



# GENERAL CATALOGUE

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# GENERAL CATALOGUE

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## ACCESSORIES



Double Yoke



HD Camera



Wireless



Monitor Arm



IR (Remote Control)



Wall Control Panel



Battery Group

# OUR HISTORY

## A TRADITION FOR INNOVATION

RIMSA, established by Palmينو Longoni in 1936, was initially a mechanical workshop dedicated to repairing typewriters and the like (Riparazione di Macchine da Scrivere e Affini); hence the acronym R.I.M.S.A.

The transition from repair workshop to production facility took place in the 1940s, when Mr. Palmينو Longoni decided to give shape to a product of his own. Since then, RIMSA has focused on the design and development of pantograph lamps. Company growth resulted in an expansion of the product range with the introduction of magnifying and fluorescent lamps. Starting in the post-war period, RIMSA began making a name for itself in the electronics, goldsmithery, dentistry and industrial sectors.

In the 80's, RIMSA began focusing closely on the surgical lighting sector and, in April 1983, the Milan Trade Fair Authority awarded RIMSA the first prize for the design of a halogen surgical lamp. Research in the medical field continued and in March 1992 the Milan Chamber of Commerce awarded the company the prestigious "Technological Innovation" qualification certificate for the design of the star-shaped open-spoke surgical lamp for laminar-flow operating theatres.

In 2002, RIMSA developed the world's first LED operating theatre lamp, at a time when this technology was still in its infancy.

**1936**  
Establishment

**1943**  
Palmينو Longoni is welcomed to the Italian Inventors Guild

**1945**  
First Rimsa Anglepoise lamp

**1956**  
Historical Company Certificate

**1971**  
Purposely Designed CNC and Lathe Light

**1983**  
Rimsa First Surgical Light

**1992**  
Technological Innovation Award

**2002**  
Rimsa pioneered the 1<sup>st</sup> LED Surgical Light

**2017**  
Unica: the First LED surgical light with no glaring effect

**2018**  
80<sup>th</sup> Anniversary

# DETERMINATION AND PASSION, THE ART OF INNOVATING.

RIMSA is a “long-standing”  
but not an old company.

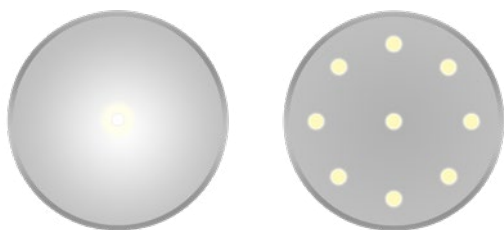
Backed by its history, traditions and pride, RIMSA has always put “Uniqueness” at the centre of its organization, based on the promotion of human resources, technological updating, “simple” management, and product quality. All these elements together lead to the achievement of the corporate “purpose” identified as follows: continuity and development of the Company, professional growth and staff development, research and innovation, and acquisition of new markets.



# MAIN FEATURES

## LIGHT EMITTING SURFACE

The surgical light main feature is the removal of shadows on the operating field; hence the surgical effect is defined as the ability of a lighting source to prevent any shadows in the illuminated area despite the obstacles that are present between the lighting source and the illuminated field. Over the years and thanks to different lighting technology, several methods of doing so have been deployed. Nevertheless, the most efficient way to obtain a reliable surgical effect is that of illuminating the surgical field by several different lighting rays which means to have a really large cupola where all the lighting rays are converted to a single spot. However, the need for a large cupola is not a call for a cupola with a large diameter but rather for a cupola with a high light emitting surface. The light emitting surface of a cupola depends mainly on the technology used: halogen surgical lights had an impressive emitting surface, far better than any LEDs surgical lights, for all the lighting rays emitted by the light bulb were parabolically converted onto the operating field. (LEDs surgical light when using indirect lighting technology spreads several separate lighting spots across the parabola thus leaving blank emitting surfaces in between).



