOR LED E700/500



MULTI-COLOR LED E700



MULTI-COLOR LED E500

MULTI-COLOE 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)	93,000-180,000/93,000-180,000	93,000-180,000/83,000-160,000	83,000-160,000/83,000-160,000	93,000-180,000	83,000-160,000
Brightness Adjustable	10-100%	10-100%	10-100%	10-100%	10-100%
Lamp Head Diameter	700MM/700MM	700MM/500MM	500MM/500MM	700MM	500MM
Quantity Of LEDS	64PCS/64PCS	64PCS/40PCS	40PCS/40PCS	80PCS	48PCS
Color Temperature Adjustable	3800-5000K	3800-5000K	3800-5000K	3800-5000K	3800-5000K
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/90-260MM	90-260MM/90-260MM	150-350MM	90-260MM
Total rediant 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	50,000hrs	50,000hrs	50,000hrs	50,000hrs	50,000hrs
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	Touch Control	Touch Control	Touch Control	Touch Control	Touch Control
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	Optional	Optional	Optional	Optional	Optional
Back Up Battery (4-6hrs)	Optional	Optional	Optional	Optional	Optional
Shadow Compensation Function	Optional	Optional	Optional	Optional	Optional
Internal/External Sony Camera(10X)	Optional	Optional	Optional	Optional	Optional
Monitor With Extra Arm(21 Inches)	Optional	Optional	Optional	Optional	Optional
Wall Mounted 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

MICARE PowerLED Model	E700	E500
Voltage	95~245V, 50/60HZ	95~245V, 50/60HZ
Illuminance at distance of 1 m(LUX)	93,000-180,000	83,000-160,000
Brightness Adjustable	10-100%	10-100%
Lamp Head Diameter	700MM	500MM
Quantity Of LEDS	80PCS	48PCS
Color Temperature Adjustable	3800-5000K	3800-5000K
Color rendering index Ra	96	96
Color rendering index R9(Red)	98	98
Light Field Size Adjustable	150-350MM	90-260MM
Total rediant flux density	364W/m2	364W/m2
Endoscopy Mode	YES	YES
Endoscopy Mode LEDS	16PCS	16PCS
Illumination For Endo-Mode	20%	25%
LED service life	50,000hrs	50,000hrs
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	Optional	Optional
Back Up Battery (4-6hrs)	Optional	Optional
Shadow Compensation Function	Optional	Optional
Internal/External Sony Camera(10X)	Optional	Optional
Monitor With Extra Arm(21 Inches)	Optional	Optional
Wall Mounted Control)	Optional	Optional





### **CREE MULTI-COLOR LED**

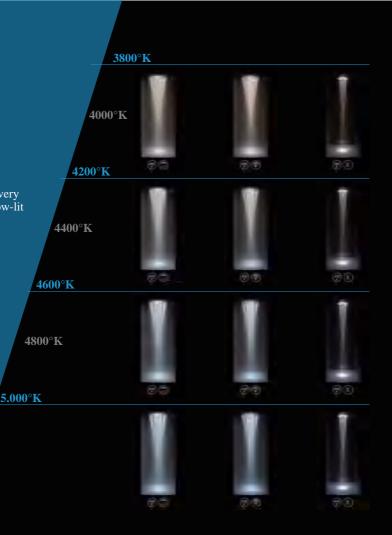
### With MICARE, light can be personalized in a very simple way

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 -  $3800K,~4000K,~4200K,~4400^{\circ}K,~4600K,~4800^{\circ}K,5000^{\circ}K.$ 

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 lliptical 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, Bettery Visualization Fascinating Images-With Clear, Sharp Contrours



#### **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 Sustems
- Mechanical And Electronical Image Rotation
- Fl;exible And Indepent Operation Via Remote Control
- Optional Operation Via Wall Control Unit









IMAGE SOLUTION 1920\*1080P, APPROX, 2,140,000 PIXELS VIDEO OUTPUTS 10X 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 21INCHES HANGING WITH ARM

