

Mach LED 300
Mach LED 300 with video system

Advantages of the Mach LED 300 DF



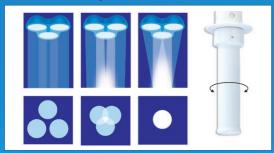
Conventional light systems

Dr. Mach light system

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 of the OT-light. Light intensities of 140.000 Lux can be attained without difficulty.

Mach LED 300 DF OT-light

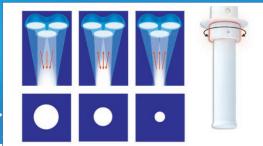


Duo-Focus-Technology:

Merging of the individual luminous fields

By turning of the sterilizable handle the LED-clusters with 12 lenses each swivel. The single light fields are joined and overlap to one field with increased light intensity.

Mach LED 300 DF OT-light



Focussing

By turning of the adjustment ring at the sterilizable handle the bulbs are moved inside the reflector up and down. The focussable light beam allows a punctual illumination of deepest wound channels with hight intensity and an exact matching of the light field diameter with the size of the wound field.

Light quality and optics

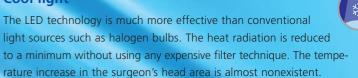
Superiour colour rendition

With colour rendering indexes $R_s = 94$ and $R_o(red) = 92$ the surgeon recognizes clearly the tiniest nuances of colour in tissue. For recognizing the exact colour spectrum of the wound the exact rendition of the red colour range is essential. $R_o(red) = 92$ means for the surgeon come relief for your eyes.

a visibly better recognition of details. The colour spectrum of the wound is rendered naturally with rich contrast. The OT-light clearly provides wel-

Additional comfort

Cool light



Flow properties



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

Easy maintenance



With only a few steps the lamp housings can be opened to have access to all system components. Due to the module technology all components can be easily exchanged. The housings are easy to clean.

Housing of die-casted aluminium



The material guarantees shock resistance and long life.

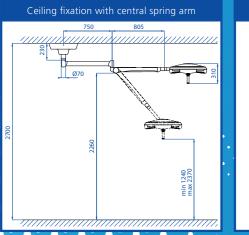
Handling

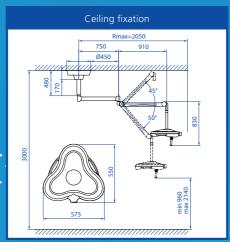


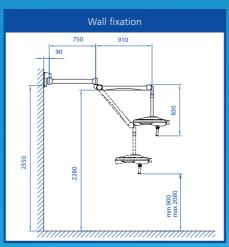
- on/off
- light intensity control
- Endo-light

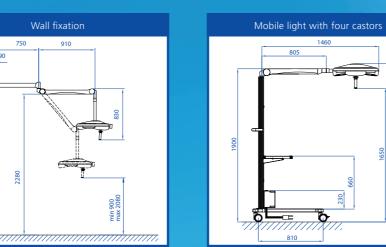












Mobile light

with four castors

Mach LED 300 DF mobile





Ceiling model

Mach LED 300 DF with ceiling fixation



Wall model

Mach LED DF 300 with cardanic suspension and wall fixation



Technical data ⁽¹⁾ Mach LED 300 OT-light system ⁽²⁾	DF
Light intensity (at 1 meter distance)	140.000 ⁽⁴⁾ Lux
Colour temperature	4500 Kelvin
Colour rendering index R _a ⁽³⁾	94
Focussable size of the light field	17 – 29 cm
Working distance	70 – 150 cm
Diameter of the lamp head	55 cm
Temperature increase in head area	0,5 °C
Electronic light intensity control at the lamp head	standard
Number of LEDs	36
Life-span of the LEDs	60.000 h
Total power consumption	50 W

- (1) Further technical details in the data sheet of the lamp,
- 1) Further technical details in the data sheet of the lamp, available upon request
 2) External power supply
 3) R_a is an average of R₁ = burnt pink, R₂ = mustard yellow, R₃ = yellow green, R₄ = light green, R₅ = turquoise blue, R₆ = skyviolet, R₇ = violet, R₈ = lilac. Maximum value = 100.
 4) 160.000 Lux with additional central reflector

OT-light Mach LED 300 DF

operating light with integrated video system



Mach LED 300 DF 140.000 Lux

The Dr. Mach video system offers flexible rotation and a perfect picture.





Technical data	Dr. Mach HD camera with digital transmission for visual communication
Objectiv system	30-fold optical zoom, 12-fold digital zoom f = 4.3 to 129 mm F1.6-4.7 auto-focus
Video signal	HD: 1080i/50; 720p/50 or 1080i/59.94; 720p/59.94
Video Output	HD-component
Image points	approx. 2.000.000 pixels
Horizontal resolution	-
Humidity	20 – 80 %
Dimensions (Ø, length)	80 x 150 mm
Weight	900 g
Interference radiation in acc. with	FCC class A

Technical data

The Dr. Mach HD-video systems offer highest picture quality with a maximum movability of the light.

Advantages of the new Dr. Mach video system

- 360° continuous rotation in all major joints
- easy-mounting due to video signal transmission through the supply cables
- easy fixation of the camera in another OT
- streaming, conversion or storage solution available on request

HD resolution

With the transmission of high-resolution pictures of the surgeries and the medical interventions we fulfill your visual requirements.

Advantages:

A brilliant picture quality with high depth of field and increased detail reproduction means a better recognition of the details in the woundfield by the surgeon or the physician.

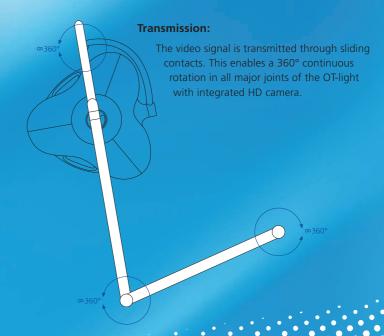
Camera technology

The HD-camera with 30-fold optical zoom is equipped with auto-focus, auto-iris and picture rotation.

The camera is operated with a control unit.

Several camera functions can be adjusted on the control unit, such as:

- Switching ON and OFF
- Switching between 1080i and 720p
- Focus (automatic/manual)
- Iris (automatic/manual)
- Zoom
- Picture rotation
- Frozen image



Dr. Mach GmbH & Co. KG

Flossmannstraße 28 · D-85560 Ebersberg Phone: +49 (0) 8092 / 2093-0 · Fax: +49 (0) 8092 / 2093-50 www.dr-mach.de · e-mail: info@dr-mach.de