

## GIMALED O.T. LED LIGHTS - 160,000 LUX

GimaLed light with **81 LEDs**: sophisticated design which combines excellent lighting features with exceptional mechanical characteristics for extra soft movement.

**Deep light:** 27 inner fixed Leds for central illumination and 54 LEDs (six modules of nine LEDs each) moved by servo-motor, allow surgeon to adjust light field diameter.

**Shadowless light:** 81 LEDs arranged on a round surface grant the best light emitting surface and avoid any shadow effect caused by any interposition between light beams and lighted surface.

**Bright light:** two colour selections, 4,000K and 4,600K, made of white LEDs only, no coloured shadow effect.

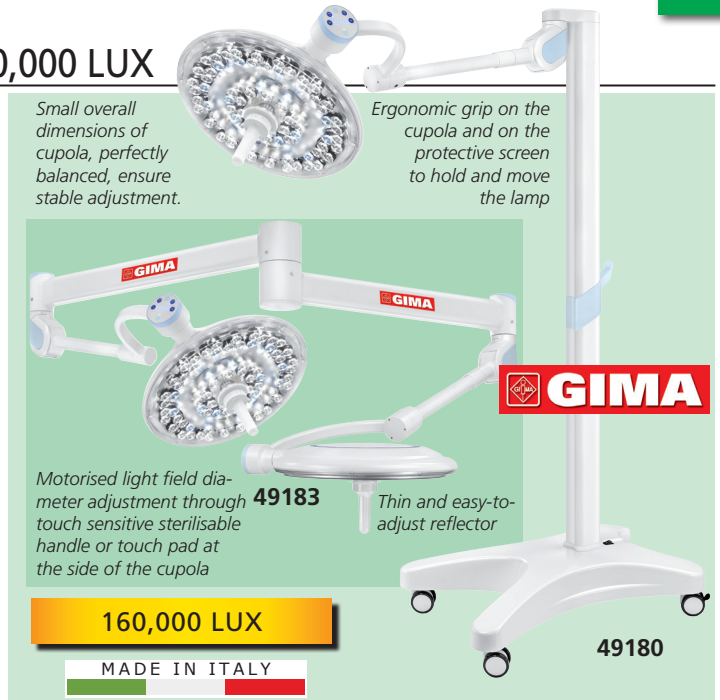
**Major features**

- collimated light beams for a working distance from 70 to 160 cm
- high colour rendering index (CRI) 95, R9 >90
- optimisation of LED thermal management by heat dissipation convection to avoid illuminance reduction during surgery
- PMMA optical lenses and polycarbonate protective screen
- Zener to grant light in case of even one LED failure
- reduced consumption, high efficiency

Electronic control of light adjustment, colour temperature, light field diameter and endoscopy light.

GIMA code	GIMALED
49180	GimaLed - mobile - 160,000 Lux
49181	GimaLed - mobile with battery group and automat. charger
49182	GimaLed - ceiling* - 160,000 Lux
49183	GimaLed - ceiling** - double - 320,000 Lux
49197	Autoclavable handle
49205	Monitor holding arm - stand alone
49220	Special structure for high ceiling
49185	GimaLed wall remote control

\*Ceiling >3.41 m needs 49220      \*\*Ceiling >3.53 m needs 49220



TECHNICAL SPECIFICATIONS	
Light intensity at 1 m distance (Ec)	Klx 160, Klx 320 (only 49183)
2 Colour temperature - switchable	*K 4,000 and 4,600
Colour rendering index (CRI)	Ra 95
Light field Ø (adjustable)	11-35 cm
Light field Ø where illuminance reaches 10% of Ec (d10)	260 mm
Light field Ø where illuminance reaches 50% of Ec	150 mm
Total radiated energy Ee where illumination reaches max level	556 W/m <sup>2</sup>
Average LED life	hours 60,000
Power supply:	100-240 V - 50-60 Hz - 61-71 W
Regulations:	IEC 60601-2-41 - EU 2017/745

## PENTALED 30E LIGHT MINOR SURGERY LAMP 160,000 LUX

Innovative and revolutionary lamp recommended for operating theatres where the surgeon needs a small lamp to avoid interference with other overhead equipment. Excellent for oral and maxillofacial surgery and aesthetic plastic surgery. It has 30 elliptical reflectors split into 6 modules, each containing 5 LEDs, providing 160,000 Lux. Complies with EU 2017/745.

