

Advanced Operation Theater Light



CELESTA SURGICAL LIGHTING

"ThePremierOTLight— Every detail, Every life, Illuminated"

"The complex parameters of surgical lighting are merged as harmoniously as the constellation of planets and stars in the Galaxy"



PURPOSE-BUILT CAPABILITIES



High Depth of Illumination

Delivers powerful and uniform light, ensuring clear visibility and enhanced depth across the cavity.



Effortlessly 360 Maneuvering

Lightweight suspension and spring balance mechanism ensure effortless all-axis positioning.



Adjustable CCT & FOCUS

Smart LED design with adjustable color temperature and focus modes to ensure optimal lighting for all surgeries.



Cool Functioning

Energy-efficient LED technology minimizes heat generation, ensuring comfort for the surgeon.



Compact & Streamlined Design

The shape of light has modern aesthetic, aerodynamics and ensures visual comfort by reducing obstruction.



True-to-life colors

Delivers near-perfect color accuracy and saturation with natural white light, enhancing tissue differentiation and vibrancy across full spectrum.



Sterile Handle Control (Optional)

Allows surgeon for controls from sterile handle during procedures maintaining hygiene in the sterile field.



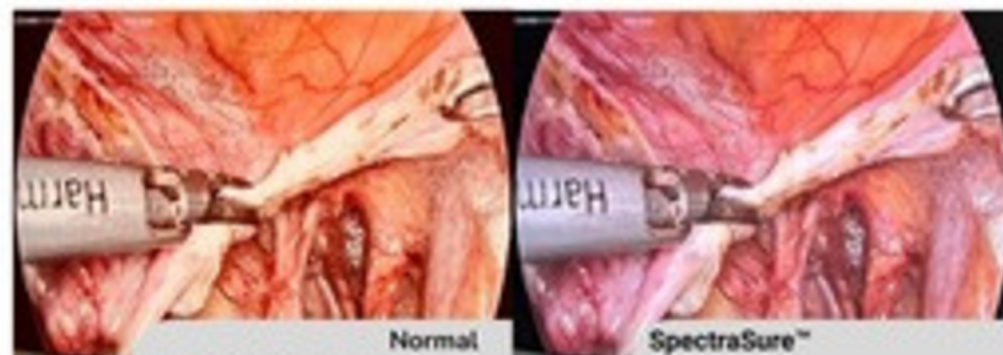
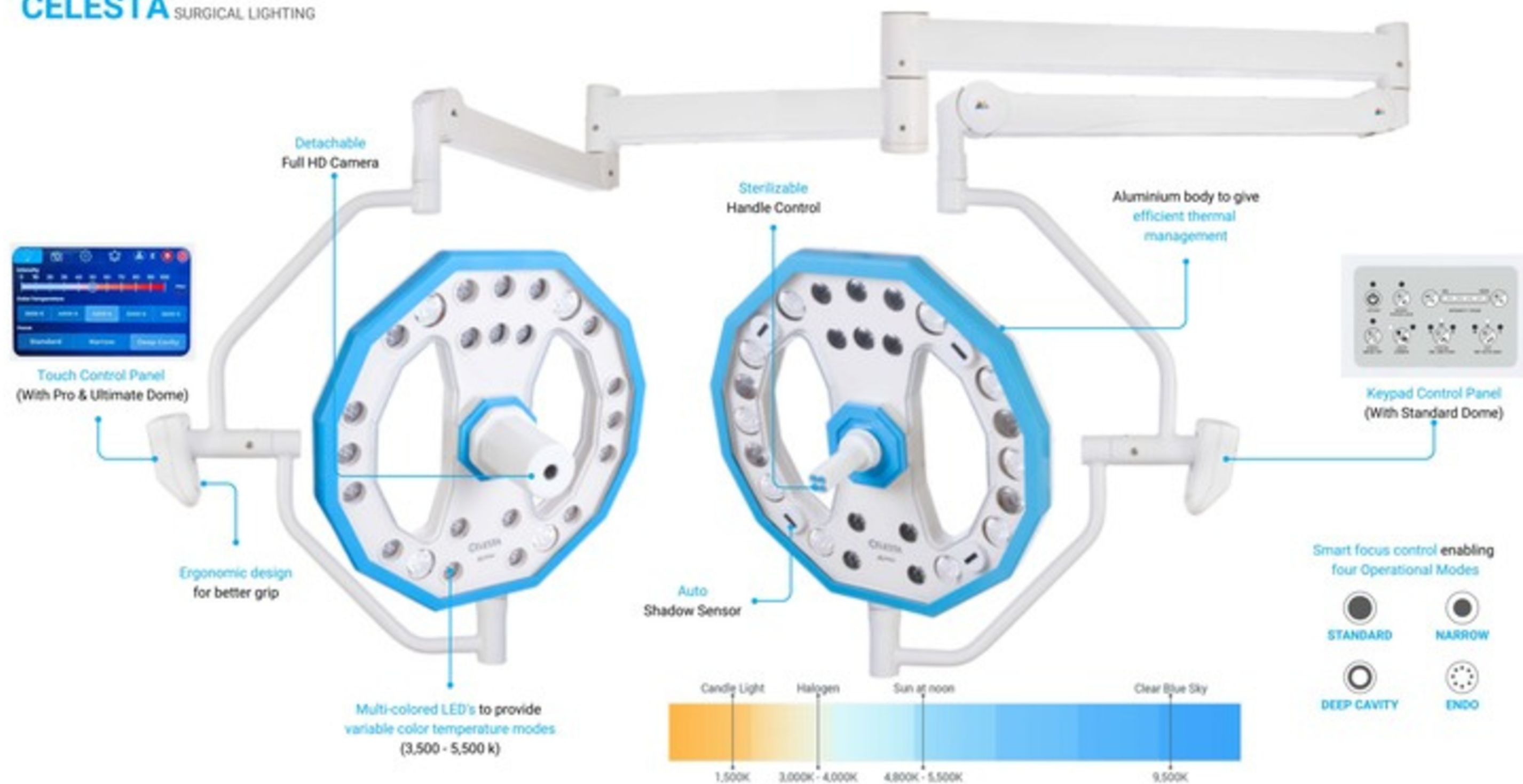
Auto Shadow Management (Optional)

Automatically adjusts lighting to minimize shadows and optimize light intensity based on real-time sensor detection.



