



PUSHING TECHNOLOGY TO EXCELLENCE



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Sim.LED 700 MC



**Anti.BAC®**

**my.GRIP**

# SIMEON BusinessLine

Great Light. Great Value.

# THE NEW Sim.LED 700, 500 AND 450

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## GOOD LIGHT FOR ANY OPERATING ROOM

With its BusinessLine, SIMEON has developed a completely new light range, with which we are opening up an entirely new market segment for the SIMEON brand, since the BusinessLine brings technological excellence to any operating room in the world. The BusinessLine completes SIMEON's product portfolio. In the future, there will be no limits in combining small Sim.LED 450, medium-sized Sim.LED 500 and large Sim.LED 700 surgical lights in single-color and multi-color, with and without cameras. SIMEON's BusinessLine offers the perfect light for every OR and every user. SIMEON offers trendsetting light and system solutions that can be retrofitted easily and without special preparation. This includes, for example, the wireless equipping of your surgical lights with cameras.



# SIMEON

## BUSINESSLINE

### Sim.LED 700, 500, 450

#### CLEAR ADVANTAGES

The latest single-color or multi-color LEDs, the patented reflector technology, and the arrangement of the LEDs in a unique design provide more light without shadows.

BusinessLine lights provide optimal illumination for conducting operations.



#### Single-Color



The single-color version with natural white LEDs offers a fixed color temperature of 4,500 K.

#### Multi-Color



The multi-color version with 50% cold white and 50% warm white LEDs offers a wide range of color temperature adjustment from 3,500 K to 5,500 K in 5 steps.

#### High-end materials

Use of aluminum and safety glass.

Aluminum light head as ideal heat sinks.

Optimal heat management.

Ideal laminar air flow conditions.

Innovative LED technology: patented Sim.POD reflector.

#### Wireless solution

Sim.CAM 4K and HD Wireless, easy replacement and retrofitting of existing surgical lights.

Thanks to the innovative wireless solution, all SIMEON OR lights are automatically camera prepared.

Sim.LED mobile lights optionally available with removable battery.

#### Cost effectiveness

Very long life time with > 60,000 h for LEDs.

Exceptional energy efficiency, low power consumption.

Optimal heat management.

#### Highest level of hygiene

Innovative antibacterial coating.

**Anti.BAC**

Better hygienic conditions.

Safety glass for ideal hygiene.

my.GRIP: sterile control of two operating functions in parallel and directly via the sterile handle.

#### Innovative solutions

Innovative Sim.FLEX suspension system.

All surgical lights ready for Sim.CAM HD Wireless and Sim.CAM 4K Wireless.

my.LED: personalized settings can be simply saved and activated.

# CUTTING-EDGE LED TECHNOLOGY – REVOLUTIONARY DESIGN

ABSOLUTELY  
HIGH-END



5-year warranty for Sim.PODs



## Revolutionary design

The light body and suspension system, made of light aluminum, allow for a fast and smooth positioning.

## User-friendly

my.LED: personalized settings can be simply saved and activated.

my.GRIP: sterile control of two operating functions in parallel and directly via the sterile handle.

Great user benefits thanks to SIMEON spring arms with unique flexibility due to a large range of movement from + 45° to - 75° – ideally suited for all seated procedures as well as all common applications.

## Patented reflector technology

Sim.POD: three high-performance LEDs of the latest generation, positioned in the center of an aluminum-coated reflector.  
  
sun.LED: The combination of LED and reflector achieves a constantly high color rendering index  $Ra > 96$  in every color temperature setting, with 3,500 K, 4,000 K, 4,500 K, 5,000 K as well as 5,500 K.

## Shadow-free light

Reflector Shadow Resolution System (RSRS) for a unique light quality: large light-emitting surface, shadow-free light, for ideal illumination entirely without sensor systems or automatic adaptation of the light values.

## Long life time

> 60,000 h for LEDs.  
  
5-year warranty for Sim.PODs.  
  
Guaranteed life time thanks to ideal heat management.

## Environmentally friendly

Highest energy efficiency.  
  
