



# **MEDICAL** CATALOGUE

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# MEDICAL CATALOGUE

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# OUR HISTORY

## TRADITION FOR INNOVATION

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

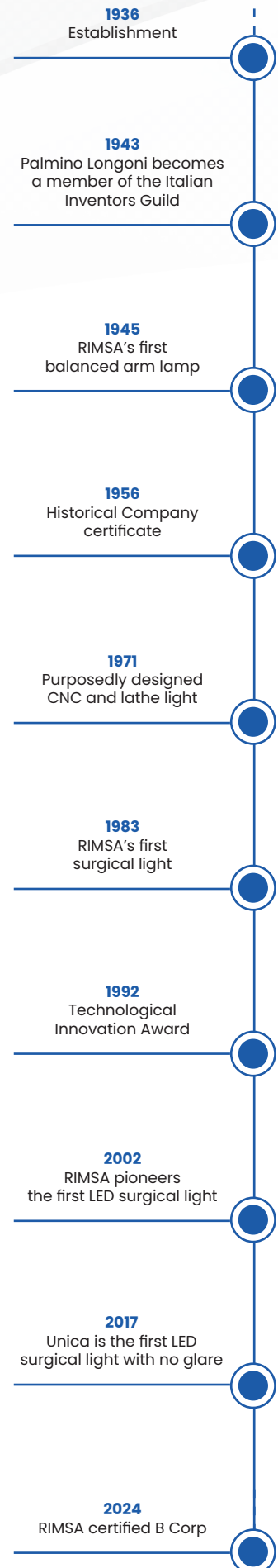
The transition from repair workshop to production facility took place in the 1940s, when Mr. Palmino decided to give shape to a product of his own. Since then, RIMSA dedicated itself to the design and development of balanced arm lamps. Company growth resulted in an expansion of the product range with 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 80s, RIMSA began focusing closely on the surgical lighting sector and, in April 1983, the Milan Trade Fair Authority awarded RIMSA the 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 Stellare open-spoke surgical lamp for operating theatres with laminar-flow.

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

In 2017, RIMSA patented "UNICA" the world's first surgical light with no glare.

RIMSA Società Benefit is a certified ISO 9001, ISO 13485 and ISO 14001, B Corp. RIMSA belongs to the WHP (workplace health promotion) project. All our products are marked CE.



# DETERMINATION AND PASSION: **THE ART OF INNOVATING.**

RIMSA IS A HISTORICAL COMPANY,  
NOT AN OLD ONE.

Backed by its history, traditions and pride, RIMSA has always put “Uniqueness” at the centre of its organization, focusing on the promotion of human resources, technological updating, straightforward management, and product quality. Together, all these elements 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.

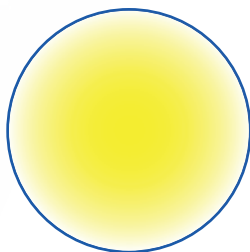


# MAIN FEATURES

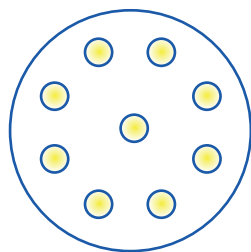
## LIGHT EMITTING SURFACE

The main characteristic of scialytic, or surgical, lamps can be found in their name. The term scialytic originally comes from the Greek for '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, since LEDs are spaced between each other on the reflector, the light emitting surface generated by DIRECT LED light is smaller compared to that of halogen light.

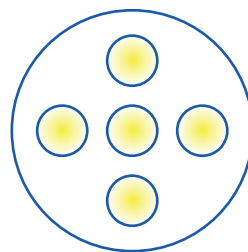
In order to compensate for this problem, RIMSA studied INDIRECT LED light, which, together with the other advantages offered by LEDs, allowed LED technology to become the main light source in the medical field.



