



Maquet Surgical Lights

Lighting the way in surgical efficiency



Consistent illumination

Enable optimum conditions in the OR

The belief that better illumination results in better patient outcomes is the key principle behind the design of Maquet Surgical Lights.

Putting patients first

For more than a century, Getinge and its well-known brands – such as Maquet – have put patients first. It's why we remain committed to close relationships that identify real-world healthcare challenges, and address them with cost-effective, clinically relevant solutions.

As one of the world's largest medical technology companies, we have the resources to help you protect patients, proactively avoid complications, and

prevent ergonomic issues that are common in medical settings.

By optimising colour rendering and minimising coloured cast shadows, Maquet Surgical Lights are designed to help maximise the value of your lighting investment.

Our comprehensive portfolio of medical technologies will support you and your patients throughout the clinical pathway, so you can deliver the best possible patient care.

Maquet PowerLED II

Evolving design,
revolutionary features

Full HD camera wired

Document procedures in full HD quality to share best practices amongst surgeons, maintain precise records for risk management, and optimise understanding and learning

Small light patch

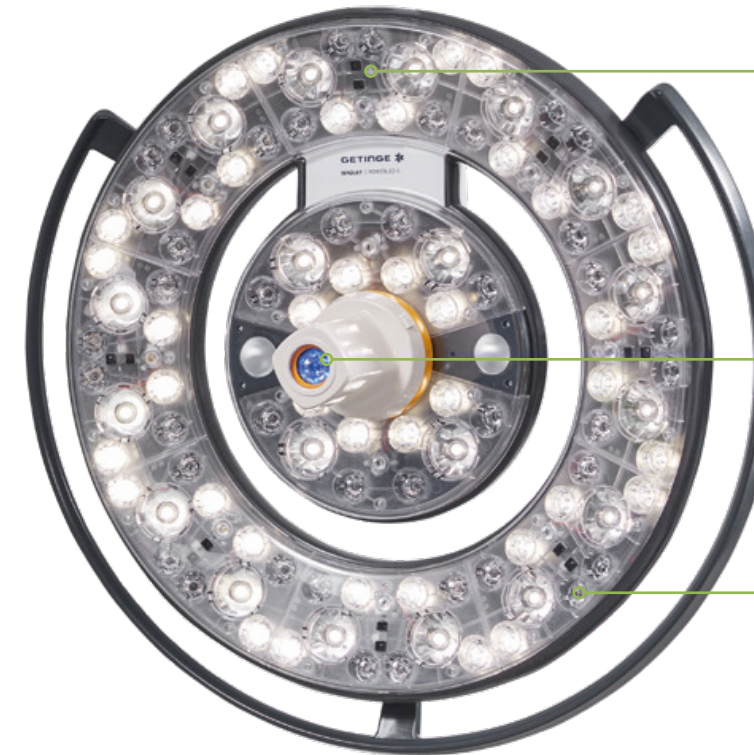
With a minimum size of 13cm (5.1"), Maquet PowerLED II focuses illumination where it's most needed

Light patch positioning (laser)

A laser guide ensures precise positioning for best lighting conditions



Maquet PowerLED II 500



Maquet PowerLED II 700

Automatic Illumination Management (AIM)

The AIM system automatically compensates for light blocked by the surgeon's head by boosting the remaining zones. This offers total freedom of movement without any reduction in illumination, improving workplace comfort

Luminance Management Device (LMD)*

LMD automatically regulates the illumination reaching the surgeon's eyes. The technology maximises useful light and minimises eye fatigue by adapting to shadows and avoiding excessive variations in luminosity

Comfort Light (optional)

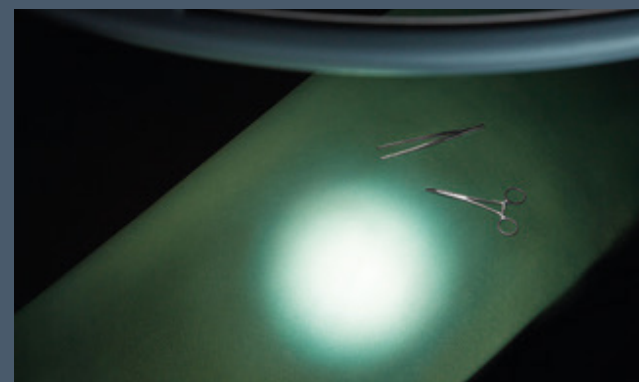
Comfort Light minimises luminance contrasts between the center of the light patch and its periphery. This reduces the glare effect to protect against eye fatigue

* on option / availability: January 2019



Multiple colours of ambient light

Maquet PowerLED II ambient light gives surgical staff the flexibility to choose their preferred color (from white to yellow), limiting glare on the monitors and improving contrast. This improves clarity and helps set a friendly and peaceful mood for surgical staff.



