

LUCEA 10, 40, 50, 100

Design and efficiency

MAQUET
GETINGE GROUP



From examination to surgical lighting



LUCEA 10, 40, 50, 100

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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.

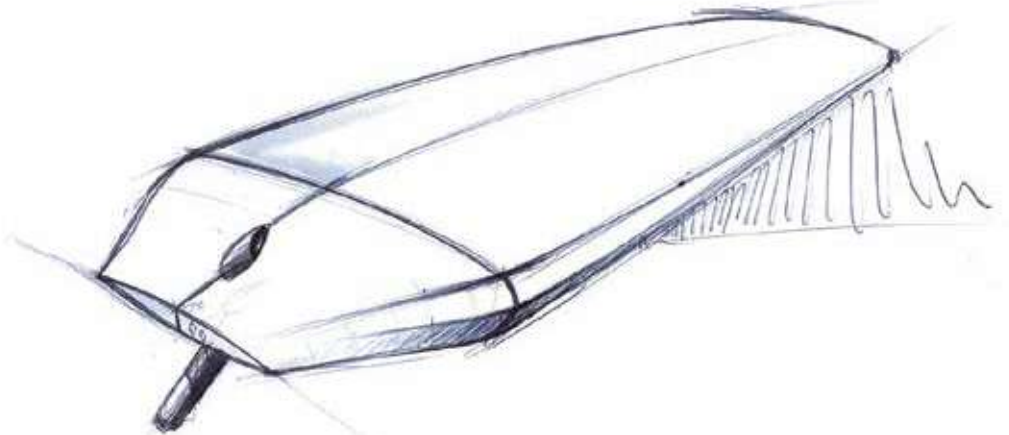
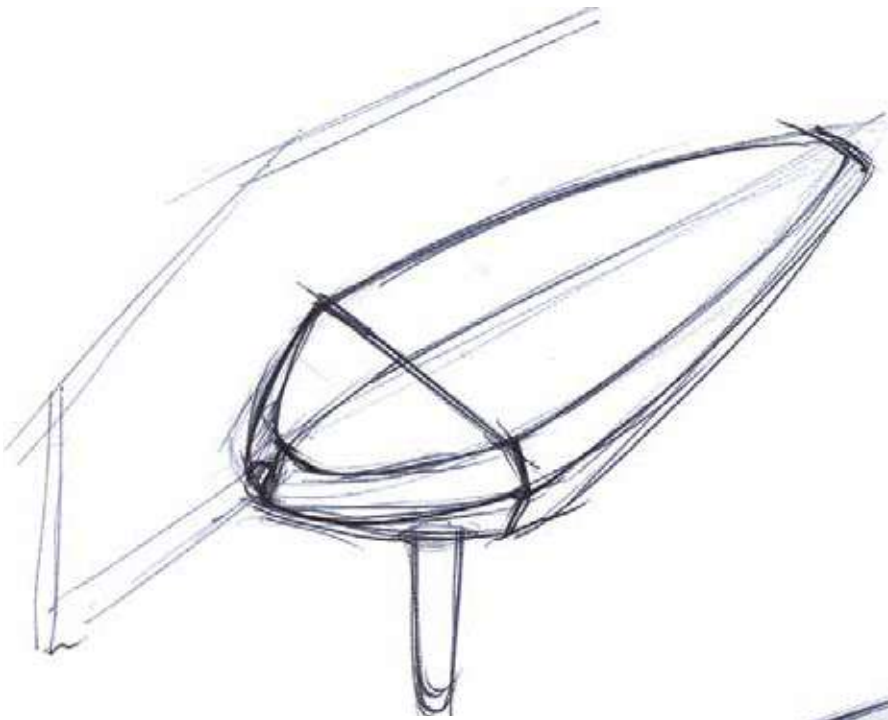
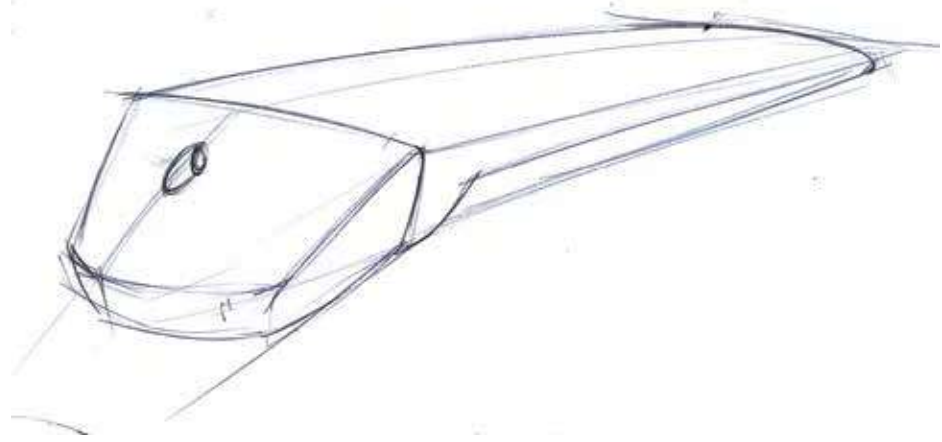
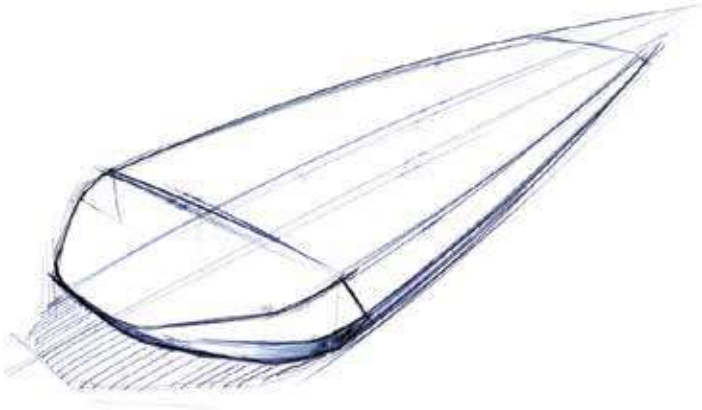
Bringing expertise in surgical lighting, ceiling service units and multimedia solutions, Maquet defines the highest standards, quality and innovation throughout the