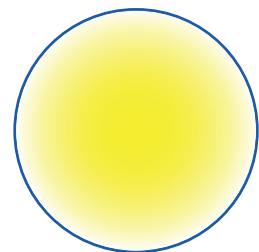
Halogen indirect light  
100%



LED direct light  
60%



LED indirect light  
80%



2R double reflection (UNICA)  
100%

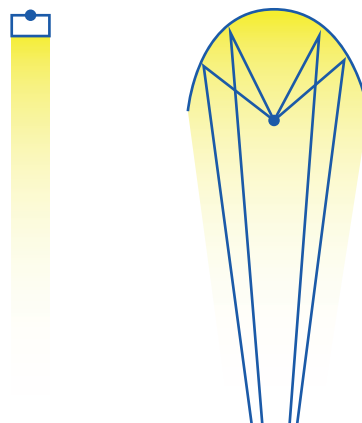
% of light emitting surface of the cupola depending on the lighting technology used

## INDIRECT LIGHT

Conscious of the disadvantages caused by direct illumination, RIMSA designed and implemented a solution using INDIRECT light for its own products: the beam of light that is produced by the diode is intercepted by a parabola that reflects the beams, merging them into one. Therefore, indirect light allows for a greater illuminated surface area whilst using fewer LEDs.

Added benefits of indirect light also include a lower luminous degradation, a greater scialytic effect than that of a direct light solution, and a lower temperature generated on the printed circuit board, guaranteeing a longer service life.

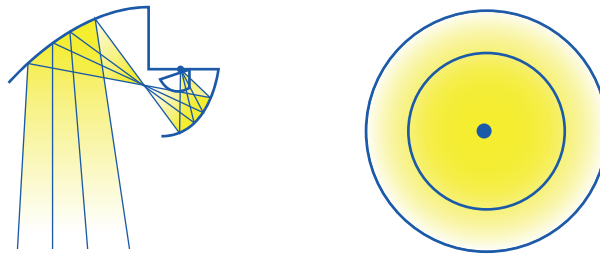
Further developing the advantages of indirect light, in 2017 RIMSA patented its 2R technology (Double reflection technology) which guarantees the maximisation of the light emitting surface area.



Visualisation of the principles of direct light (left) and indirect light (right)

## 2R: DOUBLE REFLECTION TECHNOLOGY

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 (left) and maximized light emitting surface (right)

## GLARING EFFECT

Considering the duration required for some operations and the potential gravity of human error in these situations, it is essential to guarantee a light that doesn't stress, tire, or blind the surgeon, even temporarily. The most irritating effect that scalytic lamps can create is glare: the sensation of being blinded is particularly dangerous when we consider that these lamps are required to produce up to 160.000 lux.

The lamps of the Unica series, thanks to the 2R Technology, are capable of completely removing the sensation of glare caused by surgical illumination.

## COMPENSATION AREA

An additional light source makes it possible to expand the lit field at the edges without affecting the light intensity at the centre (Ec). The compensation area is a ring of less intense light surrounding the operating field, which allows a progressive and gradual adaptation of the light in order to remove the glare between the central area of the surgical focus and the peripheral one.

## DEEP 3D LIGHT

The centre of the lamp is fitted with an additional LED module specifically designed to cast deep light. This feature guarantees that the surgeon will be able to operate with perfect 3D lighting, especially in cavities.

# UNICA

THE ONLY LAMP THAT COMPLETELY ELIMINATES GLARE

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

**UNICA 860**  
**UNICA 520**







CEILING SINGLE  
UNICA520SO



MOBILE  
UNICA520PI



CEILING DOUBLE  
UNICA520+520



CEILING SINGLE  
UNICA860SO



CEILING DOUBLE  
UNICA860+520

## Performances

	860	520
Illumination (E <sub>c</sub> ) at 1 m distance	160.000 lux	160.000 lux
Light head diameter	86 cm	52 cm
Colour temperature (7 selections)	3.800 to 5.000 K	3.800 to 5.000 K
Light field diameter	150 - 380 mm	150 - 350 mm
Average LED life	> 60.000 hours	> 60.000 hours
Light intensity control	5 - 100 %	5 - 100 %

## Main features

Double reflection: zero glare

Deep 3D light

Compensation area

Light always on focus

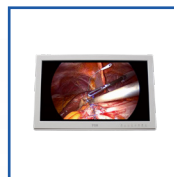
## Accessories



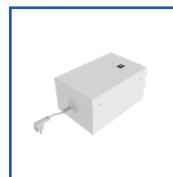
Double yoke



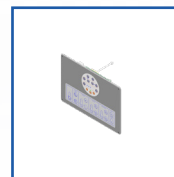
Camera:  
FULL-HD cable  
4K cable



Monitor



Battery group



Wall control  
panel



IR remote  
control



Integration  
system

# U29

## A COMFORTABLY AFFORDABLE SURGICAL LIGHT

U29 combines the indirect light technology consolidated by the success of 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.





