



MEDICAL LIGHTS

micr^oline

Material médico e científico Lda

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



COMPACT: 63N+30N 320,000 LUX

30N 160,000 Lux

63N 160,000 Lux 49201



PLUS: 63N+63N 320,000 LUX

63N 160,000 Lux

63N 160,000 Lux 49202



TVCC camera

49214

49205

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 illum. IEC 60601-0-41 L1+L2 at 60%	56 cm	65 cm
Depth of illum. 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 VA	
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.



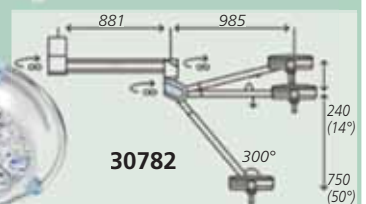
An aluminium ring runs around the dome for easier positioning



30783

Aluminium structure tested for over 40,000 movements

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



30782

PENTALED 30E

GIMA code	Description
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

GIMALED O.T. LED LIGHTS - 160,000 LUX

GimaLed light with **81 LEDs**: sophisticated design which combines excellent lighting features with exceptional mechanical characteristics for extra soft movement.

Deep light: 27 inner fixed Leds for central illumination and 54 LEDs (six modules of nine LEDs each) moved by servo-motor, allow surgeon to adjust light field diameter.

Shadowless light: 81 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, 4,000K and 4,600K, made of white LEDs only, no coloured shadow effect.

Major features

- collimated light beams for a working distance from 70 to 160 cm
 - high colour rendering index (CRI) 95, R9 >90
 - optimisation of LED thermal management by heat dissipation convection to avoid illuminance reduction during surgery
 - PMMA optical lenses and polycarbonate protective screen
 - Zener to grant light in case of even one LED failure
 - reduced consumption, high efficiency
- Electronic control of light adjustment, colour temperature, light field diameter and endoscopy light.

GIMA code	GIMALED
49180	GimaLed - mobile - 160,000 Lux
49181	GimaLed - mobile with battery group and automat. charger
49182	GimaLed - ceiling* - 160,000 Lux
49183	GimaLed - ceiling** - double - 320,000 Lux
49197	Autoclavable handle
49205	Monitor holding arm - stand alone
49220	Special structure for high ceiling
49185	GimaLed wall remote control

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



TECHNICAL SPECIFICATIONS	
Light intensity at 1 m distance (Ec)	Klx 160, Klx 320 (only 49183)
2 Colour temperature - switchable	*K 4,000 and 4,600
Colour rendering index (CRI)	Ra 95
Light field Ø (adjustable)	11-35 cm
Light field Ø where illuminance reaches 10% of Ec (d10)	260 mm
Light field Ø where illuminance reaches 50% of Ec	150 mm
Total radiated energy Ee where illumination reaches max level	556 W/m ²
Average LED life	hours 60,000
Power supply:	100-240 V - 50-60 Hz - 61-71 W
Regulations:	IEC 60601-2-41 - EU 2017/745

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.

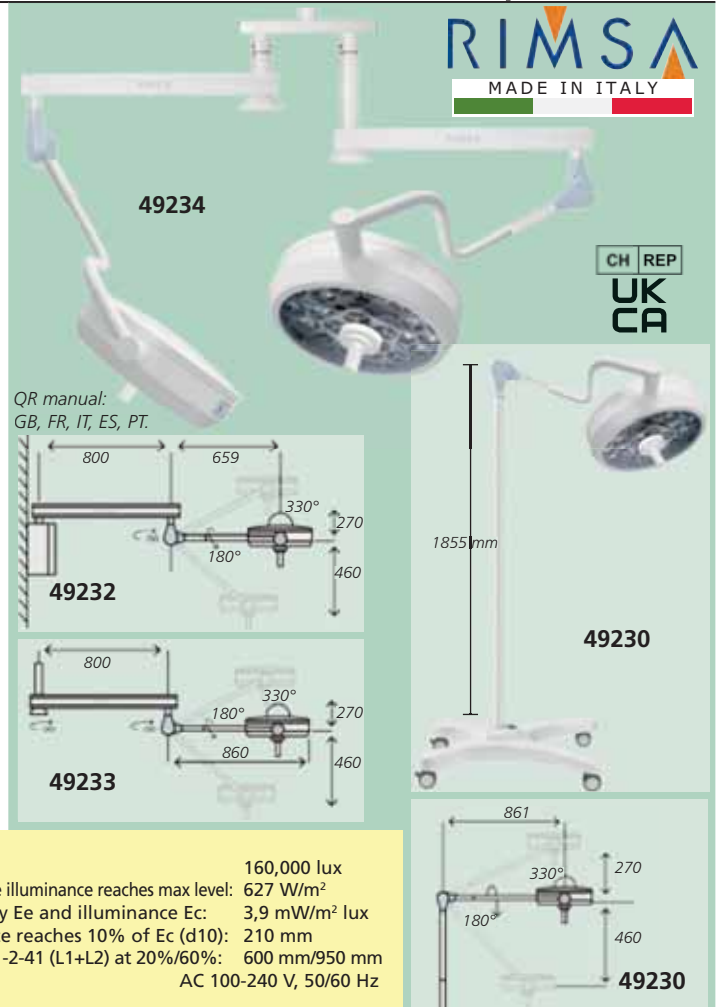
Superior quality ensures reliability for critical surgical procedures. **Indirect light** guarantees cold light, depth and no stress or dazzling for the surgeon. This is due to calculated parabolic dishes that reflect the entire spectrum of light emitted by each LED in a punctiform manner, without dispersion.

