

# Maquet PowerLED II

## Driving surgical efficiency to the next level

The best-in-class Maquet PowerLED II Surgical Light brings clear, shadow-free illumination to your general or hybrid operating room. The high-quality illumination reduces eye strain and improves tissue visualization. This light is the evolution of the proven Maquet PowerLED technology, trusted in worldwide operating rooms for more than a decade.



### Maquet PowerLED II Surgical Light benefits:

- **Match the light patch size to the surgical site:** The Maquet PowerLED II light patch is adjustable from 13 cm to 27 cm (5.1 in. to 10.6 in.) to match the surgical site, providing light where it's needed most.
- **Prevent cross-contamination:** An antibacterial coating on high touch surfaces (external handles, wall touch screens, graphic interfaces) minimizes the risk of complications from cross-contamination.
- **Precise positioning:** Use the laser positioning system\* to direct light into the cavity, minimizing repositioning.
- **Reducing visual fatigue to minimize errors:** The Comfort Light option improves visual performance, reduces the sensation of glare while increasing visual acuity, leading to a better working environment for surgeons.
- **Multicolor ambient light to adapt to surgeons' preferences:** Six color selections offer low-level illumination that reduces monitor glare during minimally invasive surgery.
- **Total freedom of movement:** Automatic illumination management (AIM) delivers consistent and effective illumination, by compensating for light path obstruction by surgical staff.
- **Maximizes useful light:** Luminance management device (LMD) automatically regulates the illumination reaching the surgeons' eyes. This technology maximizes useful light and minimizes eye fatigue by adjusting output based on reflective tissue levels, avoiding excessive variations in luminosity.

\* Class II laser: risk of injury. A long eyes exposure to laser can lead to ocular injuries. Do not point a laser beam in unprotected patient eyes. Do not look directly at the laser.

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## Technical data

Optical characteristics	Maquet PowerLED II 700	Maquet PowerLED II 500
Nominal illuminance $E_c$ (lx)		140,000 <sup>1</sup>
Nominal illuminance $E_c$ (lx) with boost mode (lx)		160,000 <sup>1</sup>
Dimming range		10–100% with eye sensitivity response
Light patch diameter (cm / inch)	13–20–27 / 5.1–7.9–10.6	13–20 / 5.1–7.9
Depth of illumination at 20% (cm / inch)	47-88-98 / 18.5-34.6-38.6	71-115 / 27.9-45.3
Depth of illumination at 60% (cm / inch)	24-43-44 / 9.4-16.9-17.3	38-53 / 14.9-20.8
Color rendering index (Ra)		96
Irradiance at nominal illuminance ( $W/m^2$ )		<500 <sup>2</sup>
Nominal LED life time (hr)		>60,000
Ambient light		<500 lx six different colors (yellow, purple, blue, turquoise, green, white)

Shadow dilution <sup>3</sup>	Maquet PowerLED II 700	Maquet PowerLED II 500
Nominal illuminance $E_c$ (lx)		140,000
Shadow dilution with one offset mask (%)		100
Shadow dilution with two masks (%)	100	80
Standard features	AIM, FSP, Integrated antibacterial coating, laser positioning	
Additional options	LMD, Comfort Light	

Full HD wired camera	
Number of pixels	~2.38 Megapixels
Optical zoom	x10 (x120 with digital zoom)

All values are measured according to IEC 60601-2-41.

1. For all light field diameters
2. In standard mode
3. With AIM mode

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