CEILING SINGLE  
U29SO



MOBILE  
U29PI



CEILING DOUBLE  
U29+29

## Performances

## U29

Illumination (E <sub>c</sub> ) at 1 m distance	160.000 lux
Light head diameter	52 cm
Colour temperature	4.500 - 5.000 K
Light field diameter	140 - 230 mm
Average LED life	> 60.000 hours
Light intensity control	5 - 100 %

## Main features

- Indirect light
- Deep 3D light
- Compensation area
- Light always on focus

## Accessories



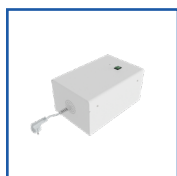
Double yoke



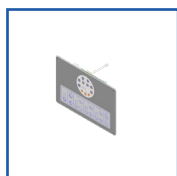
Camera:  
FULL-HD cable  
FULL-HD Wi-Fi  
4K cable



Monitor



Battery group



Wall control  
panel



IR remote  
control



Integration  
system

# PENTALED N SERIES

## MANUAL DIAMETER ADJUSTMENT

The PentaLED N Series represented a breakthrough in the medical lighting field, being the first LED surgical light ever displayed to the public. The focus function is activated by the surgeon rotating the sterile central handle: this manual focalization inside the sterile area grants a precise and immediate control of the light field.

## PENTALED 63N PENTALED 30N





CEILING SINGLE  
PENTA30NSO



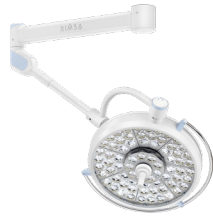
MOBILE  
PENTA30NPI



WALL MOUNTED  
PENTA30NPA



CEILING DOUBLE  
PENTA30N+30N



CEILING SINGLE  
PENTA63NSO



CEILING DOUBLE  
PENTA63N+30N



CEILING DOUBLE  
PENTA63N+63N

## Performances

### 63 N

### 30 N

Illumination (E <sub>c</sub> ) at 1 m distance	160.000 lux	160.000 lux
Light head diameter	63 cm	40 cm
Colour temperature	4.500 - 5.000 K	4.500 - 5.000 K
Diameter adjustment	Manual	Manual
Light field diameter	160 - 300 mm	140 - 280 mm
Average LED life	> 60.000 hours	> 60.000 hours
Light intensity control	5 - 100 %	5 - 100 %

## Main features

Indirect light

Deep 3D light

Manual diameter and focus adjustment

## Accessories



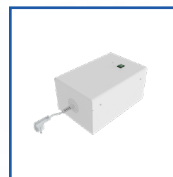
Double yoke



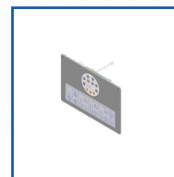
PENTA63N ONLY  
Camera:  
FULL-HD cable  
4K cable



Monitor



Battery group



Wall control  
panel



IR remote  
control



Integration  
system

# 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 30E





CEILING SINGLE  
PENTA30ESO



MOBILE  
PENTA30EPI



WALL MOUNTED  
PENTA30EPA



CEILING DOUBLE  
PENTA30E+30E

## Performances

## 30 E

Illumination (Ec) at 1 m distance	160.000 lux
Light head diameter	40 cm
Colour temperature	4.500 - 5.000 K
Light field diameter	140 - 260 mm
Average LED life	> 60.000 hours
Light intensity control	5 - 100 %

## Main features

- Indirect light
- Deep 3D light
- Compensation area
- Light always on focus

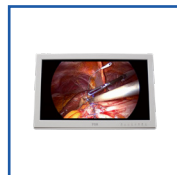
## Accessories



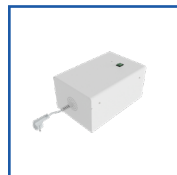
Double yoke



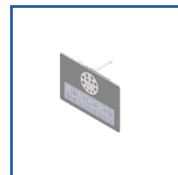
Camera:  
FULL-HD cable  
FULL-HD Wi-Fi  
4K cable



Monitor



Battery group



Wall control  
panel



IR remote  
control



Integration  
system

# QUATTROLUCI LED

IDEAL FOR SURGERY, UP TO 160.000 LUX  
FROM A 60 CM REFLECTOR

This model is especially recommended for operating theatres where the surgeon needs a light and thin lamp to avoid interference with other overhead equipment. Excellent for oral and maxillofacial surgery, and plastic surgery. The newly updated multi-circular dome, compact and wieldy, consists of 36 LED lenses divided into 4 modules, which ensure shadow suppression and three-dimensional light.



