LUCEA 10, 40, 50, 100
DESIGN AND EFFICIENCY
FROM EXAMINATION TO SURGICAL LIGHTING
A pledge to life: MAQUET is among the world’s leading vendors of forward-looking medical technology for operating rooms and intensive care units. Whether Surgical Workplaces, Cardiovascular or Critical Care - MAQUET always puts the needs of staff and patients in the foreground during product development work. And thus MAQUET satisfies the even more exacting demands made on the modern hospital - demands for safety, efficiency and economy.

Bringing expertise in surgical lighting, ceiling service units and multimedia solutions, MAQUET defines the highest standards, quality and innovation throughout the industry for the benefit of patients and the medical staff. MAQUET surgical lights are known as the world’s leading design and innovation. Combined with the extensive line of ceiling supply units, MAQUET provides the most comprehensive solutions for various areas in the hospital.

With LUCEA LED, MAQUET offers all medical specialists, i.e. family practitioners, dentists, dermatologists, gynaecologists, veterinarians, as well as hospital sites, a light providing them autonomy, freedom, reliability and a small environmental footprint.

LUCEA 10, 40, 50 & 100 RANGE
GENESIS OF AN IDEA

Break with the past and its rounded forms, propose an innovative design that can facilitate everyday use by medical professionals and surgical teams, this was the leitmotif set by MAQUET’s design team. The traditional cupola-shaped lighthead has given way to more angular lines, with the transparency of certain materials signifying purity. A triangular shape combined with an ergonomic handle to easily direct the light towards a wound or surgical site. The use of lightweight PMMA parts ensures total manoeuvrability.

In creating LUCEA LED, MAQUET has applied its light and optics expertise to create a radically different shape, yet guarantee a perfectly round light field. Its unique design favours an optimal position of the lighthead, guaranteeing maximal light output and excellent shadow dilution.
LUCEA 10, 40, 50 & 100 SERIES
FOR EVERY DAY PRACTICE

High quality equipment: As an optical expert, MAQUET has selected a well-balanced type of LED between light efficiency and reliability.
- Uniform and concentrated light patch to meet all specific requirements:
  from 50,000 lux at 50 cm for LUCEA 10 to 100,000 lux at 1 meter for LUCEA 100.
- Choice of white LEDs type and design of a unique light guide “HECOL”:
  eliminates cast shadows and avoids colored shadows.
- Better tissue differentiation (superficial and deep structure):
  colour rendering index fixed at 95.
- No heat dissipation for greater patient comfort and safety

Autonomy:
- No bulb replacement and LED life time up to 50,000 hours for LUCEA 50 & 100:
  lower cost of ownership
- No need for maintenance: always available
- Allows a total concentration on the medical task
- Versatile solution to suit any medical environment
- Closed light head, smooth surface for perfect hygiene
- Up to 8 hours autonomy in battery mode for LUCEA 100 mobile version

Freedom:
- Arrow shape design for better wound targeting
- Easy to manoeuvre: the handle is directed towards the wound for accurate positioning, wherever the surgical zone is located
- Patented ergodisc spring arm (LUCEA 40, 50 & 100):
  ensures perfect stability of the lighthead during procedures
- Improved working conditions: the great volume of light allow the surgical staff to work without moving the lighthead
- Perfect coverage of the different type of patients: neonates, children, adults

A green product: for a small environmental footprint.
- The LUCEA series contains only environmental friendly products
- It is composed of 80% recyclable material
- Curved and smooth sleek surface minimizing use of detergents and cleaning solution
- Optimized, compact and ecological packaging to reduce waste
- Low energy consumption: 1/3 less than conventional halogen system
The LUCEA 10 light delivers 50,000 lux at 50 cm, providing ideal illumination for all medical specialities. With faithful colour rendering (CRI 95), the LUCEA 10 is particularly well suited for dermatology. The use of LEDs ensures that the light does not give off heat; this quality is highly desired by phlebologists for distinguishing between healthy and varicose veins.

With rail-mounted, desktop and mobile versions available, LUCEA 10 is suitable for all work environments. To make practitioners’ everyday tasks easier and avoid maintenance problems, the LUCEA 10 uses LEDs which have a considerably longer service life than halogen bulbs, leaving practitioners free to devote all their time to patients.
Designed for hospital induction, shock treatment and recovery rooms, the LUCEA 40 offers an illumination of 40,000 lux. Its 26 LEDs achieve far higher shadow dilution than other lights in its category.

As well as mobile lights, LUCEA 40 lights are available in ceiling and wall-mounted versions which free the floor space and facilitate cleaning. Having a design with no openings also contributes to improved hygiene.

The LUCEA 40 is also designed to comply with the most stringent medical standards (IEC, UL, etc.)
LUCEA 50 & 100 surgical lights have been developed in order to provide any operating room with LED technology. Their innovative design combined with a functional shape offers an efficient product to the surgical staff. To fulfill the needs of all users, LUCEA 50 & 100 are available in mobile, wall and ceiling-mounted versions as well as a battery operated version. Designed for minor surgery, LUCEA 50 & 100 provide high quality illumination through LED technology without any compromises on the major enhancements offered by MAQUET surgical lights.