*Light emitting surface of a halogen surgical light on the left compared to the light emitting surface of a LED surgical light with direct lighting technology on the right.*

## INDIRECT LIGHT

The introduction of LEDs in the Operating room determined a major change in the conceptualization of light; instead of a single flux of light coming from a cupola, LED lights produce multiple lighting fluxes converted to the same spot. LED Lights have thus enormously reduced the lighting emitting surface and negatively impacting on the surgical effect. Rimsa, conscious of such drawbacks, when developing the world first LED surgical light in 2002, studied its product with indirect lighting technology. RIMSA has thus massively increased the light emitting surface on its surgical lights ensuring an unparalleled surgical effect from an LED surgical light.

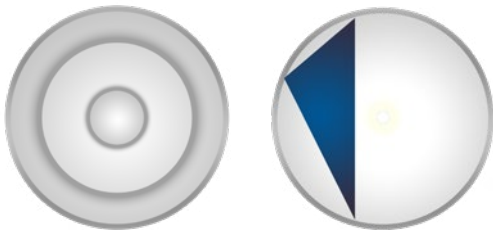


*The result of a light emitting surface when an obstacle is present: indirect lighting technology on the left juxtaposed to indirect lighting technology on the right.*

## 2R DOUBLE REFLECTION



In 2017, Rimsa patented the 2R, double reflection technology which ensures the maximization of the lighting emitting surface thus allowing UNICA Series products to achieve a terrific surgical effect and offering a completely glare free illumination.



## GLARING EFFECT

A surgical light offers up to 160.000 lux. The literature suggests that such a high illuminance constitutes a major risk in the operating room. The surgeon, its equipe and all those persons working in close proximity with such an intense light are subject to the glaring risk. Rimsa drastically reduced the glaring risk by adopting an indirect lighting technology which ensures both the maximization of the lighting emitting surface and the removal of the glaring effect. Unica Series products, with 2R technology managed to ultimately counter the glaring risk.

## E - VIEW



An additional light source called E-View (Extended-View) makes it possible to expand the lit field at the edges without affecting the light intensity at the centre (Ec). Such perk allows the light to become an optimal solution for the following procedures: thoracic surgery, abdominal surgery, caesarean births and all those procedures when the surgeon needs to operate with an extended field.

## E - DEEP



The centre of the lamp is fitted with an additional LED module specifically designed to reflect deep light. E-deep means the surgeon can operate with perfect 3D lighting, especially in cavities.



# UNICA 860 / 520

YOUR BEST ALLY  
IN THE OPERATING ROOM.

With the models of the Unica series, Rimsa has obtained the complete elimination of the glare effect. Thanks to 2R technology - double reflection it is possible to obtain a complete suppression of shadows, the maximization of the light emitting surface and an absolute glare free light.





UNICA520+520



UNICA520+520+DY2



UNICA520PI



UNICA520SO



UNICA520SO+DY1



UNICA860+520



UNICA860+520+DY2



UNICA860SO



UNICA860SO+DY1

## Performances

### 860

### 520

Light intensity at 1 m distance (Ec)	160.000 lux	160.000 lux
Light head diameter	86 cm	52 cm
Color temperature	7 selections: 3.800 to 5.000K	7 selections: 3.800 to 5.000K
Color rendering index (CRI)	97 Ra	96 Ra
Diameter adjustment	Electronic	Electronic
d10 light field diameter where illuminance reached 10% of Ec	230 mm	210 mm
Light field diameter adjustable from-to	210 - 380 mm	210 - 350 mm
Depth of illumination IEC 60601-2-41 (L1+L2) at 60%	510 mm	490 mm
Depth of illumination IEC 60601-2-41 (L1+L2) at 20%	850 mm	1030 mm
Total radiated energy Ee where the illuminance reaches max level	580 W/m <sup>2</sup>	580 W/m <sup>2</sup>
Ratio between radiated energy Ee and illuminance Ec	3,68	3,68
Average led life	> 60.000	> 60.000
Control of the illuminance	25 - 100 %	25 - 100 %
Electrical absorption	120 W - 130 VA	53 W - 60 VA

Directive 93/42/EEC (main directive and further amendments) - Norm IEC 60601-2-41

#### MAIN FEATURES



#### ACCESSORIES







# U 29

## A COMFORTABLY AFFORDABLE SURGICAL LIGHT

U29 combines the indirect technology consolidated by the success obtained by the PentaLED Series with the elegant and compact design of Unica.

