



PUSHING TECHNOLOGY TO EXCELLENCE



# Sim.LED 8000

Revolutionary & Innovative Illumination

# Sim.LED 8000

## A NEW SURGICAL LIGHTS ERA FOR CHALLENGING APPLICATIONS

SIMEON Medical is offering a new era of surgical lights - The new Sim.LED 8000 series.  
The Sim.LED 8000 has a uniquely intuitive user philosophy and an outstanding and innovative illumination.  
It is the ideal solution for all applications, needs and challenges in everyday surgery.

The new SIMEON operating light impresses especially with its efficiency, multidisciplinary use and safety for patients and users.

Convince yourself of the major advantages and features of the new Sim.LED 8000!



Revolutionary & Innovative Illumination

# Sim.LED 8000: REVOLUTIONARY & INNOVATIVE ILLUMINATION

The various product features of the Sim.LED 8000 make it the ideal partner for common as well as complex operations. The SIMEON philosophy - easy handling, efficiency & user friendliness are perfectly combined in the new Sim.LED 8000.

Ideal and homogen illumination, whether it be for common or challenging applications.



## High-end light quality for high-end applications



### Impressive light quality

- Shadow-free light thanks to the patented SIMEON reflector technology 2.0
- Available in Single (SC) & Multi Color (MC)
- Optimization of illumination through active shadow management
- Impressive color rendering with CRI 98



### Multidisciplinary use

- Excellent 2,308 mm depth illumination
- Optimally illuminated light field at 160,000 lux in various field sizes
- Application-oriented field adjustment from 170 to 320 mm
- Positioning of the light head from +45° to -75°

## Looking to the future



### Sim.BIANCE dimmable endoscopic light

- Dimmable and customizable: Light intensity adjustment related to the application
- Touch display: automatic reduction of display brightness to avoid interfering light in the operating room



### High-resolution camera systems

- The future of visualization: Automatic camera preparation of the Sim.LED 8000 for 4K and HD camera systems as well as readiness for future camera technologies

# BENEFIT FROM A UNIQUE LEVEL OF USER-FRIENDLINESS

The user-friendliness of an operating light contributes significantly to patient and user safety and also efficiency in the operating room. This and few other benefits are offered by the new and unique user philosophy of the Sim.LED 8000 operating light. The operating light helps you to optimize processes, increase efficiency, and therefore contributes to greater safety in the operating room.

## Process optimization

### Reduced OR setup time



Standard and established cardanic control for easy handling

### Optional:



my.LED user profiles:  
Save and activate personalized settings  
Up to 99 user profiles by person and/or discipline

### my.SYNC function synchronization



Automatic adjustment and functional synchronization between surgical lights contributes towards process optimization in the operating room

## Increased efficiency

### Easy and intuitive handling

The intuitive operating concept not only makes the work of surgical staff easier, but also contributes significantly towards patient safety. Well-founded usability studies have confirmed a particularly simple and easy-to-understand handling.

### my.GRIP personalizable handle

- Sterile operation of the operating light directly via the central sterile handle optimizes operation steps



- Simple programming via cardanic control



## Positioning

### New interpretation of the revolutionary SIMEON triangle design

- Maximum light-emitting surface



- Lights can be positioned almost gap-free over the operating field



# Sim.LED 8000 EXCELLENT TOUCH USABILITY

Another highlight in terms of user-friendliness is the new touch usability of the Sim.LED 8000. The touch-sensitive display impresses with easy-to-understand symbols and the intuitive adjustability of all light and camera functions directly on the cardanic controls.

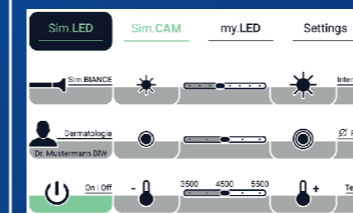
In addition, all settings can be viewed clearly and immediately on the new SIMEON touch display.

In addition to the cardanic touch control, SIMEON also offers an optional wall touch control with an user interface for the simple control of multiple operating lights and camera systems.



## Quick overview

All settings on one view



## Effortless control for everyone

Touch-sensitive touch display with easy-to-understand symbols



## All functions

Intuitive adjustment of all light and camera functions using buttons and sliders with direct status displays of the settings



## Customizable light

Various functions for personalizing operation lighting

- Up to 99 personal my.LED user profiles
- my.GRIP customizable control via the sterile handle
- Sim.BIANCE dimmable endofunction

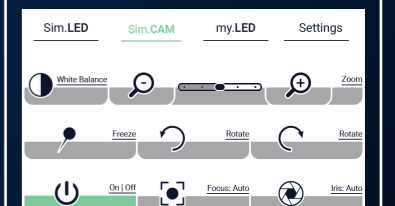
## Long life span

Long lifetime of the SIMEON touch display thanks to its black screen saver



## Camera control panel

Intuitive control of all camera functions directly via the touch display



# REDUCED RISK OF CONTAMINATION

The mission of SIMEON Medical is to improve the hygienic standards in the hospital.