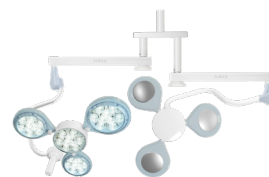
CEILING SINGLE  
QUATTROSO



MOBILE  
QUATTROPI



WALL MOUNTED  
QUATTROPA



CEILING DOUBLE  
QUATTROSOX2

## Performances

## QUATTROLUCI LED

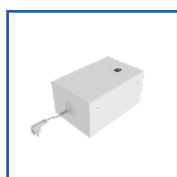
Illumination (E <sub>c</sub> ) at 1 m distance	160.000 lux
Light head diameter	60 cm
Colour temperature	4.500 K
Light field diameter	300 mm
Average LED life	> 60.000 hours
Light intensity control	15 - 100%

## Main features

Deep 3D light

Direct light

## Accessories



Battery group



# PENTALED 30E LIGHT

## QUALITY LIGHT WITH A COMPETITIVE PRICE

PentaLED 30E LIGHT combines the well-known cupola from PentaLED 30E with a lighter structure, making it even more cost-effective without compromising on light quality.



CEILING SINGLE  
PENTA30ELSO



MOBILE  
PENTA30ELPI



WALL MOUNTED  
PENTA30ELPA



CEILING DOUBLE  
PENTA30EL+30EL

## Performances

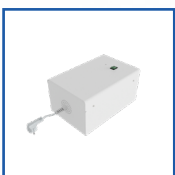
## 30E LIGHT

Illumination (E <sub>c</sub> ) at 1 m distance	160.000 lux
Light head diameter	40 cm
Colour temperature	4.500 – 5.000 K
Light field diameter	140 – 260 mm
Average LED life	> 60.000 hours
Light intensity control	5 – 100 %

## Main features

- Indirect light
- Deep 3D light
- Compensation area
- Light always on focus

## Accessories



Battery group

# PENTALED 12/28

UNPARALLELED PERFORMANCE TECHNOLOGY,  
THE BEST LAMP FOR OUTPATIENT CLINICS AND MINOR SURGERY.

Their compact dimensions and extremely handy structures are permeated by the strong determination of RIMSA's dedication, a synonym of high technology, quality and performance since forever. The thin dome, with its two convenient side grips, ensures easier positioning and adjustment and reduces overall dimensions.

Choose the lamp that best meets your necessities: Pentaled 12 comes with indirect light; Pentaled 28 on the other hand adopts a direct light technology and has the possibility to manually adjust the light field diameter.



PENTALED 12

PENTALED 28



CEILING SINGLE  
PENTA12SO  
PENTA28SO



MOBILE  
PENTA12PI  
PENTA28PI



WALL MOUNTED  
PENTA12PA  
PENTA28PA



CEILING DOUBLE  
PENTA12+12  
PENTA28+28

## Performances

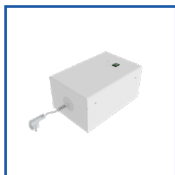
	12	28
Illumination (E <sub>c</sub> ) at 1 m distance	100.000 lux	120.000 lux
Light head diameter	40 cm	40 cm
Colour temperature	4.500 K	4.500 - 5.000 K
Diameter adjustment	Fixed	Manual
Light field diameter	160 mm	110 - 330 mm
Average LED life	> 60.000 hours	> 60.000 hours
Light intensity control	20 - 100 %	20 - 100 %

## Main features

Indirect light - PENTALED 12

Direct light - PENTALED 28

## Accessories



Battery group

# SATURNO LED

## QUALITY LIGHT WITH A COMPETITIVE PRICE

This surgical-type lamp is suitable for minor non-invasive surgeries, for gynaecology and for the emergency room. The fact that the beams are close together (reflector size 195 mm), 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.



