

# Surgical Solutions

## Surgical Lighting

**E700/500**  
**Surgical Lighting System**  
Version 2025-05-15

**Brighten your Expertise**



**One Integrated Approach to Healthcare**

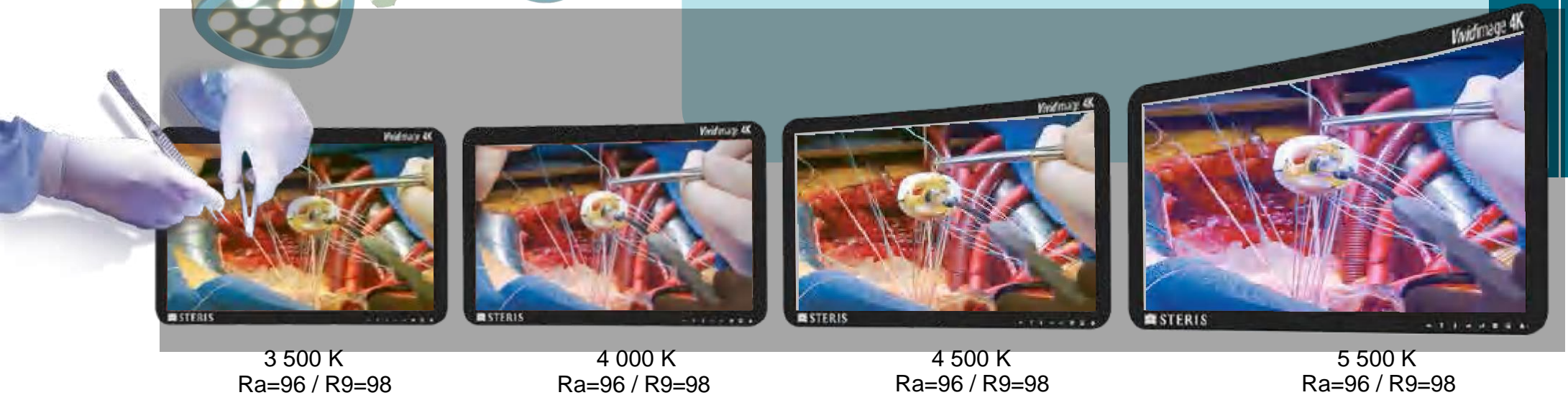


## Adjustable color temperature: For Your Visual Comfort

E700/500 surgical lighting with adjustable color temperatures retains all the benefits of white LEDs while offering additional functions.

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

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



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

## How Does that Work?

### Optimal Duo of White&Yellow LEDs

Contrary to the light generated by a combination of colored LEDs (green, red, blue...) which have a tendency to decline over time and need regular recalibration to conserve its properties, E700/500 surgical lights with adjustable color temperature option is obtained by combining white LEDs and yellow LEDs with different color 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

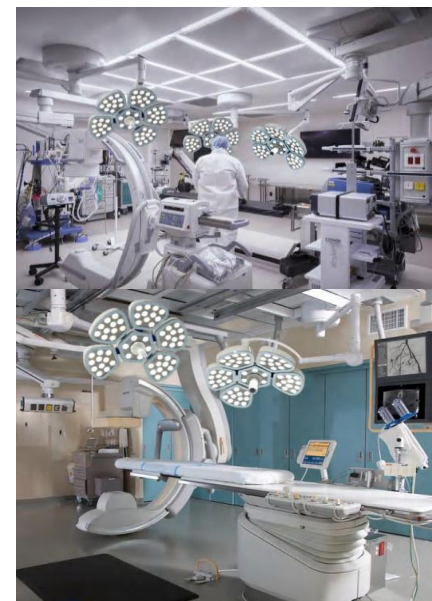


# TECHNICAL SHEET

## E700/500



Specification	E700/500
Voltage	95~245V · 50/60HZ
Illuminance at distance of 1 m (LUX)	60,000-180,000/40,000-160,000
Brightness Adjustable	0-100% (10steps)
Lamp Head Diameter	650MM/650MM
Quantity of LEDs	61PCS/39PCS
Color Temperature Adjustable	3500-5500K
Color rendering index Ra	>96
Color rendering index R9 (Red)	98
Light Field Size Adjustable	150-350 MM
Total radiant flux density	364W/m2
Endoscopy Mode	YES
Endoscopy Mode LEDs	6PCS/6PCS
Illumination For Endo-Mode	12%
LED service life	80,000hrs
Working Distance	70-140 CM
Rotating Angle of Arm	>540°
Temperature at Surgeon's Head	< 1° C
Depth of illumination L1+L2	1300 MM
Light head protection rating	IP54+FireProof
Power Consumption	105W
LCD Touch Screen 3.7 Inches	YES
Back Up Battery (4 – 6 hrs)	Optional
Internal / External Sony Camera (20X )	Optional
Monitor With Extra Arm (22 Inches)	Optional
Monitor With Extra Arm (27 Inches)	Optional
Flower design lamp heads	YES
Laminar Air Flow Compliancy	YES
Antibacterial coating	YES