U29 is a high-performance lamp, strongly engineered and comfortably affordable, so that any surgeon can benefit from it.



U29+29+DY2



U29+29



U29+DY1



U29PI



U29SO

## Performances

## U 29

Light intensity at 1 m distance (Ec)	160.000 lux
Light head diameter	52 cm
Color temperature	2 selections: 4.500 - 5.000K
Color rendering index (CRI)	96 Ra
Diameter adjustment	Electronic
d10 light field diameter where illuminance reached 10% of Ec	200 mm
Light field diameter adjustable from-to	140 - 280 mm
Depth of illumination IEC 60601-2-41 (L1+L2) at 60%	500 mm
Depth of illumination IEC 60601-2-41 (L1+L2) at 20%	1350 mm
Total radiated energy Ee where the illuminance reaches max level	580 W/m <sup>2</sup>
Ratio between radiated energy Ee and illuminance Ec	3,68
Average led life	> 60.000
Control of the illuminance	20 - 100 %
Electrical absorption	50 W - 60 VA

Directive 93/42/EEC (main directive and further amendments) - Norm IEC 60601-2-41

### MAIN FEATURES



### ACCESSORIES



# PENTALED E - SERIES

## ELECTRONIC DIAMETER ADJUSTMENT

The electronic adjustment allows the operator to easily swap between 2 diameter sizes from the keyboard without modifying the light intensity at the center.

PENTALED 81

PENTALED 30 E





PENTA30E+30E



PENTA30EPI



PENTA30ESO



PENTA81+30E



PENTA81+81



PENTA81SO

## Performances

### 81

### 30 E

Light intensity at 1 m distance (Ec)	160.000 lux	160.000 lux
Light head diameter	63 cm	40 cm
Color temperature	2 selections: 4.500 – 5.000K	2 selections: 4.500 – 5.000K
Color rendering index (CRI)	95 Ra	96 Ra
Diameter adjustment	Electronic	Electronic
d10 light field diameter where illuminance reached 10% of Ec	260 mm	220 mm
Light field diameter adjustable from-to	160 – 300 mm	140 – 280 mm
Depth of illumination IEC 60601-2-41 (L1+L2) at 60%	720 mm	600 mm
Depth of illumination IEC 60601-2-41 (L1+L2) at 20%	1030 mm	950 mm
Total radiated energy Ee where the illuminance reaches max level	580 W/m <sup>2</sup>	580 W/m <sup>2</sup>
Ratio between radiated energy Ee and illuminance Ec	3,68	3,68
Average led life	> 60.000	> 60.000
Control of the illuminance	20 – 100 %	20 – 100 %
Electrical absorption	100 W – 110 VA	52 W – 60 VA

Directive 93/42/EEC (main directive and further amendments) – Norm IEC 60601-2-41

#### MAIN FEATURES



#### ACCESSORIES



# PENTALED N- SERIES

## MANUAL DIAMETER ADJUSTMENT

The PentaLED N-series made a breakthrough in medical lighting. It has been the first LED surgical light ever displayed to the public. The manual focalization inside the sterile area grants a precise and immediate control of the light field. The Focus function is activated by the surgeon rotating the sterile central handle.

