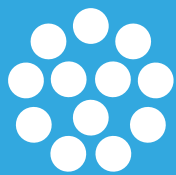




Dr. Mach
medical lighting+technology

Mach LED 120

Compact examination light with LED-technology





Compact examination light Mach LED 120F / 120

Ceiling model incl. ceiling fixation

Wall model incl. wall fixation

Mobile model on five feet or four feet mobile stand

Technical Data (1)

Mach LED 120 light system

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

| Mach LED 120F (2) | Mach LED 120 (3) |
|-------------------|------------------|
| 50,000 lux | 40,000 lux |
| 4,500 kelvin | 4,500 kelvin |
| 95 | 95 |
| 15 - 20 cm | 17 cm |
| 70 - 140 cm | 70 - 140 cm |
| 29 cm | 29 cm |
| 0.5° C | 0.5° C |
| standard | standard |
| 12 | 12 |
| 60,000 h | 60,000 h |
| 18 W | 18 W |
| 121 cm | 121 cm |

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

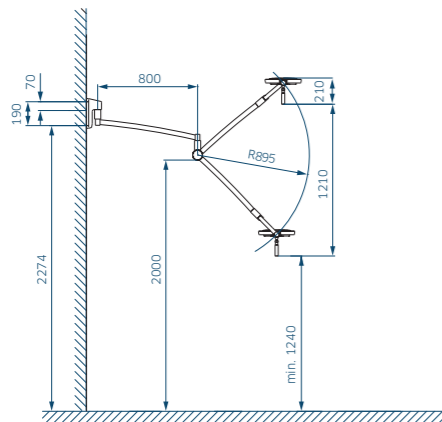
(2) F-model with focussing

(3) model with fixed focus

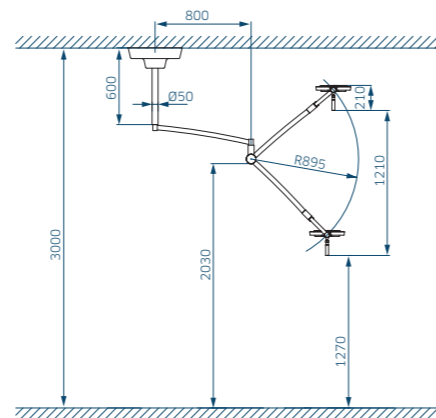
(4) R_a is an average of R_1 = burnt pink, R_2 = mustard yellow, R_3 = yellow green, R_4 = light green, R_5 = turquoise blue, R_6 = skyviolet, R_7 = violet, R_8 = lilac. Maximum value = 100.



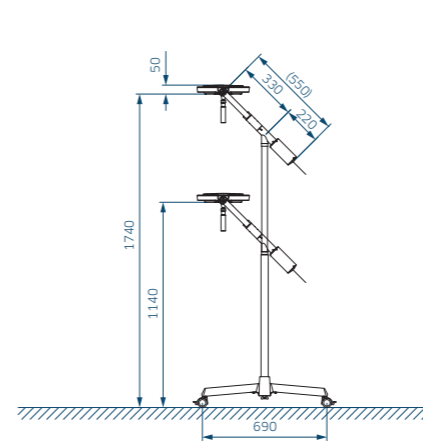
Wall fixation



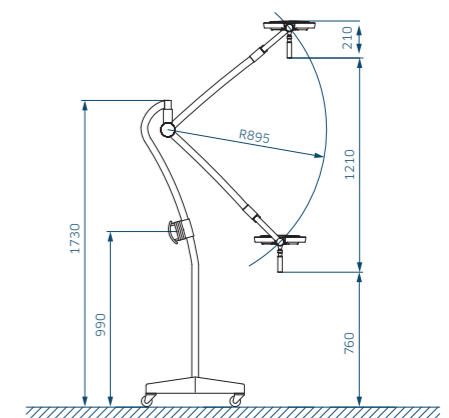
Ceiling fixation



Mobile light with five castors



Mobile light with four castors





Dr. Mach LED Technology

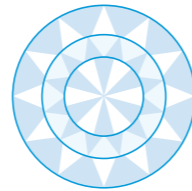
Superiour colour rendition

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

Several computer-calculated facetted lenses guarantee 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. Light intensities up to 50,000 lux can be attained without difficulty.



Control panel on the light housing

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

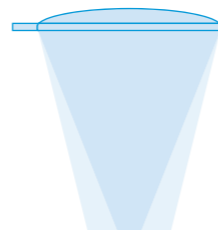
- Switching on / off (mechanical)
- Electronic brightness control



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.



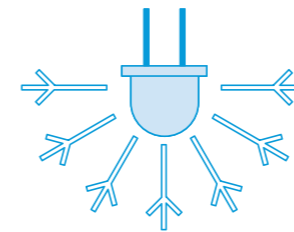
Handling

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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