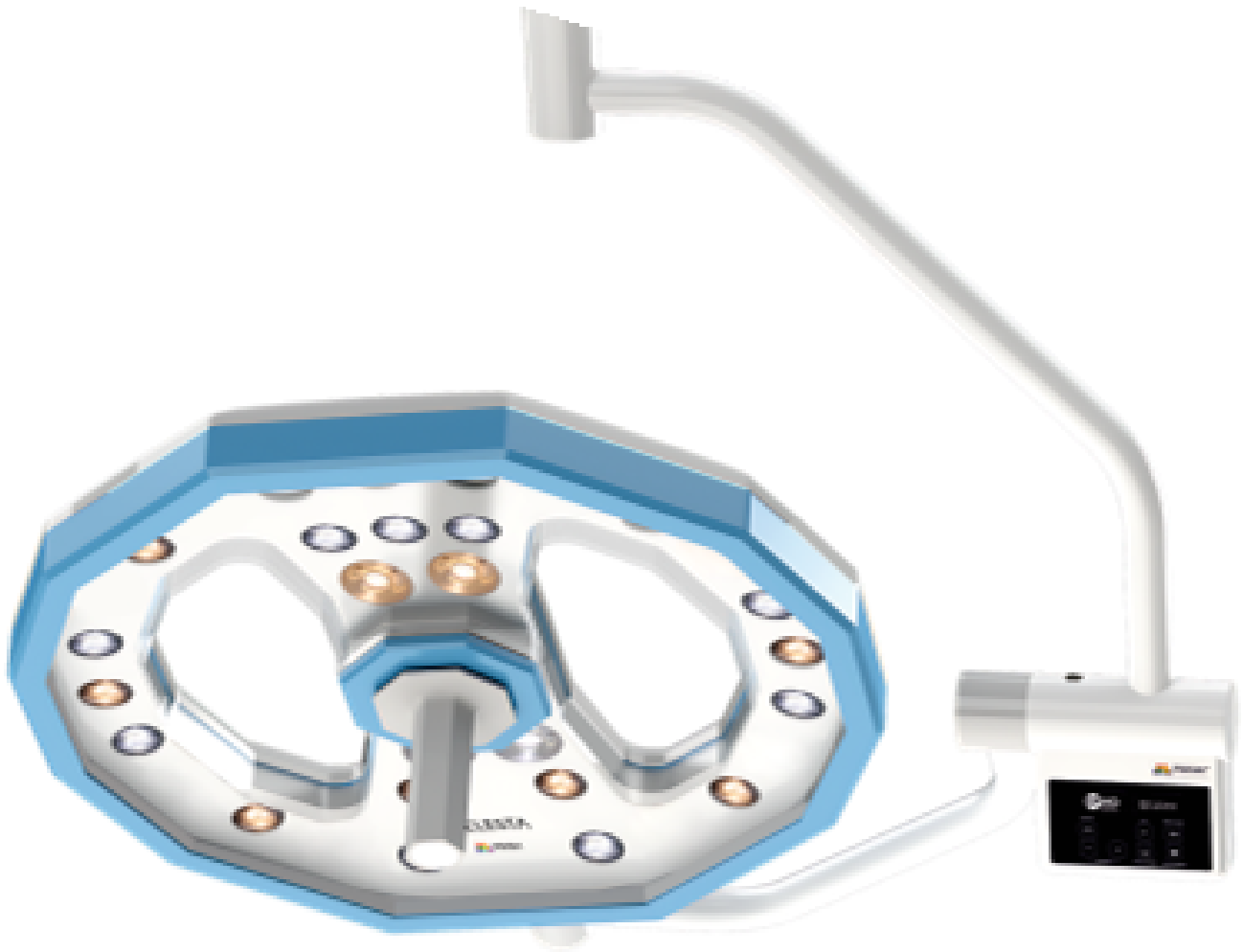




ADVANCED LED SURGICAL LIGHT



Quality, Management, Environment, Health & Safety Standards



CDSCO Certified



USFDA Listed



European CE



ISO 13485:
NABCB/IAF



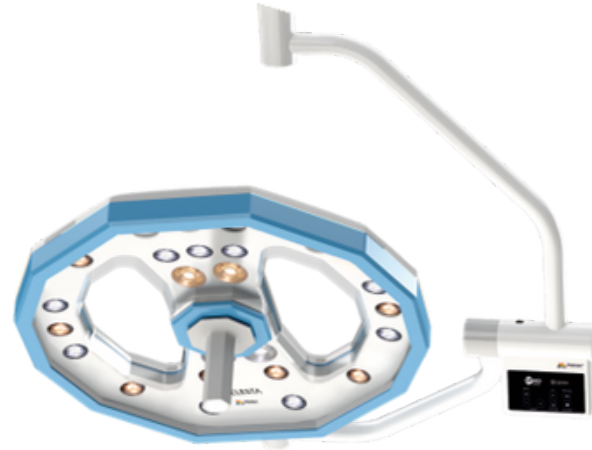
ISO 9001: IAF



7 Electric Safety
Certifications

INTRODUCTION

The LED Surgical Operating Light is a high-performance illumination system designed for precise, shadow-free lighting in operation theaters. Its advanced LED technology ensures uniform brightness, adjustable intensity, and minimal heat emission for a comfortable surgical environment. With a touchscreen control panel and flexible arm mechanism, it offers easy positioning and enhanced visibility, making it ideal for modern surgical procedures. The high CRI (Color Rendering Index) enhances tissue differentiation, while its energy-efficient design ensures long-lasting performance with low maintenance.



CERTIFICATIONS

USFDA Listed with FEI Code, CDSCO Certified, European CE, CE, ISO 13485 from NABCB under IAF, ISO 9001 (IAF), ISO 14001 (IAF), ISO 45001 (IAF), Electric Safety Standards IEC 60601-1-2:2014, IEC 61000-6-1:2016, IEC 60335-2-24:2020, IEC 60335-1:2020, IEC 60364-1:2005, WHO GMP, IP 69, BIFMA, ASTM (Anti Corrosion), EN 13523-26, ISO 13849-1 and Many more.

FEATURES

- Shadow-Free Illumination – Advanced LED technology ensures uniform and shadow-free lighting.
- Adjustable Brightness – Intensity can be controlled to suit different surgical needs.
