



**MEDICINOS GIJA**  
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Lumen 160



**SHADOWLESS OPERATING LIGHT**



**LUMEN 160** Cupola, New Leading Technology choosing Monochrome and Phosphor coated LEDs, In line with the rigid requirements of Surgical Lighting producing sharp & constant illumination of pure and natural white light.

The cupola has been specially designed with a smooth and flat surface. Cleaning & Disinfection are facilitated and simplified.

### Features At Glance

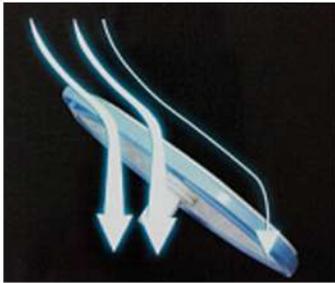
- Higher Maneuverability
- Low maintenance cost
- Long life of the LEDs
- No Pathogen guarantee
- High-contrast & detailed display
- Diminutive warming of the light
- Easy to clean with sealed light head
- High light quality through natural colour rendition
- Energy saving thanks to improved luminous efficiency
- Production of homogeneous, cool light with no UV or IR radiation
- ENDO mode
- LCD touch screen control panel
- Ceiling version is with >2 hours battery backup (Optional)
- Sony Camera FULL HD (Optional)

# Product Functions Description

## 01/ Smart Shape and Design

Its rounded and smooth shape naturally guides air flow to the outside of the light head. Turbulence of Laminar Flow system is considerably reduced.

The lamp shape ensures visual comfort & is especially streamlined for Laminar air flow in the operating area.



## 02/ ASM (Automatic Shadow Management)

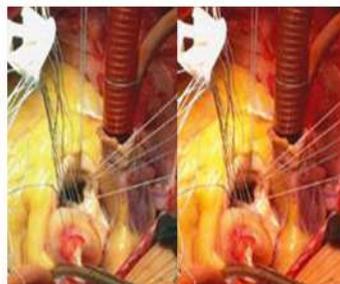
The LUMEN provides smooth lighting with no shadows, especially when the surgeon is working directly under the OR Light.

It provides automatic brightness compensation for blocked light sources to maintain the best shadowless effects for Surgeons & Surgical field is properly illuminated.



## 03/ Color Temperature Adjustable

The combination of latest generation of LEDs provides a high Color Rendering Index (Ra) and a high rendering value for red color (R9). The color temperature is adjustable from 4000 K to 5000 K through operating panel.



## 04/ Electronic Pattern for Optimal Lighting Field Sizes

LEDs are equipped with control modules which are connected with the operating panel. Pattern size is adjustable through touch panel for the adaptation of the desired area.



## 05/ ENDO Mode

The standard functions of the LUMEN 160 light include an ENDO mode which allows the diffusion of ambient light suitable for performing different procedures.



## 06/ Illumination Intensity and Depth

Dimming variable from 10-100% and is freely adjustable, adopting unique optical & focusing technology producing super-long illuminance depth of >1000 mm.





LUMEN 160 / 160

## Technical Parameters

## LUMEN 160

Head Diameter (mm)	700
Light Intensity at 1m (Lux)	80000~160000
Adjustable Color Temperature (K)	4000-5000
Color Rendering Index (Ra)	≥96
Illumination depth (L1+L2) (mm)	>1000
Light Intensity Control	10%-100%
Diameter of Spot (mm)	160-300
Increase of Temperature at Head Hight (°C)	≤2
Type of Intensity Control	Control Panel
Type of Field Focusing Control	Electronically & Sterilizable Handle
Numbers of LEDs	88
Average Lamp Lifetime in hours (h)	>50000
LED Lamp Rated Power	3.2V/1W
Voltage Supply	AC110-240V, 50/60HZ



LUMEN 160/160+CAMERA + MONITOR ARM

## Sony Camera Full HD

20x optical zoom lens with F1.6 aperture (optical zoom+digital zoom=240X)  
 Multi communications protocol supported to be controlled remotely via  
 RS-485-SONY-VISCA, PELCO-D,etc  
 Day and Night:TDN (ICR) for infrared cut filter  
 3D-DNR (Digital Noise Reduction)  
 BLC (Back Light Compensation)  
 Privacy Zone Masking function  
 DSS (Digital Slow Shutter)  
 WDR (Wide Dynamic Range)  
 HLC (High Light Compensation)  
 Motion Detection  
 Image flip



## Technical Parameters

Imager sensor		1/3" CMOS
Lens	Zoom	20X
	Focal Length	3 Mage 4.7~94mm
	Horizontal View Angle	57.4°~3.2°
Picture Quality		Full HD 1080P(1920x1080)
Digital Zoom		12x(240xwith optical zoom)
Image output	HDMI	1920x1080@25/30P 50/60i
		1280x720@25/30P 50/60i
	HD-SDI	SMPTE 292M(1.485Gbps)
		1920x1080@25/30P 50/60i
Monitor	CVBS	SD CVBS(NTSC/PAL), 1.0Vp-p 75
		Optional ( Different Sizes )

\* Values are subject to general industry tolerance of ± 5%



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