MULTI-COLOR PLUS LED OPERATING LIGHT FLEXIBLE IN COLOR OPTIONAL







ADJUSTABLE COLOR TEMPERATURE

From warm yellow to cold white (3,500 - 5,700 Kelvin) freely for choose to reduce fatigue or glare during longer procedures and increase individual p erception for each surgical situation.

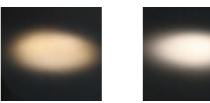


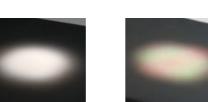




High Quality Illumination For Optimal Visibilty

In the operating room, shadow-free lighting that does not change the surrounding climatic conditions and minimally affects air flow is essential. The wide variety of performed procedures calls for extreme flexibility, and equipment must be adaptable to individual requirements at all time -time for the new MICARE LED technology





operate as well as easy to clean despite the highest standards of hygiene. combined with highest operational Capabilities Micare Light is a state-of-the-art lighting system that creates optimal lighting conditions in every operating theater and treatment room. The visionary design and sophisticated lighting technology allow the user to focus fully on the essentials: the patient and the outcome of treatment. In addition, micare Light is available in different sizes - culminating in individual design according to your wishes.

MICARE: Your work under the best light

A surgical light should bring perfect light to all surgical applications - consistently, brilliantly, and shadow-free. At the same time, it must be both simple and intuitive to

THE BRILLIANT SIDE OF MEDICAL LIGHTING

OPTIMAL ILLUMINATION OF YOUR SURGICAL SITUATION

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State-of-the-art

MICARE employs advanced LED technology in both the lens and reflector systems. This creates a broad, pure, and homogeneous color spectrum, resulting in brilliant and shadow-free light at the same time.

table color temperature for a autoble working environment

Our MICARE Light lens system allows the color temperature to be adjusted to create optimal contrast and an ideal display of color-sensitive tissue areas. In addition, the high light quality of both systems ensures that eye fatigue is noticeably reduced and lets the user concentrate for a prolonged period of time

Practical handling

The unique MICARE Light design provides an unbeatable operating concept that is appreciated by surgeons around the globe. The central handle can be sterilized, making it easy to



New manufacturing concept: First in world seamless surface

Unique manufacturing technology Through CNC milling offers the first full-aluminum monocoque light head in the market with perfect properties for an hygienic working environment. Ideal laminar flow properties and aerodynamic design provide best cooling conditions for the LED's. The clean design offers one of the most elegant light heads in the market. Improved LED's provide best in class color temperature of 3.500K - 5,700K offering a cool, bright and efficient illumination of the surgical field

Multi-color lens technology

The micare led multi-color OR-lights allow a variable adjustment of color temperature during surgery depending on surgical application and tissue color sensitivity and thereby ensure an optimum contrast and ideal presentation of all tissue areas

Optimal illumination of your surgical situation



Efficient technology

Low heat generation and extremely high light output - due to the special lens / LED combination

High intensity

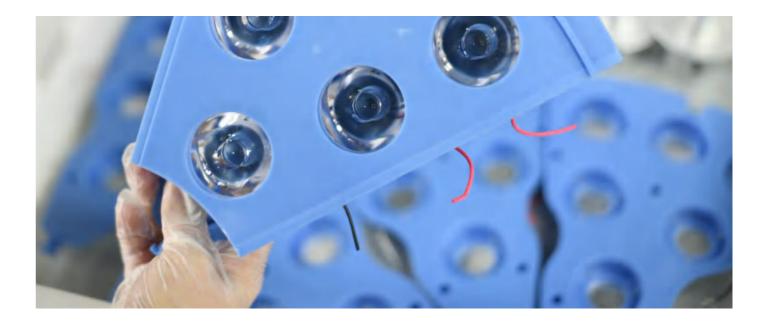
Innovative energy management and adaptation of the light field diameter to the size of the wound field ensure optimal viewing conditions in the surgical field

Smooth housing contours

including aerodynamic flow Characteristics

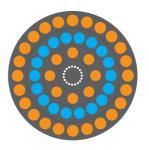
Micare surgical lights

are one of the most slimline on the market. Our flow-optimized design supports laminar air flow systems, thus enabling low-turbulence flow in the operating theater.



Efficient and long-lasting products

Evonos understands these circumstances and therefore places extreme importance on an economical lighting system that meets your requirements. You benefit from short installation times, a long service life, and a well thought out operating concept.



