



Brightening ideas

# GENERAL CATALOGUE

[www.rimsa.it](http://www.rimsa.it)



# GENERAL CATALOGUE

## INDEX

Our History	2
Main Features	4
Unica Series	6
U29	8
E-Series	10
N-Series	12
Quattroluci Led	14
Saturno-Led	15
Pentaled 12 and 28	16
Observe Series	18
PrimaLed	20

## ACCESSORIES



Double Yoke



HD Camera



Wireless



Monitor Arm



IR (Remote Control)



Wall Control Panel



Battery Group

# OUR HISTORY

## A TRADITION FOR INNOVATION

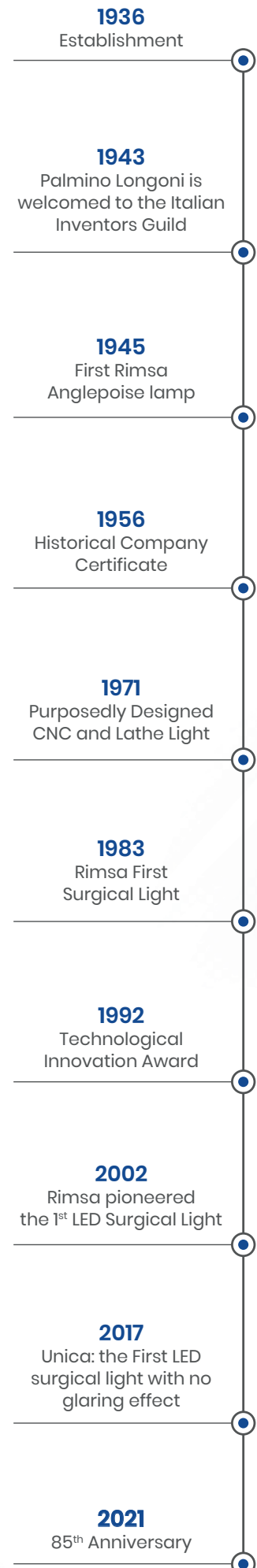
RIMSA, established by Palmino Longoni in 1936, was initially a mechanical workshop dedicated to repairing typewriters and the like (Riparazione di Macchine da Scrivere e Affini); hence the acronym R.I.M.S.A.

The transition from repair workshop to production facility took place in the 1940s, when Mr. Palmino 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.

In 2017, RIMSA patented "Unica" the world's first surgical light without glaring.



# DETERMINATION AND PASSION, THE ART OF INNOVATING.

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

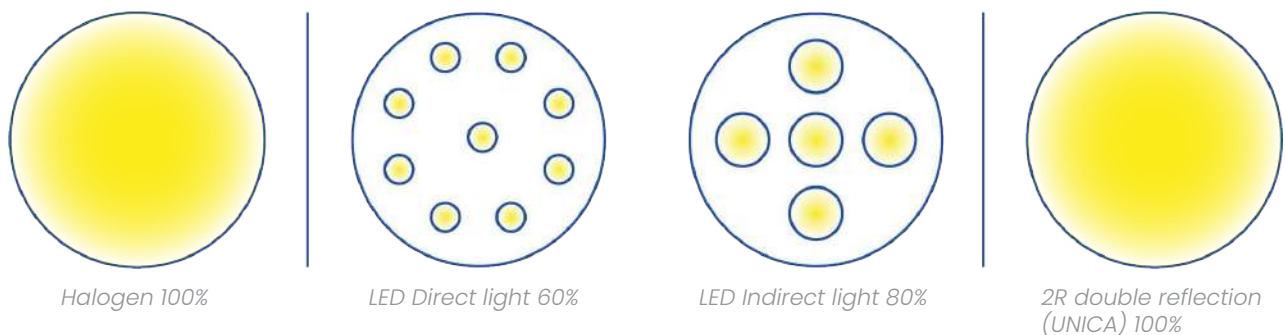
Backed by its history, traditions and pride, RIMSA has always put “Uniqueness” at the centre of its organization, based on the promotion of human resources, technological updating, “simple” management, and product quality. All these elements together lead to the achievement of the corporate “purpose” 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

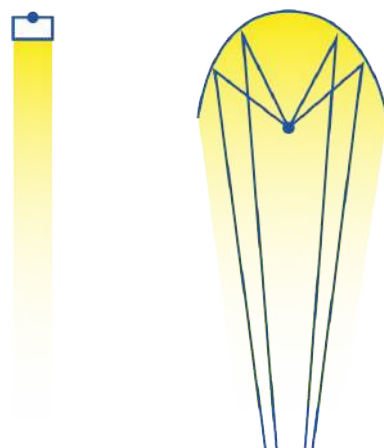
The main characteristic of scialytic lamps or surgical lamps is to be found in their name. The term scialytic originally derives from Greek and means 'devoid of shadow'; scialytic lamps are therefore shadowless. Over the decades many different lighting technologies have been adopted. In 2002 at the "Medica" trade fair in Düsseldorf, Rimsa presented the first LED powered scialytic lamp in the world. The LED technology guarantees a lower energy consumption and a longer service life compared to any other lighting source. On the other hand, being LEDs spaced between each other on the surface, the light emitting surface generated by DIRECT LED LIGHT is lower compared to halogen light. In order to compensate for this problem, Rimsa studied INDIRECT LED LIGHT. The introduction of indirect light with the other advantages of LED, affirmed LED as the main light source in the medical illumination.