**Flux Stability Program included in all lightheads:**
- Unique control of LED light flux
- Dynamic control of illumination providing constant lighting throughout the procedure

**Control illumination with your fingertips:**
- The capacitive control of the light intensity on the lighthead enables the user to adapt the light output to his needs without any risk of moving the light.
- Surgical assistants can control light units remotely from anywhere in an operating theatre, using an infra-red remote control to adjust lighting to the surgeon’s needs.

**Total concentration on the surgical procedure:**
- Less visual fatigue for the surgeon thanks to a smart design using overlapping beam technology
- No aggressive spot light in the middle of the light patch
- The focusing system ensures a uniform and concentrated light patch even when the lighthead is positioned far from the surgical field.
- No drift once the lighthead is positioned with the ERGODISC balancing system

**Minor surgery lighthead equipped with multimedia technology:**
- All LUCEA 100 lightheads are prewired: ready to convey video signals for future upgrades in SD quality
- Allow teaching and learning even for minor surgery applications
Surgical Workplaces | L10, L40, L50 & L100 SURGICAL LIGHTS
LUCEA 50 & 100
A WIDE CHOICE OF OR LIGHT SETUP

LUCEA DUO 100 + 50 V

LUCEA DUO 100 + 50 V on SATELITE tube with flat screen holder
## TECHNICAL DATA
### LUCEA 10 & 40

<table>
<thead>
<tr>
<th></th>
<th>LUCEA 10</th>
<th>LUCEA 40</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Size of the lighthouse (mm / inch)</strong></td>
<td>223 x 175 / 8.8 x 6.9</td>
<td>337 x 214 / 13.27 x 8.43</td>
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<tr>
<td><strong>Weight of the lighthouse (kg / lbs)</strong></td>
<td>0.8 / 1.76</td>
<td>1.850 / 4.08</td>
</tr>
<tr>
<td><strong>Illumination at 50 cm / 19.7 inch (lx)</strong></td>
<td>&gt; 50,000</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Illumination at 1 m / 39.4 inch (lx)</strong></td>
<td>&gt; 10,000</td>
<td>&gt; 40,000</td>
</tr>
<tr>
<td><strong>Field diameter (cm / inch)</strong></td>
<td>At 50 cm / 19.7 inch: &lt; 13 / 5.12</td>
<td>At 1 m / 39.4 inch: &lt; 24 / 9.44</td>
</tr>
<tr>
<td><strong>Colour temperature (K)</strong></td>
<td>4,500</td>
<td>4,500</td>
</tr>
<tr>
<td><strong>Colour rendering index (CRI) (Ra)</strong></td>
<td>95</td>
<td>95</td>
</tr>
<tr>
<td><strong>Rated power (VA)</strong></td>
<td>22</td>
<td>55</td>
</tr>
<tr>
<td><strong>Lighthead power consumption (Watt)</strong></td>
<td>9</td>
<td>20</td>
</tr>
<tr>
<td><strong>Nominal voltage (V DC)</strong></td>
<td>40</td>
<td>45</td>
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MAQUET SAS Quality System is certified according to:
- ISO 9001: 2008
- NF EN ISO 13485: 2004
- NF EN ISO 14001: 2004

Directive 93/42/EEC (Medical Devices)
**TECHNICAL DATA**

**LUCEA 50 & 100**

<table>
<thead>
<tr>
<th></th>
<th>LUCEA 50</th>
<th>LUCEA 100</th>
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</thead>
<tbody>
<tr>
<td>Illumination at 1 m (lx)</td>
<td>&gt; 50,000</td>
<td>&gt; 100,000</td>
</tr>
<tr>
<td>Field diameter (cm/inch)*</td>
<td>22 / 8.66</td>
<td>22 / 8.66</td>
</tr>
<tr>
<td>D50 / D10</td>
<td>&gt; 0.55</td>
<td>&gt; 0.55</td>
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<tr>
<td>Depth of illumination (cm/inch)</td>
<td>186 / 73.6</td>
<td>106 / 41.7</td>
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<tr>
<td>Colour Temperature (K)</td>
<td>4,300</td>
<td>4,300</td>
</tr>
<tr>
<td>Colour Rendering Index (CRI) (Ra)</td>
<td>95</td>
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<tr>
<td>Radiant energy (mW/m².lx)</td>
<td>3.9</td>
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**CAMERA DATA (only on LUCEA 100)**

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<tbody>
<tr>
<td>Sensor</td>
<td>CCD / 1/4*</td>
</tr>
<tr>
<td>Lens (zoom range)</td>
<td>10 x motorized zoom</td>
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<tr>
<td>Definition</td>
<td>768 x 576</td>
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<tr>
<td>Image rotation</td>
<td>2 positions</td>
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<tr>
<td>Location of camera</td>
<td>Inside the lighthead</td>
</tr>
<tr>
<td>Video output</td>
<td>composite</td>
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</table>

* Field diameter given for 10% of central illumination 1m under the cupola. All values measured according to IEC60601-241, edition 2.
GETINGE GROUP is a leading global provider of products and systems that contribute to quality enhancement and cost efficiency within healthcare and life sciences. We operate under the three brands of ArjoHuntleigh, GETINGE, and MAQUET. ArjoHuntleigh focuses on patient mobility and wound management solutions. GETINGE provides solutions for infection control within healthcare and contamination prevention within life sciences. MAQUET specializes in solutions, therapies and products for surgical interventions and intensive care.