Minimal heat build-up.  
  
Use of recyclable materials such as glass and aluminum.

# SIMEON BUSINESSLINE – BETTER HYGIENIC CONDITIONS

## USER-FRIENDLY OPERATION



Better hygiene  
thanks to **Anti.BAC®**  
innovative antibac-  
terial coating

Highest level of  
antimicrobial efficacy  
(log 5.9 for Escherichia  
coli and log 4.29 for  
Staphylococcus aureus).  
Reduces germs by > 99.99 %.  
No potentially physiologi-  
cally harmful nano-silver  
or free silver ions.  
Antimicrobial effect in  
accordance with  
ISO 22196 (JIS Z 2801).

Better hygiene  
thanks to high-end  
materials –  
aluminum and  
safety glass

Aluminum light head as  
the ideal heat sink.  
Scratch-resistant safety  
glass guarantees an  
optimal light transmittance  
throughout the entire  
lifecycle of the lights.

User-friendly thanks to  
my.GRIP –  
One Handle.  
Personalized Options.  
SIMEON Multifunction  
Handle

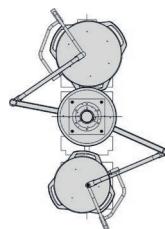
Sterile control of two  
operating functions in  
parallel and directly via  
the sterile handle.  
Up to 12 freely selectable  
combinations.  
Additional step for optimal  
hygienic conditions.  
Easily programmable using  
cardanic control panel.

User-friendly  
thanks to intuitive  
operation

Control of the light is  
possible:  
- on the cardanic  
- via the sterile handle  
- via the wall control panel.  
The light intensity, light  
field and color temperature  
can all be easily set using  
the cardanic or wall control  
as well as the my.GRIP  
function.  
For endoscopic interven-  
tions, the Sim.BIANCE  
mode is available.  
my.LED: personalized  
settings can be simply  
saved and activated.

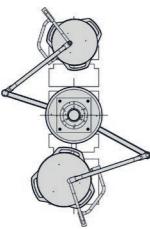


# SIMEON BUSINESSLINE – GREAT LIGHT, GREAT VALUE



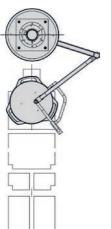
## General OR

A double combination of the SIMEON BusinessLine (e.g. Sim.LED 700/500) is ideally suited for this application.



## Emergency rooms

A double combination of SIMEON BusinessLine (e.g. Sim.LED 500/500) puts the surgical field in its true light.



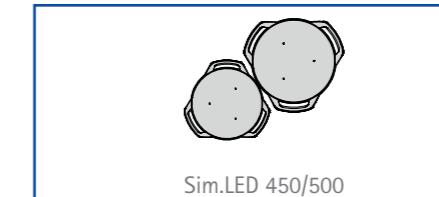
## Induction

The BusinessLine Sim.LED 450 is ideally suited for this purpose.

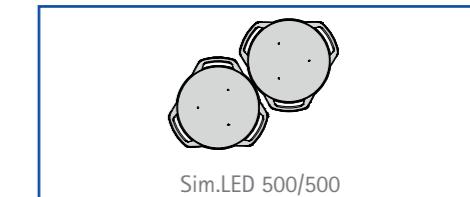
There are no limits to the combinations of small Sim.LED 450, medium-sized Sim.LED 500 and large Sim.LED 700.



