Excellence in medical care

For over 15 years now, LED technology pioneer SIMEON has provided complete, future-oriented top products at a cost-to-benefit ratio which is unparalleled across the world. Thanks to their special design and unique reflector technology, SIMEON's innovative solutions ensure ideal lighting conditions and cover all demands for hygiene and function in the medical field. SIMEON products are made in Germany and undergo certified production with continuous quality control.

SIMEON BusinessLine
Great Light, Great Value

SIMEON Quality Made in Germany

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SIMEON MEDICAL
PUSHING TECHNOLOGY TO EXCELLENCE

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SIMEON BusinessLine – The new Sim.LED 700, 500 and 450 good light for any OR

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 OR in the world.

The BusinessLine completes SIMEON's product portfolio. In the future, there will be no limits to the combinations of small Sim.LED 450, medium-sized Sim.LED 500 and large Sim.LED 700 surgical lights in single and multi-color, with and without cameras. SIMEON's BusinessLine offers the perfect light for every OR situation and every user.

5-year warranty for Sim.PODs

Three high-performance LEDs of the latest generation positioned in the center of a high-gloss aluminum reflector.

Clear advantages: SIMEON BusinessLine

Cutting-edge LED technology

- Patented reflector technology guarantees top lighting performance
- Outstanding shadow solution
- Unsurpassed light-emitting surface
- Integrated ambient light for minimally invasive surgery

Economical

- Very low energy consumption
- Unparalleled energy efficiency – low power consumption
- Optimal heat management
- Very long service life

Design

- Light head and mounting bracket made of lightweight aluminum enable quick and smooth positioning
- Scratch-resistant single-pane safety glass (SSG) ensures optimal light transmittance over the lights' entire life cycle
- Seamlessly sealed design meets the highest hygienic demands
- The unique light head design allows you to position the lights directly over the surgical field virtually without a gap

Secure investment for the future

- Easy upgrade to the latest LED generation
- Meets the highest hygiene standards
- Easily incorporated into integrated systems via Sim.INTERFACE
- Very long service life
- System expansion via Sim.CAM camera and Sim.SCREEN monitor mounting arm systems
- Environmentally friendly thanks to maximum energy efficiency with optimal heat management
- Service and maintenance-friendly
- Upgradeable service software

Patented reflector technology for a shadow-free homogenous illuminated field

SIMEON lights need to be efficient, flexible, and durable, and reflect the state of the art – so typically SIMEON. That's why the BusinessLine uses market-leading reflector technology and refines the famous SIMEON triangle design.

RSRS – for light without shadows

The SIMEON Reflector Shadow Resolution System (RSRS) gives you ideal illumination in any situation – without any sensor systems or automatic light value adjustments.

Available in multi- and single-color

Excellent laminar flow values

Ideal heat management minimizes turbulences on the upper and lower surfaces of the light head.

Options for

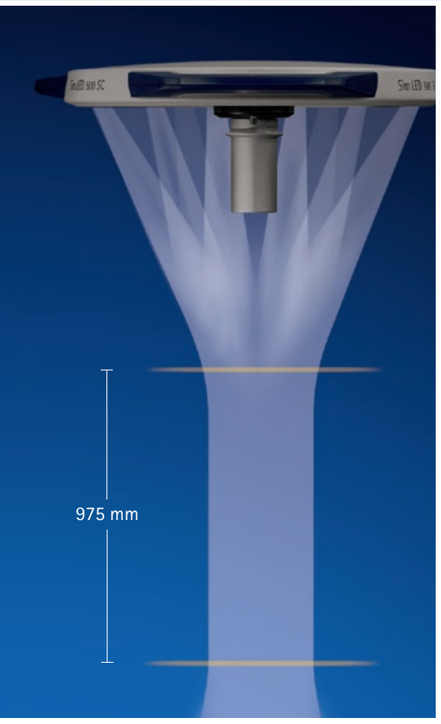
Sim.CAM, SD, HD and wall control

Optimal illumination

Power consumption is low thanks to a homogenous light field and 360° illumination with just 72, 54 or 36 LEDs.

Consistently high Ra > 96

at any color temperature setting thanks to sun.LED technology



Maximum energy efficiency and optimum heat management:

ideal light yield with a small number of LEDs and aluminum reflectors, optimum heat dissipation thanks to aluminum LED carriers. The small amount of heat generated is immediately diverted to the aluminum light head so that the total amount of heat generated remains minimal.

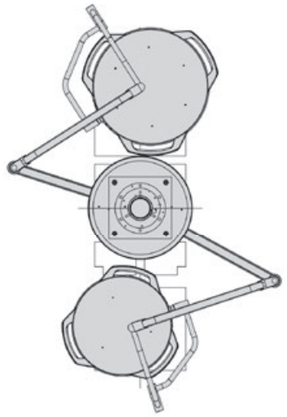
Light-resistant, scratch-proof SSG safety glass:

ensures optimal light transmittance over the lights' entire life cycle. This also provides you with ideal hygiene conditions.