### Energy Efficiency

Operating costs for ventilation ceilings and air-conditioning systems are reduced due to low surface temperature of  $<1^{\circ}\text{C}$

### 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 E700/500. There are four levels from 3,500 K to 5,500 K, yielding high-contrast light for different types of tissue

### Light

E700/500 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 and 180,000 lx

### Hygiene

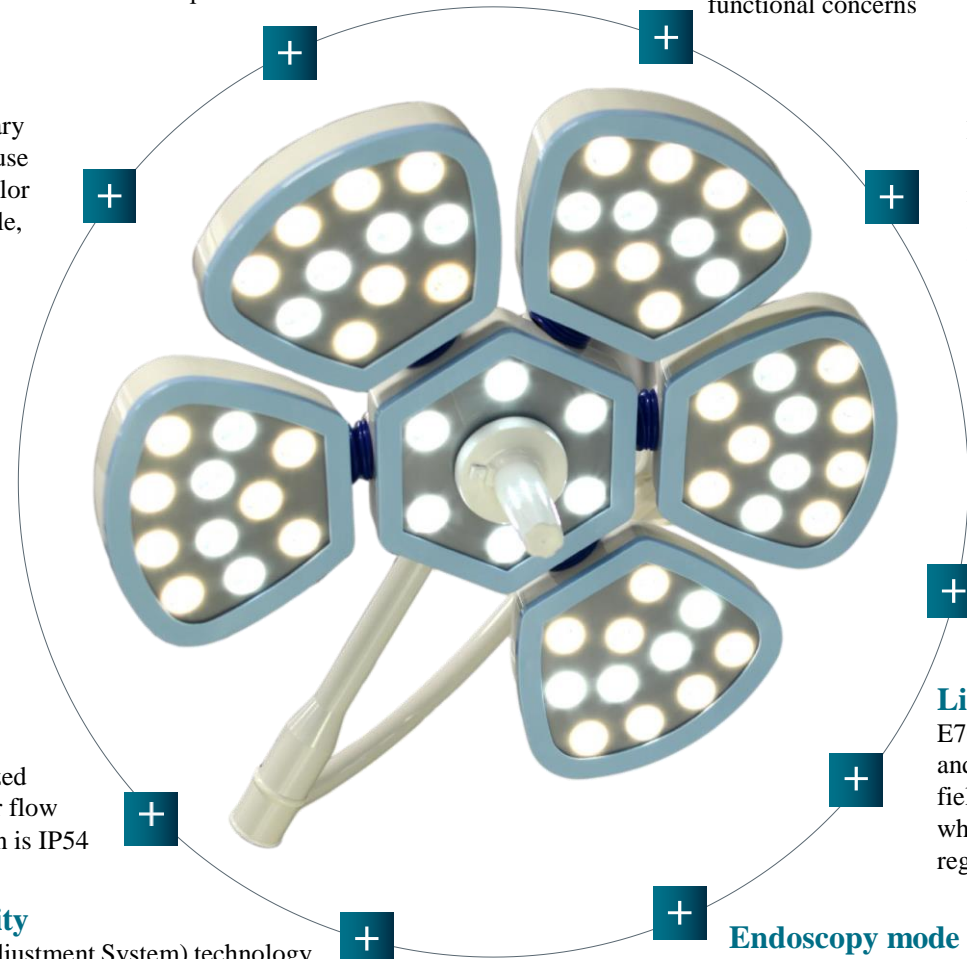
E700/500 include a flow-optimized luminaire housing for laminar air flow ceilings. The degree of protection is IP54

### 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 Contours



High Image Quality

- Camera With 20X Optical Zoom With 1920\*1080P HD Solution
- 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 Systems
- Mechanical And Electrometrical Image Rotation
- Flexible And Independent 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	22 INCHES 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





**E700/500**

SMART INNOVATION

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

**E700/500**

## **PERFORMANCE INNOVATIVE TECHNOLOGY**

E700/500 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 E700/500 technology