Sim.LED 450/450



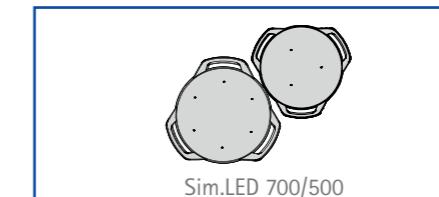
Sim.LED 450/500



Sim.LED 500/500



Sim.LED 700/450



Sim.LED 700/500



Sim.LED 700/700

SIMEON BusinessLine	Sim.LED 700 MC / SC	Sim.LED 500 MC / SC	Sim.LED 450 MC / SC
Central illumination intensity at a distance of 1 m [lx]	160,000	160,000	140,000
Dimming capability from/to [lx]	48,000 – 160,000	48,000 – 160,000	42,000 – 140,000
Color temperature [K]	3,500 – 5,500 [MC] 4,500 [SC]	3,500 – 5,500 [MC] 4,500 [SC]	3,500 – 5,500 [MC] 4,500 [SC]
Light field diameter $d_{10}$ at a distance of 1 m [mm]	170 – 300 [SC/MC]	170 – 290 [SC/MC]	140 – 230 [MC] 140 – 250 [SC]
Electronical field adjustment	yes	yes	yes
Color rendering index Ra in every color temperature setting	96	96	96
Red rendering index R9	94 [MC] / 96 [SC]	94 [MC] / 96 [SC]	94 [MC] / 96 [SC]
"Skin color" rendering index R13	98	98	98
Illumination depth without refocusing (L1+ L2) at 20 % [mm]	915 [MC] 875 [SC]	945 [MC] 930 [SC]	925 [MC] 975 [SC]
Light head weight [kg]	18	15	13
Light head power consumption [W]	66 [MC] 62 [SC]	62 [MC] 53 [SC]	51 [MC] 45 [SC]
LED life time [h]	> 60,000	> 60,000	> 60,000
Sim.CAM HD, HD Wireless & 4K Wireless	optional	optional	optional
Approval	CE	CE	CE



# COMPREHENSIVE RANGE OF ACCESSORIES FOR YOUR OPERATING LIGHT

## Controls

SIMEON BusinessLine OR lights and cameras can be simultaneously controlled via wall control, via sterile handle as well as directly at the cardanic control.



**Cardanic Control  
(standard)**



**my.GRIP control via  
sterile handle (standard)**



**Wall Control  
Panel (optional)**

## Suspension System



**SIMEON Suspension System**

Easy positioning of the products is an important advantage of the suspension system. Using the SIMEON suspension system, this is possible in single up to quadruple combinations. In addition, the SIMEON suspension system offers limitless rotation as well as >380° rotation with 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. And with Sim.FLEX, it is possible to expand the system by adding mounting arms at any time – even after installation.

### Anti.BAC®

SIMEON suspension systems now available with innovative antibacterial coating Anti.BAC®.

## Installation

### Ceiling installation

There are two different ceiling suspension systems available – SIMEON Suspension System and Sim.FLEX.



### Sim.LED Mobile lights

Mobile and flexible:  
OR lights with an excellent performance.

Mobile lights available without and with battery back-up.

Mobile stand with one or two batteries. Ready for use 24/7.

Mobile light with battery back-up: only mobile wireless solution in the market.

### Anti.BAC®

SIMEON mobile lights now available with innovative antibacterial coating Anti.BAC®.

# THE NEW DIMENSION IN VIDEO SYSTEMS



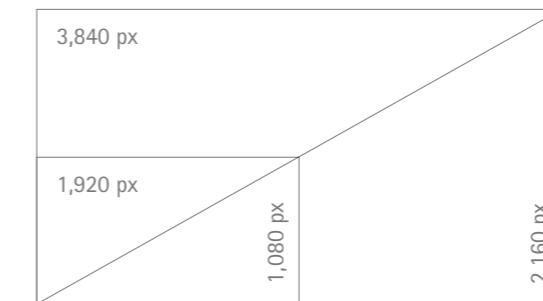
## Sim.CAM 4K Wireless – More Details. Better Visualization.

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. If needed, the Sim.CAM 4K Wireless is available as a separate arm solution.



### 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	Limitless, mechanical and electronically
Video outputs	HDMI 1.4, DVI



Use 4K ULTRA HD in surgical settings for detail-optimized imagery. The high image quality offers you finely structured images with amazing details and thus a brilliant visual representation.

## Sim.CAM HD and HD Wireless – More Details. Great Flexibility.

With the new Sim.CAM HD Wireless you obtain a premium HD camera that sends images to your monitor without additional wiring, thanks to the new wireless technology. The integrated HD camera transfers all data sharply and precisely from every selected position. If needed, it is also available as non-wireless as well as separate arm solution.