SOUND COLLECTION STANDARD







E700/700 Internal Camera

E700/500 Internal Camera

E500/500 Internal Camera



E700 Internal Camera

E500 Internal Camera







E500 Internal Camera



E700/700 External Camera

E700/500 External Camera

E500/500 External Camera







E500 External Camera







**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

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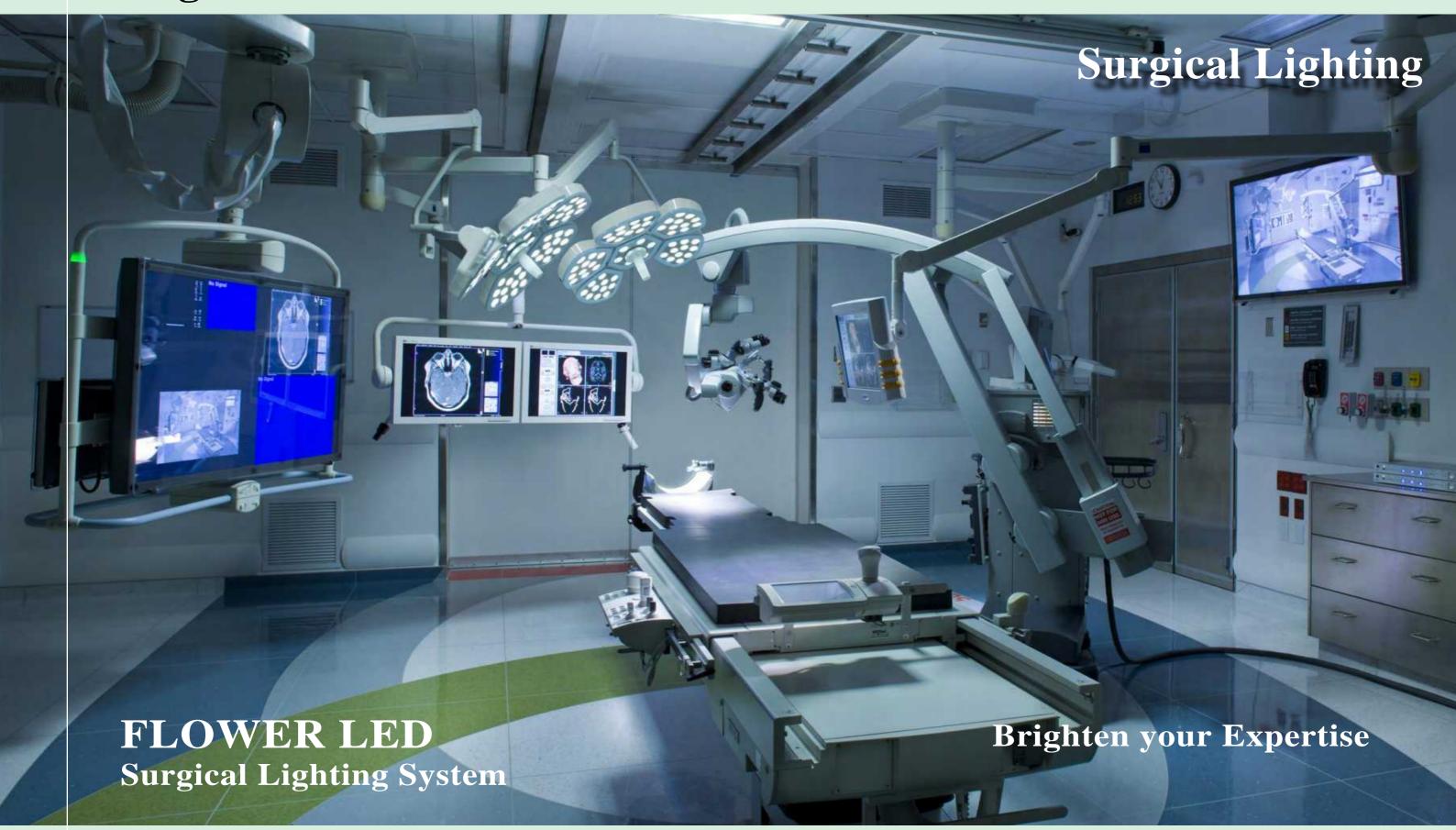
- MICARE Examination Lamps
- MICARE OR tables and accessories
- MICARE Surgical Headlights
- MICARE LED X-ray Film Viewer
- Development, consulting. project management
- Service and Installation by the best-trained

speclallsts

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

MICARE MULTI-COLOR LED

# **Surgical Solutions**





3 500 K Ra=95 / R9=91

4000 K Ra=95 / R9=97

### 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



4 500 K Ra=95 / R9=97



5 000 K Ra=95 / R9=97

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 + 6% according to IEC60601-2-41

<sup>\*</sup>Performance + 10% according to IEC60601-2-41 / \*\*Performance 0/-10% according to IEC60601-2-41 /

