

S7
SERIES

Product Datasheet

DARAY[®] | S7
Medical

S780 LED Operating Light



Introduction

The latest addition to our S7 Series, the all-new S780 is our most powerful and feature-packed light yet. Designed for use in all types of surgical procedure, delivering up to 180,000 Lux of colour-adjustable light to provide the ultimate surgical experience.

With adjustable light intensity and colour temperature, and an impressive field of light, all controlled with an intuitive and user-friendly interface, our S780 is setting a new standard for Operating Room lights.

Our S780 model is available with a wide array of mounting options to suit the design of your OR facilities. Available in both single and dual-head options, you can mount our light to the ceiling, to the wall, or even have it freestanding on a mobile base - especially useful when the light is a shared resource across departments.

Standard Features

- World-renowned LED technology
- Variable intensity up to 180,000 Lux
- Variable colour temperature
- Spring balanced arm system for versatile movement and solid positioning
- Excellent colour rendering - for totally natural skin tones
- A strong beam of light with an even intensity across the entire area for clearer viewing and reduced eye strain
- Fully positionable light head, featuring a digital control panel
- Energy-efficient, environmentally friendly, and a fully recyclable product

Available Options

| | |
|--|--|
| S780LC | DARAY S780 Ceiling Mounted LED Operating Theatre Light |
| S780LW | DARAY S780 Wall Mounted LED Operating Theatre Light |
| S780LM | DARAY S780 Mobile LED Operating Theatre Light |
| S780/780LC | DARAY S780/780 Ceiling Mounted LED Operating Theatre Light (Dual Head) |
| S7CTRL | S7 Wireless Touchscreen Controller for Wall/Surgeons Panel - for S780 model (one per head) |
| Bespoke solutions available, please call. Options include HD Cameras, Monitors, additional arms, and more. | |

Technical Specifications

| | | |
|---------------------------------------|--|----------------------------|
| Light Source | LED | |
| Light Intensity (Lux) @ 1.0m | 180,000 Lux \pm 5% | |
| Light Intensity Adjustment Range | 1% - 100% | |
| Colour Temperature (Kelvin) | 3,800K - 5,000K (\pm 500K) - 3 stages | |
| Colour Rendering Index (CRI) | \geq 97 | |
| Colour Rendering (R9) | \geq 95 | |
| Light Field Diameter (D50) | @ 0.75m: 310mm | |
| | @ 1.0m: 290mm | |
| Light Field Diameter (D10) | @ 0.75m: 380mm | |
| | @ 1.0m: 410mm | |
| Number of LED's | 108 | |
| Depth of Illumination (L1+L2M, Ec60%) | 840mm | |
| Power Consumption | 72W 0.34A | |
| Average Working Life | >40,000 Hours | |
| Input Supply Rating | 100 - 240V AC 50/60 Hz | |
| Output Supply Rating | 24V DC | |
| Inrush Current | 20A | |
| Diameter of Light Head | 730mm | |
| Recommended Mounting Height | Wall version: 2m - 2.3m | Ceiling version: 2.7m - 3m |
| Temperature Rise on Patient/User | \leq 2°C | |
| Warranty Period | 3 Years | |
| NHS E-Class Code | FBU, FKR | |
| Commodity Code | 9018 908400 | |
| GMDN Code | 12276 | |

Notes

The crisp, uniform beam of light utilises a total of 108 separate LED's to pool light from multiple angles, providing crucial shadow reduction. You can expect more than 40,000 hours of life from the LED light engine, keeping your OR functioning without interruption for many, many years.

Energy-efficiency plays a huge part in every product we manufacture, as we aim to offer our customers massive energy savings over the lifetime of the product, costing up to 75% less to run than equivalent halogen lights. LED's provide no heat in the beam, they are cool to the touch and their durability require almost no maintenance over the lifetime.

Medical Approvals/Certificates

The product(s) on this datasheet adhere to the current version of the following standards.

