Advantages of the Mach LED 150

Conventional light systems

Dr. Mach
light system

Mach LED 150 OT-light

Light quality and optics

Superiour colour rendition

With colour rendering indexes R_a above 95 and R_9 (red) above 90 the surgeon recognizes clearly the tiniest nuances of colour in tissue.
The colour rendering index is $R_a \geq 95$. For recognizing the exact colour spectrum of the wound the exact rendition of the red colour range is essential. R_9(red) ≥ 90 means for the surgeon a visibly better recognition of details. 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, with one LED module, generate their own light field, which increases the contrast effect of the OT-light. Light intensities of 130.000 Lux can be attained without difficulty.

Focussing (optional)

The light field can be focused by turning the handle.
The focussable light beam allows a punctual illumination of deepest wound channels with light intensity and an exact matching of the light field diameter with the size of the wound field.

Additional comfort

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.

Flow properties

During development high attention was paid to the performance of the new LED OT-lights in laminar-flow ceiling systems.

Mach LED 150

Dr. Mach
Medical lighting
+Technology

Mach LED 150

Small operating light system with LED technology

LED OT-LIGHTS

Mach LED 150 small operating light

Mach LED 150 FP / LED 150 F / LED 150
130.000 Lux / 110.000 Lux / 110.000 Lux

Handy small operating light with the optional advantage of focussing

Mach LED 150 with ceiling fixation

Mach LED 150 with wall fixation

Mach LED 150 mobile with four castors

Performance description

Mach LED 150

Superior colour rendition

Facetted multi-lens system

Cool light

Optimum flow properties

Easy maintenance

Mach LED 150 FP / LED 150 F

Additionally to the advantages of the Mach LED 150:

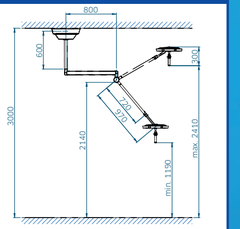
Focussing

Handling

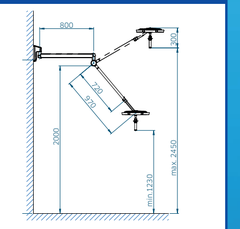
2 functions via touch panel:

- on / off
- light intensity control

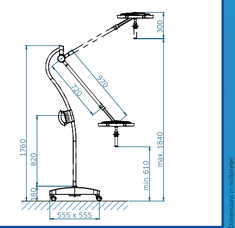
Ceiling fixation



Wall fixation



Mobile light with four castors



Dimensions in millimeter

Technical Data [1] **Mach LED 150 light system** [2]	**Mach LED 150 FP** [3]	**Mach LED 150 F** [3]	**Mach LED 150** [4]
Light intensity in Lux at 1 meter distance	130.000	110.000	110.000
Colour temperature (Kelvin)	4300	4300	4300
Colour rendering index R_a [5]	95	95	95
Focussable light field size (in cm)	17 – 24	18 – 25	19 (fixed focus)
Working distance (in cm)	70 – 140	70 – 140	70 – 140
Diameter of light head (in cm)	40	40	40
Temperature increase in the head area	0,5 °C	0,5 °C	0,5 °C
Electronic light intensity control at the lamphead	standard	standard	standard
Light source LED	26	26	26
Life-span of the LEDs	> 50.000 h	> 50.000 h	> 50.000 h
Total power consumption	35 W	35 W	35 W

(1) Further technical details in the data sheet of the lamp, available upon request
(2) external power supply
(3) F-models with focussing
(4) models with fixed focus
(5) 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.