PENTALED 63 N

PENTALED 30 N





PENTA30N+30N



PENTA30NPI



PENTA30NSO



PENTA63N+30N



PENTA63N+63N



PENTA63NSO

## Performances

### 63 N

### 30 N

Light intensity at 1 m distance (Ec)	160.000 lux	160.000 lux
Light head diameter	63 cm	40 cm
Color temperature	2 selections: 4.500 – 5.000K	2 selections: 4.500 – 5.000K
Color rendering index (CRI)	96 Ra	96 Ra
Diameter adjustment	Manual	Manual
d10 light field diameter where illuminance reached 10% of Ec	260 mm	220 mm
Light field diameter adjustable from-to	160 – 300 mm	140 – 280 mm
Depth of illumination IEC 60601-2-41 (L1+L2) at 60%	560 mm	700 mm
Depth of illumination IEC 60601-2-41 (L1+L2) at 20%	1080 mm	1150 mm
Total radiated energy Ee where the illuminance reaches max level	580 W/m <sup>2</sup>	580 W/m <sup>2</sup>
Ratio between radiated energy Ee and illuminance Ec	3,68	3,68
Average led life	> 60.000	> 60.000
Control of the illuminance	20 – 100 %	20 – 100 %
Electrical absorption	59 W – 70 VA	52 W – 60 VA

Directive 93/42/EEC (main directive and further amendments) – Norm IEC 60601-2-41

#### MAIN FEATURES



#### ACCESSORIES





# Tris-led



TRIS-LED is a surgical lamp with excellent operating versatility.

The dome is reduced in size, the focus and the light field can be manually adjusted by turning the central sterilisable handle.

This function allows to optimize the light flux and adapt the light field diameter according to the different surgeries.



TRISSOX2-LED



TRISSO-LED



TRISPI-LED

## Performances

## Tris - led

Light intensity at 1 m distance (Ec)	130.000 lux
Light head diameter	40 cm
Color temperature	4.200 K
Color rendering index (CRI)	94 Ra
Diameter adjustment	Manual
d10 light field diameter where illuminance reached 10% of Ec	280 mm
Light field diameter adjustable from-to	150 - 280 mm
Depth of illumination IEC 60601-2-41 (L1+L2) at 60%	900 mm
Depth of illumination IEC 60601-2-41 (L1+L2) at 20%	1500mm
Total radiated energy Ee where the illuminance reaches max level	470 W/m <sup>2</sup>
Ratio between radiated energy Ee and illuminance Ec	3,56
Average led life	> 60.000
Control of the illuminance	25 - 100 %
Electrical absorption	50 W - 90 VA

Directive 93/42/EEC (main directive and further amendments) - Norm IEC 60601-2-41

ACCESSORIES



MAIN FEATURES

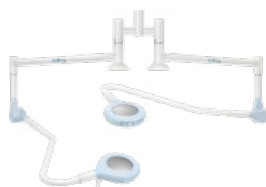


# Saturno-led

This is a surgical-type lamp suitable for minor surface operation surgeries, gynaecology and emergency room. The fact that the beams are close together (reflector size 195mm), means that they do not have to be focused. The lamp is very easy to move thanks to the lightness of the aluminium support structure.



SATPIN-LED



SATSONX2-LED



SATPAN-LED



SATSON-LED



## Performances

Light intensity at 1 m distance (Ec)

Light head diameter

Color temperature

Color rendering index (CRI)

Diameter adjustment

d10 light field diameter where illuminance reached 10% of Ec

Light field diameter adjustable from-to

Depth of illumination IEC 60601-2-41 (L1+L2) at 60%

Depth of illumination IEC 60601-2-41 (L1+L2) at 20%

Total radiated energy Ee where the illuminance reaches max level

Ratio between radiated energy Ee and illuminance Ec

Average led life

Control of the illuminance

Electrical absorption

## Saturno - led

50.000 lux

19,5 cm

2 selections: 4.000 - 4.500K

95 Ra

Fixed

260 mm

//

1100 mm

1800 mm

186 W/m<sup>2</sup>

3,63

> 60.000

20 - 100 %

19 W / 40 VA

Directive 93/42/EEC (main directive and further amendments) - Norm IEC 60601-2-41

ACCESSORIES



MAIN FEATURES



# PENTALED 28 / 12

PENTALED 28 and PENTALED 12 are a concentration of unparalleled performance technology, the best for a lamp for ambulatories and minor surgery.

Their compact dimensions and extremely handy structure are permeated by the strong determination of Rimsa heart, a synonym of high technology, quality and performance ever since. The thin dome with two convenient side grips ensures easier positioning and adjustment and reduces overall dimensions.





