



ADMECO

SCHAKO Group

Advanced Medical Concepts



Surgical lights

SOL20

Operate with the best lighting and colour

SOL20 Surgical lights

Specially designed for use under LTF (low turbulence flow) outlets

The new SOL20 surgical lights offer distinctive and flow-permeable design, complex technology and playful and easy operation. They were specially developed for use under LTF outlets and provide optimal light and a high level of sterility in the operating theatre. Two core elements that significantly affect the success of an operation and the prevention of post-operative infections.



Touch display on projector



Wall panel

Maximum sterility due to flow transparency

Being forward-thinking also means being creative. With the compact design and fully-open structure, the SOL20 surgical lights can be integrated seamlessly and in a flow-transparent manner into the clean air technology of any operating theatre. The SOL20 is completely flowed through by the vertical flow from the most modern clean air ceilings and ensures maximum sterile air on the operating table without disruptive air draught.

- Flicker-free light
- Continuously adjustable colour temperature offers individuality
- Uncompromising performance - continuously adjustable
- Anti-reflective cover glass - the invisible protection
- Control panel on light head
- Impressively sharp and still homogenous
- Shadow-free light positioned compactly and effortlessly
- Camera with professional image quality
- Universal handgrip
- Ideal to clean and easy to maintain
- Modular retrofitting
- Variable configurations



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Touch display on light body



Wall panel



Flicker-free light

Even if you can't see the flicker directly, it can still cause substantial disruption to well-being and lead to headaches and eye pain. With their asynchronous, high-frequency light control, the SOL20 surgical lights prevent disruptive flickering and strobe or phantom row effects and even meet the most recent IEEE standards.

Continuously adjustable colour temperature offers individuality

The continuously adjustable colour temperature of the SOL20 allows adjustment to different requirements and various operating situations. Contrasts in tissue with a high or low blood supply are easier to see thanks to the optional colour temperature of 3300- 5500 K (CRI ≥97) and application spectra ranging from warm white to daylight white light open up new standards for all tissue structures.

Uncompromising performance - continuously adjustable

Light is one of the most important elements in the operating environment. Whether endolight mode (intensity <10%) or full brightness up to 160,000 lux- the continuously adjustable intensity suits every requirement and offers a fatigue-free and healthy work light.

Anti-reflective cover glass - the invisible protection

The anti-reflective coating on the cover glass guarantees even clearer light and undisturbed perception. The additional anti-reflective layer increases the light output to 98% and increases scratch and abrasion resistance.

Control panel on light head

The SOL20 offers a colour touch display on the light head as standard. All basic functions can be quickly and directly adjusted using the graphic, self-explanatory operator interface. All values can also be optionally adjusted using a wall panel.

Impressively sharp and still homogenous

The universal handgrip allows continuous focusing between 140 and 225 mm. Therefore, the SOL20 provides a convincingly uniform LED light field with high homogeneity and sharp contours.

Shadow-free light positioned compactly and effortlessly

The SOL20 can be easily swiveled to any angle using just one hand. It is compact, used right next to the surgeon's head and is hardly shaded- maximum light is reflected in the direction of the eye. The mobility on all sides is comparable to a ball head and gives the SOL20 a playful lightness.

Camera with professional image quality

Go one step further and optimally document your surgeries. With the optional integration of a camera in all SOL20 models, with the touch of a button you can document each surgery in FHD or more modern UHD or 4K quality for presentations and training.

Universal handgrip

Whether disposable or reusable: The universal handgrip can be sterilised over 100 times and is also suitable for all commercially available disposable covers and all applications. You can decide which type of sterilisation you prefer.

Ideal to clean and easy to maintain

All visually relevant components such as LEDs, drivers, optics, cover glass and seals are firmly integrated in the LED module and are very easy to clean and disinfect. The lights are splash-proof and dust-proof all around. Repairs and maintenance do not require special tools; status and error notifications on the display enable remote diagnostics.

Modular retrofitting

All SOL20 models are already prepared for future enhancements and options. This means a subsequent upgrade to the latest LED technology is possible at any time.

Variable configurations

SOL20 surgical lights can be configured individually as a single or double light, with or without monitor support arm. Combine them individually and get the right surgical light for all clinical applications.

Configurations

Model ¹ ceiling-hanging ²	Lux at 1 m	Number of projectors	Number of LEDs
SOL20-3	96,000	3	36
SOL20-4	128,000	4	48
SOL20-5	160,000	5	60
SOL20-3 + SOL20-3	96,000 + 96,000	6	72
SOL20-4 + SOL20-3	128,000 + 96,000	7	84
SOL20-4 + SOL20-4	128,000 + 128,000	8	96
SOL20-5 + SOL20-3	160,000 + 96,000	8	96
SOL20-5 + SOL20-4	160,000 + 128,000	9	108
SOL20-5 + SOL20-5	160,000 + 160,000	10	120

¹ Manufactured by SCANATRON. Exclusively available from ADMECO and ADMECO partners.

² All configurations also available with a monitor support arm system.

Technical data

	SOL20-3	SOL20-4	SOL20-5
Illuminance in lux, 1 m distance	96,000	128,000	160,000
Number of projectors per light	3	4	5
Air shielding surface in cm ²	282	351	420
Laminar flow index (Leenemann)	1.07	0.98	0.93
Weight per light in kg	4.5	5.3	6
Colour rendering index (CRI RA)	≥97		
Diameter of light field in cm, D50	14 – 22.5		
External diameter of the light in cm	38		
Diameter of the projectors in cm	8		
Service life of the lamps in hours	50,000		
Colour temperature continuously adjustable from	3300 - 5500 +/-200K		
Brightness continuously adjustable	Yes		
Focusable	Yes		
Asynchronous, high-frequency light control	Yes		
Anti-reflective cover glass	Yes		
Control panel on light head	Yes		
Camera provision possible	Yes		
Universal handgrip	Yes		
LED module change, upgrade possible	Yes		
Easy positioning	Yes		
Cardanic suspension	Yes		
CE conformity	Yes		

About us

ADMECO has been manufacturing pioneering products for the most modern operating theatres, recovery rooms and intensive care units at its Hochdorf site in Switzerland for around 40 years. Today, thousands of operating theatres around the world use at least one ADMECO system. As a traditional Swiss company, we are successful in the development, production and sale of high-quality and innovative devices and systems in the area of operating theatre ventilation technology, operating theatre lighting and operating theatre media supply. The modular ADMECO overall operating theatre concept AREA was designed with the aim of combining ventilation, lighting and media supply in such a way that patients are protected as much as possible during an operation. ADMECO is synonymous with Swiss high quality and is in demand worldwide. Today, the company is a 100% subsidiary of the SCHAKO Group but still operates as an independent company.



ADMECO AREA
OT room concepts



ADMECO AIR
Ventilation systems



ADMECO LUX
Surgical lights



ADMECO MED
Media supply bridges



Building & Industry



Pure competence in air.



ADMECO AG
Turbistrasse 17
CH-6280 Hochdorf
Switzerland

Tel.: +41 41 914 70 30
info@admeco.ch
www.admeco.ch