# Advantages of the Mach LED 150



Conventional light systems







The light field can be focused by turning the handle.



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



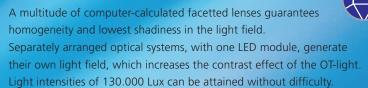
During development high attention was paid to the performance of the new LED OT-lights in laminar-flow ceiling systems.

# Light quality and optics

### **Superiour colour rendition**

With colour rendering indexes R<sub>2</sub> above 95 and R<sub>2</sub> (red) above 90 the surgeon recognizes clearly the tiniest nuances of colour in tissue. The colour rendering index is  $R_a \ge 95$ . For recognizing the exact colour spectrum of the wound the exact rendition of the red colour range is essential.  $R_o(red) \ge 90$  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**



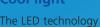
# **Focussing (optional)**

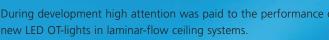


The focussable light beam allows a punctual illumination of deepest wound channels with light intensity and an exact matching of the light field diameter with the size of the wound field.

# Additional comfort

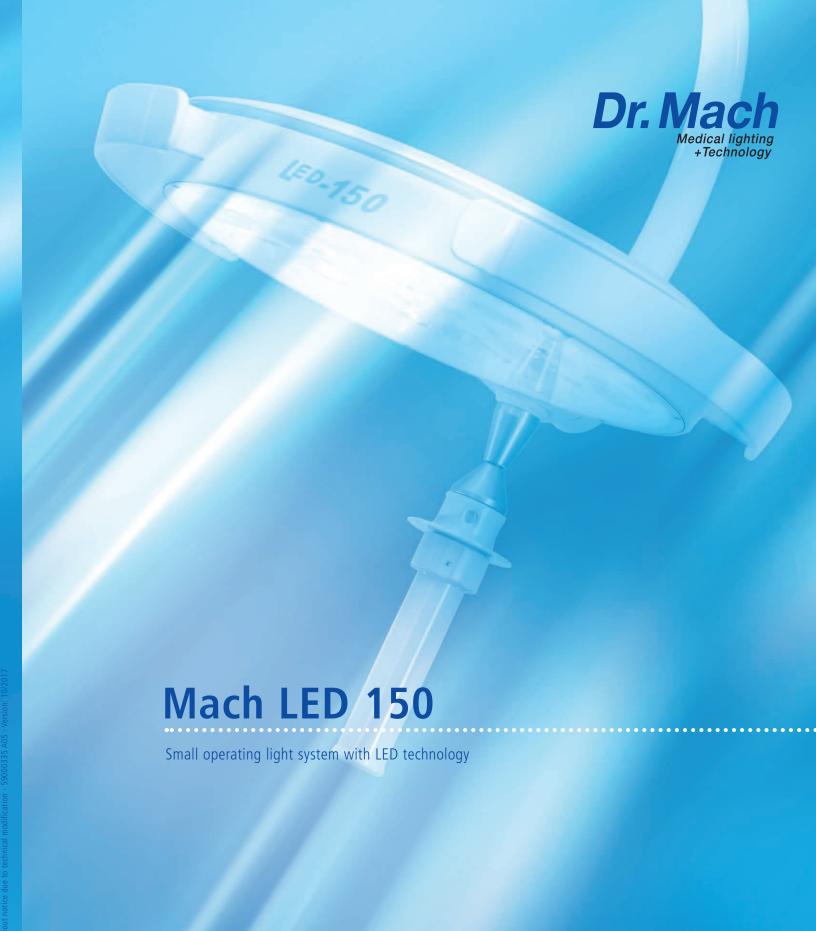
# Cool light





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Mach LED 150 with ceiling fixation



Mach LED 150 with wall fixation



Mach LED 150 mobile with four castors

### 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

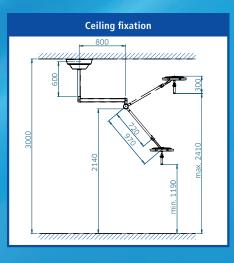


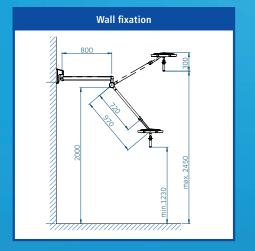
# Handling

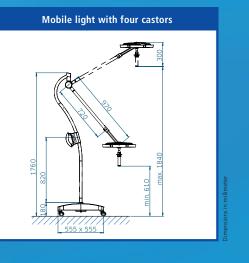
2 functions via touch panel:

- on/off
- light intensity control









Technical Data <sup>(1)</sup> Mach LED 150 light system <sup>(2)</sup>	Mach LED 150 FP <sup>(3)</sup>	Mach LED 150 F <sup>(3)</sup>	Mach LED 150 <sup>(4)</sup>
Light intensity in Lux at 1 meter distance	130.000	110.000	110.000
Colour temperature (Kelvin)	4300	4300	4300
Colour rendering index R <sub>a</sub> <sup>(5)</sup>	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<sub>a</sub> is an average of R<sub>1</sub> = burnt pink, R<sub>2</sub> = mustard yellow, R<sub>3</sub> = yellow green, R<sub>4</sub> = light green, R<sub>5</sub> = turquoise blue, R<sub>6</sub> = skyviolet, R<sub>7</sub> = violet, R<sub>8</sub> = lilac.
  Maximum value = 100.