KLS martin GROUP



The new **marLED®** E9i/E15 and **marLED®** E9i/E15 battery

Show how efficient light can be.

www.klsmartin.com

It's all in a single letter. Numerous benefits. marLED® E. Shows how efficient light can be.

The marLED® E series provides brilliant light based on state-of-the-art LED technology. It combines impressive performance and user-focused design with maximum efficiency - in both ecological and economic terms. This pays dividends: for all users.
At a fascinating level.



The marLED® E is as individual as your operating theater.
It is available in two designs and combinations:
marLED® E9i and marLED® E15.

Tailored to your needs.
At an unbeatable price-performance ratio.
Shows how efficient light can be.



The new features at a glance

- Large touch-sensitive marTouch® Pro operating device for controlling individual or multiple lights simultaneously
- Interactive communication of all system components via Bluetooth®
- Intuitive operation and numerous setting options
- Compatible with all handles of the existing range
- Optional integration of surgiCam® camera system HD, HD wireless and 4K wireless)
- Mounting options on the light's fully cardanic suspension, on the table, on the wall and on the standard rail



Incredible attention to detail. Fantastic lighting.

Outstanding color rendering, which allows a realistic assessment of biological tissue characteristics. Color temperatures similar to daylight for reliable results. Outstanding turbulence levels for safe working. You will be suitably impressed by the light quality of the marLED® E series.

The marLED® E series provides illuminance levels of up to 160,000 lux - at an extremely low power consumption of just 35 or 40 W. It is also impressive in terms of heat emission: the light's body is only lukewarm to touch at its hottest point.

State-of-the-art LED lens technology ensures a homogenous field of light, maximum freedom from shadows as well as utmost brilliance and natural color reproduction.





Sophisticated design. For all users.

The design of the marLED® E also impresses with its maximum efficiency for safe use and optimum handling. Both the light field and the backLite mode can be adjusted very easily via the sterile handle.

The marLED® E is made of extremely high-quality, robust and stable materials. The seamless and smooth surfaces and rounded edges deliver excellent fluidic performance.

With the absence of external screw connections due to the innovative connection technology and rimless cover glasses with an integrated seal - the marLED® E fully complies with the highest hygiene requirements and enables simple, fast and safe cleaning and wipe disinfection.

The new features at a glance

- Extended color temperature range between 3,000 and 5,500 K
- Changing the color temperature via the sensoGrip multi-function handle directly on the light
- Continuous adjustment of the backLite background light from 1% to 30%, i.e. for endoscopic procedures*
- LTM (LightTubusMax or comfort light): automatic setting of a standard light field with preset illuminance, diameter and color temperature*
- Optional: saving of discipline- and user-related settings*

*only in conjunction with the marTouch® Pro





Sufficient power for all uses. Equipped for all eventualities.

The marLED® E series is also available in a battery version, as marLED® E9i battery and marLED® E15 battery. Looks just like the marLED® E and is just as powerful. Mains independent performance, whether mobile or permanently installed.

The rechargeable batteries are integrated directly into the lamp body and only require 2.5 hours of charging time. After charging, the marLED® E battery provides up to eight hours of brilliant light with an illuminance of up to 160,000 lux. No matter where it is used – in humanitarian missions, in developing areas, in crisis situations. In fact, simply where it matters – when electricity is not available or where a reliable power supply cannot be guaranteed.

Just goes to show how mobile an autonomous, reliable and powerful system can be.

2.5 h charging time

8 h rechargeable battery service life

160,000 Lux

The new features at a glance

And by using the marTouch® Pro operating device, the user can take advantage of the latest features!

Ready for peak performance. With a view to the future.

For everyone who is already thinking about tomorrow today, the marLED® E is the light of the future. Not only because it ensures optimized lighting of the surgical field, but because it also delivers impressive energy efficiency. At over 60,000 hours, the service life of the lamp lies in the absolute top range.

The marLED® E uniquely combines the aspects of economy and sustainability with photometric performance and hygienic safety.

This certainly pays dividends. For the clinic, for patients – and for the environment.



The marLED® E series, right down to the tiniest detail. Everything at a glance.

	marLED® E9i	marLED® E15
Degree of turbulence (standard value 37.5% max.)	27%	24%
Power rating[1]	40 W	35 W
Expected average service life of the lamp	> 60,000 h	
Light field diameter (d10, distance 1 m)[2]	180-270 mm	190-290 mm
Central illuminance (1 m distance)	160,000 lx	
Color temperature[2]	3,000 K to 5,500 K (infinitely variable)	
Central illuminance electrically dimmable from/to[2]	31-100% / 1-30% (Endo mode)	
Color rendering index Ra /R9/R13	99	
Rechargeable battery charging time[3] (for marLED® E battery)	2.5 h	
IP protection class	42	

[1] at 24 VDC, small light field, maximum illuminance
[2] extended setting options with optional marTouch® Pro
[3] for lamp in standby mode
For production reasons and metrological reasons, all of the data provided relating to the light output has a tolerance of +/- 10%.
All values conform to IEC 60601-2-41.

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90-315-02-09 · Rev. 01 · 2023-06 · Printed in Germany

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