



Dr. Mach
Medical lighting
+ Technology

Mach LED 115

Compact examination light with LED-technology

Mach LED 115 examination lights



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

Compact examination light
with LED-technology
for diagnosis and prophylaxis

**Mach LED 115 with fixation clamp
for supply rails**

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**Mach LED 115 with fixation on
round and rectangular tubes**

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**Mach LED 115
on five feet mobile stand**



Mach LED 115 with fixation plate



**Mach LED 115, table mounted light
with fixation clamp**

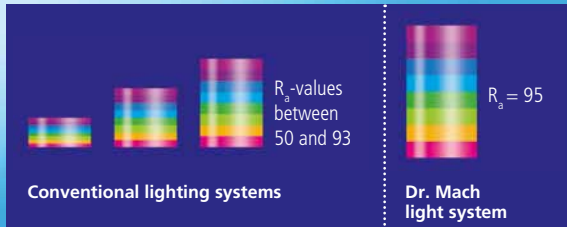


Mach LED 115 with wall fixation

Technical data Mach LED 115 light system	Mach LED 115
Light intensity in Lux at 0,5 meter distance	60.000
Colour rendering index $R_a^{(1)}$ at 4500 Kelvin	95
Focussable light field size (in cm)	14 (Fixed focus)
Colour temperature (Kelvin)	4500
Electronic light intensity control at the lamphead	50 - 100%
Temperature increase in head area	0,5 °C
Total power consumption	10 W
Number of LEDs	7
Life-span of the LEDs	≥ 40.000 h
Lamphead diameter (in cm)	22

⁽¹⁾ R_a is an average of R_1 = burnt pink, R_2 = mustard yellow, R_3 = yellow green, R_4 = light green, R_5 = turquoise blue, R_6 = skyviolet, R_7 = violet, R_8 = lilac.
Maximum value = 100.

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 OR 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



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.



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