Multi-color plus E700

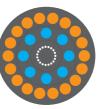
66 lenses with 37MM , 8 modules with 5 warm and 4 cold lenses each

Control panel of Multi-color led plus 700 / 500

You control the main functions directly via the control panel attached to the gimbal. Here you can set the illuminance, the size of the light field and the color temperature. Further more, you can also activate the AMBIENTS Light for endoscopic operations

high-tech lenses provide brilliant homogeneous light

In addition to the mechanical stability of the housing, the cover is made of tempered, scratch-resistant glass and can be cleaned without any limitations, thus also contributing to the longevity of the lights.



Multi-color led E500

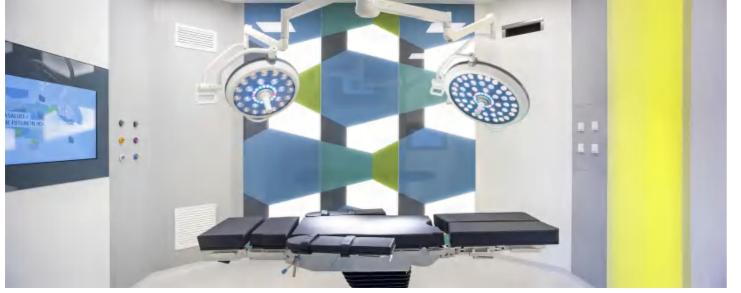
42 lenses with 37 MM , $8 \mbox{ modules with 5 warm}$ and $4 \mbox{ cold lenses each}$





Equipment and accompanying systems









Back-up Battery Optional (24V12.2AH) Over Voltage Detection Under Voltage Detection Discharging Over Current Detection Short Circuit Detection-Battery Power Digital Disply Life cycle : 800 cycle (charge/discharge)







SYNC CONTROL LED OPERATING LIGHT FUNCTIONS

10INCHES TABLET PC WALL CONTROL

- Working Time : 8-10 Hours, Charging Time: 4Hrs



TECHNICAL DATA SHEET











Model No	E700/700	LED-70D	LED-70D	Model No	LED-70D
Voltage	95V - 245V, 50/60HZ	95V - 245V, 50/60HZ	95V-245V, 50/60HZ	Voltage	95V - 245V, 50/60HZ
Illuminance at distance of 1 m(LUX)	60,000 - 180,000Lux	60,000 - 180,000Lux	60,000 - 180,000Lux	Illuminance at distance of 1 m(LUX)	60,000 - 180,000Lux
Control Of Light Intensity	10 - 100%	10 - 100%	10 - 100%	Control Of Light Intensity	10 - 100%
Lamp Head Diameter	700MM	700MM	700MM	Lamp Head Diameter	700MM
Quantity Of LEDS	66PCS	66PCS	66PCS	Quantity Of LEDS	66PCS
Color Temperature Adjustable	3,500 - 5,700K	3,500 - 5,700K	3,500 - 5,700K	Color Temperature Adjustable	3,500 - 5,700K
Color rendering index RA	96	96	96	Color rendering index RA	96
Color rendering index R9	98	98	98	Color rendering index R9	98
Focusable light field size	18-35CM	18-35CM	18-35CM	Focusable light field size	18-35CM
ight field diameter d10	22CM / 22CM	22CM / 22CM	22CM / 22CM	Light field diameter d10	22CM / 22CM
ight field diameter d50:	25CM / 25CM	25CM / 25CM	25CM / 25CM	Light field diameter d50:	25CM / 25CM
Fotal rediant flux density	500W/m2	500W/m2	500W/m2	Total rediant flux density	500W/m2
ndoscopy Mode	Red + Green Balance	Red + Green Balance	Red + Green Balance	Endoscopy Mode	Red + Green Balance
ndoscopy Mode LEDS	18PCS	18PCS	18PCS	Endoscopy Mode LEDS	18PCS
lumination For Endo-Mode	450LUX	450LUX	450LUX	Illumination For Endo-Mode	450LUX
ED service life	80,000hrs	80,000hrs	80,000hrs	LED service life	80,000hrs
Iain Material	Aluminum, IP54	Aluminum, IP54	Aluminum, IP54	Main Material	Aluminum, IP54
Deerating element	Touch Panel (Standard)	Touch Panel (Standard)	Touch Panel (Standard)	Operating element	Touch Panel (Standard)
Light head protection rating	IP54+FireProof	IP54+FireProof	IP54+FireProof	Light head protection rating	IP54+FireProof
epth of illumination L1+L2 at 20%	1600MM	1600MM	1600MM	Depth of illumination L1+L2 at 20%	1600MM
epth of illumination L1+L2 at 60%	800MM	800MM	800MM	Depth of illumination L1+L2 at 60%	800MM
emperature increase in head area:	1 °C	1 °C	1 °C	Temperature increase in head area:	1 °C
leight adjustment	UP +45°, Down -50° 1100MM 360°	UP +45°, Down -50° 1100MM 360°	UP +45°, Down -50° 1100MM 360°	Height adjustment	UP +45°, Down -50° 11
ED Lens Diameter	3HRS	3HRS	3HRS	LED Lens Diameter	3HRS
automatic compensation	OPTIONAL	OPTIONAL	OPTIONAL	Automatic compensation	OPTIONAL
ynchronization Control	OPTIONAL	OPTIONAL	OPTIONAL	Synchronization Control	OPTIONAL
Remote / Wall Control	OPTIONAL	OPTIONAL	OPTIONAL	Remote / Wall Control	OPTIONAL
ack Up Battery (4-6hrs)	OPTIONAL	OPTIONAL	OPTIONAL	Back Up Battery (4-6hrs)	OPTIONAL
nternal/External Sony Camera (30X)	OPTIONAL	OPTIONAL	OPTIONAL	Internal/External Sony Camera (20X)	OPTIONAL
Monitor With Extra Arm	24 / 27 / 32 INCHES	24 / 27 / 32 INCHES	24 / 27 / 32 INCHES	Monitor With Extra Arm	24 / 27 / 32 INCHES

