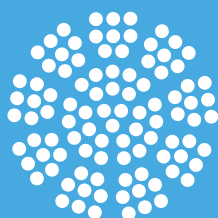




**Dr. Mach**  
medical lighting + technology

## Mach LED 8

Operating light system with LED technology



MACH LED 8 MC



## Operating light system Mach LED 8 MC

Operating light system with 160.000 lux (1m distance) and electronic focussing

- Options:**
- Shadow management
  - Camera preparation
  - Laserpointer
  - Communication
  - mechanical adjustment (larger light field diameter)
  - wall operation

### Technical Data (1) LED 8 light system

Light intensity at 1 meter distance  
 Colour temperature  
 Colour rendering index  $R_a^{(2)}$   
 Focussable size of the light field  
 Working distance  
 Diameter of the lamphead  
 Temperature increase in the head area  
 Electronic light intensity control at the lamphead  
 Number of LEDs  
 Life-span of the LEDs  
 Total power consumption

#### LED 8 MC

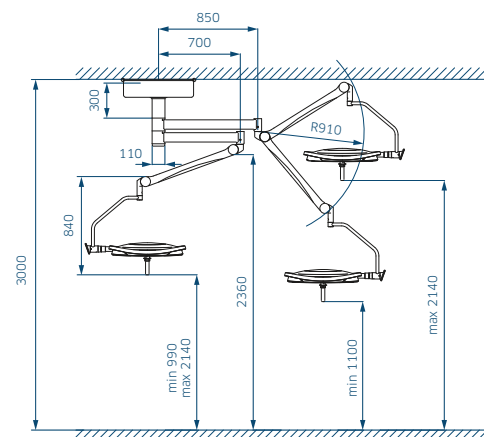
160.000 Lux  
 3750 - 4750 Kelvin  
 98  
 19 - 30 cm <sup>(3)</sup>  
 70 - 160 cm  
 66 cm  
 0,5°C  
 standard  
 99  
 60.000 h  
 90 W

- (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.  
 (3) 19 - 38 cm with the option mechanical adjustment

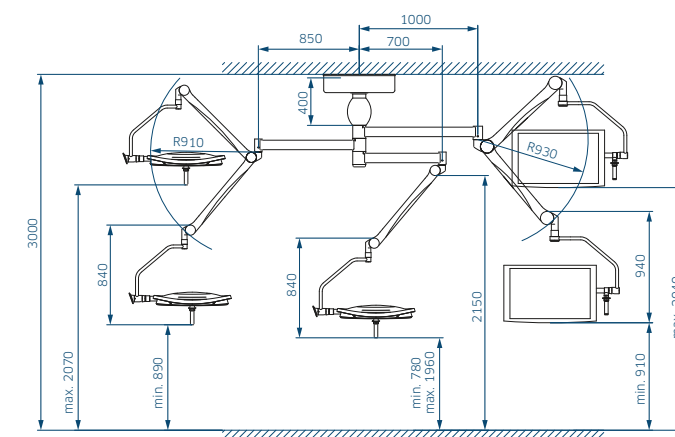


LED 8 / LED 8

LED 8 / LED 8



LED 8 / LED 8 / monitor



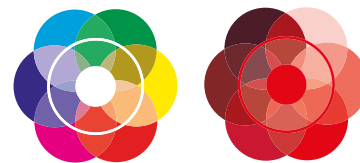




## Dr. Mach LED Technology

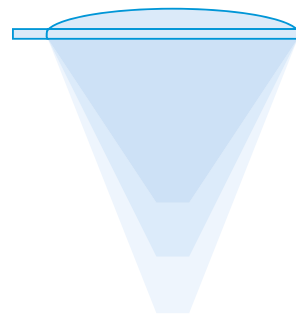
### Close to perfect colour rendition

With colour rendering indexes  $R_a = 98$  and  $R_9$  (red) = 99 the surgeon recognizes clearly the tiniest nuances of colour in tissue and thus a close to perfect image. For recognizing the exact colour spectrum of the wound the exact rendition of the red colour range is essential.  $R_9$  (red) = 99 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.



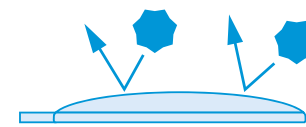
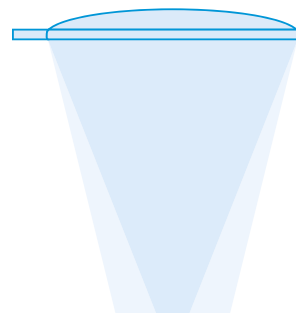
### Outstanding depth illumination

One of the highlights of the new LED8 is the cascade system. Different lens types are used in this system. These lenses have their focusing at 70, 100 and 130 cm. With this technology, a vertical focusing of the light beam throughout the depth of the wound canal can be achieved. As a result of this, it is no longer necessary for the surgeon to manually adjust the operation light field at the operating site.



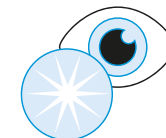
### Large focussing range

The light field can be focused by turning the handle. The focussable light beam allows a punctual illumination of deepest wound channels with high intensity and an exact matching of the light field diameter with the size of the surgical requirements. The focusing is achieved by means of both a mechanical (optional) and electronical adjustment. The brightness of the light field remains constant.



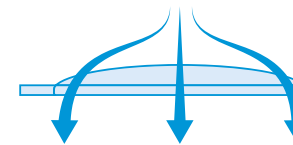
### Antibacterial coating

To improve hygiene in the OR to a maximum, the operating lights of the new generation have a closed, easy-to-clean surface. In addition, they have an antimicrobial coating, which prevents the growth of microorganisms and thus helps to avoid infections.



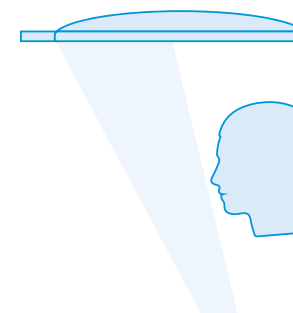
### Photobiological safety

The photobiological safety standard DIN EN62471 is met and so there is no risk for the human eye even during very long and intensive use of the OT light.



### Ideal flow properties

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



### Automatic shadow management

A further innovation is the shadow management, which is rendered possible by numerous sensors in the light. Any cluster that has its light disturbed by the surgeon is automatically turned off. At the same time, the other light clusters increase intensity in order to compensate for the shadow. Even with the surgeon continuously changing position, the light field remains homogeneously illuminated, without the need for manual adjustment of the light.

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LED 8 video:

