

PENTALED 63N THEATRE LIGHTS

PENTALED 63N

High-tech product designed to guarantee excellent performance levels. PENTALED 63N has 72 elliptical reflectors (30 reflectors PENTALED 30N) split into 8 modules, each containing 9 LEDs. The multiplicity of the luminous sources and the elliptical geometry of the parabolas studied to reflect in the depth the light beams generated by the LEDs, grant scialytic light for a 3D illumination without shadows. Complies with EU2017/745 'Class I - MD.

Comfortable use

Principle of indirect light allows different light positions without dazzling the surgeon. The modules are mechanically focused by rotating the sterilizable handle.

Superior lighting features

Membrane keyboard activates the following functions:

- selection of the colour temperature 5,000°K and 4,500°K
- adjustment of the light intensity up to 160 Klx
- endo light with colour selection (comfortable light for endoscopy intervention)
 - on/off

The colour temperature of 5,000°K stimulates the surgeons' concentration, does not strain their sight, reproduces the colour of the tissues faithfully and increases the definition of the edges.

Reliable and long lasting performances

The modular construction of the electronic board that feeds the LEDs guarantees continuous light, even if a LED or board component fail. The lighting body is protected by tempered glass screen, covered by a special film.

Easy manoeuvrability and high stability

The extremely light structure, the aluminium treated bar attached to the upper front of the cupola, the ultra-thin dome (only 13 cm) allow simple movements. Smooth 360° rotation.

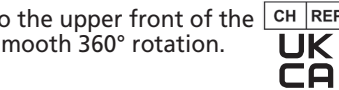
Battery group, TVCC camera, monitor holding arm on request



63N 160,000 LUX

49200

QR manual: GB, FR, IT, ES, PT



TECHNICAL SPECIFICATIONS

	63N	30N
Light intensity at 1 m distance (Ec)	160 klx	160 klx
Colour temperature: double selection	4,500/5,000 °K	
Colour rendering index (CRI)	96 Ra	
Light field diameter adjustable from/to	16-30 cm	14-28 cm
Total radiated energy Ee at max level	580 W/m ²	
Number of LED	72	30
Diameter and focus adjustment	manual	
Depth of illumin. IEC 60601-0-41 L1+L2 at 60%	56 cm	65 cm
Depth of illumin. IEC 60601-0-41 L1+L2 at 20%	108 cm	115 cm
Control of illuminance	20-100 %	
Endo LED light intensity min-max	5-20 klx	9-25 klx
Operating power (VAC)	100-240 V - 50/60 Hz - 24 V	
Electrical absorbed power	67 VA	60 VA
Average LED life	60,000 h	
Colour	9003 RAL	
Minimum height of the room	260 cm	
Outer reflector diameter	63 cm	40 cm
Useful lighting surface	1828 cm ²	762 cm ²
Weight	47 kg	39 kg

PENTALED 63N AND 30N THEATRE LIGHTS - CEILING*

GIMA code	Description
49200	PENTALED 63N* - 160,000 LUX
49201	PENTALED 63N+30N double** - 320,000 LUX - compact
49202	PENTALED 63N+63N double** - 320,000 LUX - plus

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

ACCESSORIES

30738	Autoclavable handle - spare for PENTALED 63N, 30N
49205	Monitor holding arm - stand alone
49206	IR remote control - single lamps

ACCESSORIES TO BE ORDERED WITH LIGHT

49210	Battery group with automatic charger for 63N***
49211	Battery group with automatic charger for 63N+30N***
49212	Battery group with automatic charger for 63N+63N***
49214	HD TVCC camera for 63N - including lamp setup
49215	Monitor holding arm - integrated with lamp
49220	Special structure for high ceiling

***Hours autonomy: 1.5 hours for 63N, 4 hours for 30N

PENTALED 30E THEATRE LIGHTS 160,000 LUX

LED LIGHT INNOVATIVE TECHNOLOGY

A compact size hi-tech product that guarantees great performance levels. It has 30 elliptical reflectors split into 6 modules each containing 5 LEDs, providing 160,000 LUX

- **selectable 4,500 °K - 5,000 °K** by pressing the digital key, the surgeon can choose two different white light temperatures
- **E-view:** innovative lens allows to expand/narrow the illuminated operating field electronically, without altering intensity of light.
- **E-comfort:** the indirect LEDs creates 3D shadowless illumination of the operating field, no risk of dazzling
- **E-white:** only white LEDs to avoid risk of perception of colour temperature variations or coloured shadows
- **E-deep:** centre of light is fitted with extra LEDs module specifically designed to reflect deep light for perfect 3D lighting.

Battery and high definition camera on request: battery group with automatic charger (4 hours autonomy) and HD integrated camera (for ceiling model only).

Long arm (985 mm) for optimal positioning.

Complies with EU 2017/745 Class I - MD.



TECHNICAL SPECIFICATIONS

Adjustable light intensity at 1 m distance (Ec)	160 Klx
Colour temperature - switchable	4,500 to 5,000 °K
Colour rendering index (CRI)	Ra 96
Light field (electronically adjustable)	14-26 cm
Light field Ø where illuminance reaches 10% of Ec (d10)	210 mm
Light field Ø where illuminance reaches 50% of Ec	80 mm
Total radiated energy Ee where illumination reaches max level	627 W/m ²
Average LED life	60,000 hours
Power supply:	100-240 V - 50-60 Hz - 60 VA
Regulations:	IEC 60601-2-41 - EU 2017/745

PENTALED 30E

30780	PentaLED 30E - mobile - 160,000 Lux
30779	PentaLED-mobile with battery group and automatic charger
30782	PentaLED 30E - ceiling* - 160,000 Lux
30783	PentaLED 30E - ceiling** - double - 320,000 Lux
30785	Autoclavable handle - up to serial number 12071
30738	Autoclavable handle - since serial number 12072
49205	Monitor holding arm - stand alone
49220	Special structure for high ceiling

*Ceiling >3.41 m needs 49220

**Ceiling >3.53 m needs 49220