The Sim.LED 8000 provides various product features that significantly reduce the risk of contamination. SIMEON lighting systems impress with a special antibacterial coating Anti.BAC® which offers an effective antimicrobial effect. Other advantages such as the intuitive my.GRIP concept impress both with respect to their surgical and especially hygiene benefits.



## Anti.BAC®

- Antibacterial coating
- Reduces germs by 99.99%
- Extremely long service life (approx. 10 years)
- Devoid of physiologically problematic free silver ions
- Better hygienic conditions



## my.GRIP customizable sterile handle

- Sterile control of the operating light directly via the central sterile handle



## Easy to clean

- Constructed from the high-end materials aluminum and real safety glass
- IP54 protection against dust and water



## Aerodynamic properties

- Optimum heat management thanks to the aluminum housing
- Reduction of air turbulence leads to excellent laminar flow properties



## Optimal working conditions

- Unique energy efficiency and low power consumption combine to ensure low heat generation in the sterile area for better hygienic conditions and more comfortable working conditions due to reduced heat accumulation in the user's head area

# LONG SERVICE LIFE AND FUTURE READINESS

The SIM LED 8000 will be your reliable partner in the future. Maintaining highest quality standards, our SIM LED 8000 has been developed in consideration with the ISO 13485 standard and the new MDR requirements.

The strong inhouse manufacturing know-how in Tuttlingen grants a long lifetime of our products – Made in Germany!



## German-made quality

- Use of state-of-the-art LED technology for better light quality
- Very long service life
  - 5-year warranty for Sim.POD 2.0
  - LED lifetime > 60,000 h
  - Use of the high-end materials aluminum and real safety glass
- Developed and manufactured in Germany
- Impressive environmental compatibility through the use of recyclable materials

## Future readiness

### auto.CAM

- All SIMEON operating lights are automatically prepared for camera systems: HD, 4K and future technologies
- Uniform camera adaptation enables a tool-free exchange of cameras between the SIMEON operating lights
- Camera built into the light head or as a version on a separate arm



### Multidisciplinary use

- Fit for the future: Sim.LED 8000 is suitable for all applications: from standard to highly complex situations

### Sim.FLEX


- SIMEON Medical's modular and flexible suspension arm system
- Additional extendable arms equipped with a light or monitor can be fitted
- Also suitable for hybrid operating rooms thanks to special suspension arm lengths up to 2,000 mm

### Variety of variants

- Sim.LED 8000 available as a ceiling or mobile version
- Mobile variants for maximum wireless flexibility, also with a single or double battery stand

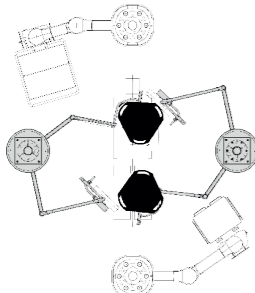
# PRACTICAL APPLICATION IN ALL AREAS OF USE

Sim.LED 8000, the ideal operating light for even the most complex and challenging situations. The SIMEON operating light is the ideal solution for your challenges. From common standard applications to highly complex specialist areas, the unique product properties of the Sim.LED 8000 will support you in achieving your best results.




**Sim.LED 8000 in cardiology**

For cardiology applications, we recommend a double combination of the Sim.LED 8000 with Sim.CAM camera system and a ceiling-mounted monitor. Plus a third Sim.LED 8000 single suspension. Therefore, the operating area is always optimally illuminated. The operation can be followed in parallel on the monitor\* via the Sim.CAM camera system or recorded and even streamed wherever necessary.



**Sim.LED 8000 in the hybrid OR**

In the hybrid OR, we suggest a decentralized installation of the Sim.LED 8000 operating lights on the patented Sim.FLEX suspension arm system with length up to 2,000 mm. This offers optimal positioning options and also enables a maximum level of future readiness.



**Sim.LED 8000 in general OR**

The Sim.LED 8000 is also the ideal solution for the general OR. Thanks to the high-quality light and innovative product features, the OR will be perfectly equipped for any application.

