

GIMALED 29 LED LIGHTS - 160,000 LUX

GimaLed light with **29 LEDs**: sophisticated design that combines excellent lighting features with exceptional mechanical characteristics for extra soft and stable movement.

Deep light: 9 fixed LEDs for central illumination and 20 LEDs (4 modules of 5 LEDs each) with electrical light field Ø control positioned laterally.

Shadowless light: 29 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, 4,500 and 5,000°K made of white LEDs only, to avoid coloured shadow effect.

- collimated light beams for a working distance from 70 to 140 cm
- high colour rendering index (CRI) 96, R9>90

- optimisation of LED thermal management by heat dissipation convection to avoid illuminance reduction during surgery

- indirect light provides cool, deep illumination to avoid surgeon's eyes fatigue and dazzle effect. Parabolas reflect the full spectrum of light emitted by each LED in a point-like manner, without dispersion

- light always in focus: different parabolas design allow to adjust electronically the Ø of the field

- the EndoLed function provides comfortable illumination during endoscopic interventions. It illuminates a single module whose light intensity and colour temperature are individually adjustable

- Zener to grant light even in the event of one LED failure
- low consumption, high efficiency

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

TECHNICAL SPECIFICATIONS

Light intensity at 1 m distance (Ec)	Klx 160, Klx 320 (only 49173)
2 Colour temperature - switchable	°K 4,500 and 5,000
Colour rendering index (CRI)	Ra 96
Light field Ø (adjustable)	14-28 cm
Light field Ø where illuminance reaches 10% of Ec (d10)	200 mm
Light field Ø where illuminance reaches 50% of Ec	110 mm
Total radiated energy Ee where illumination reaches max level	580 W/m²
Average LED life	hours 60,000
Power supply:	100-240 V - 50-60 Hz - 51 W
Regulations:	IEC 60601-2-41 - EU 2017/745

Small overall dimensions of cupola, perfectly balanced, ensure stable adjustment.

Ergonomic grip on the cupola and on the protective screen to hold and move the lamp

Light field diameter adjustment through touch pad at the side of the cupola

49173

Thin and easy-to-adjust reflector

160,000 LUX

MADE IN ITALY

49170

GIMA code	GIMALED 29
49170	GimaLed - mobile - 160,000 Lux
49171	GimaLed - mobile with battery group and automat. charger
49172	GimaLed - ceiling* - 160,000 Lux
49173	GimaLed - ceiling** - double - 320,000 Lux
49197	Autoclavable handle up to S.N. 33035
49198	Autoclavable handle since S.N. 33036
49205	Monitor holding arm - stand alone
49220	Special structure for high ceiling
49175	GimaLed wall remote control for 49170-49172
Battery group available on request for all models	

*Ceiling >3.41 m needs 49220

**Ceiling >3.53 m needs 49220

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
Battery group available on request for all models	

*Ceiling >3.41 m needs 30788

**Ceiling >3.53 m needs 30788

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/m²
Colour temperature:	4,500/5,000 K	Ratio between radiated energy Ee and illuminance Ec:	3,9 mW/m² 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