**Innovative design:** same cupola of PentaLED 30E combined with a lighter structure, making it even more cost-effective without compromising light quality.

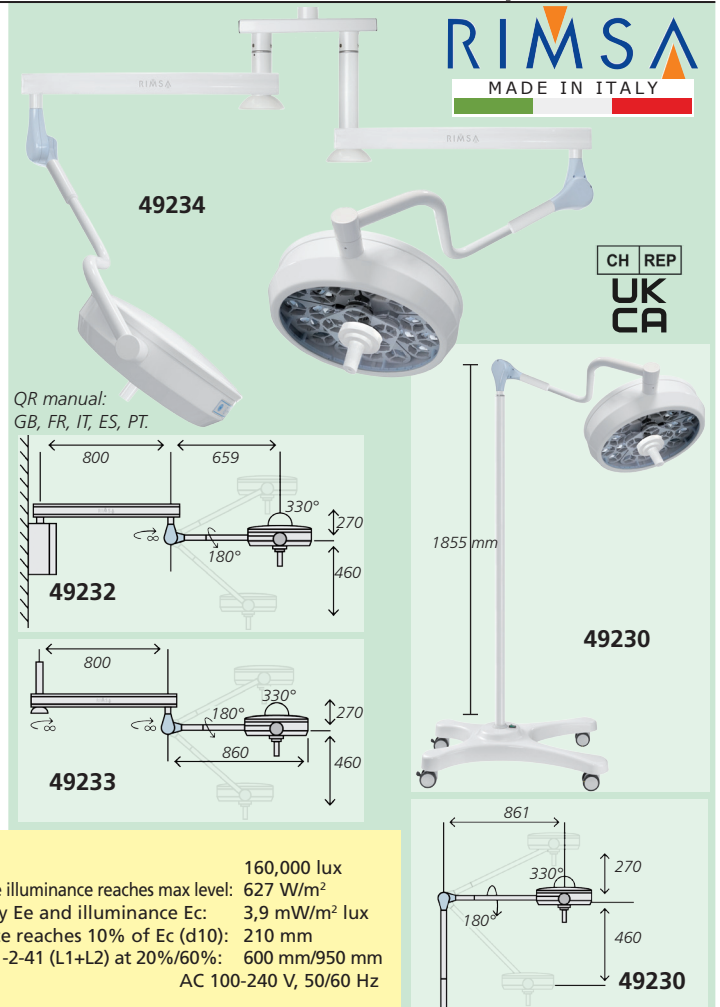
**Superior quality** ensures reliability for critical surgical procedures. **Indirect light** guarantees cold light, depth and no stress or dazzling for the surgeon. This is due to calculated parabolic dishes that reflect the entire spectrum of light emitted by each LED in a punctiform manner, without dispersion.

**Light always on focus:** "E-View" is a lens that lets the surgeon expand/narrow electronically the illuminated operating field, without altering the intensity of the light at the center of the field (Ec). Easy adjustment of the luminous field.

**EndoLed** function provides comfortable lighting during endoscopic surgery. It lights up a single module whose light intensity and colour temperature can be adjusted at will.

GIMA code	PENTALED 30E LIGHT
49230	PentaLED - mobile - 160,000 Lux
49231	PentaLED - mobile with battery group and automat. charger
49232	PentaLED - wall - 160,000 Lux
49233	PentaLED - ceiling* - 160,000 Lux
49234	PentaLED - ceiling** - double - 320,000 Lux
30793	Autoclavable handle
49205	Monitor holding arm - stand alone
30788	Special structure for high ceiling

\*Ceiling >3.41 m needs      \*\*Ceiling >3.53 m needs



TECHNICAL SPECIFICATIONS		
No. of LEDs:	30	Light intensity at 1 m distance: 160,000 lux
Average LED life:	> 60,000 hours	Total radiated energy Ee where the illuminance reaches max level: 627 W/m <sup>2</sup>
Colour temperature:	4,500/5,000 K	Ratio between radiated energy Ee and illuminance Ec: 3,9 mW/m <sup>2</sup> lux
Colour rendering index:	96 Ra (CRI); >90 (R9)	Light field Ø where illuminance reaches 10% of Ec (d10): 210 mm
Adjustable light field diameter:	140-260 mm	Depth of illumination IEC 60601-2-41 (L1+L2) at 20%/60%: 600 mm/950 mm
Light head diameter:	40 cm	Power supply: AC 100-240 V, 50/60 Hz