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

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



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/m ²
Colour temperature:	4,500/5,000 K	Ratio between radiated energy Ee and illuminance Ec:	3,9 mW/m ² 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

QUATTROLUCI LED LIGHTS - 160,000 LUX

QUATTROLUCI LED LIGHTS - 4 DOMES WITH 9 LEDS EACH

Aerodynamic design, extremely handy structure, high technology, quality and performance in one lamp. The multi-circular reflector, designed to light up the work area thoroughly and suppress all the shadows, is equipped with central handle to facilitate positioning. Ultra-flat lighting body is equipped with ultra-resistant polycarbonate screen, which guarantees protection against possible accidental collisions. Its rotation on 4 axes facilitates positioning. The dome consists of 36 LED lenses arranged radial fashion on 4 module of 9 LED each, to ensure light continuity even in the rare case of individual LED fault. Light intensity is 160,000 lux. Excellent for oral and maxillofacial surgery and aesthetic plastic surgery.

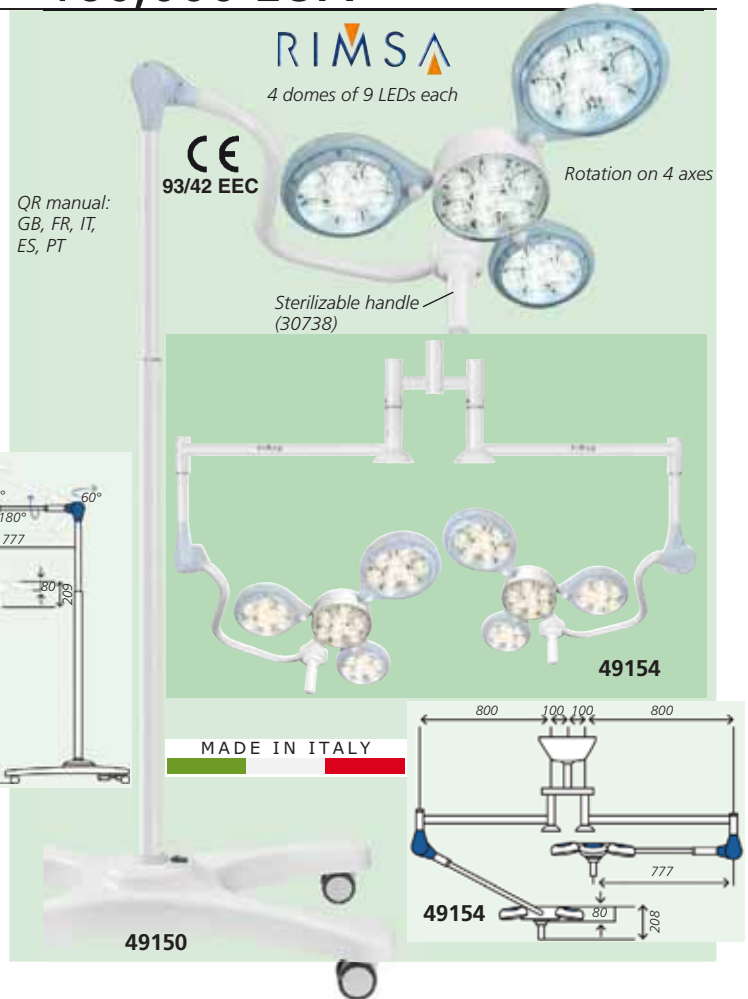
TECHNICAL SPECIFICATIONS

Light intensity at 1 m distance:	160,000 lux
Colour temperature:	4,900° K
36 LEDs average LED life:	>60,000 hours
CRI (Chromatic Rendering Index):	94
Diameter of the reflector:	60 cm
Diameter of illuminated field:	30 cm
Depth of illumination IEC 60601-2-41 (L1+L2) at 20%:	174 cm
at 60%:	110 cm
Total radiated energy:	Ee 570 W/m ²
Weight (ceiling, mobile, wall) kg:	15, 23, 14
Min./Max. height of the room (ceiling version):	255-334* cm
Power supply:	100-240V - 50/60 Hz
Norms:	IEC 60601-1, IEC 60601-2-41 - EU 2017/745

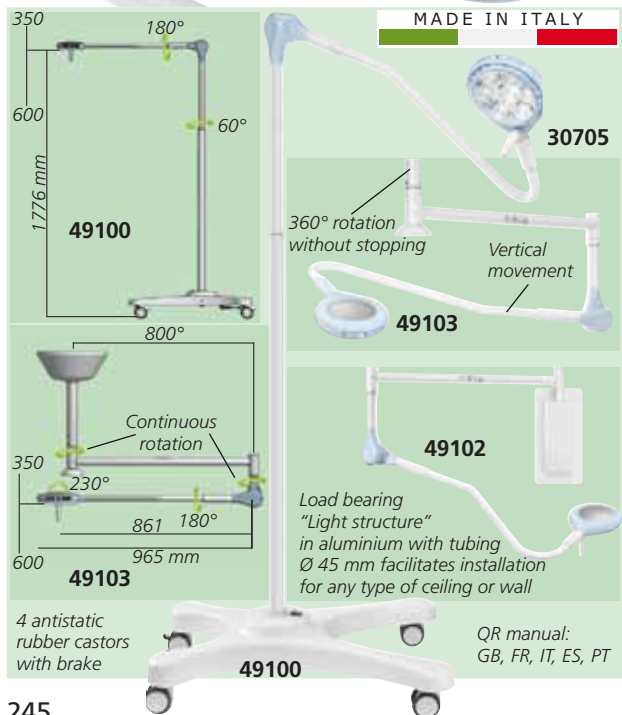
GIMA code	QUATTROLUCI LED LIGHTS
49150	Quattroluci Led light - trolley
49151	Quattroluci LED light - trolley+battery group+automatic charger
49152	Quattroluci LED light - wall
49153	Quattroluci LED light - ceiling*
49154	Quattroluci LED light double - ceiling**
30788	Special structure for high ceiling
30738	Autoclavable handle - spare

Battery group available on request for all models***

*Ceiling >3.34 m needs 30788 **Ceiling >3.58 m needs 30788 ***To be ordered with light



SATURNO LED LIGHTS - 50,000 LUX



SATURNO LED MINOR SURGERY LAMP

SATURNO is a shadow-less type lamp suitable for small surgery, gynaecology and examination. Available in three versions: mobile with castors, wall and ceiling.

