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Dr. Mach
medical lighting + technology

Mach LED 110

Compact spot light with
LED-technology

Mach LED 115

Compact spot light with
LED-technology

Spot light Mach LED 110

with 30,000 lux (0.5 m distance)

Rail model with fixation clamp for supply rails

Wall model with wall fixation

Mobile model on five feet mobile stand

Technical Data (1)

Mach LED 110 light system

	Mach LED 110
Light intensity at 0.5 meter distance	30,000 lux
Colour temperature	4,000 kelvin
Colour rendering index R_a(2)	97
Size of the light field	10 cm
Diameter of the lamphead	12 cm
Temperature increase in the head area	0.5 °C
Number of LEDs	3
Life-span of the LEDs	60,000 h

(1) Further technical details in the data sheet of the lamp, available upon request.

(2) 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.

Spot light Mach LED 115

with 60,000 lux (0.5 m distance)

Rail model with fixation clamp for supply rails

Wall model with wall fixation

Mobile model on five feet mobile stand with one-hand height adjustment

Technical Data (1)

Mach LED 115 light system

	Mach LED 115C	Mach LED 115
Light intensity at 0.5 meter distance	60,000 lux	60,000 lux
Colour temperature	3,700; 4,000; 4.300 kelvin	4,000 kelvin
Colour rendering index R_a(2)	97	97
Size of the light field	11 cm	11 cm
Diameter of the lamphead	22 cm	22 cm
Temperature increase in the head area	0.5 °C	0.5 °C
Electronic light intensity control	standard	standard
Number of LEDs	7	7
Life-span of the LEDs	60,000 h	60,000 h

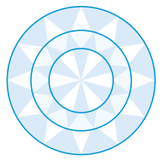
(1) Further technical details in the data sheet of the lamp, available upon request.

(2) 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 an outstanding colour rendering index R_a = 97 the surgeon recognizes clearly the tiniest nuances of colour in tissue. The colour spectrum of the surgical field is rendered naturally with rich contrast. The OT-light clearly provides welcome relief for your eyes.

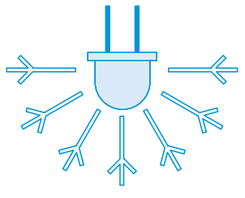
Facetted multi-lens system
Several computer-calculated facetted lenses (seven for the Mach LED 115 / 115C and three for the Mach LED 110) guarantee homogeneity and lowest shadiness in the light field. Separately arranged optical systems, each with one LED module, generate their own light field, which increases the contrast effect. Light intensities of 60,000 lux (Mach LED 115 / 115C) or up to 30,000 lux (Mach LED 110) at a distance of 0.5 meters can be attained without difficulty.



Control panel on the power pack housing (only Mach LED 115 / 115C)
The following light functions can be controlled on the power supply unit housing:
- Switching on / off (mechanical)
- Electronic brightness control
- Color temperature adjustment (only Mach 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.

Long life-span / low power consumption
The life-span of more than 60,000 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 with more than 50 % to conventional halogen lights.



Cool light
The LED technology is much more efficient 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 imperceptible.

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