Adjustment of the light patch diameter

Match the light patch to the wound size, delivering light exactly where you's needed.



Quick Lock System

Maximise the value of your investment. Easily transition cameras or LMD systems as you pool equipment between rooms – no special tools needed.



Antibacterial coating minimises germ spread

Antibacterial film and paint on keypads and external handles limit the risk of cross-contamination.

Maquet PowerLED II

Product range

Multimedia equipment



Single/Double* Getinge Flat Screen Holder



Wired camera**



LMD***

* Available only via Satellite equipment
** Full HD

Keypads



Touchscreen wall keypad



Capacitive wall keypad



Lighthouse keypad

Suspension arms



Maquet SA Suspension



Maquet Satellite Anchoring System



Maquet SB Suspension



Maquet Rolite with Maquet PowerLED II 700



Maquet Rolite with Maquet PowerLED II 500

Maquet PowerLED II

Technical data

Optical characteristics	Maquet PowerLED II 700	Maquet PowerLED II 500
Nominal illuminance Ec (lx)		140,000 ¹
Nominal illuminance Ec (lx) with boost mode (lx)		160,000 ¹
Dimming range	10–100% with eye sensitivity response	
Light patch diameter (cm / inch)	13–20–27 / 5.1”–7.9”–10.6”	13–20 / 5.1”–7.9”
Depth of illumination at 60% (cm/inch)	24–43–44 / 9.4”–16.9”–17.3”	38–53 / 14.9”–20.8”
Colour temperature (K)	3,800 or 4,300 ²	
Colour rendering index (Ra)	96	
Irradiance at nominal illuminance (W/m ²)	< 500 ³	
LED life time (h)	> 60,000	
Ambient light	< 500 lx with 6 different colours	

Shadow dilution ⁴	Maquet PowerLED II 700	Maquet PowerLED II 500
Shadow dilution with one offset mask (%)		100
Nominal illuminance Ec (lx) with boost mode (lx)	100	80
Standard features	AIM, FSP, integrated antibacterial coating, laser positioning	
Additional options	LMD, Comfort Light	

Full HD wired camera	
Number of pixels	2.12 MEGAPIXELS
Optical zoom	x 10 (x 60 with digital zoom)

All values are measured according to IEC 60601-2-41.

1. For all light field diameters
2. The colour temperature is chosen at the order
3. In standard mode
4. With AIM mode

Maquet Volista

At a glance



Maquet Volista 600

Maquet Volista 600

Adjustable colour temperature*

A patented three-level cold filter system allows for customisation of colour temperature to meet the needs of each surgical discipline

Full HD wireless camera

Share best practices amongst surgeons, or document procedures for risk management with full HD clarity

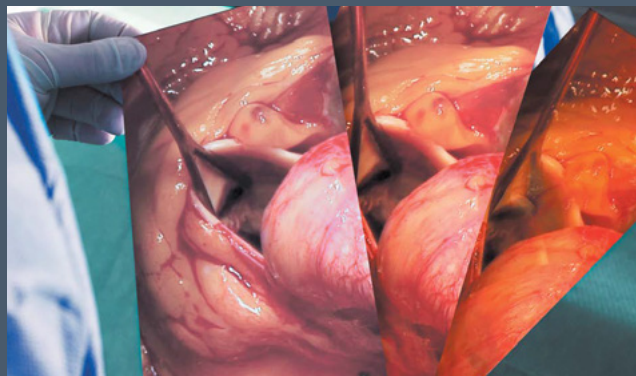


Luminance Management Device (LMD)*
Maximise useful light and minimise eye fatigue caused by glare or reflexion with the LMD

Automatic Illumination Management (AIM)*

AIM improves workplace comfort. Reduce heat on the surgeon's head while delivering consistent and effective illumination

