

Dr. Mach LED-technology

Superiour colour rendition

With an outstanding colour rendering index $R_a = 95$ 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

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 35.000 Lux at a distance of 0,5 meters can be attained without difficulty.

Key pad on the lamp housing

The light can be switched on and off electronically at the key pad on the light head.

Handling

During development high attention was paid to easy handling and high ease of maintenance. The light can be positioned exactly to the wound field with the flexible connecting element.

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 with more than 50% to conventional halogen lights.

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.

Dr. Mach light system



Mach LED 110

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Dr. Mach
Medical lighting
+Technology



Mach LED 110

Compact examination light with LED-technology

Mach LED 110 examination lights



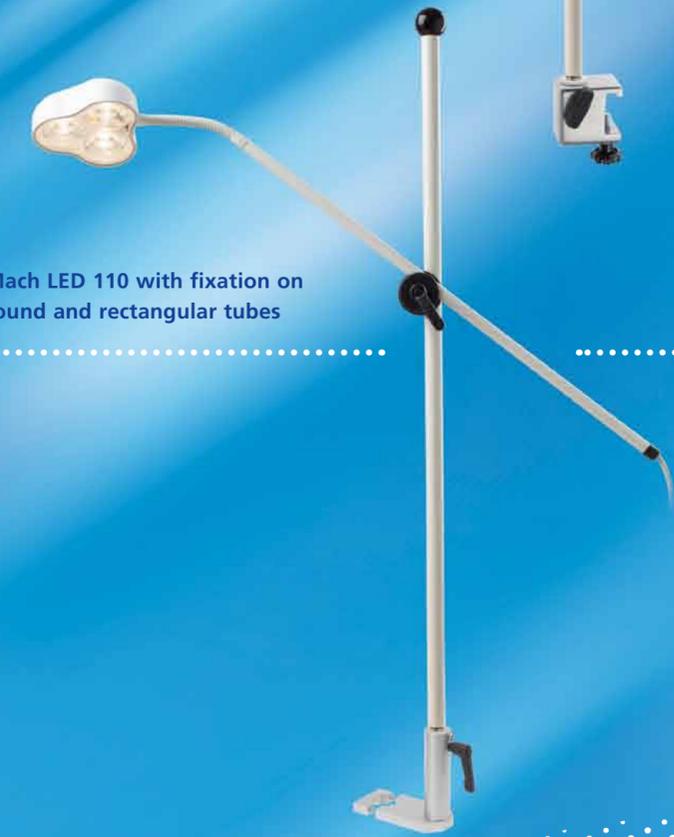
Mach LED 110
30.000 Lux (at 0,5 m distance)

Compact examination light
with LED-technology
for diagnosis and prophylaxis

Mach LED 110 with fixation clamp
for supply rails



Mach LED 110 with fixation on
round and rectangular tubes



Mach LED 110
on five feet mobile stand



Mach LED 110 with fixation plate



Mach LED 110, table mounted
light with fixation clamp



Mach LED 110 with wall fixation



Technical data Mach LED 110 light system	Mach LED 110
Light intensity in Lux at 0,5 meter distance	30.000
Colour rendering index R _a ⁽¹⁾ at 4500 Kelvin	95
Focussable light field size (in cm)	10 (Fixed focus)
Colour temperature (Kelvin)	4000
Electronic light intensity control at the lamphead	0,5 °C
Total power consumption	7 W
Number of LEDs	3
Life-span of the LEDs	≥ 40.000 h
Lamphead diameter (in cm)	12

⁽¹⁾ R_a 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.