CEILING SINGLE  
SATSON-LED



MOBILE  
SATPIN-LED



WALL MOUNTED  
SATPAN-LED



CEILING DOUBLE  
SATSONX2-LED

### Performances

Illumination ( $E_c$ ) at 1 m distance

Light head diameter

Colour temperature

Light field diameter

Average LED life

Light intensity control

### SATURNO LED

60.000 lux

19,5 cm

4.000 - 4.500 K

260 mm

> 60.000 hours

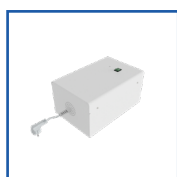
20 - 100%

### Main features

Deep 3D light

Direct light

### Accessories



Battery group

## OBSERVA SERIES

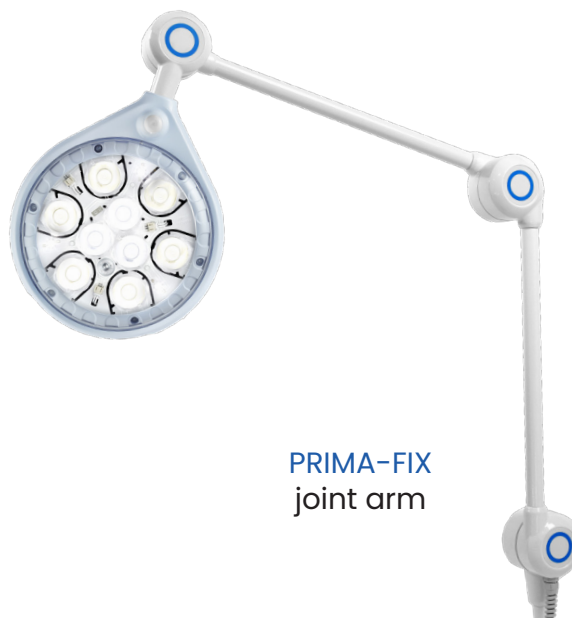
# PRIMA LED

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 stable and easy to operate. PRIMALED is ideal for any type of installation, from the outpatient department to the intensive care unit.



**PRIMA-FLEX**  
flexible arm



**PRIMA-FIX**  
joint arm

### Performances

Illumination at 0,50 m distance	115.000 lux
Light head diameter	19,5 cm
Colour temperature	4.000 - 4.500K
Light field diameter	150 mm
Average LED life	> 60.000 hours
Light intensity control	20 - 100 %

### PRIMA LED

### Fixing systems



**S11**  
Table clamp



**S12MED**  
Wall clamp



**RLBI**  
Mobile base



**Z400819**  
Rail bar clamp

### Accessory



**KITB24RL**  
Battery group

# OBSERVA SERIES

## ALFA LED

Three LED light sources with coinciding lenses and borosilicate glass protection shield ensure intense, deep light with low power consumption and minimal heat radiation. Each LED is equipped with a resistor to ensure continuous use of the lamp even in the rare event of an LED failing. Thanks to these three independent light sources, shadows can be reduced.



**ALFA-FLEX**  
flexible arm



**ALFA-FIX**  
joint arm

### Performances

Illumination at 0,50 m distance	70.000 lux
Light head diameter	9,5 cm
Colour temperature	4.500 K
Light field diameter	130 mm
Average LED life	> 60.000 hours
Light intensity control	4 - 100 %

### ALFA LED

### Fixing systems



**S11**  
Table clamp



**S12MED**  
Wall clamp



**RLBI**  
Mobile base for  
ALFA-FIX



**RLALFA**  
Mobile base for  
ALFA-FLEX



**Z400819**  
Rail bar clamp



**KITB12RL**  
Battery group

### Accessory

## OBSERVA SERIES

# 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  $\varnothing$  120 mm. It features a polycarbonate screen for protecting the light source. The lamp is equipped with a 3 dioptries lens; 5 dioptries lens available on request.



### Performances

### L88-LED-M

Illumination at 0,50 m distance	2.250 lux
Light head diameter	23 cm
Colour temperature	5.370 K
Light field diameter	200 mm
Average LED life	> 60.000 hours
Light intensity control	5 - 100 %

### Fixing systems

### Accessory



S11  
Table clamp



S12MED  
Wall clamp



RLBI  
Mobile base



Z400819  
Rail bar clamp



KITB24RL  
Battery group



Rimsa - Brightening ideas

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HANDMADE IN ITALY

