



medifa H!Light

LED operating light system

we care.



For further information please contact us at:

Ph: 061 622 484

Email: info@astralhealthcare.com

Web: www.astralhealthcare.com

medifa H!Light

medifa the medical factory

- Innovative lighting technology combined with high functionality and 160,000 lux light intensity
- User-friendly control concept
- Operating theatre adapted colour temperature from 3,000 5,500 K
- Large, homogeneous surface illumination
- One universal handle holder for all cameras (4K and HD) and all handles
- Sterile control at the multifunction handle
- Lightweight construction (aluminium housing)
- VSG safety glass window
- Ideal cleaning and disinfection conditions
- Sustainable energy efficiency with minimal temperature increase
- Long lifespan
- Optional: 360° monitor arm with stopless signal transmission
- Optional: HD or 4K wireless camera





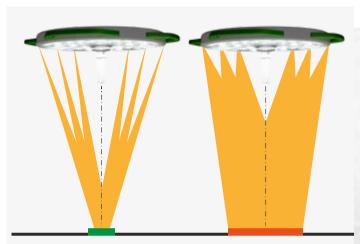
medifa H!Light - illuminating advantages





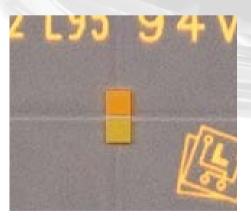
Light field size and shadow management

- Light field sizes from 18 32 cm for the distances of 0.8 to 1.2 metres frequently required in everyday operating theatres.
- More than 330 individually calculated free-form facets per lens enable a beam path concept that avoids shadow formation (passive shadow management).
- With the active shadow management of medifa H!Light plus, additional sensors ensure automatic light guidance and intelligent control of the individual LEDs, thus ensuring a homogeneously illuminated situs.



Focus

- Electronic focus through the medifa dual lens system, consisting of 72 versatile lenses in 2 sizes.
- No mechanical adjustment of the optical components necessary.
- Thanks to the dual-lens system and the homogeneous mix of cool/warm white LEDs behind the lenses, the shading values remain constant even at extreme colour temperatures such as 3,000K or 5,500K.



LED Technology

- The newest medifa LED technology for a homogeneous mixture of cold and warm white LEDs behind the lenses.
- The mixed light emerges as white light and is distributed evenly over the wound area.
- This prevents the creation of colour shadows by the surgeon's head or hands in the light channel of the operating light.



Universal handle holder

- The universal handle holder offers unique flexibility.
- All handle adapters and available cameras fit into the same handle holder.
- Tool-free change possible.



medifa H!Light - illuminating advantages





Colour temperature

- The right colour temperature for every type of tissue and wound structure.
- From 3,000 K to 5,500 K.



Airflow optimised shape

- Aerodynamic shape of the closed light body with smooth surface, no edges, no screws or notches.
- For the specific requirements of ventilation systems in the operating theatre as well as easy cleaning and disinfection.
- Due to the shape of the outer handles 2 lights can be positioned directly next to each other.



Endoscopy mode

- The inner area is illuminated in green for higher contrast on the monitor.
- Extremely user-friendly for minimally invasive procedures.



Prepared for hybrid ORs

 With long extension arms and X-ray protection shields on the spring arm, the medifa H!Light series meets all requirements in the modern hybrid OR.



Models







Art-no. 100200

medifa H!Light med



medifa H!Light plus Art-no. 100400

0	Colour temperature 3,000 K -5,500 K		
····································	Control element on light head		
Î	Sterile control at the multifunction handle	u	u
23	Passive shadow management		
~	Active shadow management		
	Prepared for attachment of cameras		
9	Camera	u	u
3	Endoscopy mode		
	Memory-function		

included u optional



medifa H!Light - combinations





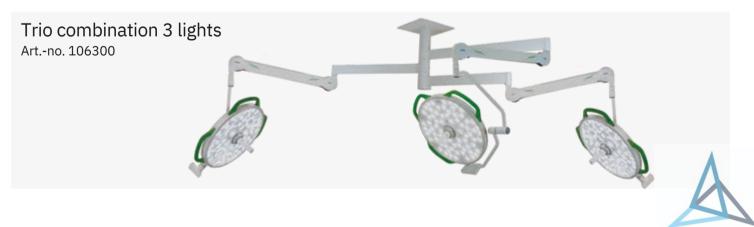












Each combination can consist of medifa H!Light, medifa H!Light plus, medifa H!Light lc or medifa H!Light plus lc for the operating light.