### Sim.CAM HD and Sim.CAM HD Wireless (10x/30x)

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: Limitless, electrical and mechanical

# Sim.SCREEN – MONITOR HOLDER

# STREAMING & RECORDING / INTEGRATION



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

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



## Sim.INTERFACE

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



## Sim.SCREEN for 32" monitors

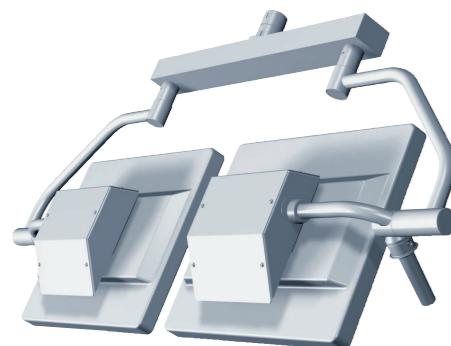
Despite the fact that commercial monitors are larger and heavier, the mount's new design guarantees a simple and easy use.



## Streaming and recording devices

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

The full HD recorder also offers an intuitive user interface and an internal memory of 1 TB that can be expanded. The device is also DICOM capable. The recorder can be completed with an optional HD streaming device.



## Sim.SCREEN double

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



## Sim.VID

Sim.VID – the mobile video solution by SIMEON Medical offers the opportunity of mobile visualization and processing of medical images, optionally available as wireless solution.

# SIMEON MEDICAL

## YOUR HOSPITAL SOLUTION PROVIDER

SIMEON Medical, the hospital solution provider offers a wide product portfolio for the operating room as well as for other major areas of the hospital. From surgical lights and examination lights to camera- and videosystems, to the operating table and all the way to ceiling supply units – everything from a single provider and always focusing on user-friendly application on site.



**Anti.BAC®**

**OR Lights – SIMEON HighLine**  
Excellent light performance.



**Anti.BAC®**

**OR Lights – SIMEON BusinessLine**  
Great Light. Great Value.



**Ceiling Pendants – Sim.CARRY**  
The all-rounder of ceiling supply units.



**Camera- & Videosystems**  
**Sim.CAM 4K Wireless**  
More Details. Better Visualization.  
**Sim.CAM HD and HD Wireless**  
More Details. Great Flexibility.  
**Sim.SCREEN Anti.BAC®**  
Monitor holder for smooth and easy use.  
**Streaming and Recording devices**  
Top quality telemedicine.  
**Sim.VID**  
Mobile visualization of medical images



**Mobile Operating Table –**  
**Sim.MOVE 300/400**



**Anti.BAC®**  
**Minor Surgical Light –**  
**Sim.LED 4500**  
Small operating theatre light –  
wide field of view.



**Anti.BAC®**  
**SIMEON Mobile lights, optionally with battery back-up**  
The mobile lights are available with unique battery back-up and without 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.

\*Anti.BAC not applicable for Sim.LED 250

Products are only available in registered countries.

# WE OFFER EXCELLENCE FOR YOUR HOSPITAL

As a hospital solution provider, SIMEON Medical has more than 20 years of experience, 100 employees at 6 sites worldwide, great innovative capacity and invaluable know-how for medical technology solutions. Thank to our proximity to our customers and understanding of their needs, we guarantee you excellent products – made in Germany\*.



## Innovative solutions

For SIMEON, innovation means adding value to the customer. 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 and innovative products since its foundation, always in line with SIMEON's philosophy as a solution provider for the hospital with 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 – without forgetting our roots\*.

**PUSHING TECHNOLOGY TO EXCELLENCE**

In recent years, we have developed 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, 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 SERVICES:

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 Man-  
agement System

04

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

05

**FDA:** Registration at 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 – an 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 certified according to ISO 14001 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 made in Czech Republic

As a hospital solution provider, SIMEON Medical has more than 25 years of experience, 60 employees at 3 sites worldwide, great innovative capacity and invaluable know-how for medical technology solutions. Thank to our proximity to our customers and understanding of their needs, we guarantee you excellent products – made in Germany\*.