## **Dr. Mach** LED-technology

With outstanding colour rendering indexes  $R_a = 95$  the surgeon recognizes

The colour spectrum of the wound is rendered naturally with rich contrast.

A multitude of computer-calculated facetted lenses guarantees homogeneity and lowest shadiness in the light field. Separately arranged optical systems, each with one LED module, generate their own light field, which increases the contrast effect of the OT-light. Light intensities of 60.000 Lux at a distance of 0,5 meters can be can be attained without difficulty.

The following light functions can be adjusted electronically, such as:

During development high attention was paid to easy handling and high ease of maintenance. Furthermore the flow-enhancing ring form and the minimal surface avoid any heat increase in the surgeon's head area and create a perfect laminar flow performance. The light can be positioned

The life-span of more than 40.000 operating hours reduces the costs for exchanging and replacing the illuminants considerably, compared with the

conventional halogen technology used with former OT-lights. By implementation of the LED technology the power consumption could be reduced

Superiour colour rendition

Facetted multi-lens system

Key pad on the lamp housing

exactly to the wound field with the handle.

partially with more than 50%.

Long life-span/low power consumption

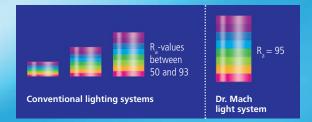
Colour temperature adjustment (only LED 115C)

• Switching ON and OFF • Electronic light intensity control

Handling

clearly the tiniest nuances of colour in tissue.

The OT-light clearly provides welcome relief for your eyes.











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The LED technology is much more effective than conventional light sources such as halogen bulbs. The heat radiation is reduced to a minimum without using any expensive filter technique. The temperature increase in the surgeon's head area is almost nonexistent.





## Mach LED 115 / 115C ••••••••••••••••••••••••

Compact examination light with LED-technology

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## Mach LED 115 / 115C examination lights



Mach LED 115 / 115C with fixation clamp for supply rails



Mach LED 115 / 115C with fixation on round and rectangular tubes

Mach LED 115 / 115C 60.000 Lux (at 0,5 m distance)

Compact examination light with LED-technology for diagnosys and prophylaxis



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Mach LED 115 / 115C on five feet mobile stand

Mach LED 115 / 115C with fixation plate



Mach LED 115 / 115C, table mounted light with fixation clamp



Technical data Mach LED 115 light system	LED 115C	LED 115
Light intensity in Lux at 0,5 meter distance	60.000	60.000
Colour rendering index Ra <sup>(1)</sup> at 4000 Kelvin	95	95
Focussable light field size (in cm)	10 (Fixed focus)	10 (Fixed focus)
Colour temperature (Kelvin)	3700; 4000; 4300	4000
Electronic light intensity control at the lamphead	50-100%	50-100%
Temperature increase in head area	0,5 °C	0,5 °C
Total power consumption	10 W	10 W
Number of LEDs	7	7
Life-span of the LEDs	>= 40.000 h	>= 40.000 h
Lamphead diameter (in cm)	38	38



Mach LED 115 / 115C with wall fixation