\*for trainings and education purposes

# TECHNICAL SPECIFICATIONS



	Sim.LED 8000 SC	Sim.LED 8000 MC
Max. Illumination intensity Ec*	160,000 lux in various fields	
Light field adjustment	170-320 mm	
Color temperature	4,500 K	3,500 / 4,000 / 4,500 / 5,000 / 5,500 K
Electronic brightness regulation	2 - 100%	
IP protection class	IP54	
Depth illumination 20% (L1+L2)	2,308 mm	2,100 mm
Depth illumination 60% (L1+L2)	979 mm	917 mm
CRI / R9 / R13	98 / 99 / 99	
Operation	Optional touch or membrane control	

Tolerance +/- 10%, Technical data are subject to change

\* According to IEC 60601-2-41, the max. illumination must not exceed 160,000 lx. The measurement tolerance is therefore only -10%.





# BROAD RANGE OF ACCESSORIES FOR YOUR SIM.LED

## Suspension arm systems



### SIMEON suspension arm

Uncomplicated positioning of the products is an important benefit provided by the suspension arm systems. This is possible with the SIMEON suspension arm system in a 1-arm to 4-arms combination. In addition, the SIMEON suspension arm system offers stop-free rotation and >380° rotation even with the TFT (with stop).



### Sim.FLEX

Maximum flexibility for OR planners: With an extension arm length of up to 2,000 mm, our light systems are also easy to use in hybrid ORs. Sim.FLEX provides expansion options by allowing the attachment of additional suspension arms any time – even after installation.

## Installation

### Ceiling installation

There are two suspension arm systems available  
 - SIMEON suspension arm system and Sim.FLEX.

#### Anti.BAC®

SIMEON suspension arm systems with the innovative antibacterial coating Anti.BAC®.

### Sim.LED mobile lights

Sim.LED mobile lights are available with and without a removable battery.

Modular and flexible OR lights with outstanding performance.

Mobile stand with special combinations with one or two batteries can be used up to 24/7.

Mobile light with removable battery: The only mobile wireless solution on the market.

#### Anti.BAC®

SIMEON mobile stands now with the innovative antibacterial coating Anti.BAC®.



# THE NEW DIMENSION OF VIDEO IMAGES



## Sim.CAM 4K Wireless More Details. Better Visualization.

Fascinating images—with clear, sharp contours and strikingly improved color. Details that Full HD was unable to depict are now clearly and distinctly visualized in 4K ULTRA HD. A wireless version and a variant on the separate arm are available on request.



### Sim.CAM 4K Wireless

Resolution	approx. 8,510,000 pixels
4K Ultra HD	3,840 x 2,160
Zoom	20x optical 12x digital
Image rotation	Stop-free, mechanical and electronic

Subject to technical changes

## Sim.CAM HD and HD wireless More Details. Great Flexibility.

With the new Sim.CAM HD Wireless you will be getting a premium HD camera that sends images to your monitor without additional wiring, thanks to the new wireless technology. In the process, the integrated HD camera transfers all data sharply and precisely from every selected position. A wired solution and a version on the separate arm are also available on request.



### Sim.CAM HD and Sim.CAM HD wireless

Resolution	approx. 2,140,000 pixels
Full HD	1,920 x 1,080
Aspect ratio	16: 9
Zoom	10x 10x optical, 16x digital 30x 30x optical, 12x digital
Image rotation	10x Electrical (2 steps) and mechanical 30x Stop-free, mechanical and electronic

Subject to technical changes

## Uniform control for all camera systems

All Sim.CAM camera systems can be operated uniformly and intuitively via the IR remote control and the cardanic touch and wall touch control of the Sim.LED 8000.



Infrared remote control



Cardanic touch control



Wall touch control

# Sim.SCREEN – MONITOR HOLDER

# STREAMING & RECORDING / INTEGRATION



### Sim.SCREEN for 19"-27" monitors

The Sim.SCREEN monitor holder optimally positions all commercial monitors from 19-27".



### Sim.INTERFACE

With the help of the Sim.INTERFACE, all OR integration systems available on the market can control our products.



### Sim.SCREEN for 32" monitors

Thanks to the new design, and despite the larger and heavier commercially available monitors, a simple and smooth operation is ensured.



### Streaming and recording instruments

The 4K streamer and recorder impresses with its intuitive operating concept and 1 TB internal memory, which can also be expanded. The solution is DICOM-capable and enables HD and 3D streaming and recording.

The full HD recorder also offers an intuitive user interface and 1 TB of internal memory, which can also be expanded. The device is also DICOM-capable. The recorder can be completed using an HD streaming device.



### Sim.SCREEN Double monitor holder

Sim.Screen is also available as a double monitor holder.



### Sim.VID

Sim.VID – the mobile video solution from SIMEON Medical, provides the option of mobile visualization and further processing of medical image data.

# YOUR HOSPITAL SOLUTION PROVIDER

SIMEON Medical – the hospital solution provider offers a large product portfolio, both for the operating room and for other areas of the hospital. From surgical and examination lights, to camera and video systems, to a mobile operating table and ceiling supply units – everything from one supplier with a constant focus on user-friendly application on site.



