

Next Generation LED

LEDs ready to make a difference

Sturdy's next generation COOLED surgical lights provide exciting improvements in LED technology, pioneering the way for LED proliferation in the Surgical Light market.

Next-Gen LED Real Cost Savings

These products use less bulbs per lighthead (36) than many other brands by improving light focus efficiency, using precision reflection mirrors behind each bulb. Additionally, each lamp uses a power-saving circuit design that can distribute power more equitably and efficiently throughout all of the bulbs. In effect, LED lighting CAN save on costs compared to Halogen lighting.

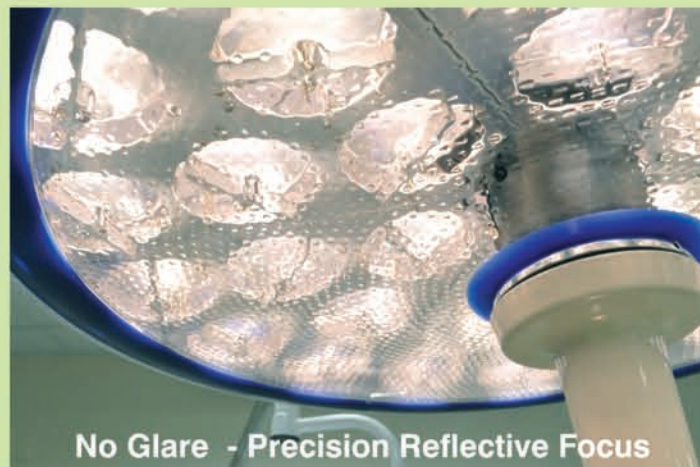
Next-Gen LED True Colors

With the advancement of LED technology in recent years, Sturdy LED light systems can take advantage of improved Color representation (Rendering Index, Color Temperature) and Illumination, finally providing surgeons with true LED performance to live up to specifications and LED expectations. (see specifications on following pages)

Absolutely No Glare

Precision reflective mirroring techniques

Sturdy uses precision reflective mirroring techniques to accurately focus LED light onto the surgical theater, avoiding direct light interference with the surgeon's line of sight. The reduction of shadow and glare are two of the outstanding advantages of Sturdy LED lighting systems.



No Glare - Precision Reflective Focus

Sterile Handle



- Adjustable focus
- Easily removable
- Autoclaveable

Triple-Head LED Light System



Light Intensity Knob



- Convenient
- Accessible
- Graduated Knob

Modular design - EZ maintenance



Lighthead with lens cover removed.

New Design for Max Heat Dissipation

The LED bulbs are used with a proprietary panel frame design, made from heat-conducting aluminum metal, which absorbs heat from the bulbs, dispersing it onto the wide surface area of the frame, ensuring optimal heat dissipation.

COOLED Surgical Lights

LED COOLED



COOLED Surgical Lights

LED Surgical Lights

The Sturdy LED Surgical Lights include three outstanding LED Light Systems.

SLJ Series - Standard

Standard design model

SLK Series - Modern

New design model

SLH Series - Mini-Lighthead

Smaller lighthead for space-limited applications



COOLED Surgical Light Features

- Internationally patented high efficiency reflecting LED - No Glare.
- High Color Rendering Index
- Color temperature is optimized at 4300°K (3800°K optional) to ensure optimal clarity in the operating field.
- Adjustable Microsurgery lighting mode in SLJ, SLK Series
- True environment friendly "Green" lighting. SLJ, SLK Series delivers 160,000 Lux at a maximum of 36W. SLH Series delivers 70,000 Lux at 18W.
- Focal lengths from 60-180 cm
- Universal medical grade power supply
- Smooth easy-to-clean non-aging aluminum lighthead cover
- Polycarbonate lens cover has embedded 4,760 convex lens in SLJ, SLK Series, 1,600 in SLH Series.
- Optional UPS, Video Camera and Monitor systems

SLJ Series (LED)

SLJ-100C
(single lighthead)



Optional UPS : SLJ-100CB

SLJ-101C
(dual lighthead)



Optional UPS : SLJ-101CB

SLJ-100M
(mobile)



Optional UPS : SLJ-100MB

SLJ-111C
(triple lighthead)



SLJ-100W
(wallmounted)



Optional UPS : SLJ-100WB

SLK Series (LED)

SLK-100C
(single lighthead)

Ceiling Mounted



Optional UPS : SLK-100CB



Ceiling Mounted

SLK-101C
(dual lighthead)

Optional UPS : SLK-101CB

SLK-111C
(triple lighthead)

Ceiling Mounted



SLH Series (LED)

Ceiling Mounted

SLH-100C
(single lighthead)



Optional UPS : SLH-100CB

Ceiling Mounted

SLH-101C
(dual lighthead)



Optional UPS : SLH-101CB

SLH-100W
(wallmount)



Optional UPS : SLH-100WB

COOLED Comparison Chart	SLK & SLJ	SLH
Lighthead Diameter	62 cm	30 cm
Articulation Radius	170/183/198 cm	163 cm
Lighthead Adjustment	105 cm	105 cm
Illumination Mode	Reflection LED	Reflection LED
Central Illuminance/1M/Lighthead	0-160,000 Lux	0-70,000 Lux
MIS (ENDO Light)	0-28,000 Lux	NA
Color Temperature	4300°K ± 300	4300°K ± 300
Color Rendering Index	92 ± 4	92 ± 4
Focusable Lighthead Height	60 cm-180 cm	50 cm-180 cm
Depth of Light	60 cm	80 cm
Depth of Illumination (L1+L2)	110 cm	130 cm
Light Field Diameter	15-27 cm	12-20 cm
LED Quantity bulbs/lighthead	36 bulbs	7 bulbs
LED bulb Life	50,000 hrs	50,000 hrs
Heat to Light Ratio	2.6 mw/m ² Lux	2.6 mw/m ² Lux
Maximum Power	36W at 160,000 Lux/1m	18W at 70,000 Lux/1m
Power Supply	AC100-240V	AC100-240V



SLH-100M
(mobile)

Optional UPS :
SLH-100MB