- light beams are generated from 9 LEDs - 2.0 W each
- heat is dissipated through aluminium cover reflector
- selection of 2 different white light temperatures: 4,000 and 4,500 °K
- light intensity adjustable at 7 different levels through front digital panel
- luminous intensity 50,000 LUX at 1 m. Ø of illuminated field 28 cm
- adjustable friction bearing are mounted on every articulation of the lamp
- thanks to optical concept, no need to be focus adjusted

Battery group with charger: 4 hours autonomy, 6 hours recharging.

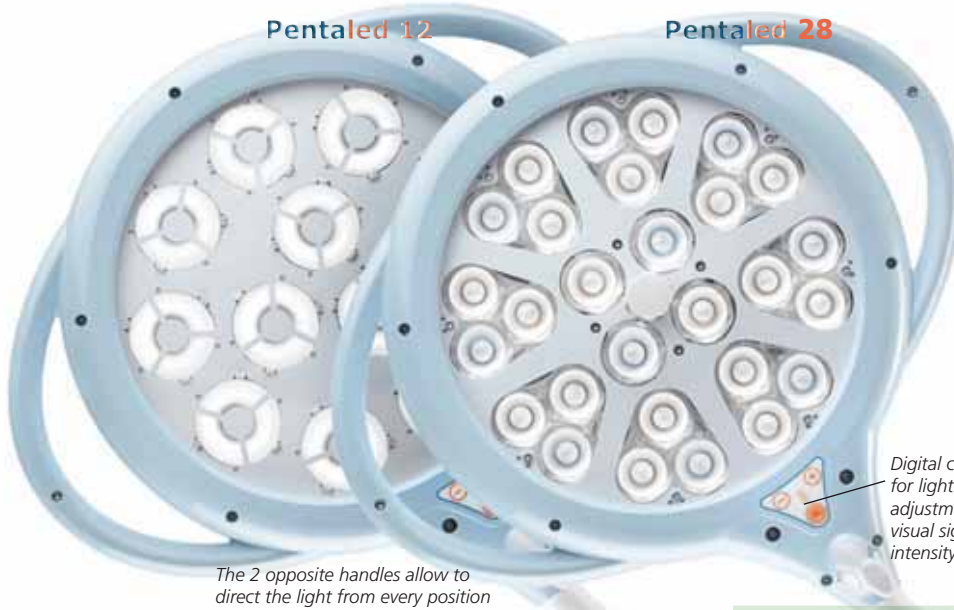
TECHNICAL SPECIFICATIONS

Light intensity at 1 m distance	Lux	50,000
Colour temperature adjustable	K°	4,000/4,500 ± 5%
9 LEDs	W	2.0 each (18 total)
Average LED life	hours	60,000
CRI (chromatic rendering Index)	Ra	95
Diameter of illuminated field	Ø cm	28
Depth of illumination IEC 60601-2-41 (L1+L2) at 60% of Ec	cm	110
Total radiated energy Ec	W/m ²	186
Diameter of the reflector	cm	19.5
Useful lighting surface of the cupola	cm ²	63
Weight (ceiling, mobile, wall)	kg	12 - 20 - 11
Power requirements	V, Hz	100-240, 50-60
Minimum height of the room (ceiling version)	cm	254.5
Standards: IEC 60601-1 IEC 60601-2-41, EU 2017/745, medical device of Class I		

GIMA code	SATURNO LED LIGHTS
49100	Saturno LED light - mobile stand
49101	Saturno LED light - mobile stand with battery group
49102	Saturno LED light - wall
49103	Saturno LED light - ceiling* (2.54-3.34 m)
30788	Special structure for high ceiling (>3.34 m)
30797	Spare autoclavable handle for Saturno
	Battery group with automatic charger available on request for all models (to be installed at order)

*Ceiling >3.34 m needs 30788

PENTALED 12 - 100,000 LUX, PENTALED 28 - 120,000 LUX



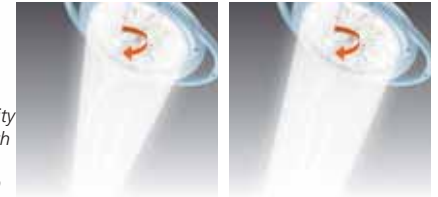
PentaLED 12

- 100,000 Lux at 1 m
- indirect light with 12 elliptic reflectors. They reflect the light rays emitted by the LEDs. Does not dazzle and does not strain eyes.

PentaLED 28

- 120,000 Lux at 1 m
- direct light with 28 LED lens
- double colour selection: 4,500 or 5,000 K
- light field adjustment

MADE IN ITALY



Digital control for light intensity adjustment with visual signal of intensity set up

Light field adjustment for PENTALED 28

The 2 opposite handles allow to direct the light from every position

PENTALED

PENTALED is a perfect combination of technological developments, innovation, ergonomics and compact design, ultra-light and handy structure. Five versions available (trolley, ceiling, ceiling double, trolley with battery group and wall) and technical performances make PENTALED suitable for precision operations, diagnostic use, surgical rooms and small surgeries. Battery group, with an autonomy of 2 hours (PentaLED 12) or 1.5 hours (PentaLED 28), is available on request also for wall and ceiling models.

Cold LED light

Bright and cold light reproduces colours faithfully, assuring excellent definition of details.

Ergonomic

- the dome has a 300° rotation
- the arm moves vertically thanks to a spring balancing system
- the reflector can be rotated on the vertical and horizontal axis. Movements are possible through the sterilizable handle.

60,000 hours life time

The low power supply current and the heat dispersion through aluminium dome allow the LED a 60,000 hours lifetime.