- High CRI (Color Rendering Index) – Enhances tissue differentiation for precision.
- Cool Light Technology – Minimal heat emission for a comfortable surgical environment.
- Touchscreen Control Panel – Allows easy adjustments of brightness and color temperature.
- Flexible Arm Mechanism – Provides smooth and stable positioning for optimal focus.
- Energy-Efficient LEDs – Low power consumption with long operational lifespan.
- Sterile Handle – Allows sterile control during procedures for hygiene and convenience.
- Multiple Light Modes – Adjustable color temperature and illumination patterns.
- Octagonal Light Design – Improves light distribution and reduces glare.
- Backup Power Support – Optional battery backup for uninterrupted operation.
- Easy Maintenance – Durable, dustproof, and maintenance-free LED technology.

TECHNICAL SPECIFICATIONS

	CELESTA F
Central illuminance (at 1m distance)	1,60,000 Lux
Light field diameter (at 1m distance)	150mm – 300mm
Light head diameter	600mm
Depth of illuminance (20%)	1200mm
Correlated color temperature	3,500K – 5,500K
Color rendering index (Ra)	95
Dimming Range	0 – 100%
Service life of bulb	50,000 hrs
Power supply	200–240V 50/60Hz
Bulb power consumption	65 W
Shadow dilution with tube	94%
Shadow dilution with one mask	75%
Shadow dilution with tube & one mask	70%
Shadow dilution with two masks	55%
Shadow dilution with tube & two mask	45%
Battery Backup (<i>Optional</i>)	1-2 hrs