* only available for Maquet Volista StandOP



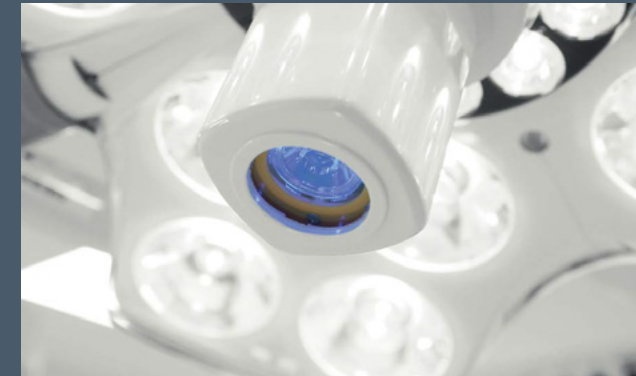
Adjustable colour temperature*

Customised to meet the needs of each procedure
Stable colour temperature through aging
Only one type of white LEDs



Full HD wireless camera

Image sharing in HD quality
Optimise understanding and learning



Luminance Management Device (LMD)*

Automatically adjusts the luminance according to distance and tissues.



Automatic Illumination Management (AIM)*

Automatically compensates to minimise shadows
Stable useful light
Move freely
Less heat on surgeon's neck

Improving intraoperative visibility

Good lighting is a critical part of clear assessment and safe treatment. With the Maquet Volista Surgical Light, we're helping surgeons do what they do best.



Improving visualisation during surgical procedures

The white LEDs used in Maquet Volista deliver natural and faithful colour rendering. With optimal colour rendering (Ra 95), Maquet Volista gives surgeons a clear look at the

surgical site, enabling the most appropriate interpretation and diagnosis. Long-life LEDs ensure more than 60,000 hours of uninterrupted illumination, minimising downtime and maintenance.

Reducing hospital-acquired infections

Hospital-acquired infections delay patient recovery and place additional strain on the healthcare system. The Maquet Volista Surgical Light minimises the risk of cross-contamination to improve patient outcomes.

Eye protection

Dimming for any types of application, following human eyes sensitivity response (ESR). Less eye strain thanks to blue peak filtering (see Light Emission Spectrum).

Minimise harmful irradiance

Protect delicate patient tissues by minimising radiant energy at the surgical site. In nominal illuminance, two lightheads can be safely overlapped.

Smart electronics

All LEDs are independently controlled by smart electronics, ensuring maximum illumination even in the event of an individual LED failure.

Stable colour temperature

Our white LEDs and patented three-level cold filter system in our Maquet Volista StandOP adapts the colour temperature without coloured cast shadows.



Boost mode

The boost function offers reserve illumination capacity up to 160,000 Lux. This genuine reserve illumination is available whenever it's needed.

BOOST
160,000 Lux

Easy-clean paint

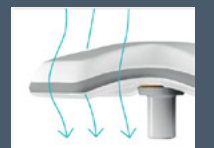
Maquet Volista Surgical Lights are coated in a special paint designed to minimise bacterial adhesion and facilitates manual cleaning.

Touch control panel

A smooth touch keypad is easy to clean, minimises cross-contamination to keep patients safer.

X- and Y-shaped lightheads

The streamlined X- and Y-shaped lightheads ensure compatibility with laminar flow ceiling systems, designed to prevent the spread of airborne bacteria.



Maquet Volista

Product range

Multimedia equipment



Single/Double¹ Getinge Flat Screen Holder



Maquet V HD¹

Wireless camera (Full HD and HD)

LMD²



¹ Available only via Satellite equipment
² Available only on Volista StandOP

Keypads



Touchscreen wall keypad



Capacitive wall keypad³



Lighthouse keypad

Suspension arms



Maquet SB Suspension³



Maquet Volista StandOP Suspension⁴



Maquet Satellite Anchoring System⁵



Maquet Rolite

³ Available only with Volista Access
⁴ Available only with Volista StandOP
⁵ Available with both Volista Access (3rd cupola only possible with Volista StandOP)

Maquet Volista

Technical data

Optical characteristics	Maquet Volista StandOP		Maquet Volista Access	
Lighthouse	400	600	400	600
Nominal illuminance E _c (lx) With Boost mode	130,000 160,000		30,000 160,000	
Dimming range (%)	10–100% with eye sensitivity response		10–100% with eye sensitivity response	
Light patch diameter (cm/inch)	20–25/7.9–9.8		20–25/7.9–9.8	
Depth of illumination at 60% (cm/inch)	50/19.7		50/19.7	
Colour temperature (K)	Fixed: 3,900 Adjustable: (3 levels) 3,900–4,500–5,100		Fixed: 4,300	
Colour rendering index (Ra)	95		95	
Irradiance at nominal illuminance (W/m ²)	< 500		< 500	
LED life time (h)	> 60,000*		> 60,000*	
Ambient light	Available		Available	