EN 13485:2016

EN 14971:2012

EN 9001:2015

EN 60601-1:2006+A12:2014

2014/35/EU Low Voltage Directive

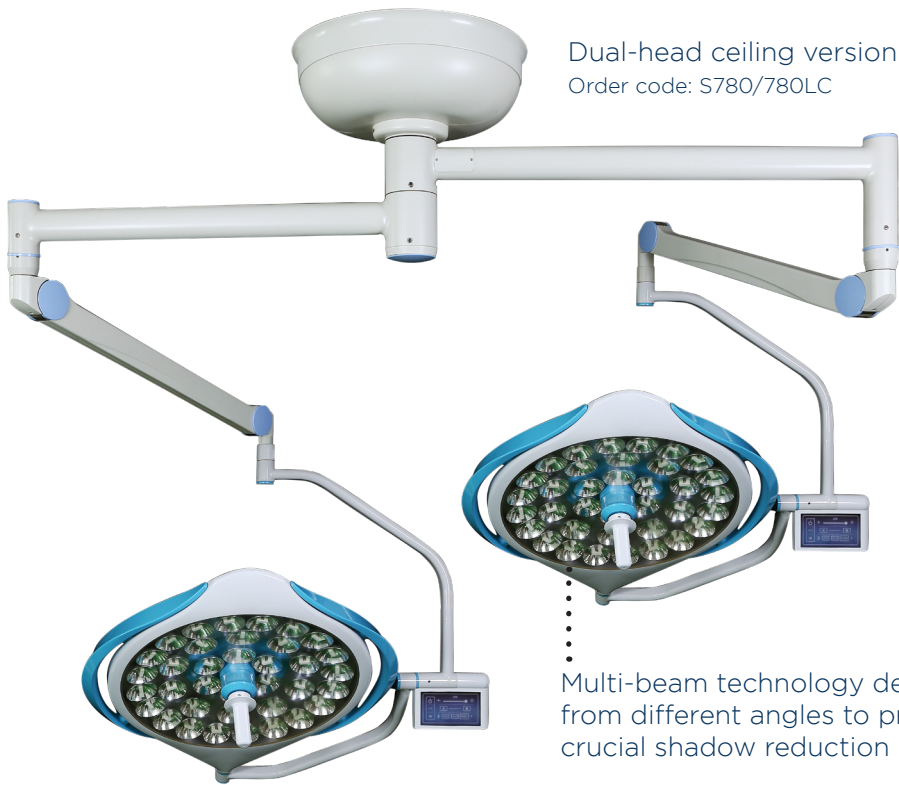
EN 60601-1-2:2015

EN 60601-2-41:2009+A1:2015

EN 15223-1:2016

EN 1041:2008+A1:2013

Image Gallery



Dual-head ceiling version
Order code: S780/780LC



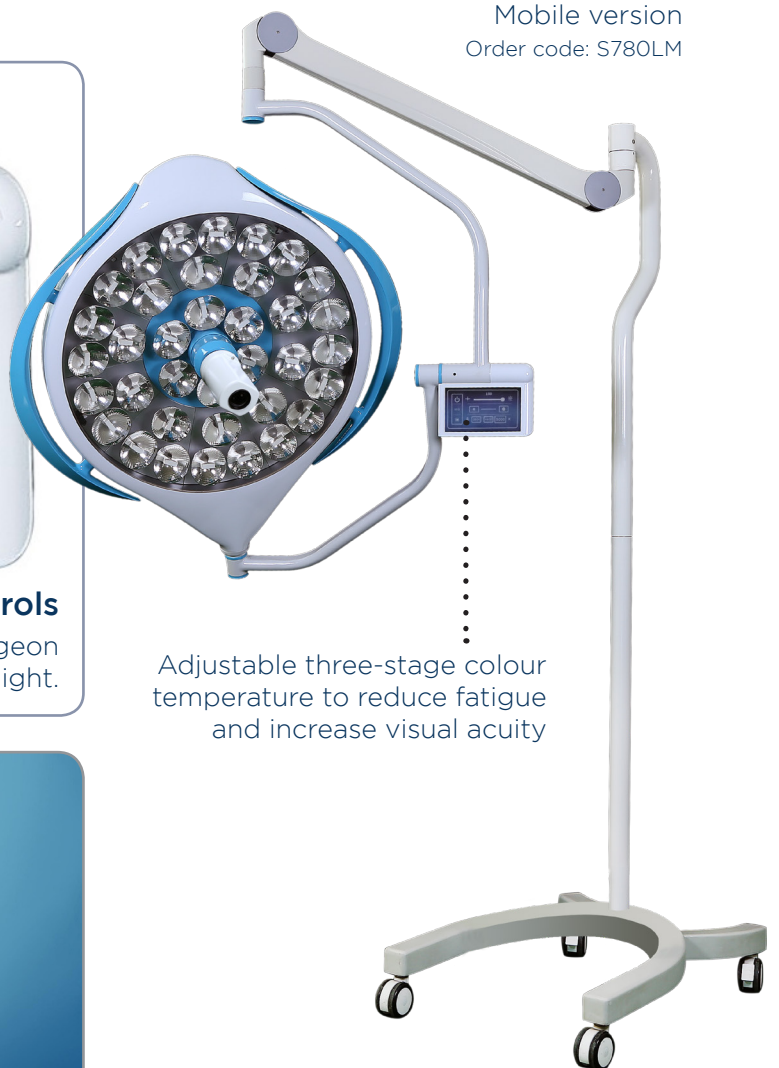
High-performance light
With a greater depth of field providing a crisp, uniform beam

