



Surgical Lamp
GLEAM 500

Precision starts with visibility.



Call Us
+1 786 266-7795



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hosmed-inc.com



High-Performance Surgical Illumination System

The Hosmed Gleam 500 is a compact yet high-performance surgical lamp, ideal for operating rooms and specialized surgical suites. Equipped with OSRAM LED technology, it delivers precise illumination, superior depth, and accurate tissue color rendering, while minimizing heat generation and energy consumption.

Temperature rise (surgical field) $\leq 1^{\circ}\text{C}$



Temperature rise (surgical field)

With a temperature rise at the surgical field of $\leq 1^{\circ}\text{C}$ this 'cold light' technology prevents tissue dehydration and protects against the rapid drying of blood at the wound site, ensuring optimal conditions for delicate procedures."

Operating handle

The centrally mounted sterilization handle is fully detachable and engineered to withstand temperatures exceeding 134°C and pressures of at least 205.8 kPa. This allows for convenient and reliable high-temperature, high-pressure steam autoclaving.

Color rendering index

With a Color Rendering Index (CRI) ranging from 85 to 98, this system provides exceptional color fidelity, accurately representing the true appearance of human tissue. This precision is ideal for a wide variety of surgical procedures and significantly reduces eye strain for medical staff during extended operations."

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Feature and Highlights

Technical parameters

- Lamp Head Diameter: 500 mm.
- Illumination Intensity (at 1 m): 180,000 Lux.
- Brightness Control: Stepless, 0–100%.
- Color Temperature: Adjustable 3700–5500 K.
- Color Rendering Index (CRI): ≥ 95 , ensuring natural tissue visualization.
- Temperature Rise: ≤ 1 °C at surgeon's head and surgical field.
- Total Irradiance: ≤ 600 W/m², maintaining safe thermal levels.
- Lighting Spot Size: 16–28 cm adjustable.
- Depth of Illumination (L1 + L2): ≥ 130 cm.
- Endoscopic Lighting Mode: One-touch switch for minimally invasive procedures.
- Cavity Mirror Mode: Quick conversion for deep-cavity illumination.
- LED Source: High-efficiency OSRAM LEDs (Germany).
 - Quantity: 48 bulbs.
 - Power per Bulb: 1 W.
 - Average Lifespan: $\geq 80,000$ hours (40× halogen life).
- Construction: High-grade aluminum alloy with antibacterial powder coating.
- Cooling System: Integrated radiator for effective heat dissipation.
- Operating Handle: Detachable, resistant to >134 °C and >205.8 kPa, fully autoclave sterilizable.
- Energy Efficiency: Consumes half the energy of halogen and one-tenth of incandescent lamps.