*% of Light emitting surface of the cupola depending on the lighting technology used*

## INDIRECT LIGHT

Conscious of the disadvantages caused by direct illumination, Rimsa designed a solution using INDIRECT light for its own product: the beam of light that is produced by the diode is intercepted by a parabola that reflects the beams, merging them into one. Indirect reflection therefore allows for a greater illuminated surface area whilst using fewer LEDs. Alongside that also comes the added benefit of lower temperature generated on the printed circuit board, guaranteeing a longer service life, a lower luminous degradation and a greater scialytic effect than that of a direct reflection solution. Further developing the advantages of indirect reflection, in 2017 RIMSA patented 2R technology (Double reflection technology) which guarantees the maximisation of the light emitting surface area.



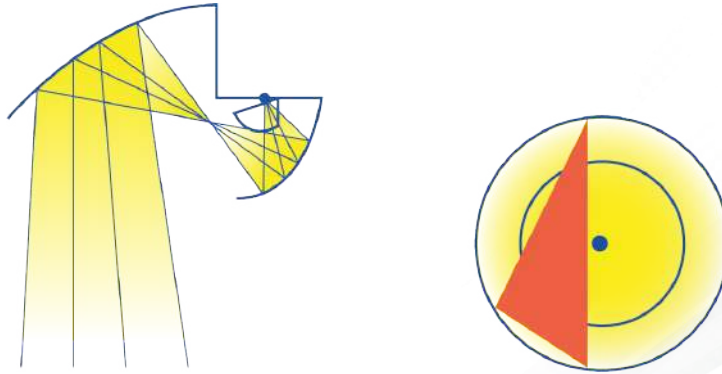
*Visualisation of the principle of DIRECT light and INDIRECT LIGHT*



## 2R DOUBLE REFLECTION



The presence of LEDs along two circumferences positioned at the extremity of two modules of mirrors, creates a double reflection illumination capable of obtaining a light emitting surface area that is incomparable to any other type of reflection. With the patented 2R technology, the light emitting surface area matches the area of the reflector.



*Representation of double reflection technology*

## GLARING EFFECT

Considering the length of time required for some operations and the potential gravity of a human error in these situations, it is essential to guarantee a light that doesn't stress, tire, or blind the surgeon. The most irritating effect that scialytic lamps can create is glare: the sensation of being blinded. The lamps of the Unica series, thanks to the 2R Technology, based on the double reflection technology, are capable of completely removing the glare caused by surgical illumination.

## 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 ( $E_c$ ). 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	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	270 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%	620 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 hours	> 60.000 hours
Control of the illuminance	25 - 100 %	25 - 100 %
Electrical absorption	130 W - 150 VA	75 W - 85 VA
Compatibility with laminar flow (DIN 1946-4)	15,8 %	15,4 %

Regulation (EU) 2017/745 of the European Parliament and of the Council, of 05th April 2017 – 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 Pentaed 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 - 230 mm
Depth of illumination IEC 60601-2-41 (L1+L2) at 60%	490 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 hours
Control of the illuminance	20 - 100 %
Electrical absorption	48 W - 56 VA

Regulation (EU) 2017/745 of the European Parliament and of the Council, of 05th April 2017 – 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	4.500 - 5.000K
Color rendering index (CRI)	96 Ra	96 Ra
Diameter adjustment	Electronic	Electronic
d10 light field diameter where illuminance reached 10% of Ec	260 mm	210 mm
Light field diameter adjustable from-to	160 - 300 mm	140 - 260 mm
Depth of illumination IEC 60601-2-41 (L1+L2) at 60%	700 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>	627 W/m <sup>2</sup>
Ratio between radiated energy Ee and illuminance Ec	3,6	3,9
Average LED life	> 60.000 hours	> 60.000 hours
Control of the illuminance	20 - 100 %	25 - 100 %
Electrical absorption	100 W - 110 VA	52 W - 60 VA

Regulation (EU) 2017/745 of the European Parliament and of the Council, of 05th April 2017 – 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	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	205 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	650 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	3,67
Average LED life	> 60.000 hours	> 60.000 hours
Control of the illuminance	20 - 100 %	20 - 100 %
Electrical absorption	60 W - 67 VA	52 W - 60 VA

Regulation (EU) 2017/745 of the European Parliament and of the Council, of 05th April 2017 – Norm IEC 60601-2-41

## MAIN FEATURES



## ACCESSORIES

HD (Pentaled 63N only)



# QUATTROLUCI LED



This model is especially recommended for operating theatres where the surgeon needs a light and flat lamp to avoid interference with other overhead equipment. Excellent for oral and maxillofacial surgery and aesthetic plastic surgery.

