U29

COMFORTABLY AFFORDABLE

RIMSA

www.rimsa.it

Brightening ideas

Designers of the world's first scialytic lamp using LED technology, RIMSA now applies the experience it has gained over the years to its new **U29** Model.

U29 combines the indirect technology consolidated by the success obtained by the Pentaled Series with an elegant and compact design.

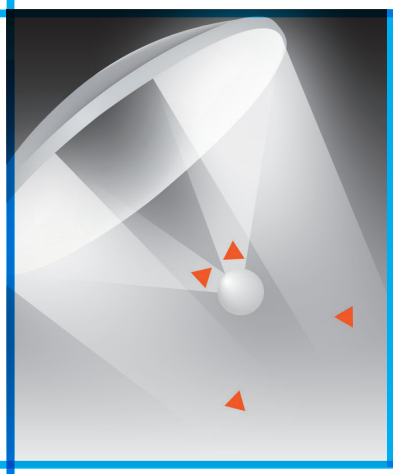
U29 is a high-performance lamp, strongly engineered but accessible, so that any surgeon can benefit from it.

The U29 lamp has been developed to provide a comfortable light without any glare for surgeon and assistants, with an extremely easy-to-handle dome and a reasonable price. This product therefore goes to join what is an already broad range of RIMSA surgical lamps.

Controls

The controls on the membrane keyboard activate the following functions:

- colour temperature selection (5000°K or 4500°K)
- light intensity adjustment (up to 160 Klx)
- light field adjustment
- switching on/off
- EndoLed, a special type of light that facilitates endoscopic operations. The surgeon can select the exact brightness and colour temperature required.



U29

Dome

- The dome, which is very compact and has a large light emission surface, is balanced so as to make its operation light and stable. It features an easy-to-clean shape and is without screws and surface holes.
- The dome features an ergonomic round grip to hold and move the lamp.
- The screen roughness collimates the light beam and improves the scialytic effect. The polycarbonate screen is treated to be resistant to scratches and knocks.

Indirect light

Indirect light, a crucial feature of the U29 Model, provides the surgeon with cold and deep light, without any sort of glare. This is due to especially calculated parabolic dishes that reflect the entire spectrum of light emitted by each LED lamp in a punctiform manner, without dispersion.

This means:

- fewer LEDs needed
- lower irradiated heat in the operating field.

Thanks to the physical principle of indirect light, the surgeon and his/her assistants are never disturbed by the light emitted and never become dazzled. The light is always on focus at different distances (from 80 cm to 150 cm). The size of the light field can be adjusted electronically according to the type of light required by the surgical speciality.

U29+**29**

No stress, glare free

Available versions:

U29 **mobile**	U29+**29**+**DY2**	U29 **ceiling**
		

Performances:

PERFORMANCES U29

Light intensity at 1m distance (E_c)	160 Klx
Color temperature: double selection	4500 / 5000° K
Color rendering index (CRI)	96 Ra
R9	≥ 90
No. of Leds	29
Light field diameter adjustment	Electronic
Light field diameter adjustable from – to – (cm)	11 – 28
d10 light field diameter where illuminance reaches 10% of Ec	230 mm
d50 light field diameter where illuminance reaches 50% of Ec	120 mm
Depth of illumination IEC 60601-2-41 (L1+L2) at 60%	60 cm
Depth of illumination IEC 60601-2-41 (L1+L2) at 20%	135 cm
Control of the illuminance (%)	20 - 100
Total radiated energy Ee where the illuminance reaches max level (W/m^2)	549
Ratio between radiated energy Ee and illuminance Ec ($mW/m^2.lx$)	3,43
Radiated UV energy with wavelength less than 400nm (W/m^2)	0,001
Average Led life	> 60.000 hours

ELECTRICAL DATA

Primary alternating voltage (V a.c.)	100 ÷ 240
Secondary continue voltage (V d.c)	24
Frequency (Hz)	50/60
Absorbed power (VA)	55

GENERAL DATA

Colour	RAL 9003
Directive	93/42/EEC*
Standards	IEC60601-2-41
Classification of product (Medical Device)	Class I

DIMENSIONS

Out reflector diameter (cm)	52
Useful lighting surface (cm2)	737

OPTIONAL

Battery group with automatic charger	Optional
HD camera	Optional
IR remote control	Optional
Wall control panel	Optional
Monitor arm	Optional

All lighting values are subjected to a tolerance of ± 5% due to manufacturing and metrological reasons.
* main directive and further amendments

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ISO 9001:2008 ISO13485:2012

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