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.

Maquet | The Gold Standard





LUCEA 10, 40, 50 & 100 range

Genesis of an idea

Break with the past...

... and its rounded forms. Maquet proposes 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 light-head 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.

Maquet | The Gold Standard



LUCEA 10, 40, 50 & 100 series

For **everyday** practice

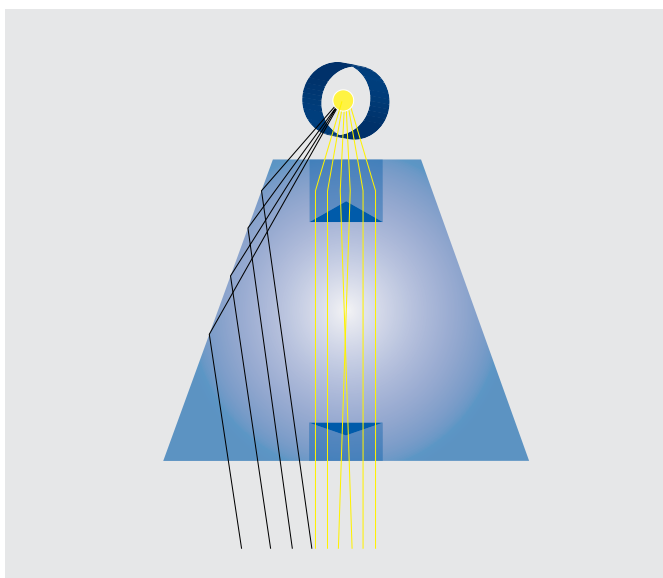
High quality equipment:

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 120,000 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:

- LED life time more than 60,000 hours for LUCEA 50 & 100
- 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
- Ergodisc spring arm (LUCEA 40, 50 & 100 only SF version): ensures perfect stability of the lighthouse during procedures
- Improved working conditions: the great volume of light allow the surgical staff to work without moving the light-head
- 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