TECHNICAL DATA SHEET







	LED-70D	
50HZ	95V - 245V, 50/60HZ	
ux	60,000 - 180,000Lux	
	10 - 100%	
	700MM	
	66PCS	
	3,500 - 5,700K	
	96	
	98	
	18-35CM	
	22CM / 22CM	
	25CM / 25CM	
	500W/m2	
nce	Red + Green Balance	
	18PCS	
	450LUX	
	80,000hrs	
	Aluminum, IP54	
dard)	Touch Panel (Standard)	
	IP54+FireProof	
	1600MM	
	800MM	
	1 °C	
0° 1100MM 360°	UP +45°, Down -50° 1100MM 360°	
	3HRS	
	OPTIONAL	
ES	24 / 27 / 32 INCHES	

TECHNICAL DATA SHEET







Model No	LED-70D	LED-70D
Voltage	95V - 245V, 50/60HZ	95V-245V, 50/60HZ
Illuminance at distance of 1 m(LUX)	60,000 - 180,000Lux	60,000 - 180,000Lux
Control Of Light Intensity	10 - 100%	10 - 100%
Lamp Head Diameter	700MM	700MM
Quantity Of LEDS	66PCS	66PCS
Color Temperature Adjustable	3,500 - 5,700K	3,500 - 5,700K
Color rendering index RA	96	96
Color rendering index R9	98	98
Focusable light field size	18-35CM	18-35CM
Light field diameter d10	22CM / 22CM	22CM / 22CM
Light field diameter d50:	25CM / 25CM	25CM / 25CM
Total rediant flux density	500W/m2	500W/m2
Endoscopy Mode	Red + Green Balance	Red + Green Balance
Endoscopy Mode LEDS	18PCS	18PCS
Illumination For Endo-Mode	450LUX	450LUX
LED service life	80,000hrs	80,000hrs
Main Material	Aluminum, IP54	Aluminum, IP54
Operating element	Touch Panel (Standard)	Touch Panel (Standard)
Light head protection rating	IP54+FireProof	IP54+FireProof
Depth of illumination L1+L2 at 20%	1600MM	1600MM
Depth of illumination L1+L2 at 60%	800MM	800MM
Temperature increase in head area:	1 C	1 °C
Height adjustment	UP +45°, Down -50° 1100MM 360°	UP +45°, Down -50° 1100MM 360°
LED Lens Diameter	3HRS	3HRS
Automatic compensation	OPTIONAL	OPTIONAL
Synchronization Control	OPTIONAL	OPTIONAL
Remote / Wall Control	OPTIONAL	OPTIONAL
Back Up Battery (4-6hrs)	OPTIONAL	OPTIONAL
Internal/External Sony Camera (20X)	OPTIONAL	OPTIONAL
Monitor With Extra Arm	24 / 27 / 32 INCHES	24 / 27 / 32 INCHES

MICARE LIGHTS AND VIDEO SYSTEMS

Advanced documentation is modern medicine

DOCUMENTATION AND DEMONSTRATION

Video documentation has a number of important applications. Whether it's education and training, live operations, for research, or for forensic purposes, more and more hospitals are choosing this useful option. Dräger offers you a selection of integrated or external video camera systems in either standard or high-definition resolution.

LIGHTING YOUR WORLD

MICARE can help you plan and equip your OR, ER, and ICU and can provide valuable expertise when it comes to innovative new workplace concepts such as integrated and hybrid ORs. Our line of wall- and ceiling-mounted swivel arm solutions - lights and supply units – and control options was designed to let you position and direct light easily and accurately. Our team of experts can advise you on the right combination of models that best suits your particular needs, helping you to get the most out of any care area.