PENTA12PI | PENTA28PI



PENTA12+12 | PENTA28+28



PENTA12PA | PENTA28PA



PENTA12SO | PENTA28SO

## Performances

	12	28
Light intensity at 1 m distance (Ec)	100.000 lux	120.000 lux
Light head diameter	40 cm	40 cm
Color temperature	4.500 K	2 selections: 4.500 – 5.000K
Color rendering index (CRI)	96 Ra	94 Ra
Diameter adjustment	Fixed	Manual
d10 light field diameter where illuminance reached 10% of Ec	160 mm	280 mm
Light field diameter adjustable from-to	//	110 – 330 mm
Depth of illumination IEC 60601-2-41 (L1+L2) at 60%	850 mm	920 mm
Depth of illumination IEC 60601-2-41 (L1+L2) at 20%	1500 mm	1550 mm
Total radiated energy Ee where the illuminance reaches max level	414 W/m <sup>2</sup>	456 W/m <sup>2</sup>
Ratio between radiated energy Ee and illuminance Ec	3,68	3,62
Average led life	> 60.000	> 60.000
Control of the illuminance	20 – 100 %	20 – 100 %
Electrical absorption	20 W – 40 VA	47 W – 85 VA

Directive 93/42/EEC (main directive and further amendments) – Norm IEC 60601-2-41

### MAIN FEATURES



(Pentaled 12)



(Pentaled 28)

### ACCESSORIES



# OBSERVA SERIES

The observa series is Rimsa's line of products intended for outpatient rooms.

The peculiar design of each product of the series guarantees a reliable solution whenever light is needed.

## Fixing Systems



## Performances

### Alfa-led

### A06-Led

### L88-Ledm

Light intensity at 0,50 m distance (Ec)	60.000 lux	60.000 lux	1.700 lux
Light head diameter	8,6 cm	9 cm	23 cm
Color temperature	4.000 K	4.000 K	6.200 K
Color rendering Index (CRI)	94 Ra	94 Ra	90 Ra
d10 light field diameter where illuminance reached 10% of Ec	140 mm	140 mm	//
Average LED life	> 60.000	> 60.000	> 60.000
Control of the illuminance	Fixed	Fixed	Fixed
Electrical absorption	8 W - 18 VA	8 W - 18 VA	12 W - 28 VA

Directive 93/42/EEC (main directive and further amendments) - Norm IEC 60601-2-41

## ALFA-LED

Three LED light sources with coinciding lenses and polycarbonate protection shield which 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. The flexible arm, for easy light adjustment, is 60 cm long and is covered by a smooth white shrink-wrap sheath for easier cleaning and disinfection.



## A06-LED

Three carefully selected LEDs are housed in the reflector to ensure an intense light with minimum energy consumption; dissipation is through a high-performance aluminium and ceramic base which gives the device a working life of more than 60,000 hours.



## L88-LEDM

Especially suitable for dermatological use and wherever magnifying in general is needed.

This model features a biconvex magnifying lens in optical glass with Ø 120 mm. It features a polycarbonate screen for protecting the light source.







## OBSERVA SERIES

# Primaled

The first and only examination lamp with the possibility to choose an ambient light in addition to traditional concentrated light. The Ergo-Spring balancing system makes PRIMALED very easy to handle and stable. PRIMALED is ideal for any type of installation, from the outpatient department to the intensive care unit.

### Fixing Systems





## PRIMAFLEX

Gooseneck Arm

## PRIMA

Joint Arm

### Performances

### Primaled

Light intensity at 0,50 m distance (Ec)	105.000 lux
Light head diameter	19,5 cm
Color temperature	2 selections: 4.000 - 4.500K
Color rendering Index (CRI)	95 Ra
d10 light field diameter where illuminance reached 10% of Ec	150 mm
Average LED life	> 60.000
Control of the illuminance	25 - 100 %
Electrical absorption	10 W - 20 VA

Directive 93/42/EEC (main directive and further amendments) - Norm IEC 60601-2-41



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