Material technology

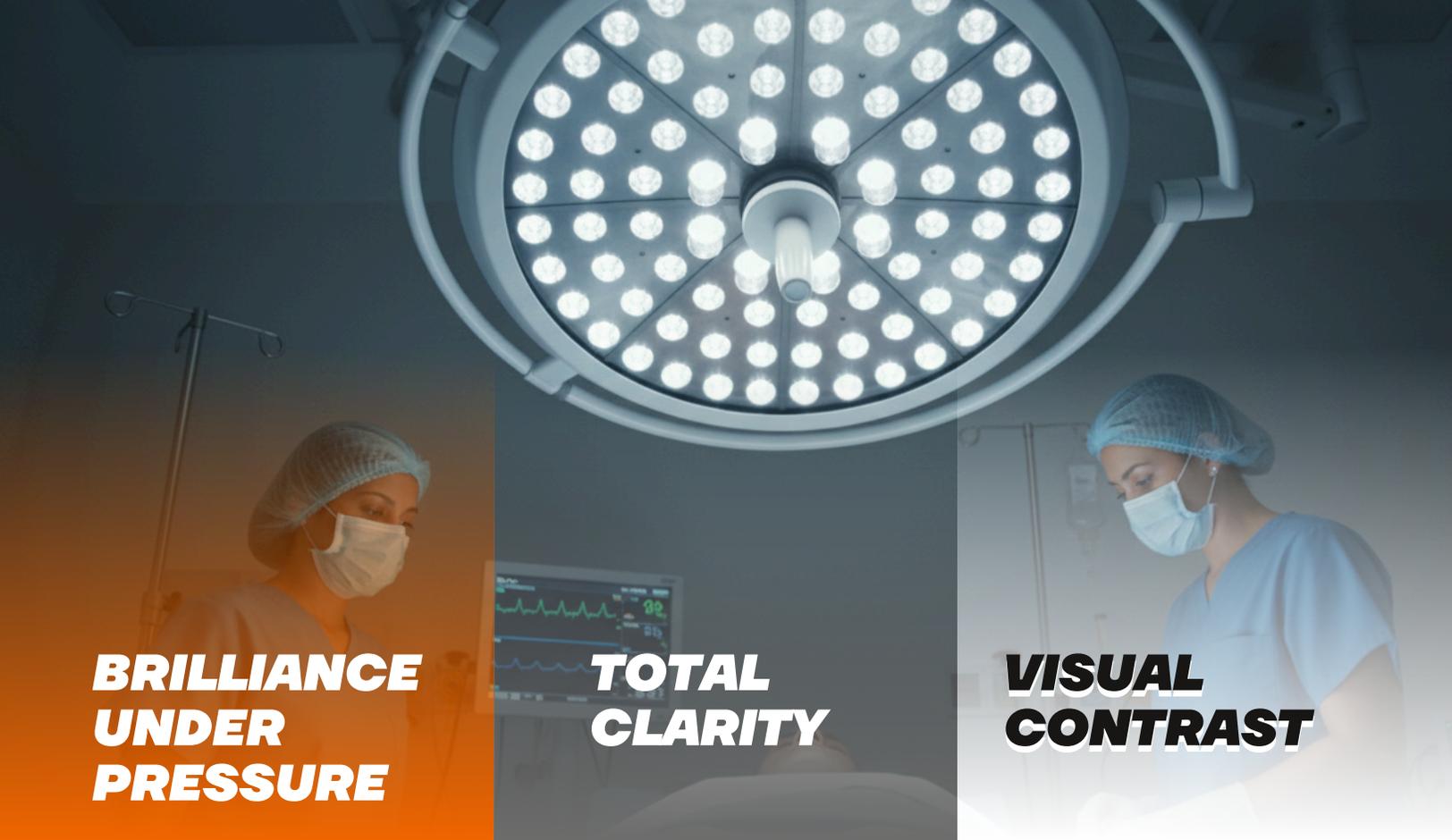
The lamp housing is crafted from high-grade aluminum alloy with a high-voltage electrostatic spray finish. We utilize premium, eco-friendly antibacterial powder coatings to ensure the product strictly adheres to surgical hygiene standards."



Bulb

Utilizing original German-imported Osram LED beads, the system achieves a rated lifespan of 80,000 hours, outlasting halogen lamps by a factor of 40. Furthermore, the LEDs are highly energy-efficient, requiring just 10% of the power used by incandescent bulbs and 50% of that used by halogen lamps to maintain the same illuminance."

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**BRILLIANCE
UNDER
PRESSURE**

**TOTAL
CLARITY**

**VISUAL
CONTRAST**

Technical Specifications

- Voltage: AC 100–240 V, 50/60 Hz.
- Bulb Life Expectancy: $\geq 80,000$ hours.
- Illumination Control: Stepless dimming with ergonomic handling.
- Design: Shadow-free illumination with sterilizable accessories.

Clinical Benefits

- Compact dome size for flexibility in smaller ORs.
- CRI ≥ 95 for precise tissue differentiation.
- Low heat emission avoids tissue drying and enhances surgeon comfort.
- Endoscopic and cavity modes for versatile surgical applications.
- Long-life OSRAM LED bulbs reduce maintenance and costs.

Clinical Application

The Gleam 500 operating lamp is suitable for:

- General surgery
- Abdominal procedures
- Brain and chest surgeries
- Gynecology and side-lighting operations

Control System

The Gleam 500 features a microcomputer digital control system allowing:

- Continuous illumination adjustment (1–100%)
- Independent color temperature adjustment
- Built-in memory function for lighting settings

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**THE FUTURE
OF PRECISION**





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