Light intensity adjustment

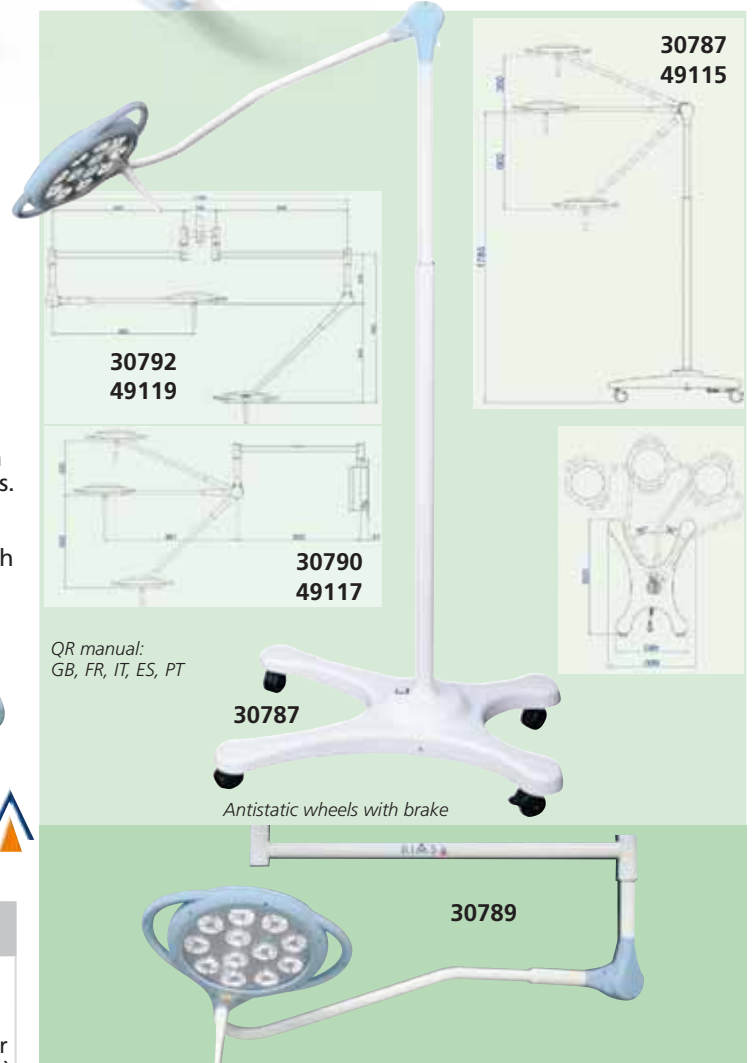
Light intensity adjustable through digital control



The ultra-flat lighting body is equipped with ultra-resistant polycarbonate screen which guarantees protection against accidental collisions.



The dome can be adjusted by the sterilizable handle



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

PENTALED 12 LEDS	
30787	PentaLED 12 - trolley
30789	PentaLED 12 - ceiling* (for ceiling 2.54 to 3.34 m)
30790	PentaLED 12 - wall
30791	PentaLED 12 - trolley with battery group and automatic charger
30792	PentaLED 12+12 - ceiling** double (for ceiling 2.66 to 3.56 m)
30788	Special structure for high ceiling
30793	Autoclavable handle - spare
PENTALED 28 LEDS	
49115	PentaLED 28 - trolley
49116	PentaLED 28 - ceiling* (for ceiling from 2.54 to 3.34 m)
49117	PentaLED 28 - wall
49118	PentaLED 28 - trolley with battery group and automatic charger
49119	PentaLED 28+28 - ceiling** double (for ceiling 2.66 to 3.56 m)
30788	Special structure for high ceiling
30793	Autoclavable handle - spare

*Ceiling >3.34 m needs 30788 **Ceiling >3.56 m needs 30788

	TECHNICAL SPECIFICATIONS	
	PENTALED 12	PENTALED 28
Light intensity at 1 m distance	Lux 100,000	120,000
Colour temperature	K° 4,500	4,500/5,000
LED	No. 12	28
Average LED life	hours 60,000	60,000
CRI (Chromatic rendering Index)	Ra 95	95
Diameter of illuminated field	Ø mm 160	135-270
Depth of illumination (L1+L2) at 60%	cm 75	92
Total radiated energy Ec	W/m² 370	456
Weight (ceiling, mobile, wall, double)	kg	13-21-12-20
Power supply	V/Hz	100-240V, 50-60Hz
Standards: IEC 60601-2-41, EU 2017/745, medical device of Class I		

PRIMALED COLD LIGHT LAMP - 105,000 LUX AT 50 cm

PRIMALED COLD LIGHT LAMP WITH 9 LED LENSES

Appealing design and advanced technology.

Design: the round and ultra-flat shape of the light makes the product ergonomic and suitable for any type of installation.

Ergo-Spring: the movement of the articulated tubular arm is servo-assisted by a torsion spring which ensures ease of movement and stability.

105,000 lux: unique performance with 105,000 lux at 50 cm.

Light intensity adjustment: six different adjustment levels by the keys on the frontal panel.

4,000-4,500 °K Colour temperature selection: the comparison between the two colours (K) increases the visibility of details. **Shadow suppression:** the radial layout of the lenses and the large-diameter lamp (195 mm) allow shadow suppression and three-dimensional lighting.

Adjustable courtesy-light: integrates ambient light with traditional concentrated light.

Sterilizable removable grip: allows best asepsis.

Cold light: the reduced emission of IR rays by the LEDs as well as the low power consumption allow minimum heat emission.

60,000 hours LEDs life: the top aluminium dome allows heat exchange, thus reducing the work temperature and considerably increasing the life cycle of the single LEDs.

Interchangeable plugs: transformer is integrated in the plug for a lighter and smooth movement of the arm.

Supplied with interchangeable plugs (UK, US, EU).

Fully certified: complies with IEC 60601-1 and 60601-1-2 general medical standards and to special standard IEC 60601-2-41 EU 2017/745 and is CE marked as a Class I medical device.

Mechanical testing and user safety: die-cast aluminium and tubular steel structure. The articulated arm has undergone mechanical testing for 40,000 continuous movements.

Light continuity: the modular design of the LED power circuit ensures light continuity even in case of a LED fault.

Battery kit: included with 49124, available in 45 days for 49125 (to be purchased with light).

