Operating Theatre Light

SL400

LED

SL400 LED

The **DARAY**® SL400 LED Operating Theatre Light has been designed to provide a high intense beam with excellent shadow dilution and accurate colour rendering.

The SL400 LED is available in either wall, ceiling or mobile, dual or single arm, and there is also a Halogen version.

The SL400 has a smooth, fully enclosed head to aid in the management of infection control. A spring balanced arm makes positioning extremely easy, providing a precise and stable beam.

Features include: variable intensity, focusable beam and a digital control panel. The SL400 LED is an extremely cost effective lighting solution that meets the needs of a demanding operating theatre.

ABOUT DARAY

DARAY have been established in the medical, dental and veterinary markets since 1968 building exceptional and durable products.

We shall continue to innovate; aiming to excel in our endeavours to deliver reliable solutions.

MADE IN BRITAIN

www.daray.com
Tel: 0800 804 8384 Email: info@daray.co.uk
Marquis Drive, Moira, Swadlincote DE12 6EJ

SL400 LED

Minimal laminar-flow interference

The fully sealed light head has been aerodynamically designed to minimise turbulence of laminar-flow sterilisation and purification systems.

Digital control panel

A conveniently placed panel contains on/off controls, a power on indicator, bulb-failure alarms and variable output intensity controls.

Variable focus

The removable, autoclaveable light-head steering handle doubles as a twist-grip focussing control.

Finely-balanced suspension arms

Multi-jointed, spring-balanced suspension mechanisms permit accurate and stable positioning of the light patch. The arms on ceiling-mounted lights all rotate through 360°.

Video systems and back-up power supplies

CCTV cameras and monitors are available as options on most models, as are wall-mounted battery back-up power supplies.

Light patch illustration

Product features

- Digital control panel
- Cool and comfortable beam
- Lightweight and slim light head for excellent laminar flow
- Focusable beams
- Excellent shadow reduction
- Low 'total cost of ownership'
- 4,300k colour temperature
- Multi-lens geometry lighting system
- Integrated camera options available
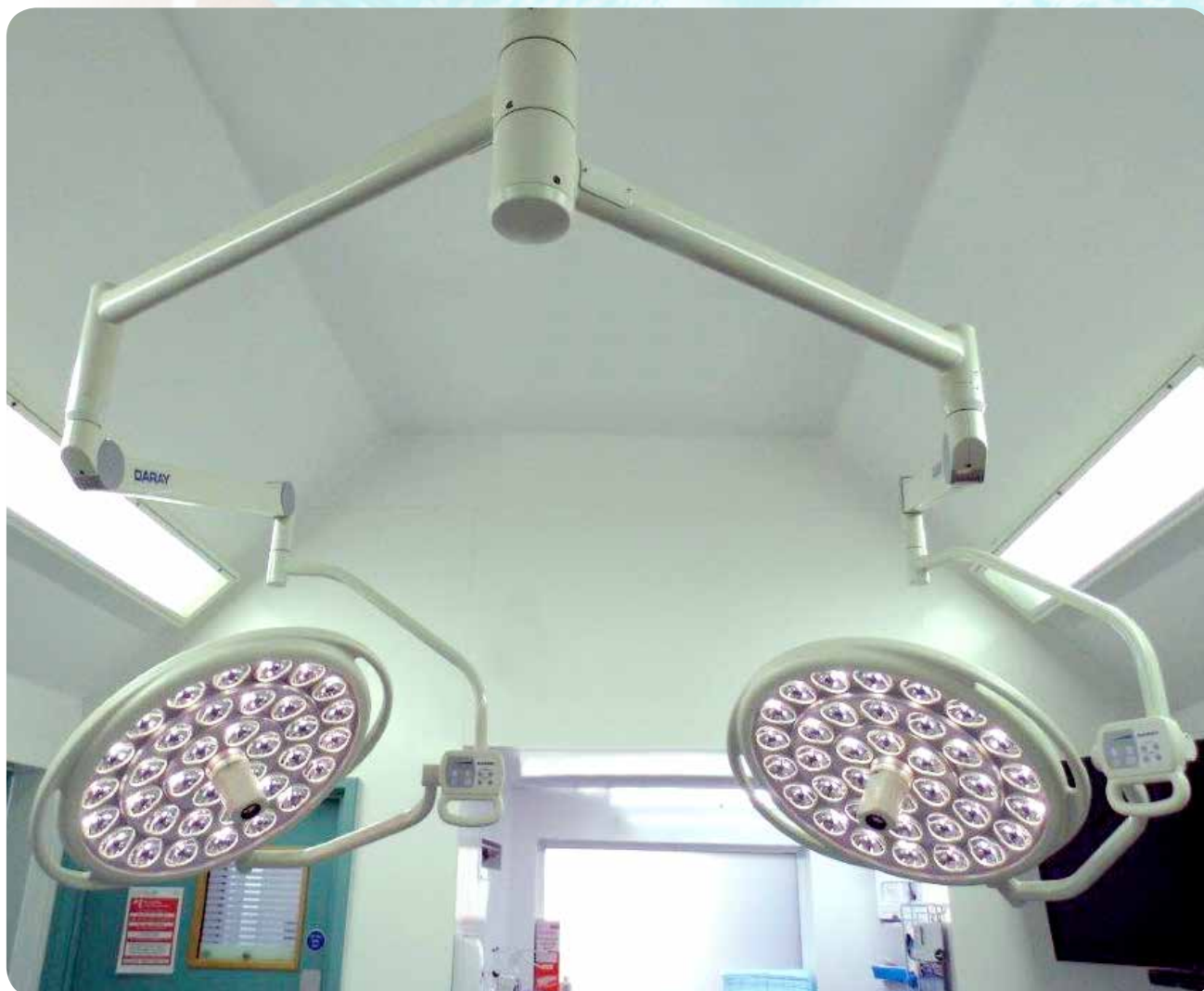- Available in ceiling, wall and mobile mountings

