

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, 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.

indirect light



U29+29

No stress, glare free

Available versions:

U29 **mobile**



U29+29+DY2



U29 **ceiling**



Performances:

PERFORMANCES U29

| | |
|---|----------------|
| Light intensity at 1m distance (E_v) | 160 Klx |
| Color temperature: double selection | 4500 - 5000 K |
| Color rendering index (CRI) | 96 Ra |
| Color rendering index (R9) | ≥ 90 |
| No. of Leds | 29 |
| Light field diameter adjustment | Electronic |
| Light field diameter adjustable from – to – | 140 – 230 mm |
| d10 light field diameter where illuminance reaches 10% of E_c | 200 mm |
| d50 light field diameter where illuminance reaches 50% of E_c | 120 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 |
| Control of the illuminance | 20 - 100 % |
| Total radiated energy E_e where the illuminance reaches max level (W/m^2) | 580 |
| Ratio between radiated energy E_e and illuminance E_c (mW/m^2lx) | 3,68 |
| 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 | 48 W - 56 VA |

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 (cm ²) | 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 $\pm 5\%$ due to manufacturing and metrological reasons. * main directive and further amendments



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RESEARCH & COMPONENTS



HAND-MADE IN ITALY



ISO 9001:2008 ISO 13485:2012

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