Cardanic operation

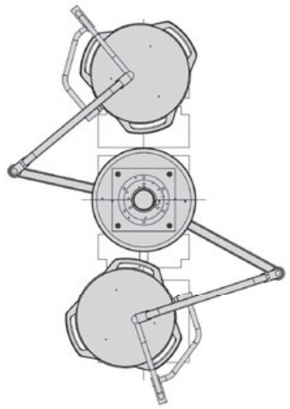
Light intensity, illuminated field size and color temperature – cardanic operation makes it all easy. The surgeon's preferred setting can easily be saved with the my.LED operating function and can be called up at the push of a button.

SIMEON BusinessLine –
Great Light, Great Value



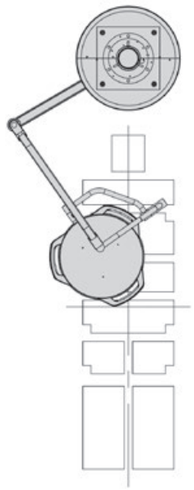
Surgery

A combination of the BusinessLine Sim. LED 700/500 is ideally suited for this application.



Emergency rooms

A combination of the BusinessLine Sim.LED 500/500 puts the surgical field in its true light.

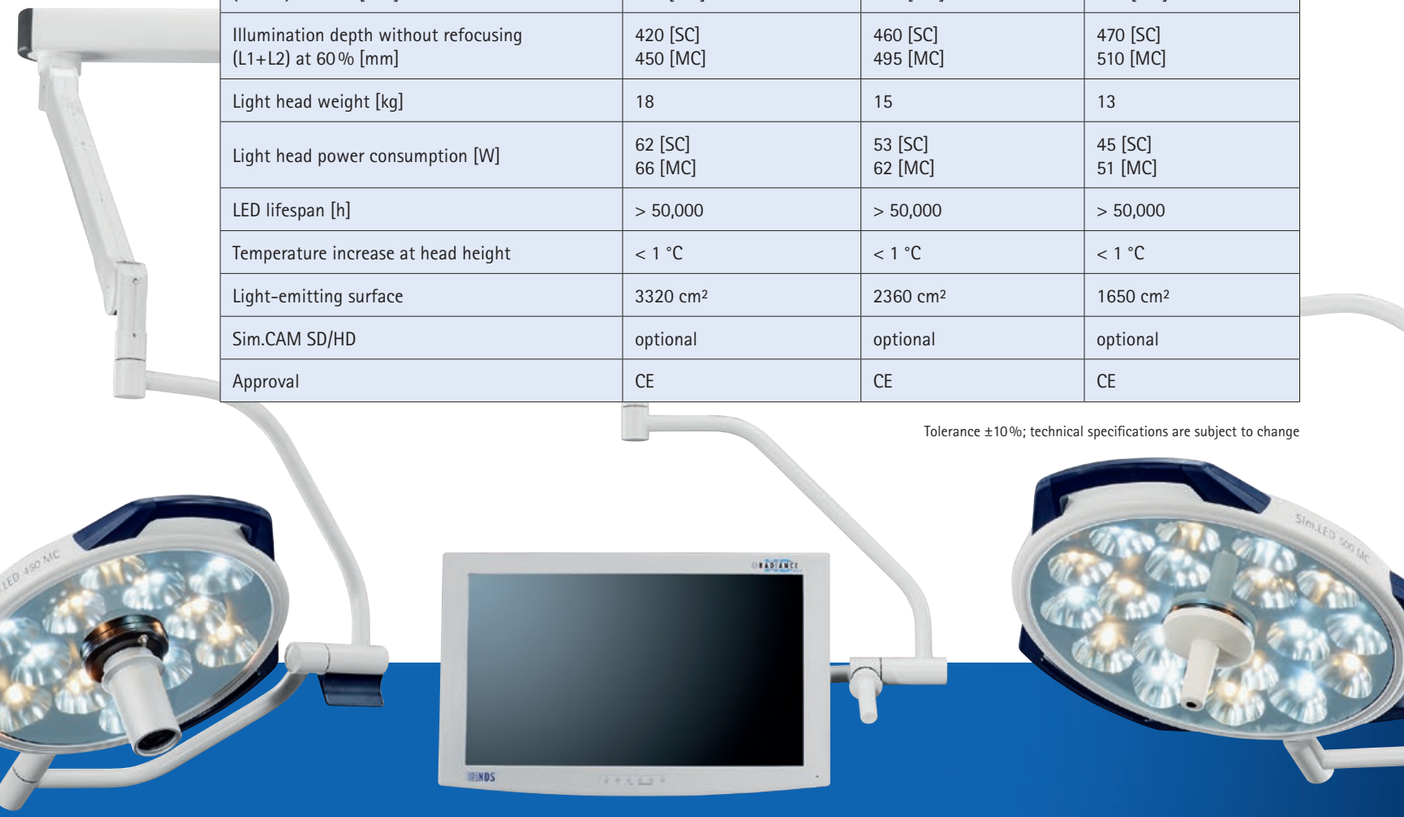


Induction

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

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 meter [lx]	160,000	140,000	120,000
Electrical dimmability from/to [lx]	48,000 – 160,000	42,000 – 140,000	36.000 – 120,000
Color temperature [K]	4,500 [SC] 3,500 – 5.500 [MC]	4,500 [SC] 3,500 – 5,500 [MC]	4,500 [SC] 3,500 – 5,500 [MC]
Field size d10 can be focused at a distance of 1 meter [mm]	180 – 300	180 – 290	160 – 250 [SC] 160 – 230 [MC]
Electrical 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]
Illumination depth without refocusing (L1+L2) at 20 % [mm]	875 [SC] 915 [MC]	930 [SC] 945 [MC]	975 [SC] 925 [MC]
Illumination depth without refocusing (L1+L2) at 60 % [mm]	420 [SC] 450 [MC]	460 [SC] 495 [MC]	470 [SC] 510 [MC]
Light head weight [kg]	18	15	13
Light head power consumption [W]	62 [SC] 66 [MC]	53 [SC] 62 [MC]	45 [SC] 51 [MC]
LED lifespan [h]	> 50,000	> 50,000	> 50,000
Temperature increase at head height	< 1 °C	< 1 °C	< 1 °C
Light-emitting surface	3320 cm²	2360 cm²	1650 cm²
Sim.CAM SD/HD	optional	optional	optional
Approval	CE	CE	CE

Tolerance ±10 %; technical specifications are subject to change



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

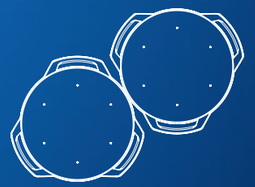
