

LEDMEDICS® surgical lights
LIGHTING COMPETENCE



LEDMEDICS® Clean Lighting Technology

LEDMEDICS® is using the latest LED technology, environmental friendly and efficient.

With low energy consumption, we are contributing for a clean sustainable planet, offering more for less.

Our LED technology offers a service lifetime of at least 50.000 hours.

With only 84 LEDs and double or single white technology, LEDMEDICS® can provide up to 160.000 Lux.

Unlike the traditional LED surgical lights, LEDMEDICS® can provide one of the best light columns ever, with a depth of 1370mm, electronically adjusted.

LEDMEDICS® Quality Assurance

LEDMEDICS® are developed and produced to comply and exceed the following norms and standards:

Safety Requirements

- IEC 60601-1

Medical electrical equipment - Part 1: General requirements for basic safety and essential performance

- IEC 60601-2-41

Medical electrical equipment - Part 2-41: Particular requirements for basic safety and essential performance of surgical luminaires and luminaires for diagnosis

European Directives

- DIRECTIVE 93/42/EEC
- DIRECTIVE 2007/47/EC



CERTIFICATE



This is to certify that the company

DANMEDICS Medical Engineering GmbH

Breitefeld 3
64839 Münster
Germany

has implemented and maintains a **Quality Management System**.

Scope:

Planning and execution of turn-key surgical operating departments. Production and sales of surgical operating- and examination lights and medical supply units. Development, production and sales of equipment and software for telemedicine and telecommunication. sales of hospital equipment.

Through an audit, documented in a report, performed by DQS Medizinprodukte GmbH, it was verified that the management system fulfills the requirements of the following standard:

EN ISO 13485 : 2016

Certificate registration no. 329584 MP2016
Certificate unique ID 170716963
Effective date 2018-10-03
Expiry date 2021-10-02
Frankfurt am Main 2018-08-01



DQS Medizinprodukte GmbH

Sigrid Uhlemann
Managing Director

Dr. Thomas Feldmann
Head of Certification Body

August-Schanz-Straße 21, 60433 Frankfurt am Main,
Tel. +49 (0) 69 95427-300, medical.devices@dqs-med.de



LEDMEDICS® Features



Colour Temperature

LEDMEDICS® colour temperature can be set to 3800K, 4300K and 4800K, providing the perfect illumination for all kind of surgeries.



LCD Touchscreen

LEDMEDICS® T is equipped with a 5" LCD touch screen, with a user friendly interface (only for LEDMEDICS® T).



Optimized Laminar Flow

LEDMEDICS® ergonomic shape provides the perfect solution to minimize the laminar flow turbulence with a Leeneman index of ~3.9.



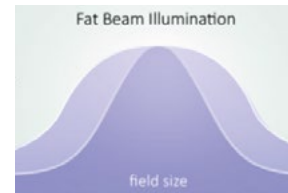
Thermal Control

Latest LED technology combined with optional temperature management guarantees highest power efficiency.



Endoscopy Mode

LEDMEDICS® is designed with an option of 8000 Lux - the perfect lighting environment for endoscopic surgeries.



Fat Beam Illumination

LEDMEDICS® provides more homogeneous light, less shadows, more comfort for the surgeons and helps increasing patient safety by creating excellent working conditions for surgeons and medical staff.



Design Specifications

High quality aluminium housing with smooth surface, optimized for easy cleaning.



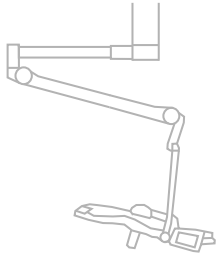
Colour Rendering

LEDMEDICS® has a colour rendering index (Ra) >95, enabling the surgeons to differentiate even tiniest colour nuances.



 DANMEDICS

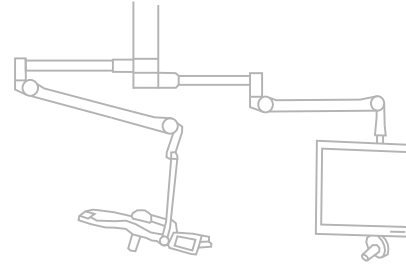
LEDMEDICS® Models



LEDMEDICS® S
Art.: OPL-100-001



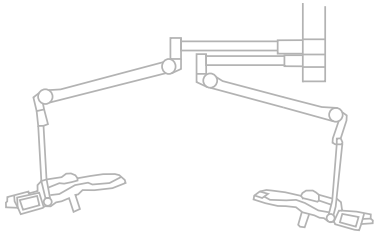
LEDMEDICS® T
Art.: OPL-100-101



LEDMEDICS® S - w/monitor arm
Art.: OPL-100-005



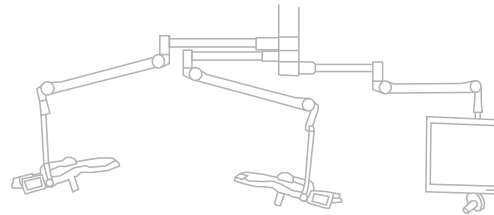
LEDMEDICS® T - w/monitor arm
Art.: OPL-100-105