Engineered for precision, our modern design ensures seamless laminar flow, exceptional shadow-free illumination, and superior depth visibility. An isometric luminance of **99.3%**—powered by **LumiDepth™**—sets a new standard in optical performance.





SpectraSure™: High-fidelity illumination for true-to-life color

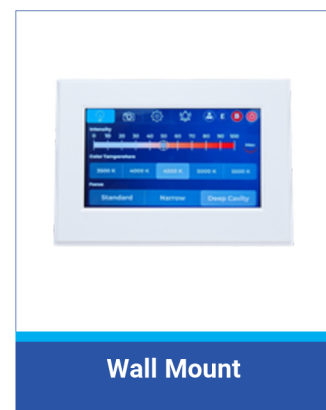
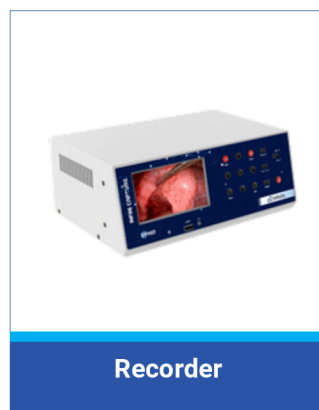
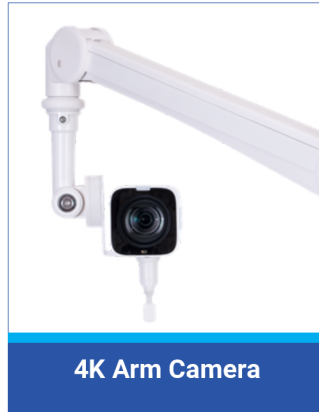


Isometric luminance of 99.3% enabled by **LumiDepth™**

CONFIGURATIONS



ACCESSORIES



SPECIFICATIONS:

CELESTA LIGHTHEAD

PARAMETERS	STANDARD	PRO	ULTIMATE
Max. Central illumination at 1m distance	1,60,000 lux	1,60,000 lux	1,60,000 lux
Light field diameter at 1m (d50-d10)	150mm - 300 mm	150mm - 300 mm	150mm - 300 mm
Light head diameter	600 mm	600 mm	600 mm
Depth of illumination at 20% (L1+L2)	1200 mm	1200 mm	1200 mm
Depth of illumination at 60% (L1+L2)	500 mm	500 mm	500 mm
Correlated Color Temperature (CCT)	3500 K – 5500 K	3500 K – 5500 K	3500 K – 5500 K
Color Rendering Index (CRI)	96	96	96
Power consumption	50 W	55 W	55 W
Focus Mode*	Variable	Variable	Variable
Dimming Range	0 – 100 %	0 – 100 %	0 – 100 %
No. of LEDs	24	24	24
Service life of LED modules	60,000 hrs.	60,000 hrs.	60,000 hrs.
Supply Voltage	230V±10% 50Hz±5%	230V±10% 50Hz±5%	230V±10% 50Hz±5%
Power Supply unit	24V DC ± 10%, 4.2A max	24V DC ± 10%, 4.2A max	24V DC ± 10%, 4.2A max
Operating Temperature	5°C - 40°C	5°C - 40°C	5°C - 40°C
Humidity	10% - 90%	10% - 90%	10% - 90%
Digital Keypad Interface	Yes	Optional	NA
Touchscreen Interface	Optional	Yes	Yes
Sterile Handle Control	NA	Optional	Yes
CRI Boost (Value)	NA	NA	Yes (99)
Auto Shadow Management	NA	Optional	Yes

The specifications mentioned above can be used for single, double, triple and mobile versions of Celesta series. All values confirm to IEC 60601-2-41 & are subject to a general industrial tolerance ± 5% In accordance with the IEC 60601-2-41 standard, the maximum illuminance must not exceed 160,000 lux.

Camera Light head power consumption : Approx. 6W (Extra)

*Focus Mode: **Variable**= Standard, Narrow, Deep Cavity & Endo mode.

CAMERA

CAMERA PARAMETERS	10x FULL-HD CAMERA	30x FULL-HD CAMERA 1/2.8-type
Image Sensor	1/2.8-type CMOS (Progressive Scan)	CMOS (Progressive Scan)
Effective number of Pixels	5.14 M Pixels	2.13 M pixels
Signal system(HD)	720p, 1080p	720p, 1080p
Video Output	SDI / HDMI	SDI / HDMI
Zoom	10X Optical, 16X Digital	30X Optical , 12X Digital
White Balance	Auto, Manual, One push	Auto, Manual, One push
Exposure, Focusing system	Auto, Manual	Auto, Manual
Signal to noise ration	More than 50dB	More than 50dB
Aperture	F 1.8 -3.4	1.6 to 4.7
Power	4.4 W	5 W



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