The lamp lens has been designed to provide focused and deep lighting. Lighted field diameter is 16 cm at 0,5 m.

The following functions are controlled by the keys on the membrane keyboard:

- on/off
- selection of the 4,000°K and 4,500°K colour temperatures
- 6-level adjustment of the light intensity
- courtesy light



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

49125

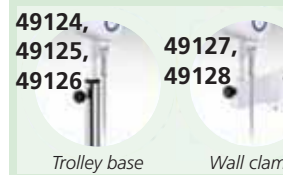


FIX ARM

49125

Lithium battery, 8 hours autonomy

MADE IN ITALY



Trolley base



Wall clamp



Rail clamp on request

49124

GIMA code	PRIMALED FIX AND FLEX
49124	Primaled - flex light - trolley with battery
49125	Primaled - fix light - trolley
49126	Primaled - flex light - trolley
49127	Primaled - fix light - wall
49128	Primaled - flex light - wall
30797	Autoclavable handle
30769	Trolley - base Ø 61 cm - spare

TECHNICAL SPECIFICATIONS

LED life: >60,000 hours
 Light intensity: 105,000 lux at 50 cm, 30,000 lux at 1 m
 Colour temperature: 4,000-4,500 °K
 External diameter of the reflector: 195 mm
 Temperature increase in the operating area at 1 m: 1°C
 Adjustable height with castors: 600 mm - max 1,600 mm
 Power supply: 100-240V - 50/60 Hz
 Weight: 10 kg (trolley included)

Illuminated field at 50 cm: Ø 160 mm
 Illuminated field at 1 m: Ø 300 mm
 Colour rendering index: 95 Ra
 Electric absorption: 20VA
 Light intensity adjustment: 20-100%

MS LED PLUS AND MS LED FLEX PLUS LIGHT - 65,000 LUX

• 49132 MS LED PLUS LIGHT - trolley

• 49133 MS LED FLEX PLUS LIGHT - trolley

Minor surgery luminaire with LED light source. Flexible or articulated arm with great precision allow regulation of the light in any position. High quality of materials makes it especially suitable for intensive use in surgery and examinations.

Exceptional quality of LED light

Powerful LED light source offers exceptional light quality and a lifespan of more than 50,000 hours. The high performance of the colour Ra 97% depicts the exceptional quality of white light for an excellent distinction of fabrics and reproduction of all visible colours, naturally and precisely.

Ergonomic design

The circular shape of the head and its handle in the lower part facilitate its exact positioning, clean and soft shapes which facilitate hygiene and cleanliness.

TECHNICAL SPECIFICATIONS		
Light source	LED 12W	Colour rendering > 97%
Lux at 50 centimeters	65,000 lux	Lamp lifetime 50,000 hours
Adjustable light intensity	Yes	Arm length 90 cm (49132)
Colour temperature	4,500 °K	70 cm (49133)
Colour	White	

49133



Dimmable, adjustable light intensity



MADE IN SPAIN

49132

49133

HALOGEN AND LED LIGHTS FOR EXAMINATION AND MINOR SURGERY

60,000 LUX WITH 3 LEDs



RIMSAL

30726,
30727,
30728

Ergonomic handle

60,000 LUX WITH 3 LEDs



RIMSAL

Touch button

30723,
30724,
30725

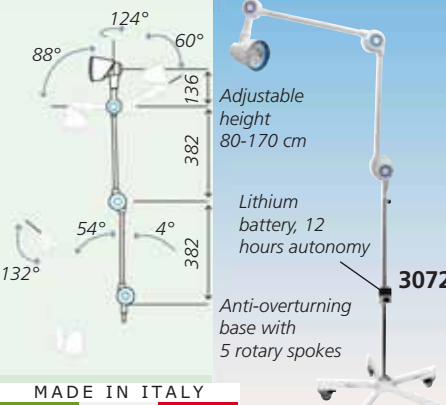
Manual in:
GB, FR, IT, DE, ES, PT

**50,000 LUX - Halogen
15,000 LUX - LED**



MIMSAL

30754



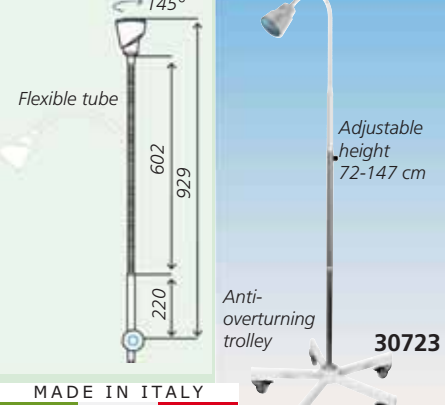
Adjustable height 80-170 cm

Lithium battery, 12 hours autonomy

Anti-overturning base with 5 rotary spokes

30728

MADE IN ITALY



Flexible tube

Adjustable height 72-147 cm

Anti-overturning trolley

30723

MADE IN ITALY



30756

30754

Height 50 cm (arm) + 95 cm (trolley)

MADE IN SPAIN

ALFA-FIX AND ALFA-FLEX

Three LED light sources with coinciding lenses and polycarbonate protection shield. Thanks to three independent light sources, shadows can be reduced and provide a deep cylindrical light with highly reduced heat irradiation. Each LED integrates a resistance to ensure the continuous operation of the lamp even in the rare case of a LED fault.

Design

New design makes the lamp extremely easy to use and manoeuvre, with an additional rotation of the reflector.

Touch control

The light intensity can be adjusted through the touch button, a smooth touch of the control allows to regulate the light intensity from 4% to 100%.

Interchangeable plugs

The transformer, integrated in the plug for a lighter and smooth movement



30725

Optional

30724,
30727

Table clamp connection

Rail clamp code 30775

Wall clamp

of the arm structure, is supplied with interchangeable plugs (UK, US, EU). **Flexible arm (30723-5)**

The flexible arm ensures easier light positioning and is covered with a smooth white shrink-wrap sheath for easier cleaning and disinfection.

