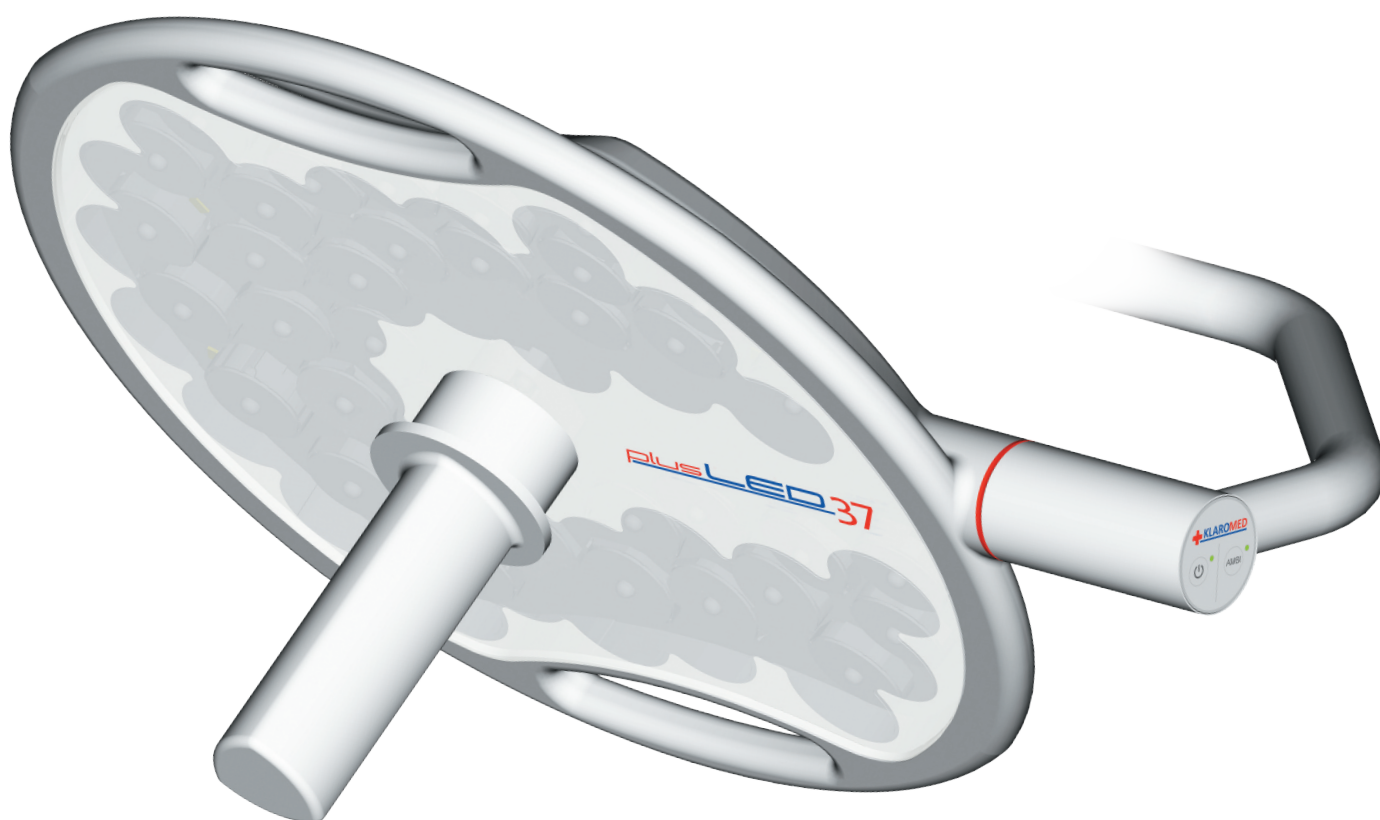


NEW generation of diagnostic - examination lamps

plusLED



+ KLAROMED

*polish Manufacturer
of LED's examination lamps*



The most modern polish LED's diagnostic-examination lamps

Features of plusLED lamps

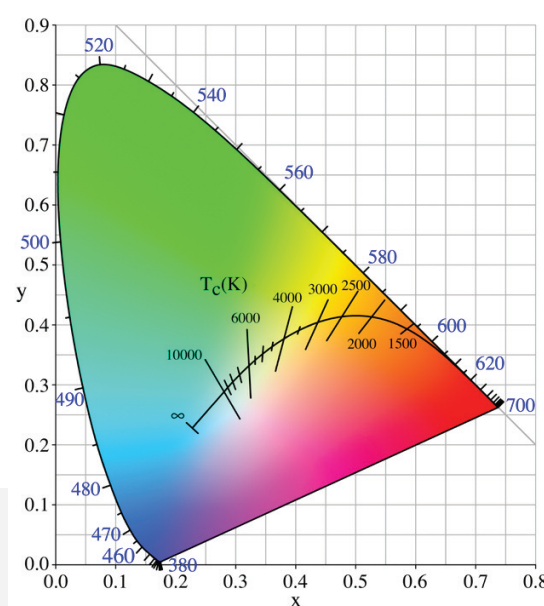
To meet the needs of all types of modern surgery, we have developed an innovative solution, which is a lamp plusLED.

The lamps provide light precisely where it is needed. The homogeneous nature of light enhances the surgeon's comfort when operating at any point of operating field.

PlusLED lamps are characterized by emission of extremely low heat flow in operating field direction. The primary task of diagnostic surgical plus LED lamps is clear lighting of surgical field area and, in particular, of the red color gamut.