**Anti.BAC®**

Surgical lights – SIMEON HighLine  
Revolutionary Et Innovative Illumination



**Anti.BAC®**

Surgical lights – SIMEON BusinessLine  
Great Light. Great Value.



Sim.CARRY ceiling supply unit –  
The all-rounder of ceiling supply units



Camera Et video systems  
Sim.CAM 4K Wireless  
More Details. Better Visualization.  
Sim.CAM HD und HD Wireless  
More Details. Great Flexibility.  
Sim.SCREEN **Anti.BAC®**  
Monitor holder for smooth and easy use  
Streaming and recording instruments  
High-quality telemedicine  
Sim.VID  
Mobile visualization of medical images



Sim.MOVE 800 Mobile operating  
table –  
Business Class with high-end  
characteristics



**Anti.BAC®**

Small operating light – Sim.LED 4500  
Small operating light – wide field of view



**Anti.BAC®**

SIMEON OP lights as mobile versions,  
also with removable battery  
Sim.LED mobile lights are available with  
a unique battery back-up system as well  
as without a battery



**Anti.BAC®**

Examination lights –  
Another dimension of light  
Sim.LED 3500+  
The modern examination light  
Sim.LED 350  
Efficient and flexible in practice  
Sim.LED 250\*  
Reduced to the optimum

\* Sim.LED 250 not available with Anti.BAC® coating.

# WE OFFER EXCELLENCE FOR YOUR HOSPITAL

As a hospital solution provider, SIMEON Medical has over 20 years of experience, 100 employees at six sites worldwide, unlimited innovative capacity, and invaluable expertise regarding medical technology solutions. Thanks to our proximity to our customers and understanding of their needs, we guarantee you excellent products, all with the tag "Made in Germany".\*



## Innovative solutions

For SIMEON Medical, innovation means creating added value for customers. SIMEON's products provide a great deal of flexibility, and our numerous patents are testament to their exceptional level of technical innovation; these qualities have helped SIMEON become a key company in medical technology.



## Diversification

SIMEON has continuously been developing new, innovative, and forward-looking products since its foundation, always in line with SIMEON's philosophy as a hospital solution provider with a focus on the OR.



## Global

As an internationally operating company, we sell in more than 90 countries worldwide, supported by our 6 regional sales offices.



## Made in Germany

We operate on a global level, and we have never forgotten our roots.\*

\*Sim.CARRY products made in Czech Republic

## PUSHING TECHNOLOGY TO EXCELLENCE

In recent years, we have grown to become one of the world's leading producers of hospital solutions. We operate and produce according to our philosophy "Pushing Technology to Excellence" at all times. Our work is based on three pillars: innovation, a global footprint, and German-made quality.\*

### What "Pushing Technology to Excellence" means to us:



01

Doing things right the first time



02

Providing solutions which offer significant customer benefits



03

Being a reliable business partner



04

Using resources sustainably

# CONSISTENTLY TOP-NOTCH PRODUCT QUALITY

We make no compromise in the quality of our products. We produce with cutting-edge manufacturing technologies, primarily work with local and certified suppliers and exclusively use high-grade materials. We achieve and maintain our high quality standards through continuous process monitoring and improvement as well as our seamless quality management.

## AN OVERVIEW OF OUR CERTIFICATIONS:

01

**ISO 13485:2016:**  
Current certification of our quality management system for medical device manufacturers

02

**MDSAP:** Current certification of our quality management system in accordance with the requirements of the EU, USA, Japan, Brazil and Canada

03

**ISO 14001:**  
Current certification of our environmental management systems

04

**UL audited:**  
Quarterly audits of our products by UL

05

**FDA:** Registration with the Food and Drug Administration (FDA)

06

**Known Consignor:**  
Entitlement to secure airfreight

## THE FUTURE OF OUR ENVIRONMENT AT A GLANCE

Our environment is near and dear to our hearts! So we do everything we can to secure its future. Environmental protection is one of our primary company goals. We focus on sustainable growth and a resource-conserving company policy. That way, we contribute to a healthy future worth living in.

### Environmental protection at SIMEON Medical in overview:

We save energy through the use of photovoltaic systems.

We heat and cool using geothermal boreholes and use the heat from our compressors for heat recovery.

We make our products out of high-grade recyclable materials such as glass and aluminum instead of plastic. This makes our products exceptionally durable as a result.

We recycle the shavings which accumulate in production and package our products with recyclable materials whenever possible.

We are ISO 14001 certified for our environmental management system.



# SIMEON MEDICAL YOUR SOLUTION PROVIDER FOR THE HOSPITAL



PUSHING TECHNOLOGY TO EXCELLENCE

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Products are only available in registered countries.  
\*Sim.CARRY products are made in Czech Republic

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