MAQUET
LUCEA 40

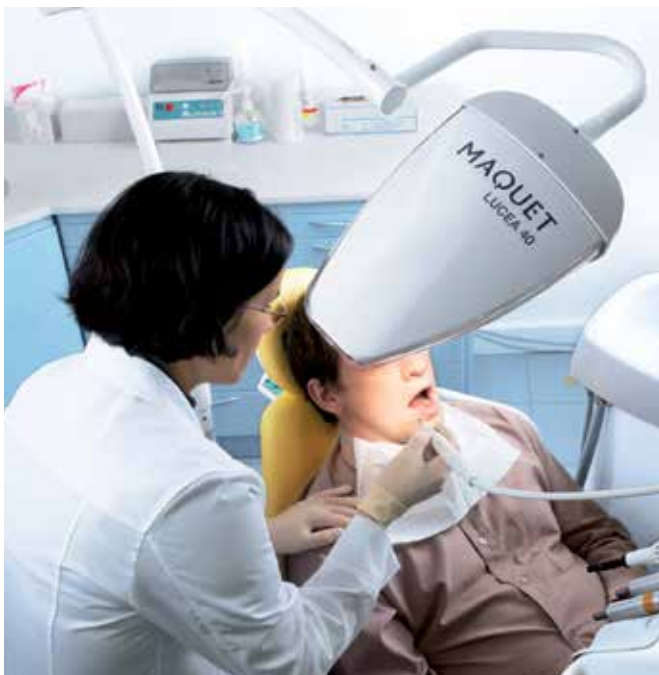
MAQUET
LUCEA 10

LUCEA 10, LUCEA 40

Making **everyday tasks easier**

Maquet's OR-lights expertise brought to the exam light

- With faithful colour rendering (CRI 95), the LUCEA 10 and LUCEA 40 are 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.
- As well as mobile lights, LUCEA 40 and LUCEA 10 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 10 light delivers 50,000 lux at 50 cm, providing ideal illumination for all medical specialities. With additional versions : rail-mounted and desktop, LUCEA 10 is suitable for all work environments.
- Designed for hospital induction, shock treatment and recovery rooms, the LUCEA 40 offers an illumination of more than 40,000 lux at 1 m. Its 26 LEDs achieve far higher shadow dilution than other lights in its category.
- The LUCEA 40 and LUCEA 10 are also designed to comply with the most stringent medical standards (IEC, UL, etc.)





LUCEA 50 & 100

Surgical lights

When LED technology touches **every** OR

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 offer 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
- Good handling due to the Double Fork version



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

LUCEA 50 & 100

A wide choice of OR light setup



LUCEA DUO 100 + 50 DF V



LUCEA DUO 100 + 50 V on SATELITE™ tube with flat screen holder

Technical data

LUCEA 10 & 40



LUCEA 10: wall version



LUCEA 10: rail / desk version



LUCEA 10: mobile version



LUCEA 40: wall version



LUCEA 40: ceiling version



LUCEA 40: mobile version

	LUCEA 10	LUCEA 40
Size of the lighthead (mm / inch)	223 x 175 / 8.8 x 6.9	337 x 214 / 13.27 x 8.43
Weight of the lighthead (kg / lbs)	0.8 / 1.76	1.9 / 4
Illumination at 50 cm / 19.7 inch (lx)	> 50,000	N/A
Illumination at 1 m / 39.4 inch (lx)	N/A	> 40,000
Field diameter at 50 cm / 19.7 inch	13 / 5.12	N/A
Field diameter at 1 m / 39.4 inch	N/A	29 / 9.44
Colour temperature (K)	4,500	4,500
Colour rendering index (CRI) (Ra)	95	95
Lighthead power consumption (Watt)	9	20
Service Life (h)	> 36,000	

MAQUET SAS Quality System is certified according to:
 ISO 9001: 2008
 NF EN ISO 13485: 2012
 NF EN ISO 14001: 2004

Directive 93/42/EEC (Medical Devices)

Technical data

LUCEA 50 & 100



LUCEA 50: mobile version



LUCEA 50: mobile version with battery



LUCEA 50 DF: ceiling version



LUCEA 100: mobile version



LUCEA 100: mobile version with battery



LUCEA 100 DF: ceiling version



LUCEA 50: wall version



Dual LUCEA 100: ceiling version



Dual LUCEA 50/100 DF: ceiling version

	LUCEA 50	LUCEA 100
Illumination at 1 m (lx)	60,000	120,000
Field diameter (cm/inch)*	22 / 8.6	22 / 8.6
D50 / D10	> 0,55	> 0,55
Depth of illumination at 20 % (cm/inch)	180 / 70.9	110 / 43.3
Depth of illumination at 60 % (cm/inch)	120 / 47.2	60 / 23.6
Colour Temperature (K)	4,300	4,300
Colour Rendering Index (CRI) (Ra)	95	95
Radiant energy (mW/m ² .lx)	3.9	3.9
Lighthouse power consumption (W)	27	47
Service Life (h)	> 60,000	
CAMERA DATA (only on LUCEA 100)		
Sensor	CCD / 1/4"	
Lens (zoom range)	10 x motorized zoom	
Definition	768 x 576	
Image rotation	2 positions	
Location of camera	Inside the lighthouse	
Video output	SDI	

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