Multi-beam technology delivering light from different angles to provide crucial shadow reduction



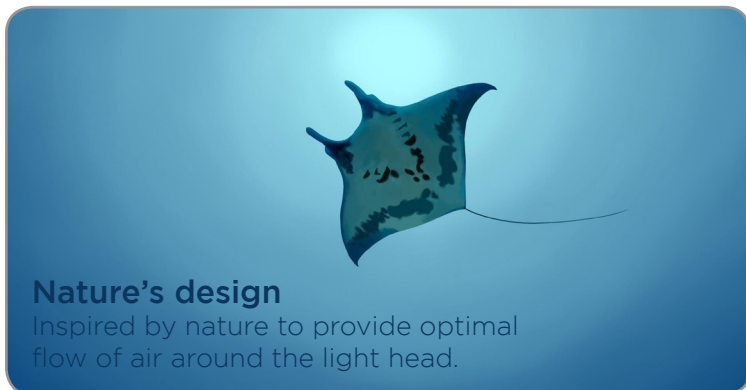
Intuitive controls

Located within easy reach of the surgeon for controlling all features of the light.



Mobile version
Order code: S780LM

Adjustable three-stage colour temperature to reduce fatigue and increase visual acuity

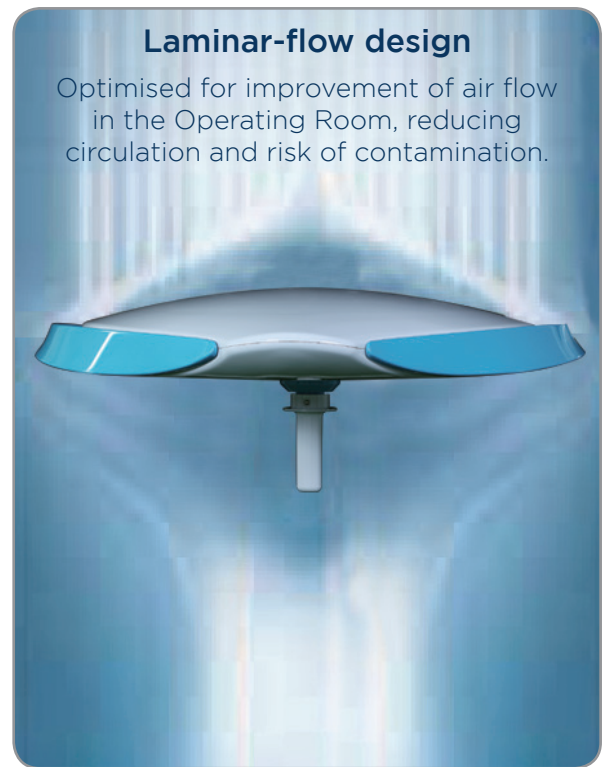


Nature's design

Inspired by nature to provide optimal flow of air around the light head.

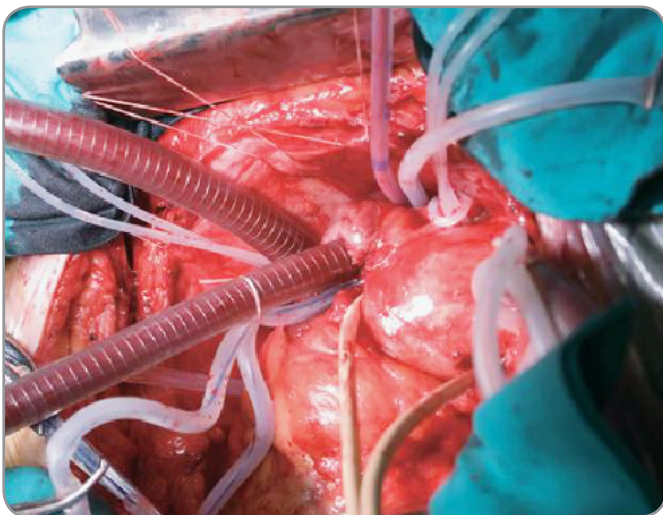
Battery back-up options available for all versions.

Image Gallery continued..



Superior colour rendering

S780 model offers optimal viewing of tissue tones and deep reds with an R9 value in excess of 95.



Dual cardanic arm system for ultimate maneuverability



Warranty

Our aftercare plan has been designed to offer complete piece of mind for the entire warranty period, during which time you will have access to our dedicated Service Delivery Team, who are here to assist you in any way they can.

Year 1 - Parts & Labour (return to base)
Years 2-3 - Parts only