*The specifications mentioned above can be used for single, double, triple and mobile versions CELESTA series

All values confirm to IEC 60601-2-41 and are subject to general industrial tolerance $\pm 5\%$

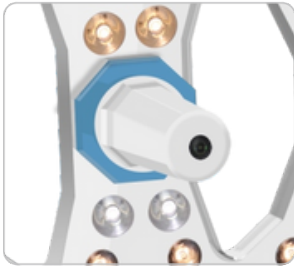
In accordance with the IEC 60601-2-41 standard, the maximum illuminance must not exceed 160,000 lux the industrial tolerance only -5%

CAMERA SPECIFICATIONS

	CAMERA – D	CAMERA – E
Image sensor	1/3-type CMOS (Progressive Scan)	
Effective number of pixels	4.08 M pixels	
Signal system(HD)	720p, 1080p	
Video Output	SDI	HDMI
Zoom	10X optical, 16X digital	
White balance	Auto	
Exposure	Auto, Manual	
Shutter speed	1/1 to 1/10,000 sec	
Focusing system	Auto, Manual, One push	
Signal to noise ratio (SNR)	More than 50dB	
Aperture	F 1.8 – 3.4	

*All specifications are nominal and subject to change without notice A Specification is within $\pm 20\%$ of a stated value at room temperature (25°C) and a nominal input power voltage.(25°C) and a nominal input power voltage.

OPTIONAL ACCESSORIES



Full HD Camera



Monitor Arm



Full HD Monitor



Battery Backup

CONFIGURATIONS



Mobile Version



Single Dome



Double Dome



Triple Dome

ORDERING INFORMATION

CELESTA F Mobile	CSMDF0000
CELESTA F Single Dome	CSSDF0000
CELESTA F Double Dome	CSDDFF000
CELESTA F Triple Dome	CSTDFFF00
CELESTA F Mobile Camera	CSMDF000D/E
CELESTA F Single Dome with Camera	CSSDF000D/E
CELESTA F Double Dome with Camera	CSDDFF00D/E
CELESTA F Triple Dome With Camera	CSTDFFF0D/E
CELESTA F Single Dome with Camera and monitor Arm	CSSDF00ID/E
CELESTA F Double Dome with Camera and Monitor Arm	CSDDFF0ID/E
CELESTA F Triple Dome With Camera and Monitor Arm	CSTDFFFID/E

CERTIFICATIONS & TEST REPORTS

ISO 9001:2015	ISO 13485:2016
CDSCO file no. : Eclips-Thane-MH/M/MD/001760	
CE and US FDA Certified	
IEC 60601-1 Medical electrical equipment Part 1: General requirements for safety and essential performance	
IEC 60601-1-2 Medical electrical equipment Part 1-2: Collateral standard Electromagnetic compatibility-Requirements & test	
IEC 60601-2-41 Medical electrical equipment Part 2-41: Basic safety and essential performance of Surgical luminaires & luminaires for diagnosis	
IEC 60601-1-6 Medical electrical equipment Part 1-6: Collateral standard - Usability	

PRODUCT CERTIFICATION

Quality, Management, Environment, Health & Safety Standards



**50 Products
CDSCO Certified**



USFDA Listed



**8 products tested by a
WHO-accredited laboratory**



European CE



NABCB: ISO 13485



ISO 9001: IAF



ISO 14001: IAF



ISO 45001: IAF



**7 Electric Safety
Certifications**



WHO GMP



**BIFMA Certified,
BIFMA Level 3**



**ASTM- Corrosion
Free Products**



ISO 2409

**EN 13523-26,
ISO 13849-1,
IP 69, IP 65**

& many other...

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1,00,000+

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-  **New Delhi office** - DLF Tower, Jasola | **Chandigarh Office** - CCC, VIP Road
-  **Customer Care No.**+91 91 3030 5959
-  **www.markenworld.com**  **info@markenworld.com**



Authorized Distributor Details