LEDMEDICS® S
Art.: OPL-200-001



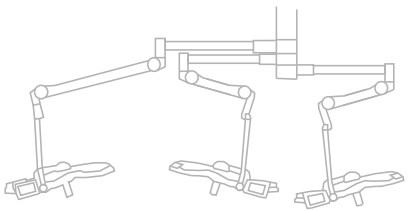
LEDMEDICS® T
Art.: OPL-200-101



LEDMEDICS® S - w/monitor arm
Art.: OPL-200-005



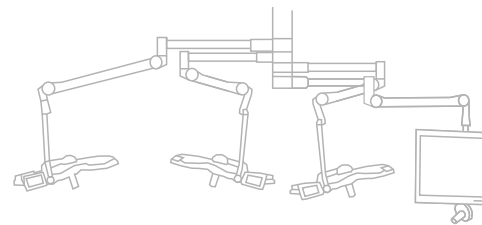
LEDMEDICS® T - w/monitor arm
Art.: OPL-200-105



LEDMEDICS® S/S/S
Art.: OPL-300-001



LEDMEDICS® T/T/T
Art.: OPL-300-101



LEDMEDICS® S/S - w/monitor arm
Art.: OPL-300-005



LEDMEDICS® T/T - w/monitor arm
Art.: OPL-300-105

Art. no. for standard wiring.
Art. no. may vary for individual configurations.



LEDMEDICS® Modular Concept

With its modularity LEDMEDICS® light systems offer various advantages to users.

The individual arm system can easily be installed by a single person without additional lifting or carrying devices.

It provides the opportunity to upgrade the light system later with any product from the LEDMEDICS® product line just by adding an additional horizontal arm to the existing installation.

Components are interchangeable with each other so they can be customized to new tasks and changing applications.



LEDMEDICS® User Interface Concept

LEDMEDICS® user interface incorporates the control for HDX4 camera at the same control panel, minimizing the user to shift from one equipment to another.

Additional wall control units are available for remote control and can be integrated to wall control panels such as the M.OR.E video integration system.



LEDMEDICS® Mobile Light

LEDMEDICS® mobile light is the flexible solution for use in different rooms, due to its easy movability.

With the optional battery pack it can be used in emergency cases even without power connection.

Due to its characteristics it can fully replace a ceiling mounted surgical light in places, where no possibility for fixed installation is given, e.g. low ceiling heights.

Optionally a wireless camera system is available for LEDMEDICS® mobile light with full HD signal transmission, avoiding any additional cables and wires.

LEDMEDICS® mobile surgical light is available with adjustable colour temperature (only for LEDMEDICS® T).

Characteristics

Easy manoeuvrability of lighthouse

4" wheels for better movability

Battery operated (optional)

Battery is perfectly integrated in the mobile stand

Battery backup up to 4 hours (optional)

HD wireless camera (optional)

*For light specification please see Technical Data (page 15)





HDX4 Camera Systems

Our HDX4 camera system combines high resolution camera with WHDI wireless technology.

Surgeons can now record more accurate and sharper videos of surgical procedures than ever before, through our system's full HD image quality.

The real-time video signals created by the wireless signals of the HDX4 40x4 Wireless Camera can be used for medical education, which improves the efficiency of the surgical support team as they can view live surgery in areas other than the operating room.