Battery kit

Included with 30728, available in 45 days for 30723 (to be purchased with light).

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

GIMA code	ALFA-FIX AND ALFA-FLEX
30723	Alfa-flex LED - trolley
30724	Alfa-flex LED - wall
30725	Alfa-flex LED - table with clamp
30726	Alfa-fix LED - trolley
30727	Alfa-fix LED - wall
30728	Alfa-fix LED - trolley with battery

ACCESSORIES AND SPARE	
30766	Spare bulb Simplex - IRC 35 W for 30760-30763
30768	Spare trolley, base Ø 61 cm for Simplex and Alfaflex
30769	Spare trolley, base Ø 61 cm for Solesud2 and Alfafix
30775	Rail connection with clamp
30772	Spare glass Ø 8.5 cm for 30723-30727
30770	Spare glass Ø 12.3 cm for Solesud

Model	ALFA-FIX	ALFA-FLEX	LUXIFLEX	LED	LED Plus
Type of lighting	LED	LED	halogen	LED	LED Plus
Consumption (Watt)	8	8	35	6.5	10
Life of the bulbs (hours)	> 60,000	> 60,000	5,000	50,000	50,000
Light intensity at 50 cm (lux)	60,000	60,000	50,000	15,000	35,000
Light intensity at 1 m (lux)	20,000	20,000	-	-	-
Colour temperature ± 5% at 1 m (K)	4,500	4,500	4,000	4,500	4,500
Colour rendering index (Ra)%	94	94	95	80	97
Light field size at 50 cm (Ø mm)	150	150	-	-	-
External Ø of the reflector (mm)	95	95	80	80	80
Colour	white	white	white	white	white
Norms	IEC 60601-1	IEC 60601-1	EN 60601-1-2		
Marks	EU 2017/745		CE 93/42		
Weight (kg)	5	5			
Operating voltage V	100-240	100-240	230	110/230	
Operating Hz	50/60		50/60		

- 30754 LUXIFLEX on trolley - halogen
 - 30756 LUXIFLEX on trolley - LED
 - 30755 LUXIFLEX PLUS on trolley - LED
- Stylish and versatile light for examination and minor surgery procedures in health-centres, clinics and hospitals. Suitable also for veterinary examinations and procedures. Class II.
- Safe low voltage operation without infrared radiation. Electronic transformer lodged at the bottom of the lamp. Flexible arm and 5 castors trolley allow easy use and movability.
- 30757 SPARE BULB LUXIFLEX - halogen

35,000 LUX - LED PLUS



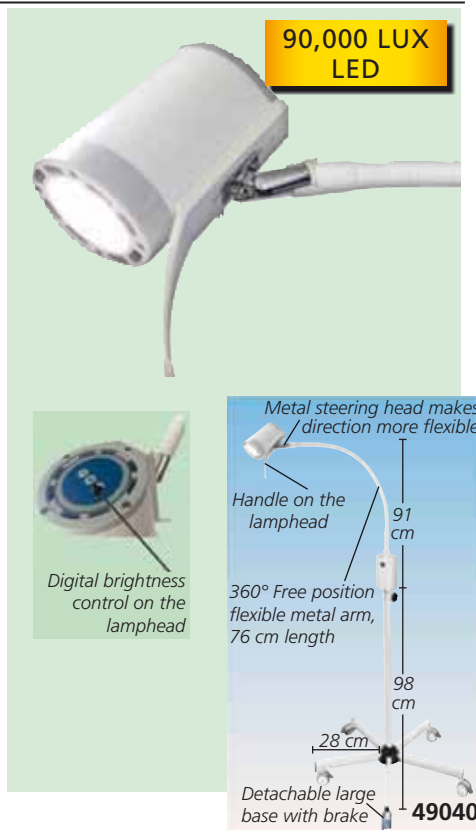
MIMSAL

30755

Manual in:
GB, FR, IT, DE, ES, PT

30755

HYRIDIA 7 LED LIGHTS - 90,000 LUX



- 49040 HYRIDIA 7 LED LIGHT - flexible arm - trolley
 - 49041 HYRIDIA 7 LED LIGHT - metal spring arm - trolley
- 7 Leds 10 W medical procedure lights on trolley with flexible soft arm or metal spring arm. Digital brightness control.
Manual: GB, FR, IT, ES, PT, DE, PL, GR.

TECHNICAL SPECIFICATIONS

	10 W	Light intensity and Light field Ø:			
Consumption:	10 W	illumination	Ø	Distance	
Colour temperature:	4,800-5,500 °K	100,000 lux	9 cm	30 cm	
External Ø of reflector:	89 mm	90,000 lux	12 cm	50 cm	
Colour rendering index (CRI):	90 Ra	22,000 lux	18 cm	100 cm	
Operating voltage:	110-265 V, 50/60 Hz				

LUMINA LED LIGHT



- 49035 LUMINA LED LIGHT - trolley
- Classic examination LED light with flexible arm.
Manual: GB, FR, IT, ES, PT, DE, PL, GR.

TECHNICAL SPECIFICATIONS

Consumption	3 W
Light intensity at 50/30 cm	37,000/89,000 lux
Colour temperature:	6,000 °K
External Ø of reflector:	75 mm
Colour rendering index (CRI):	90 Ra
Light field Ø:	4 cm at 50 cm
Operating voltage:	110-265 V, 50/60 Hz

RI-MAGIC® HP LED LIGHT

- 49050 RI-MAGIC® HP LED - desk
 - 49051 RI-MAGIC® HP LED - trolley
 - 49052 RI-MAGIC® HP LED - wall
- High performance medical LED light for examination and procedures.
- high performance LED, 6,000 °K
 - lifetime of the lamp up to 50,000 hours
 - significantly reduced heating and energy loss
 - focusing device at the front of the light head
 - highly flexible, long special arm can be bent in all directions
 - rheostat handle for infinitely variable regulation of light intensity.
- Manual in: GB, FR, IT, ES, DE, RU.