The multi-circular dome consists of 36 led lenses divided into 4 modules, which ensure shadow suppression and three-dimensional light



QUATTROPA



QUATTROPI



QUATTROSO



QUATTROSOX2

## Performances

Light intensity at 1 m distance (Ec)	160.000 lux
Light head diameter	60 cm
Color temperature	4.900 K
Color rendering index (CRI)	94Ra
Diameter adjustment	300 mm
d10 light field diameter where illuminance reached 10% of Ec	270 mm
Depth of illumination IEC 60601-2-41 (L1+L2) at 60%	1100 mm
Depth of illumination IEC 60601-2-41 (L1+L2) at 20%	1740 mm
Total radiated energy Ee where the illuminance reaches max level	570 W/m <sup>2</sup>
Ratio between radiated energy Ee and illuminance Ec	3,47
Average led life	> 60.000 hours
Control of the illuminance	15-100%
Electrical absorption	61 W - 104 VA

## QUATTROLUCI LED

Regulation (EU) 2017/745 of the European Parliament and of the Council, of 05th April 2017 – 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 ( $E_c$ )	50.000 lux
Light head diameter	19,5 cm
Color temperature (2 selections)	4.000 - 4.500K
Color rendering index (CRI)	95 Ra
Diameter adjustment	Fixed
d10 light field diameter where illuminance reached 10% of $E_c$	260 mm
Depth of illumination IEC 60601-2-41 (L1+L2) at 60%	1100 mm
Depth of illumination IEC 60601-2-41 (L1+L2) at 20%	1800 mm
Total radiated energy $E_e$ where the illuminance reaches max level	186 W/m <sup>2</sup>
Ratio between radiated energy $E_e$ and illuminance $E_c$	3,63
Average led life	60.000 hours
Control of the illuminance	20 - 100 %
Electrical absorption	18,5 W / 37 VA

## SATURNO-LED

Regulation (EU) 2017/745 of the European Parliament and of the Council, of 05th April 2017 – 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	4.500 - 5.000K (2 selections)
Color rendering index (CRI)	95 Ra	95 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%	750 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	370 W/m <sup>2</sup>	456 W/m <sup>2</sup>
Ratio between radiated energy Ee and illuminance Ec	3,7	3,62
Average LED life	> 60.000 hours	> 60.000 hours
Control of the illuminance	20 - 100 %	20 - 100 %
Electrical absorption	20 W - 38 VA	47 W - 82 VA

Regulation (EU) 2017/745 of the European Parliament and of the Council, of 05th April 2017 – 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. The light intensity can be adjusted through the touch button, a smooth touch of the control allow to regulate the light intensity. The transformer, integrated in the plug for a lighter and smooth movements of the arm structure, is supplied with interchangeable plugs (UK, US, EU).



## Fixing Systems



## Battery Group



## Performances

### ALFA-FLEX

### ALFA-FIX

### L88-LED-M

Light intensity at 0,50 m distance (Ec)	70.000 lux	70.000 lux	2.250 lux
Light head diameter	9,5 cm	9,5 cm	23 cm
Color temperature	4.500 K	4.500 K	5.370 K
Color rendering Index (CRI)	94 Ra	94 Ra	95 Ra
d10 light field diameter where illuminance reached 10% of Ec	130 mm	130 mm	200 mm
Average LED life	> 60.000 hours	> 60.000 hours	> 60.000 hours
Control of the illuminance	4 – 100%	4 – 100%	4 – 100%
Electrical absorption	7W – 15VA	7W – 15VA	16,5W – 38VA

Regulation (EU) 2017/745 of the European Parliament and of the Council, of 05th April 2017 – Norm IEC 60601-2-41



### **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.

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

The flexible arm, for easy light adjustment, is 60 cm long and it is covered by a smooth white shrink-wrap sheath for easier cleaning and disinfection.



### **ALFA-FIX:**

Three carefully selected LEDs are housed in the reflector to ensure an intense light with minimum energy consumption.

The same reflector of ALFA-FLEX, in this model is mounted on joint arm granting a precise positioning.

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



### **L88-LED-M:**

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.

### Battery Group



### Fixing Systems





**PRIMA-FIX**  
Joint Arm



**PRIMA-FLEX**  
Gooseneck Arm

## Performances

Light intensity at 0,50 m distance (Ec)

Light head diameter

Color temperature (2 selections)

Color rendering Index (CRI)

d10 light field diameter where illuminance reached 10% of Ec

Average LED life

Control of the illuminance

Electrical absorption

## PRIMALED

105.000 lux

19,5 cm

4.000 - 4.500K

95 Ra

150 mm

60.000 hours

20 - 100 %

10,5 W - 20 VA



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Research & component  
HAND MADE IN ITALY