Environmentally friendly features

- Low energy consumption - Costs up to 75% less to run than halogen
- 50,000 hours of life from the LED light engine
- No more bulbs to change - reduces waste by 95% over the light's lifetime
- No halogen, mercury, cadmium, lead or CFCs. No chemicals harmful to the environment.
- NviroLED has an intense clear white light beam equivalent to 150W halogen whilst consuming just 15W.

nviroLED
the future of lighting

DARAY® Medical

Committed to excellence

SL470/470LC with HD cameras

Selective illumination

SL450LM with battery backup

SL450LW

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SL400 LED HD Camera

HD Camera

LED module

Control panel

HD camera lens

The new SL400 HD camera system features:

3.3 Mega Pixel Quality with Fantastic 20x Optical Enlargement

1080p/1080i Resolution with a high contrast ratio of 800:01:00

The system also has a long coaxial cable, giving you the flexibility to choose your preferred display location

Designed for the medical environment the camera is capable of outputting 262K true colour features and can be adjusted on the fly using the arm mounted control panel allowing the camera to be adjusted as necessary during any operation.

HD Camera Features:

- 1.8v FPGA processor with a 2 GB p/s Transmission Rate
- 20x Optical Enlargement
- 3.3 Mega Pixel Quality
- Image Sensor: 1/2.8 CMOS
- Adopts Sony VISCA and PELCO Protocols
- Horizontal Resolution: 1080p / 1080i
- F = 1.6-3.5, f3.5-85
- Horizontal viewing angle: 3.5 – 55.4
- View Angle (H/V): 160/160

- Minimum Object Distance: 5mm
- Dot pitch (H*V): 0.297*0.297
- Contrast Ratio: 800:01:00
- Video Signal Output: HD-SDI, YUV, HDMI, DVI
- Minimum Illumination: 0.04 Lux / ICR
- SNR: 50db
- Operating Temperature: 0-40°C
- Response Time: <8ms
- Digital Input: SDI
- Power Input: 12v DC

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SL400 LED Specifications

SL400LED Low Ceiling Edition

*Note, for camera equipped versions joint rotation is reduced

SL400LED Dual Arm Ceiling Edition

*Note, for camera equipped versions joint rotation is reduced

SL450

SL470

SL470

SL450

SL400 LED Specifications

Specifications - SL400 LED

Model	SL450L	SL470L
Diameter of light head	500mm	700mm
Luminance (Lux) @ 1m	120,000 lux	160,000lux
Colour Temperature (Kelvin)	4300 ± 500k	4300 ± 500k
Light Field Diameter (mm)	120 - 350mm	120 - 350mm
Colour Render Index (Ra)	95	95
Colour Render Index (R9)	97	97
Temperature Raise Upon Surgeon	≤2°C	≤2°C
Power Supply (V/HZ)	230V 50Hz	230V 50Hz
Number of LEDs	54	108
Installation height (Bespoke options available)	Standard: 2.7m - 3.1m	
	low ceiling: 2.4 - 2.7m	

Order Codes - SL400 LED Series

SL470/450LC	LED ceiling mounted operating theatre light (dual head 700/500mm) 160,000/120,000 lux
SL470/470LC	LED ceiling mounted operating theatre light (dual head 700/700mm) 160,000/160,000 lux
SL450/450LC	LED ceiling mounted operating theatre light (dual head 500/500mm) 120,000/120,000 lux
SL470LC	LED ceiling mounted operating theatre light (single head 700mm) 160,000 lux
SL450LC	LED ceiling mounted operating theatre light (single head 500mm) 120,000 lux
SL470LM	LED mobile operating theatre light (single head 500mm) uprated to 160,000 lux
SL450LM	LED mobile operating theatre light (single head 500mm) 120,000 lux
SL470LW	LED wall mounted operating theatre light (single head 700mm) 160,000 lux
SL450LW	LED wall mounted operating theatre light (single head 500mm) 120,000 lux

Complies with BS EN 60601-2-41

SGS ISO 9001   SGS ISO 13485   UKAS MANAGEMENT SYSTEMS 0005   CE

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