# TECHNICAL SHEET MICARE FLOWER LED



FLOWER LED E700/700



FLOWER LED E500/500



FLOWER LED E700/500



FLOWER LED E700



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)	93,000-160,000/93,000-160,000	93,000-160,000/83,000-140,000	83,000-140,000/83,000-140,000	93,000-160,000	83,000-140,000
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	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)	98	98	98	98	98
Light Field Size Adjustable	150-350MM/150-350MM	150-350MM/90-260MM	90-260MM/90-260MM	150-350MM	90-260MM
Total rediant 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	50,000hrs	50,000hrs	50,000hrs	50,000hrs	50,000hrs
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	Touch Control	Touch Control	Touch Control	Touch Control	Touch Control
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	Optional	Optional	Optional	Optional	Optional
Back Up Battery (4-6hrs)	Optional	Optional	Optional	Optional	Optional
Shadow Compensation Function	Optional	Optional	Optional	Optional	Optional
Internal/External Sony Camera(10X)	Optional	Optional	Optional	Optional	Optional
Monitor With Extra Arm(21 Inches)	Optional	Optional	Optional	Optional	Optional
Wall Mounted Control)	Optional	Optional	Optional	Optional	Optional









# TECHNICAL SHEET

### MICARE FLOWER LED



FLOWER LED E700L



FLOWER LED E700L+BATTERY



FLOWER LED E500L



FLOWER LED E500L+BATTERY

FLOWER LED Model	E700	E500
Voltage	95~245V, 50/60HZ	95~245V, 50/60HZ
Illuminance at distance of 1 m(LUX)	93,000-180,000	83,000-160,000
Brightness Adjustable	10-100%	10-100%
Lamp Head Diameter	700MM	500MM
Quantity Of LEDS	80PCS	48PCS
Color Temperature Adjustable	3800-5000K	3800-5000K
Color rendering index Ra	96	96
Color rendering index R9(Red)	98	98
Light Field Size Adjustable	150-350MM	90-260MM
Total rediant flux density	364W/m2	364W/m2
Endoscopy Mode	YES	YES
Endoscopy Mode LEDS	16PCS	16PCS
Illumination For Endo-Mode	20%	25%
LED service life	50,000hrs	50,000hrs
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	Optional	Optional
Back Up Battery (4-6hrs)	Optional	Optional
Shadow Compensation Function	Optional	Optional
Internal/External Sony Camera(10X)	Optional	Optional
Monitor With Extra Arm(21 Inches)	Optional	Optional
Wall Mounted Control)	Optional	Optional





### **Energy Efficiency**

Operating costs for ventilation ceilings and air-conditioning systems are reduced due to low surface temperature of <27.5°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



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

### 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

### 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, Bettery Visualization

**Fascinating Images-With Clear, Sharp Contrours** 



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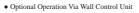


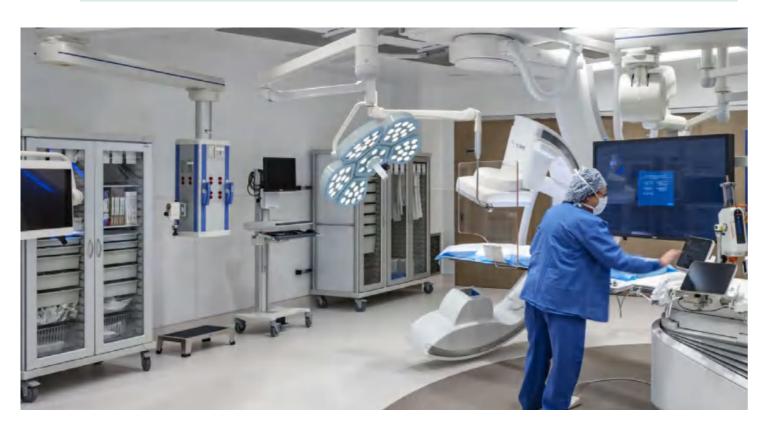








	IMAGE SENSOR	SONY 1/2 8TYPE "EXMOR" CMOS, SUPPORT PROGRESSIVE MODE
	IMAGE SOLUTION	1920*1080P, APPROX, 2,140,000 PIXELS
	VIDEO OUTPUTS	10X OPTICAL ZOOM, 12X DIGITAL ZOOM
	ASPECT VIDEO	SDI
	FOCUS OPERATING	16:9
	WHITE BALANCE	MANUAL & AUTO
	REMOTE CONTROL	AUTO, ATW, INDOOR, OUTDOOR, ONE, PUSH WB, MANUAL WB
	WIRELESS REMOTE CONTROL	STANDARD ACCESSORIES
	HARD DISK FOR STORE	1T
	POWER	6.8W
	VOLTAGE	DC12-30W, 1.5A
	INSTALLATION	INTERNAL & EXTERNAL OPTIONAL
	MONITOR	21INCHES HANGING WITH ARM
	SOUND COLLECTION	STANDARD





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



## 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