

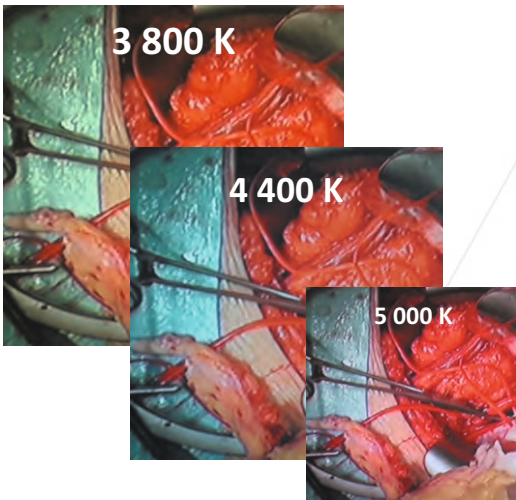


plusLED

The most modern Polish LED operating lamps

The plusLED 96 ECO and 56 ECO operating lamps are the newest solution especially designed for customers oriented towards price / quality ratio.

Lamps provide a precise light wherever it is needed. The homogeneous nature of the light increases the surgeon's working comfort in every corner of a large operating area. The high shadowless effect and the possibility of illumination of deep operating fields have been achieved by using the increased quantity of high quality diodes. White LEDs, used in the construction are the fifth-generation LEDs of impressive lifetime of over 50000 hours.



The primary task of plusLED operating lamps is an accurate representation of the colour spectrum of the operating field - in particular the red color. The colour spectrum of the operating field is rendered naturally. Delicate and precise light of the plusLED lamp is friendly and provides welcome relief for surgeon eyes. Three colour temperature levels are available to meet the requirements of each surgical team.

The innovative control panel, placed nearby the headlight is ideal from the ergonomics point of view.

It allows to turn on the device, change the light intensity, choose the colour temperature, turn on the endoscopic mode and control the camera parameters.



The safety ESG glass, used in the construction of the lamp, is resistant to breakage and scratches.

Lamp housing is made of light aluminum alloys, which guarantee shock resistance and long life.

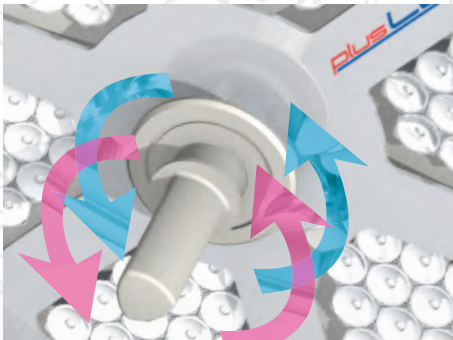
A stylish design and various coloristic options of finishing will satisfy the most demanding customers.

The non-sterile handle in the form of a long railing is easy to keep clean, improving the hygienic aspects. Besides it is perfectly compatible with laminar flow.

The HDTV camera can be placed in one of the headlights. This solution gives invaluable opportunities of video surveillance and visual communication within the operating room.

The image taken from the HDTV camera can be also displayed example on a functional, wireless tablet.

The system software installed on the tablet allows for adjusting the operating characteristics of the lamp. You can change the basic parameters of the light, such as brightness and diameter of the surgical field using the touch screen. Ergonomic, clear and intuitive interface based on clear and legible symbols additionally enhances the unique solutions of the software.



The main advantage of the pluLED operating lamps is a double function, central sterile handle which allows the surgeon to change not only the diameter of the illuminated field but also the light intensity, simultaneously.

The above-mentioned, innovatory solution is available in selected models.



Technical parameters of plusLED 96 ECO and plusLED 56 ECO lamps.



plusLED 96 ECO
ceiling-mounted operating lamp



plusLED 96 ECO / 56 ECO
ceiling-mounted operating lamp

	Parameter	plusLED 96 ECO	plusLED 56 ECO
General data	Number of LEDs	108	72
	Life-span of the LEDs	>50 000 h	>50 000 h
	Diameter of the lamp head	670 mm	530 mm
Photometric values	Light intensity at 1 m distance (Lx)	160 000 lx	130 000 lx
	Electronic brightness adjustment	25 do 160 klx	25 do 130 klx
	Focusable size of the light field	160 -320 mm	160 -280 mm
	Colour rendering index Ra (CRI)	96	96
	Illumination depth (L1 + L2) 20%	1200 mm	1000 mm
	Illumination depth (L1 + L2) 60%	820 mm	700 mm
	Colour temperature (Kelvin)	3800K-4400K-5000K	3800K-4400K-5000K
Other parameters	Endo-Light AMBIENT	2-8 klx	2-8 klx
	Height adjustment	800 mm	800 mm
	Power supply*	~230V, 50 Hz	~230V, 50 Hz
	Nominal voltage	24 V	24 V
	Maximum current consumption	3,0 A	3,0 A
	Rated power output	80 W (80VA)	60 W (60VA)
	IP protection class	57	57

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plusLED ECO

A new generation of examination and diagnostic lamps plusLED (ECO versions)

PLUS LED 7 ECO



Thanks to their great performance and outstanding energy efficiency, the use of LEDs to illuminate demanding environments is becoming more and more common.

Compared to conventional lamps, light emitting diodes have a whole range of technological, economic and ecological advantages: low heat generation, minimal power consumption and an almost unlimited life expectancy. Low power consumption and durable LEDs minimize the impact on our precious environmental resources.

PLUS LED 24 ECO



The plusLED 24 ECO and 7 ECO examination and diagnostic lamps are the newest solution, especially designed for customers oriented towards price / quality ratio.

Lamps provide a precise light wherever it is needed. The primary task of plusLED examination and diagnostic lamps is an accurate representation of the colour spectrum of tissues.

Delicate and precise light of the plusLED lamps is friendly and provides welcome relief for doctor's eyes.



Polish Manufacturer of examination and diagnostic LED lamps



Some models of plusLED lamps are equipped with a stand-by rechargeable battery which is able to serve even a few hours in case of electrical outage. The battery is automatically rechargeable and does not affect the normal service.

General Data	Parameter	plusLED 24 ECO	plusLED 7 ECO
Photometric values	Light intensity (lx)	70 000 lx (at 1 m distance)	30 000 lx (at 0,5 m distance)
	Size of the light field	150 mm	100 mm
	Colour rendering index Ra (CRI)	95	93
	Colour temperature (Kelvin)	4300K	4800K
Other parameters	Power supply*	~230V, 50 Hz	~230V, 50 Hz
	Life-span of the LEDs	>50 000 h	>20 000 h

* versions with different type of power supply available on request.

All values in accordance with EN 60601-2-41.

All light specifications $\pm 10\%$.

EN ISO 9001 · EN ISO 13485

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