Shadow dilution ⁴	Maquet Volista StandOP**		Maquet Volista Access	
With two masks	400	600	400	600
	66%	86%	49%	52%
With one lateral mask	100%	100%	75%	75%

Additional options

Cameras	HD camera data	Full HD camera data
Signal system	720p	1080p
Number of pixels (megapixels)	1.43	2.38
Zoom range	Zoom 48x Overridable to 144x	Zoom 40x Overridable to 120x
Video signal outputs	HDMI 1.3 on HDMI connector	HDMI 1.3 on HDMI connector
Transmission	Wireless	Wireless

*In nominal mode

** With LMD (Luminance Management Device) and AIM (Automatic Illumination Management)

Maquet Lucea

Visibility in all hospital departments

The Maquet Lucea 50 and 100 surgical lights have been specifically developed to provide any operating room with LED technology to support minor surgical procedures. The design and functional shape offer an efficient product to the surgical staff. Maquet Lucea 50 and 100 are available in mobile, wall and ceiling-mounted versions.

Uniform and concentrated light patch:

Each Led light source illuminates the entire light patch for shadow dilution.

- Maquet Lucea 50: Ec 60,000 lux at 1 meter
- Maquet Lucea 100: Ec 120,000 lux at 1 meter

Tissue differentiation (superficial and deep structure): colour rendering index fixed at 95.

No heat dissipation: designed to prevent patient and surgeon discomfort.

Reduce risk of cross-contamination: a sleek and curved surface to facilitate cleaning.

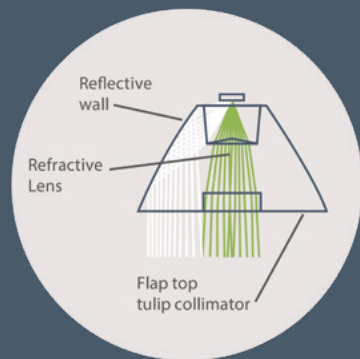
Angled shape for easy positioning: the narrow design can be easily positioned in a crowded surgical theatre.

Light head stability: Ergodisc spring arm*.



*Only Maquet Lucea 40, 50, and 100, version

Maquet Lucea



Designed for shadow-free visibility

White "HECOL" LEDs eliminate cast and coloured shadows that can interfere with diagnosis and treatment.



Long bulb life minimises maintenance

Spend more time with patients and less time with maintenance; LED life is more than 60,000 hours.



Freedom of movement

The maneuverable handle is directed towards the wound for accurate positioning.