Diagnostic surgical plus LED lamps perfectly reproduce colors, R_a ratio is 93. Due to the red light R_g ratio of 90 a surgeon is capable of seeing the finest details of tissue.

The value of the coefficient of R_g , exceeding 90 greatly facilitates the surgeon's work and improves the ability to see details.



The color spectrum of surgical field is displayed in a natural way. Delicate and subtle plusLED lamp is not aggressive but comfortable to the surgeon's eyes.

The white plusLED diodes used in the lamp design, which are the fifth generation of LEDs, have an impressive service life of 50 000 hours.

PlusLED lamps are the best in the market in this category of lamps.



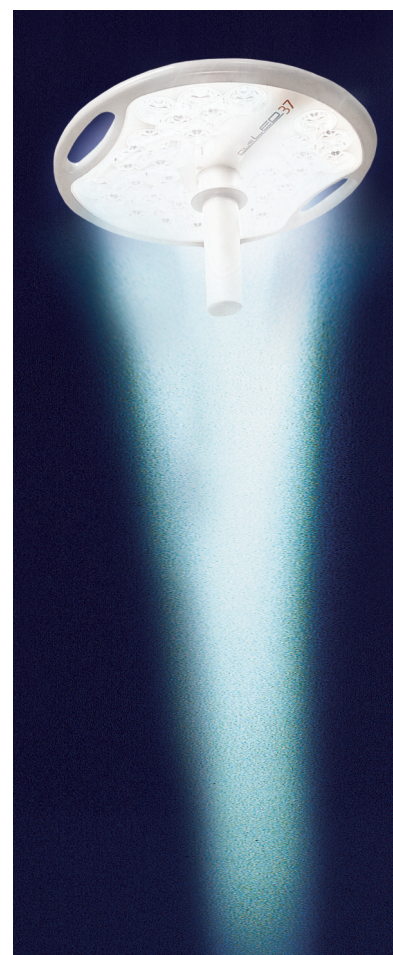


Location and placement of individual LEDs, equipped with lenses on the matrix in the lamp housing, which emit a homogenous light beam, eliminates shadows in the operating field.

This solution also provides even illumination of the surgical field with warm white light with color temperature of 4300 K.

To maintain the highest standards of diagnostic surgical lamps, plusLED may have different color temperature.

Other color temperatures are available for selection and are determined in close collaboration with the user and taking into account his preferences.



The main advantage of diagnostic surgical lamps is a two-function central sterile handle that allows a surgeon to adjust not only the diameter of the lighted field, but also lighting intensity.

This is a novelty in the field of surgeon work ergonomics, preserving the working area sterile.

The new family of lamps plusLED is characterized by ease of use, optimal illumination intensity matching and precision of setting.

Due to ergonomic design of the lamp, surgical field lighting control arrangement can be carried out with one hand only, using the center handle. The plusLED lamp 37 and 24 is available as a mobile lamp, wall and ceiling lamp.



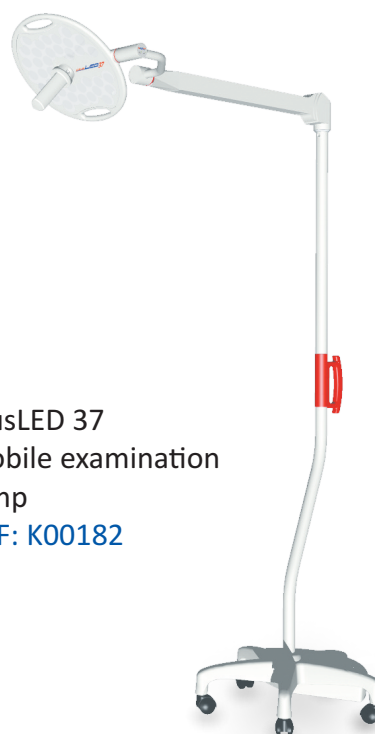
Technical parameters of plusLED lamps

plusLED 37
examination lamp
REF: K00180



plusLED 37
wall mounted
examination lamp
REF: K00181

plusLED 37
mobile examination
lamp
REF: K00182



General Data	Parametr	<i>plusLED 37</i>	<i>plusLED 37 eco</i>	<i>plusLED 24</i>	<i>plusLED 24 eco</i>
	Number of LED's	37		24	
	Life-span of the LED's	>50 000 h			
	Diameter of the lamp head	340 mm			
Photometric values	Light intensity at 1 m distance (Lx)	110 000 lx	100 000 lx	60 000 lx	50 000 lx
	Electronic brightness adjustment	10 do 100 %			-
	Focussable size of the light field d ₁₀	220 do 300 mm	220 mm	220 mm	220 mm
	Colour rendering index R _a	93			
	Red rendering index R _g	90			
	Colour temperature T _c (Kelvin)	4 300 K (4 800 K ¹)			
	Illumination depth (L ₁ + L ₂) at 20% E _c	1 700 mm			
	Illumination depth (L ₁ + L ₂) at 60% E _c	1 000 mm			
Other parameters	Endo-Light	5% adjustable	-	-	-
	Height adjustment	+/- 40°			
	Temperature increase in head area	< 0,5 °C			
	Power supply	~230V, 50 Hz ²			
	Nominal voltage	24 V			
	Rated power output	47 W (47 VA)	30 W (30 VA)	20 W (20 VA)	17 W (17 VA)
	IP protection class	42			

¹ version with a different color temperature of light available as an option

² versions with different type of power supply available on request.

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

All light specifications ± 10%.

EN ISO 9001 · EN ISO 13485

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