MADE IN GERMANY



TECHNICAL SPECIFICATIONS

Distance:	1,000 mm	800 mm	600 mm	400 mm	200 mm
Lux max:	15,000	20,000	30,000	45,000	55,000
Circle of light max Ø:	340 mm	270 mm	215 mm	155 mm	90 mm
Circle of light min Ø:	40 mm	35 mm	30 mm	25 mm	20 mm
Operating voltage:	100-240 V,	50-60 Hz			

LED SPOT-ADJUSTED LIGHT

- 49047 LED SPOT-ADJUSTED LIGHT - trolley
- LED Spot examination lamp with multi-optical lens and light spot adjustable by inner mini light grating. Additional features:
- uniform and pure light spot
 - front optical lens
 - inner light grating
 - rear dual optical lens
 - 100 cm super long 360° free position and PVC coated flexible metal arm



TECHNICAL SPECIFICATIONS

Bulbs/power:	1 LED / 5 W
Ø of lamp head:	25 mm
Illumination:	25,000 lux at 30 cm 10,000 lux at 50 cm max 70 mm, min 15 mm at 30 cm
Light field Ø:	
Colour temperature:	4,800°-6,000° K
Lamphead:	Ø 25 mm, length 125 mm
Power supply:	100-260 V, 50/60 Hz
Power cord:	length 272 cm

MAGNIFYING LED COLD LIGHTS - 3 DIOPTRES

GIMANORD PLUS

This model features a biconvex magnifying lens in optical glass with Ø 120 mm. The cold LED light allows prolonged use, without causing any eyesight problem. Polycarbonate screen for protection of the light source. Suitable for dermatology use. Medical device Class I.

Design

The new design makes the lamp extremely easy to use and manoeuvre, with an additional rotation of the reflector.

Touch control

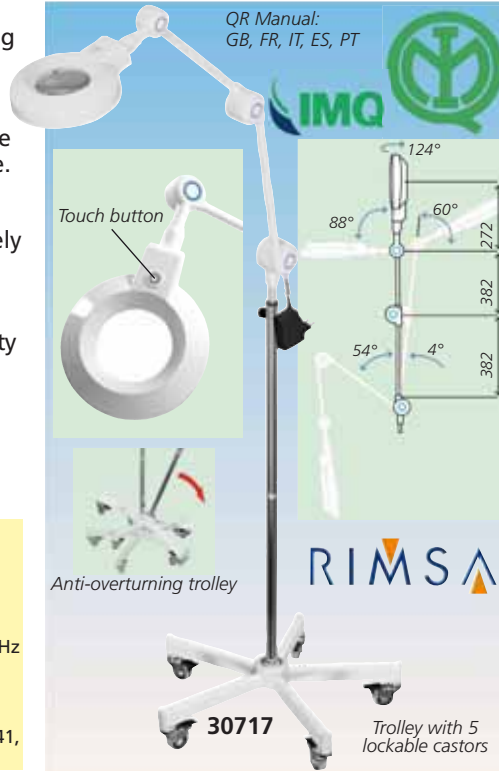
Touch button allows to adjust light intensity from 4% to 100% with a smooth touch.

Interchangeable plugs

The transformer, integrated in the plug for a lighter and smooth movements of the arm structure, is supplied with interchangeable plugs (UK, US, EU).

TECHNICAL SPECIFICATIONS

Light intensity at 0.5 m (Ec)	2,250 lux
Colour temperature	5,370 K
Colour rendering index (CRI)	95 Ra
R9	≥90
Operating voltage	100-240 V - 50/60 Hz
Absorbed power	16.5 W
Light head diameter	23 cm
Average life	>60.000 hours
Norms	IEC-60601-1, IEC-60601-2-41, EU 2017/745



Magnifying glass
Ø 120 mm

30716
30717

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

MADE IN ITALY

GIMA code	LED MAGNIFYING LIGHTS
30716	GIMANORD PLUS - with table clamp
30717	GIMANORD PLUS on trolley
SPARES AND FIXING SYSTEMS	
30720	Plexiglass shield for 30716-9 - spare
30771	Plexiglass shield for 30750-1* - spare
30769	Trolley - base Ø 61 cm - spare
30774	Wall clamp - optional

*Old models



LED MAGNIFYING LAMP - 5 DIOPTRES

• 30737 LUPA LED MAGNIFYING LIGHT - trolley

• 30739 LUPA LED MAGNIFYING LIGHT - desk with clamp

Smartly designed white cold light LED lamp with 5-dioptres magnification. Generates a light without shadow. 5 wheels base and articulated arm allow easy movement. Manual in GB, FR, IT, ES, PT, DE. Medical device Class I.

TECHNICAL SPECIFICATIONS

Type of light:	60 LED - HF 6 W
Dioptres:	5
Lens:	Ø 12.7 cm
Colour temperature:	6,500 °K
Operating voltage:	110-230 V - 50/60 Hz
Class I	
Marks:	93/42/EEC
Lamp life:	40,000 hours