Sim.LED 450/450

Sim.LED 450/500

Sim.LED 500/500

Sim.LED 700/450

Sim.LED 700/500



Sim.LED 700/700

Secure flexibility for the future

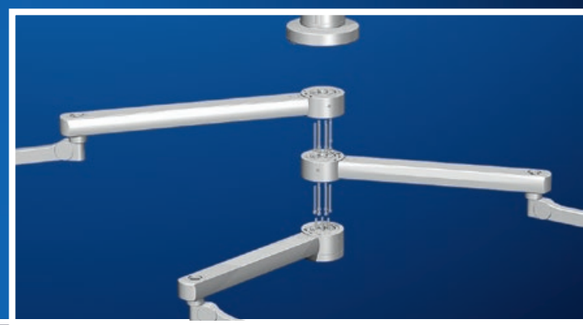
The best light and maximum freedom for planning and designing your OR – this makes it a forward-looking decision to choose a BusinessLine surgical light. After all, system solutions from SIMEON give you the greatest possible freedom in planning and security of supply for OR and intensive treatment.

Control

SIMEON BusinessLine surgical lights and connected peripheral devices such as cameras can be controlled simultaneously via wall control or directly on the light head.

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 Sim.FLEX allows you to expand by adding additional mounting arms at any time – even after installation.

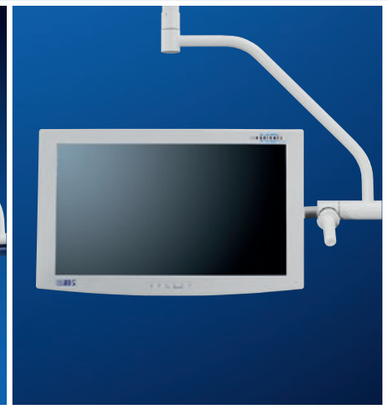


Sim.BIANCE

Sim.BIANCE ensures the ideal ambient lighting for endoscopic interventions.

Sim.CAM

Sim.CAM – its digital camera specifically developed for the OR delivers images in outstanding quality. Optionally available as an built-in or external camera with SD or full HD resolution.



Sim.SCREEN

The Sim.SCREEN monitor mount ideally positions all conventional monitors. Sim.SCREEN is also available as a double monitor mount. This way, you'll always have an exact view of the images from your camera.

Sim.STREAM

The perfect solution for trouble-free interactive teamwork between the OR, doctor's room, training rooms or external institutions. Sim.STREAM allows you to transmit a video signal to simultaneously several PCs over the network in outstanding HD quality with a resolution of 1920 x 1080 pixels. At the same time, the video signal and individual still images can easily be recorded on USB stick.

Sim.LED mobile lights

And of course you can take advantage of all the benefits of Sim.LED.