



**Dr. Mach**  
Medical lighting  
+ Technology

## Mach LED 115

---

Compact examination light with LED-technology

LED EXAMINATION LIGHTS

# Mach LED 115 examination lights



**Mach LED 115**  
**60.000 Lux (at 0,5 m distance)**

**Compact examination light**  
**with LED-technology**  
for diagnosys and prophylaxis

**Mach LED 115 with fixation clamp  
for supply rails**

.....



**Mach LED 115 with fixation on  
round and rectangular tubes**

.....







**Mach LED 115  
on five feet mobile stand**



**Mach LED 115 with fixation plate**



**Mach LED 115, table mounted light  
with fixation clamp**

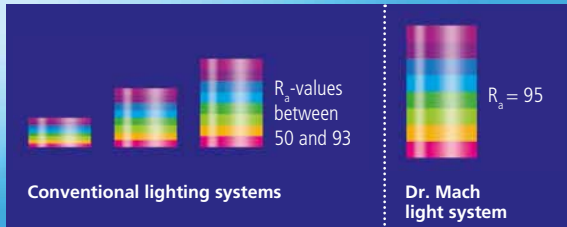


**Mach LED 115 with wall fixation**

Technical data Mach LED 115 light system	Mach LED 115
Light intensity in Lux at 0,5 meter distance	60.000
Colour rendering index $R_a^{(1)}$ at 4500 Kelvin	95
Focussable light field size (in cm)	14 (Fixed focus)
Colour temperature (Kelvin)	4500
Electronic light intensity control at the lamphead	50 - 100%
Temperature increase in head area	0,5 °C
Total power consumption	10 W
Number of LEDs	7
Life-span of the LEDs	$\geq 40.000$ h
Lamphead diameter (in cm)	22

<sup>(1)</sup>  $R_a$  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.

# Dr. Mach LED-technology



## Superiour colour rendition

With outstanding colour rendering indexes  $R_a = 95$  the surgeon recognizes clearly the tiniest nuances of colour in tissue.

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, each with one LED module, generate their own light field, which increases the contrast effect of the OR light. Light intensities of 60.000 Lux at a distance of 0,5 meters can be attained without difficulty.



## Key pad on the lamp housing

The following light functions can be adjusted electronically, such as:

- Switching ON and OFF
- Electronic light intensity control



## 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 with the handle.

## Long life-span/low power consumption

The life-span of more than 40.000 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 partially with more than 50%.

## 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.



# Mach LED 115

## Dr. Mach GmbH & Co. KG

Flossmannstraße 28 · D-85560 Ebersberg  
Phone: +49 (0) 8092 / 20 93-0 · Fax: +49 (0) 8092 / 20 93-50  
[www.dr-mach.com](http://www.dr-mach.com) · e-mail: [info@dr-mach.de](mailto:info@dr-mach.de)