



SCHÖNN
Medizintechnik GmbH

SURGICAL OPERATING LAMPS



LED 700 / 500 / 200 Series



General features

SCHÖNN LED surgical operating lamps are produced with a classic round-type and clover-leaf shaped structure. Compared with the conventional halogen light technology, the heat radiation from the lamp heads is greatly reduced, minimizing the inconvenience of the operator and giving shadow-less illumination during surgical operation. Central sterilization handle enables to focus the light beam on the desired diameter of the light spot

SCHÖNN LED surgical operating lamps are able to maintain a consistent light intensity at distances of 70 cm to 150 cm in every kind of operation with a uniform light that can reach and illuminate various depth, clear and fully sufficient surgical area. SCHÖNN LED surgical operating lamps offer shadow-less illumination with single or dual ceiling, wall and stand mounting options.



SCHÖNN LED surgical operating lamps' switch box is controlled by LCD touch screen which do not move illuminating area with lamp head. The operator can control all the function of the lamps from the control panel.

Adjustable focus by central handle. Handle is also designed for quick assembly/disassembly and suitable for sterilization. SCHÖNN LED surgical operating lamp has several multiplexing controller in the same power which ensures that the failure of an individual LED does not affect the operation of the other LEDs during operation.

Eco-friendly LEDs give cooler and more comfortable lights with 1/3 reduced energy consumption when compared with halogen lights. LED not only helps to save energy and environmental protection, but also provides the excellent lighting for surgery, reduces the frequency of maintenance and repair with its excellent life-time.

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LED 700c integrated video system

SCHÖNN LED 700c lamp-head have an integrated video system as an option. High definition, ultra-dynamic camera system is centrally positioned in the lamp head. Therefore, it doesn't need readjustment depending on the distance between lamp head and wound area during operation. Camera system has an advance technology and features such as; optical zooming and automatic aperture, AWD, single/multiple image, real-time image preview, display switching, auto-saving, video playback, remote network transferring, video teaching and tele-consultation.

Cold light

The new LED technology is much more eco-friendly and effective than conventional light sources such as halogen bulbs. It doesn't generate additional temperature increase in the surgeon's head area during surgery.

Long life-time

The average life time of the new LED technology is 50.000 hours which reduces the running and service cost for the user when we compared it with the conventional lamp technology.

Flow properties

Computer-calculated CAD design helps to see the flow pattern of the new LED lamps in operation room which helps to create a better hygienic requirement for surgery and improve the flow performance around the lamp heads its reduced surface area.

Excellent illumination in depth

Maximum light intensity can be adjustable up to 160.000 Lux with colour temperature from 3.500 to 5.000 Kelvin for a lighting depth more than 1.400 mm. This enables an optimum illumination even for a small and deep wound area.

Shadow-less illumination

Each LED module has separately arranged optical systems to generate homogeneous light field, which increases the contrast effect of the lamp heads. In addition to this, computercalculated CAD design with multi-point LED source creates overlapping beams of light which virtually eliminates shadows from the surgeons working area.

Touch screen control panel

LED surgical lamp have touch screen control panel with each lamp head. Control panel has several light functions which are adjustable electronically; Power ON and OFF, Light Intensity (Lux), Colour Rendering Index (CRI) to see actual colour of the human tissue and Correlated Colour Temperature (CCT) a for determining spectral properties of a light source in digital photography and video options during surgical operation. The control panel of SCHÖNN LED lamps have "zoom in" and "zoom out" control buttons for integrated camera option to help surgeons during operation.



Start - up Menu



Control Menu

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Multiple combinations, multiple use

Whether as ceiling-mounted, floor or wall-mounted, Schön's operating lamps always provide you a maximum of mobility with the spring arms. This allows you a high degree of flexibility to do your job efficiently. Central Axes offer a number of combination options for the efficient utilization of space in the operating room.



LED 260 and LED 215 compact and mobile examination lamps

LED 260 and LED 215 are designed as examination/emergency surgical lamps. They can be ordered with 2 hours battery back-up on the mobile stand or without battery back-up.

Specifications of Movement Range

Movements	Movement Range		
	Floor Standing Lamp	Ceiling Mounted Lamp	Wall Mounted Lamp
Horizontal Arm rotates around Holder	—	360°	180°
Balance Arm rotates around Horizontal Arm	—	360°	180°
Pendant Arm rotates around Balance Arm	360°	360°	360°
Connecting Arm rotates around Pendant Arm	240°	240°	240°
Balance Arm moves vertically	40°	40°	40°
Lamp Body rotates around Connecting Arm	—	180°	—



Specification	LED700	LED500	LED740	LED730	LED260	LED215
Illumination Intensity (lx)	60000-160000	40000-80000	50000-120000	60000-140000	40000-60000	40000-60000
Color Temperature (k)	3500 - 5000	3500 - 5000	3500 - 5000	3500- 5000	3500- 5000	3500- 5000
Chromogenic Index	85-98	85-98	85-98	85-98	≥ 90	≥ 90
Ratio of radiation illumination (mW/m²lux)	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
Diameter of Light Spot (mm)	120-350	120-350	120-350	120-350	150	150
Illumination Depth (mm)	700-1500	700-1500	700-1500	700-1500	500	500
Power (w)	120	54	80	60	20	12
Working life (h)	>50000	>50000	>50000	>50000	>50000	>50000

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