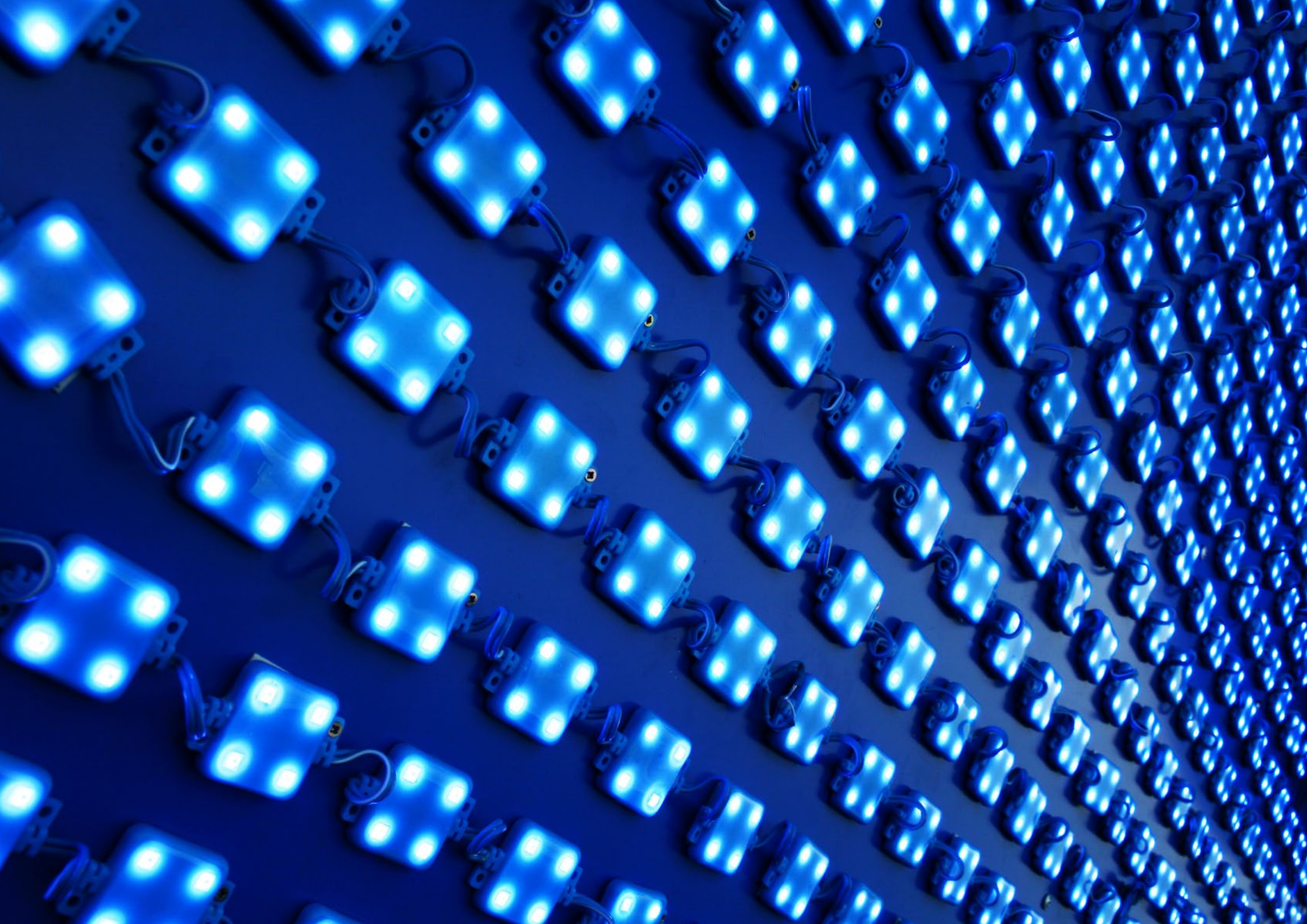
For a more integrated system, LEDMEDICS® surgical lights can be installed to enable the camera to be used in different operating rooms. The result: An innovative system which provides high quality camera imaging without compromising flexibility.

Characteristics

- Simplicity is perfection
- Transmission range of up to 10 meters
- Superior clarity in the OR
- Intuitive Interface

HDX4 Camera system is also available with HD-SDI output.





LEDMEDICS® Technical Specification

	LEDMEDICS® S	LEDMEDICS® T
Lighthouse - Illuminance in 1m distance (Lux)	160.000	160.000
The remaining percentage of light with a tube	99,5%	99,5%
The remaining percentage of light with 1 mask	98%	98%
The remaining percentage of light with 2 mask	49%	49%
The remaining percentage of light with 1 mask and tube	97%	97%
The remaining percentage of light with 2 mask and tube	47%	47%
(L1+L2(20%)) mm / depth of illumination (mm)	1370	1370
(L1+L2(60%)) mm / depth of illumination (mm)	580	580
CRI Ra	>95	>95
Color temperature	4000K	3500-5500K
Focus adjustment	Manual	Manual
Lightfield diameter d10 (mm)	270	270

	LEDMEDICS® S	LEDMEDICS® T
Lightfield diameter d50 (mm)	146	146
Endoscopic mode (Lux)	8.000	8.000
Number of LEDs	84	84
Lighthouse diameter (mm)	700	700
Illumination adjustment steps	8	8
Illumination adjustment range from (Lux)	40.000	40.000
Illumination adjustment range to (Lux)	160.000	160.000
Sterilizable handle	Yes	Yes
Swing angle of spring arm, vertical	50°	50°
Swing angle of central axis and spring arm, horizontal	360°	360°
Voltage input (V)	100-240	100-240
Power consumption (W)	70	70

HDX4 Technical Specification

HDCam

Art.: OPLZ-100-005

Effective picture elements	2.140.000 pixels
Video signal out	HD 1080p/59.94
Lens	10Xzoom (F1.8 to F2.1)
Digital zoom	12x (120x with optical zoom)
Minimum illumination (Lux)	0.35
S/N ratio	50dB or more
Focus	Full auto & manual
White balance	Auto
Gain	Auto
Iris control	Auto & manual 16 steps

Camera control	LCD screen/press button
Video control	LCD screen/press button
Video output	(Y/Pb/Pr) / HD-SDI
Operating temperature/humidity	-5° C to + 60°
Power consumption (W)	3.4
Voltage input (V)	12
Handle	Aluminium made & sterilizable

DANMEDICS®

Medical Engineering GmbH



DANMEDICS Medical Engineering GmbH
Breitefeld 3
D-64839 Münster

Tel.: +49 (0) 6071 / 74 84 9 - 0
Fax: +49 (0) 6071 / 74 84 9 - 19

Info@danmedics.de
www.danmedics.de