10

Single monitor
Art.-no. 106100

User-friendly control concept

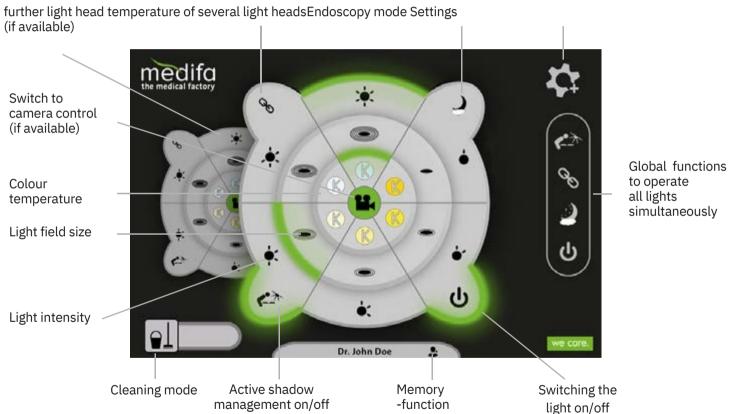
medifc

Operating light

Touch control element

on the light head and optionally as wall control units surface-mounted (Art. no. 105600), flush-mounted (Art. no. 105650) or panel-mounted (Art. no. 105660).

Control of Synchronisation of the colour





Option: Sterile control at the multifunction handle
Intensity, light field size, colour temperature and endoscooy mode can be controlled on the sterile
handle. • Selection of the function by pressing the push button at the handle

• The selected function can be adjusted by turning the sterilisable handle

Wireless-camera

Remote control







medifa H!Light for your OR





Everything from one source for your Operating theatre:

- 1. Operating lights
- 2. Modular room system RooSy
- 3. Mobile operating tables and accessories
- 4. Medical furniture and customized solutions



Technical data



Technical data operating light		
Light intensity in 1 m distance (in lx)	40,000 - 160,000	
Adjustability of the light intensity (in %)	25 - 100	
Colour temperature (Kelvin)	3,000 - 5,500	
Colour rendering index R	97	
Colour rendering index R	97	
9 (blood)	99	
Colour rendering index R 13 (skin)	18 - 32	
Focusable light field size (Diameter d	0.5 - 0.6	
10 in cm)	70 - 150	
d 50/d10 ratio	60	
Working distance (in cm)	<0.5°	
Diameter of light head (in cm)	72	
Temperature increase in the head area	> 60,000	
Number of lenses	65	
Life-span of the LEDs (in hours)		
Depth of light field	120	
L1+L2 at 60% Ec(cm)		
Depth of light field	< 600 W/m2	
L1+L2 at 20% Ec(cm)	160 VA	
Radiation energy Alt values are conform to IEC 60601-2-41 and are subject to a general industrial tolerance of ± 5%.		

All values are comothing the coolst-2-41 and are subject to a general industrial tolerance of £ 570.	
Tip restordance with the IEG-60601-2441-standard the maximum illuminance must not exceed 160,000 lx. T	he industrial tolera

rance is therefore only -5%. Potal power consumption (per light nead)

Technical data wireless-camera	wireless HD (Artno. 103200)	wireless 4K (Artno. 103200)
Resolution (in pixel)	approx. 2,140,000	8,510,000
Resolution	1,920 x 1,080	3,840 x 2,160
Zoom	30x optical, 12x digital	20x optical, 12x digital
Image rotation	limitless, motorised	limitless, motorised
Video outputs	HDMI 1.4, DVI	HDMI 1.4, DVI
Aspect ratio	16:9	16:9
Dimensions (Ø, length)	68 mm x 179 mm	68 mm x 179 mm
Weight camera (in kg)	1	1
Security of data transmission	exclusively between	exclusively between
	coupled transmitter + receiver	coupled transmitter + receiver
	AES 128 bit encryption	AES 128 bit encryption



Use our wireless camera systems in the operating theatre for detailed, precise representation and highest image quality

Our cameras offer you finely structured images, optimum detail and brilliant reproduction with clear, sharp contours and perfect colour reproduction from every position.