LED MAGNIFYING LAMP - 3 DIOPTRES

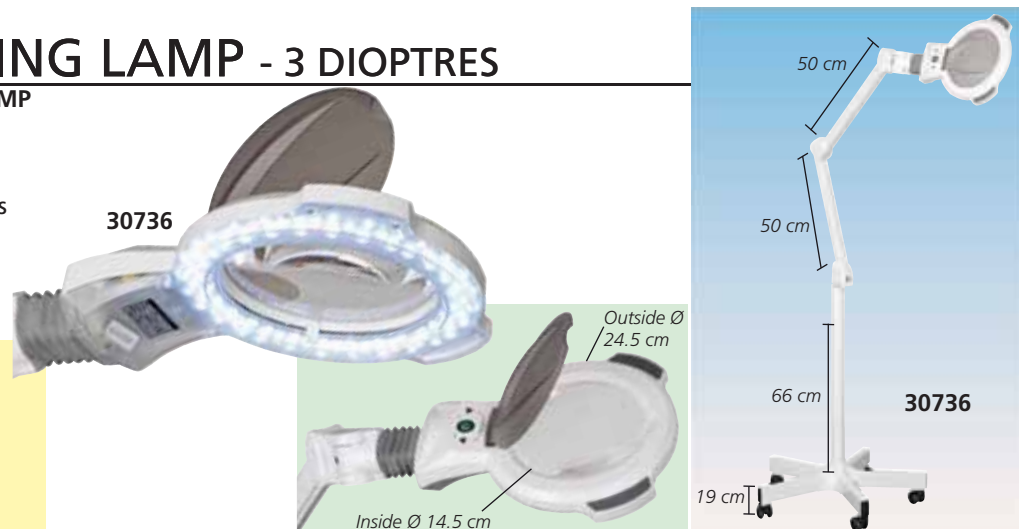
• 30736 DERMALED MAGNIFYING LAMP

Cold light LED lamp with 3 dioptres magnifying glass lens and brightness adjustment.

It comes with a high stability 5 wheels base and an articulated arm for easy movement and fixing of the lamp. Manual in GB, IT.

TECHNICAL SPECIFICATIONS

Type of light:	LED
Voltage:	7 W
Dioptres:	3 (large glass)
Colour temperature:	7,500-9,500 °K
Light intensity at 20 cm:	2,400 lux
Operating voltage:	100-240 V - 50/60 Hz
Net/Gross weight:	12.8-15 kg



VISTA WOOD BLUE LIGHTS

- 31196 VISTA WOOD LAMP 9W - handle
 - 31197 VISTA WOOD LAMP 9W - trolley
 - 31195 VISTA 4 LED WOOD LAMP 3W - handle
- Lamps to diagnose the condition of skin that appears in different colours under ultraviolet rays. Polished glass magnifying lens 10x6 cm - 3 dioptries. LED technology (31195) emits two types of light: wood's light at 365 nm wavelength (UV) and daylight (CRI >80%, 4,500°K) that can be switched by button. Fluorescent lamps have 9W special compact fluorescent tube at approximately 360 nm wavelength (31196-7).
Voltage: 220-240 V - 50/60 Hz (31196-7), 100-240 V - 50/60 Hz (31195).
Manual in GB, FR, IT, ES, PT.
 - 31201 FLUORESCENT TUBE 9W - spare for 31196-7



MACRO LENS 12X

- 31155 SMARTPHONE MACRO LENS 12X
- Macro lens 12X for allergists, dermatologists, phlebologists, aesthetic surgeries. Can be mounted on any smartphone to take magnified images. Supplied with clip compatible with any smartphone, 10x10 cm wipe and multilingual manual (GB, FR, IT, ES, PT, DE, PL, GR).



ECONOMIC WOOD LAMP



- 31200 WOOD LAMP
- Ultraviolet light for skin condition analysis. Size 30x21x7 cm. Operating voltage: 220-240 V, 50/60 Hz.
 - 31202 FLUORESCENT TUBE - spare

POCKET WOOD LIGHT



- 31189 POCKET WOOD LIGHT
- Pocket ultraviolet light, to detect skin disorders. Provided with replaceable fluorescent lamp. Power 6 W. Works with 4xAA batteries with 4-6 hours autonomy.
 - 31190 FLUORESCENT TUBE - spare

DIGITAL Wi-Fi POLARISED DERMATOSCOPE, CAPILLAROSCOPE, MICROSCOPE

An innovative line of handheld colour digital microscopes: dermatoscope with polarized filter, capillaroscope and iridoscope with Wi-Fi wireless transmission. Small, easy to operate, light and portable. They can be used with all the most popular smartphones, tablet and PC.

Basic software for acquisition of photos and videos. Google/Apple applications included. Designed in Italy, manufactured in China. Directive 93/43/CEE - Medical device Class I (only 32181 and 32183).



- 32181 Wi-Fi DERMATOSCOPE with polarized filter

DERMATOSCOPE SPECIFICATIONS	
Magnification:	5X to 200X
Light source:	8 adjustable white LED
Lens:	High definition microscopy lens



- 32183 Wi-Fi CAPILLAROSCOPE

CAPILLAROSCOPE SPECIFICATIONS	
Magnification:	500X to 600X
Light source:	8 adjustable white LED
Lens:	High definition microscopy lens



- 32184 Wi-Fi MICROSCOPE
- Advised to view the iris.

MICROSCOPE SPECIFICATIONS	
Magnification:	30X
Light source:	2 adjustable white LED+ 2 adjustable yellow LED
Lens:	High definition microscopy lens

TECHNICAL SPECIFICATIONS		
Operation system	Windows (7, 10), OS X, iOS, Android (it can be used by Wi-Fi or USB)	CAMERA
Photo and video resolution	1.3 MPixels - 1280x1024 (MJPG), 640x480 (MJPG), 320x240	Camera sensor
Frame rate	15 fps 1,280x1,024, 30 fps 640x480 320x240	Optical features
Wi-Fi wireless transmission distance	Up to 5 m	CMOS 1/4"
Power consumption	Max 2.5 W	Exposure: Auto, Gamma: Auto, White balance: Auto, Black reference: Auto
Li-ion battery	Continuous working time - appx. 2 hours, full charging time - appx. 2 hours	
Power source - Size - Weight	DC 5.0V / 1A - Ø 36x142 mm - 88 g	

STANDARD ACCESSORIES	
Caps of contact (only for 32181)	
USB AC adapter	
USB cable	
Quick manual	
Plastic stand*	
Line calibration ruler (only 32181)	
Manual (GB, FR, IT, ES, DE)	
CD basic software Win (GB, FR, IT, ES, DE, UA, JP), Mac (GB)	

*Only for 32181, 32183

microline

Material médico e científico Lda

Av. da República, 3000,
Estoril - Escritório, Bloco B, 2º. Nº 15
2649 - 517 Alcabideche
Portugal

Phone: +351 214 533 795

Fax: +351 214 535 681

geral@microline.pt

www.microline.pt