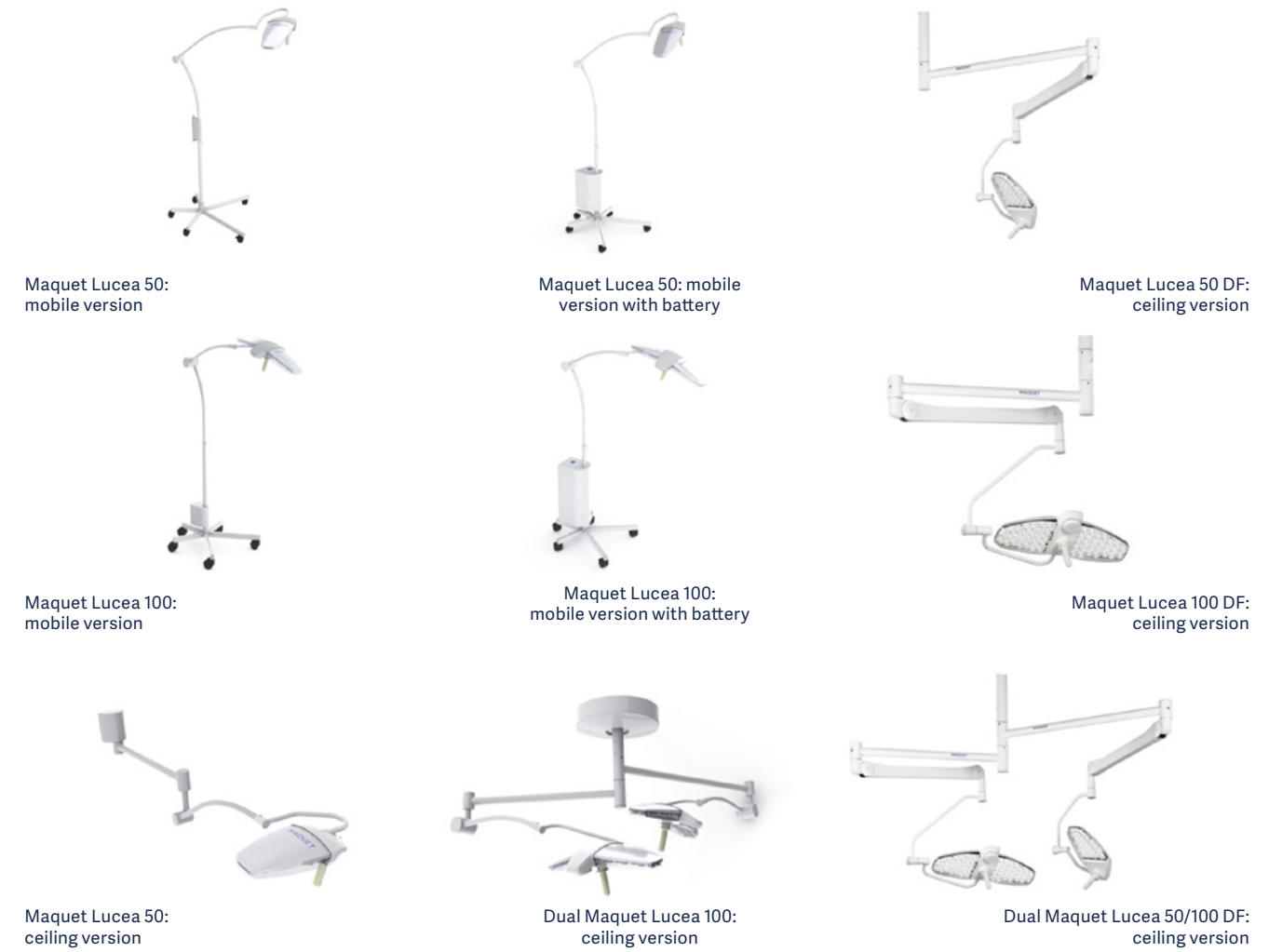


A small environmental footprint

The Maquet Lucea series contains only environmentally friendly products and 80% recyclable material. Optimised, compact and recyclable packaging reduces waste.

Maquet Lucea

Product range



	Maquet Lucea 10	Maquet 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 1m / 39.4 inch	N/A	< 24 / 9.44"
Colour temperature (K)	4,500	4,500
Colour rendering index (CRI) (Ra)	95	95
Service Life (h)	60,000	

	Maquet Lucea 10	Maquet Lucea 40
Size of the lighthead (mm / inch)	60,000	120,000
Field diameter (cm/inch)*	22 / 8.6	22 / 8.6
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)	96	96
Irradiance at nominal illuminance (W/m2)	234	468
Service Life (h)	> 60,000	

Full integration to the OR environment from conventional to hybrid rooms



The antibacterial touchscreen wall keypad allows the synchronisation of the cupola to meet surgeon or specialty preferences and reduces the risk of cross-contamination. Preventive maintenance, including backup power supply testing, operating parameter storage, self-diagnostics, and remote control and communication can be provided. An RS-232 interface can be linked to various integrated products.

Sharing information in full HD quality such as best practices amongst surgeons or to document procedures for risk management.

The quick lock system allows accessories such as HD cameras to be quickly and easily connected and disconnected without special tools. This minimises setup time between procedures, and allows easy pooling of accessories, with cameras shared throughout the surgical suite.

The Maquet Satellite Anchoring System allows equipment to be positioned within reach of the surgeon, concealing wires and cables to improve safety and hygiene. Equipment can be easily added, removed and upgraded to meet future requirements.

Getinge Flat Screen Holders accommodate larger and heavier flat screens – up to 32 inches, with full HD or 4K visualisation, without disrupting your surgical light configuration.

Maquet Moduevo: Our easily positioned ceiling supply unit range keeps vital equipment near the patient, without cables and connections to get in the way.

A dedicated Hybrid OR solution

With more than 1,000 completed Hybrid OR installations, we know that the Hybrid OR is the future of surgery. We developed the Maquet PowerLED II light to be future-proof, ready for the Hybrid OR when you are.

Longer suspension arm: Move the Maquet PowerLED II out of the way to make room for imaging equipment.

X-ray shield: Seamless integration with the latest Hybrid imaging technologies.



With a firm belief that every person and community should have access to the best possible care, Getinge provides hospitals and life science institutions with products and solutions aiming to improve clinical results and optimise workflows. The offering includes products and solutions for intensive care, cardiovascular procedures, operating rooms, sterile reprocessing and life science. Getinge employs over 10,000 people worldwide and the products are sold in more than 135 countries.

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