A wired solution is also available on request.

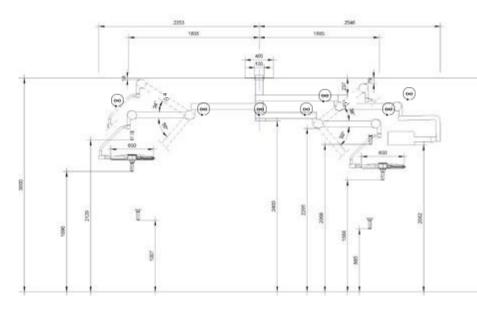


Configuration examples

Models and accessories



Triple combination with monitor holder



Combination of

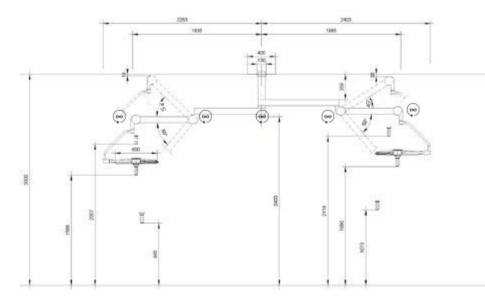
- Flattcover14050074500
- · Ceiting Qube 510050mm
- Oerttrapadig5300
- · nAetifaq-11002200
- · medifa P! 1 2949 Rus
- 2xrmethfa handle adapter standard or

Art.-no. 105750 medifa handle adapter

sterile control

 Art.-no. 102400-1 medifa H!Light monitor holder stopless or Art.-no. 102200-1 medifa H!Light monitor stop

Double combination



Combination of

- Flattconær1400500x74500
- · Ceiting Qub@510050mm
- Central@x198200
- nAetlifach 11002200
- · medifael!120400us
- 2Armenfal Alandle adapter standard or

Art.-no. 105750 medifa handle adapter

sterile control

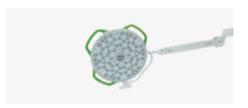


medifa H!Light

Art.-no. 100200

Art.-no. 100400 with active shadow management

- Power supply 100 ~ 240 V AC oder 24 V DC
- Spring arm standard height
- Light head with double yoke and camera prep. wireless



medifa H!Light lc (low ceiling height))

Art.-no. 100200L

Art.-no. 100400L with active shadow management

- Power supply 100 ~ 240 V AC oder 24 V DC
- Spring arm low ceiling height
- Light head with single yoke and camera prep. wireless



medifa H!Light monitor holder

Art.-no. 102400-1 with 4K transmission through slip rings Art.-no. 102200-1 with STOP for cable pulling on

- si**\$**pring arm 12,5 21,5 kg
- Monitor holder single up to 32"
- Interface VESA 75x75, 100x100, 100x200, 100x400



Ceiling fixation set Light

Art.-no. 105050

- For intermediate ceiling
- Max. distance intermediate/bare ceiling 1,200 mm for installation with flat cover
- Consisting of: 1x Ceiling anchor plate M16, 6x Distance unit M16



Ceiling tube 105 mm

- Art.-no. 105060
- · Ceiling tube diameter: 105 mm
- Standard length: 300 mm or 500 mm
- Other length on request
- Fixation hole pattern 6x M16 270

mm



Accessories





Cover 590 Art.-no. 105095

- Solo cover round
- D = 590 mm H = 125 mm
- Two part with 6 pcs. Mounting screws one part holding ring



Flat cover 400x400 Art.-no. **195075**ver Solo

• 400 x 400 mm H = 2 mm • Two part holding ring



Installationkit Laminar Air Flow Art.-no. 105080

Two units, two part holding ring



Central axis single Art.-no.

