

Dr. Mach LED-technology

Superiour colour rendition

With outstanding colour rendering indexes $R_a = 95$ the surgeon recognizes clearly the tiniest nuances of colour in tissue.

The colour spectrum of the wound is rendered naturally with rich contrast. The OT-light clearly provides welcome relief for your eyes.

Facetted multi-lens system

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 attained without difficulty.

Key pad on the lamp housing

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

- Switching ON and OFF
- Electronic light intensity control
- Colour temperature adjustment (only LED 115C)

Handling

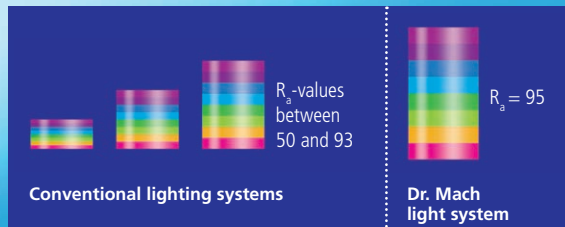
During development high attention was paid to easy handling and high ease of maintenance. Furthermore the flow-enhancing ring form and the minimal surface avoid any heat increase in the surgeon's head area and create a perfect laminar flow performance. The light can be positioned exactly to the wound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

Long life-span/low power consumption

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 partially with more than 50%.

Cool light

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

Dr. Mach GmbH & Co. KG

Flossmannstraße 28 · D-85560 Ebersberg
Phone: +49 (0) 8092 / 20 93-0 · Fax: +49 (0) 8092 / 20 93-50
www.dr-mach.com · e-mail: info@dr-mach.de

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Dr. Mach
Medical lighting
+Technology



Mach LED 115 / 115C

Compact examination light with LED-technology

Mach LED 115 / 115C examination lights



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

Compact examination light
with LED-technology
for diagnosis and prophylaxis

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
on five feet mobile stand



Mach LED 115 / 115C with fixation plate



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



Mach LED 115 / 115C with wall fixation



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 ⁽¹⁾ 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)	22	22

⁽¹⁾ R₁ is an average of R₁ = burnt pink, R₂ = mustard yellow,
R₃ = yellow green, R₄ = light green, R₅ = turquoise blue,
R₆ = skyviolet, R₇ = violet, R₈ = lilac.
Maximum value = 100.