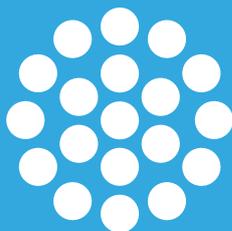




**Dr. Mach**  
medical lighting+technology

## Mach LED 130

Compact examination light with LED-technology





## Compact examination light Mach LED 130 Plus / 130F / 130

**Ceiling model** with ceiling fixation

**Wall model** with wall fixation

**Mobile model** on five feet stand or on four feet stand

### Technical Data (1)

#### Mach LED 130 light system

Light intensity at 1 meter distance  
 Colour temperature  
 Colour rendering index  $R_a^{(4)}$   
 Size of the light field  
 Working distance  
 Diameter of the lamphead  
 Temperature increase in the head area  
 Electronic light intensity control at the lamp head  
 Number of LEDs  
 Life-span of the LEDs  
 Total power consumption

Mach LED 130 Plus (3)	Mach LED 130F (2)	Mach LED 130 (3)
100,000 lux	70,000 lux	60,000 lux
4,500 kelvin	4,500 kelvin	4,500 kelvin
95	95	95
14 cm	15 - 21 cm	17 cm
70 - 140 cm	70 - 140 cm	70 - 140 cm
33 cm	33 cm	33 cm
0.5 °C	0.5 °C	0.5 °C
standard	standard	standard
19	19	19
60,000 h	60,000 h	60,000 h
28 W	28 W	28 W

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

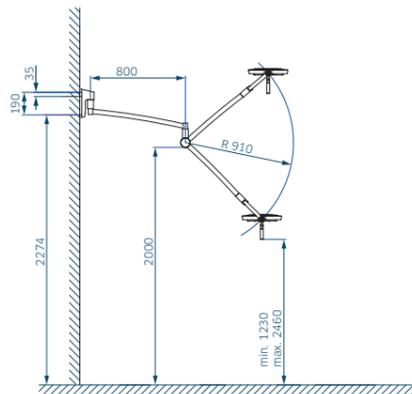
(2) F-model with focussing

(3) models with fixed focus

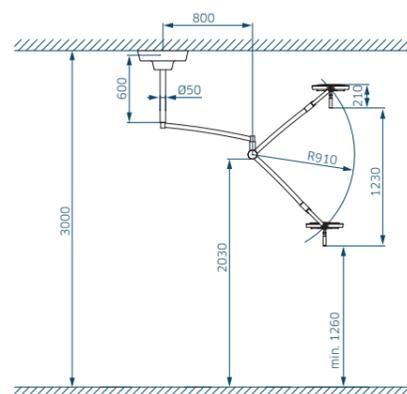
(4)  $R_a$  is an average of  $R_1$  = burnt pink,  $R_2$  = mustard yellow,  $R_3$  = yellow green,  $R_4$  = light green,  $R_5$  = turquoise blue,  $R_6$  = skyviolet,  $R_7$  = violet,  $R_8$  = lilac. Maximum value = 100.



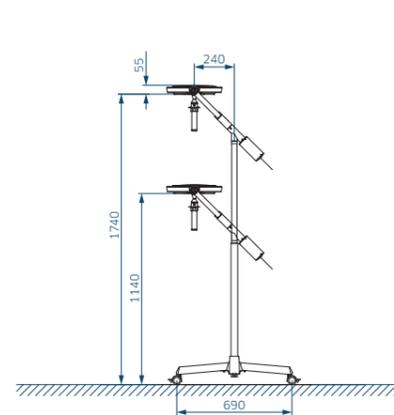
Wall fixation



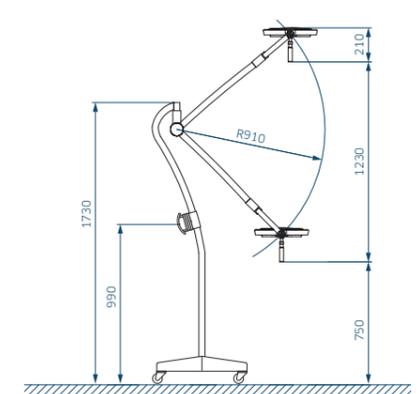
Ceiling fixation



Mobile light on five feet stand



Mobile light on four feet stand





## Dr. Mach LED Technology

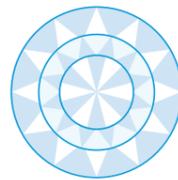
### Superiour colour rendition

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 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. Light intensities of 100,000 lux can be attained without difficulty.



### Control panel on the light housing

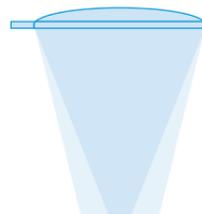
The following light functions can be controlled on the light housing:

- Switching on/off (mechanical)
- Electronic brightness control



### 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.



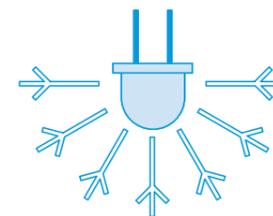
### Handling

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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**Dr. Mach GmbH & Co. KG**

Floßmannstraße 28  
85560 Ebersberg  
Germany

Phone: +49 (0) 8092 / 20 93-0

Fax: +49 (0) 8092 / 20 93-50

E-mail: [info@dr-mach.de](mailto:info@dr-mach.de)

Please visit our website [www.dr-mach.de](http://www.dr-mach.de)