10540al axis and extension arm

• Extension arm length standard: 1,075 mm



Central axis duo Art.-no.

10520al axis and extension arm

• Extension arm length standard: 925 mm / 1,075 mm



Central axis duo hybrid Art.-no. 105210

- Central axis and extension arm
- Extension arm length standard: 1,375mm / 1,525 mm



Central axis trio

- Art.-no. 105300
- Central axis and extension arm
- Extension arm length standard: 775 mm / 925 mm / 1,075 mm



medifa H!Light X-Ray shield 76x60 Art.-no. 102800-1

- Spring arm
- X-Ray protection shield Pb =0,5 mm Dimensions 76 x 60 cm
- Body cut out



medifa H!Light X-Ray shield 78x90 Art.-no. 102900-1

- Spring arm
- X-Ray protection shield Pb =0,5 mm Dimensions 78 x 90 cm
- Body cut out and additional slats



X-Ray shield disposable covers

• 1 box (50 pieces disposable covers)



Accessories



medifa





medifa handle adapter

Art.-no. 105700 standard without control function

- Art.-no. 105750 with control function
- · Weight dummy for light head
- For sterilisable handles



medifa handle standard (set of 5) Art.-no. 104100

- 5) AII.-110. 104100
- Sterilisable handle made from PPSU medifa handle camera (set of 5)
 Art.-no. 104200
- Sterilisable handle camera made from PPSU



Additional adapter disposable

Art.-no. 104300

• Adapter for upgrade handle adapter or monitor holder for disposable handles



medifa H!Light wireless HD Art.-no. 103200

- Camera module HD and receiver module HD DVI-D connector
- 30x optical zoom, 12x digital zoom
- IR remote control



medifa H!Light wireless 4K Art.-no. 103400

- Camera module 4K and receiver module 4K • DVI-D connector
- 20x optical zoom, 12x digital zoom
- IR remote control

medifa is an owner-run and internationally active complete

solution provider in the medical technology.

The product and service portfolio covers all operating room requirements from modular wall, door, ceiling and cabinet systems (RooSy® Room Systems) for the turnkey operating room, as well as operating tables with accessories, operating lights right up to special construction solutions and medical furniture. In addition, one of

the largest German OEM suppliers in the medical technology sector also belongs to medifa.

The medifa healthcare group unites competence concerning operating rooms under one roof.

medifa GmbH & Co. KG (Finnentrop), medifa hygienic rooms GmbH (Ötigheim) and medifa metall und medizintechnik GmbH in Rastatt are all part of this group of companies. The medifa healthcare group employs approximately 350 employees at three locations within Germany. The planning, engineering and production take place exclusively in Germany,

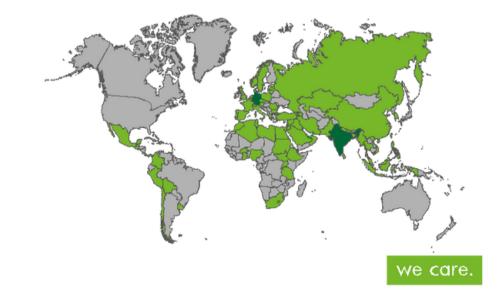
and with over 80% added value in the group of companies, the group guarantees fast reaction times.

The slogan "we care" means for us that we consistently orientate ourselves according to the requirements of our customers. Customers all over the world can rely on top-class consultation, processing and quality from a single source, made in Germany according to certified national and international quality standards.

Products

- Modular operating room systems (RooSy)
- Operating lights (H!Light)
- Mobile carbon tables for minimally invasive applications
- Operating tables and accessories
- Examination and treatment chairs
- Medical furniture and trolleys
- Customized medical solutions

medifa worldwide





Made in Germany





Version 04-21-EN Subject to modifications due to technical development. This document is intended to provide information to an international audience outside of the US.



medifa GmbH & Co. KG

Industriestraße 5 57413 Finnentrop Germany fon +49 2721 71 77 -0 fax +49 2721 71 77 -255 info@medifa.com





For further information please contact us at:

Ph: 061 622 484

Email: info@astralhealthcare.com

Web: www.astralhealthcare.com