

## 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 scalytic 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.

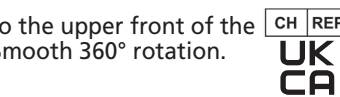
#### Reliable and long lasting performances

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**



#### 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/m²	
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 cm²	762 cm²
Weight	47 kg	39 kg

GIMA code	PENTALED 63N AND 30N THEATRE LIGHTS - CEILING*
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/m²
Average LED life	60,000 hours
Power supply:	100-240 V - 50-60 Hz - 60 VA
Regulations:	IEC 60601-2-41 - EU 2017/745



GIMA code	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