Video components

Display: Medical-quality display, up to 22", 27" for video images and data.

Integrated SD or HD camera Polaris: Provides a direct view of the operating field with optimal exposure. Replaces the central handle and includes a picture rotation as well as an adjustment for the illumination radius.

External SD camera, MedView: Flexible, sterile positioning of the camera, independent from the light source. Suitable for providing a good overview of the situation on and around the table.

There for you, whenever you need us

No matter how much some things change over time, one thing will remain the same: our service commitment to you. In more than 190 countries around the globe, Dräger is there for you with service, assistance, and advice whenever you need it.











EXCELLENT SHADOW CONTROL





DESIGN Sleek design Small light head Easy positioning



HANDLE Sterilisable handle

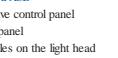


THERMAL MANAGEMENT

of the light head $<35^{\circ}$ C

Temperature at the rear surface

INTERFACE Intuitive control panel Wall panel Handles on the light head





4,400, 5,000 or 5,600 K available



COLOUR CODING

The light system and the wall panel are colour-coded for easier identification



LIGHT FIELD DIAMETER The light field can be adjusted incrementally to give perfect illumination

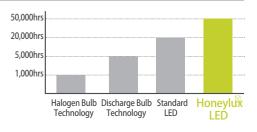


LIGHT INTENSITY

Dräger Polaris® 100: 40,000 to 120,000 lx Dräger Polaris® 200: 40,000 to 160,000 lx Endolight, 300 lx Average service life of LEDs: 50,000 h



LONG SERVICE LIFE



FULL HD CAMERA CONTROL

Camera offers multimedia and interactive communication (option)

MODULAR LAMP

Low maintenance requirement due to modular lamp inside



ENDO-MODE

Suitable for endo-surgery by one click



CAMERA

High-quality HD camera integrated into the light head 120x zoom, wireless transmission of video signal



DESIGN

Sleek design Small light head Easy positioning



Technical data TFT monitors

Product	Features	Signals/Interfaces Outputs	Signals/Interfaces Inputs
Radiance 22" (w/o fiber-optic input)	Resolution 1920 x 1080, response time 5–12 ms Types of voltage 24 VDC High-quality endoscopy display with HD-SDI interface PIP (picture-in-picture) mode and other features	1x DVI-D loop (DVI socket) 1x S-video loop (mini DIN) 1x HD-SDI loop (BNC)	

Compatible with the Latest Generation of Cameras

The MICARE MULTI-COLOR LED PLUS Surgical Light can be directly connected to the innovative and delay-free SONY Internal Camera System

via the handle unit interface, providing brilliant recordings in full HD. Individual images for documentation purposes are possible using the snapshot function. Benefits of wireless technology: ability to install and/or upgrade this system at no additional cost or the need for complex video cabling. In addition, it can be controlled from the mobile tablet or wallmounted operating panel.



The SONY 20X/30X Internal Camera provides excellent image quality and encrypted transfer provides maximum data security

TruConnect OR Integration System: Intelligently Linked

The MICARE Surgical Light is compatible with the innovative OR Integration System by MICARE Medical. The management and training system enables you to operate different MICARE Medical OR devices. This comprises lights, tables and cameras - even under sterile conditions. With MICARE OR Integration System Wall Control, you do not need any other remote control devices.

Instead, intuitive, mobile control of the integrated components is possible via the user interface on the tablet, including graphical feedback. The flexible app concept enables the MICARE OR Integration System to be individually extended with the addition of devices and functionalities and combined with other MICARE Medical solutions.



NANCHANG MICARE MEDICAL EQUIPMENT CO.,LTD IDEA FOR MEDICAL LIGHTING

WWW.MICARE-MED.COM WWW.SURGICALLIGHT.COM



MICARE Medical offers innovative products to improve efficiency and safety in the OR, ICU, and in other clinical environments throughout the care sector. With our customers' requirements as our innovation as the foundation of our success, MICARE Medical delivers total solutions to fit your clinical care needs.

This document is destined solely for use by healthcare professionals. Medical devices shown in this brochure are intended for use with patients in departments of healthcare establishments.



These products are regulated health care products which, where required by applicable regulations, bear a CE mark. MICARE recommends you carefully read the detailed instructions for safe and proper use included in the documentation accompanying the medical devices.

MICARE is a leading global medical lighting technology company We partner with health care providers by focusing on patient care solutions that improve clinical and economic outcomes in five core areas: Advancing Mobility, Wound Care and Prevention, Clinical Workflow, Surgical Safety and Efficiency, and Respiratory Health. MICARE people, programs, and product brands work towards one mission: Every day, around the world, we enhance outcomes for our patients and their caregivers.



