



# Maquet Volista Surgical Light

See better, go further

GETINGE 



# Maquet Volista

## See better, go further

A successful surgical outcome is highly dependent upon the surgeon's ability to visualize and assess the wound.

By optimizing color rendering and minimizing colored cast shadows, Maquet Volista Surgical Lights are designed to improve patient safety and maximize the value of your lighting investment.

### Putting patients first

For more than a century, Getinge, and its well-known brands including Maquet, have put patients first. It's why we remain committed to close clinical 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.

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 Volista

## See better, go further

### Full HD cameras

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

### Luminance Management Device (LMD)\*

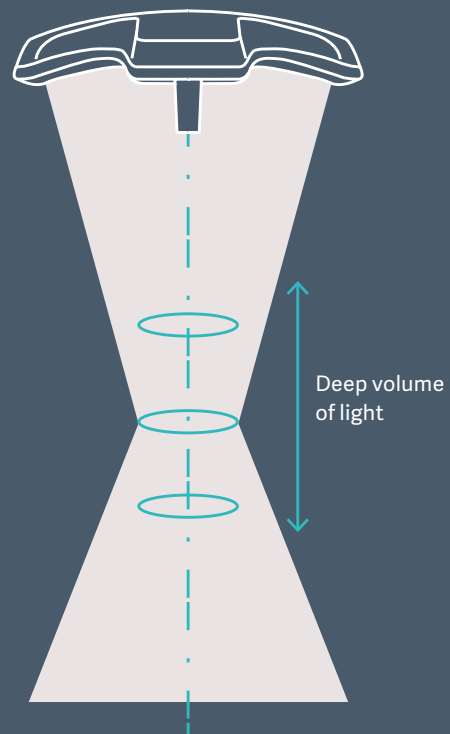
Maximize useful light and minimize eye fatigue caused by glare or reflection with the LMD



Maquet Volista 400

## Homogenous volume of light

A homogeneous column of useful light reaches into the deepest cavities, without readjustment. No need to reposition or manipulate the lighthead, the useful light is available from the surface of surgical site to the bottom of the cavity without any readjustment.





Maquet Volista 600

**Adjustable color temperature\***

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

**Automatic Illumination Management (AIM)\***

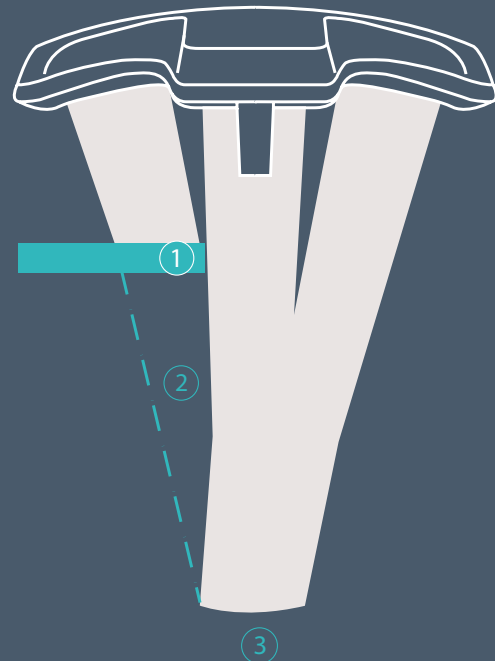
AIM is designed to improve workplace comfort. It reduces heat on the surgeon's head while delivering consistent and effective illumination

\* Only available for Maquet Volista StandOP

## Shadow Management

Due to the shape of the lighthead, a good positioning leads to a very stable useful light. When moving below the lighthead, surgeons may block some LEDs and due to the proper overlapping of all light sources, the light patch remains stable, homogeneous, keeping contour shadows for the needed three dimensional representation.

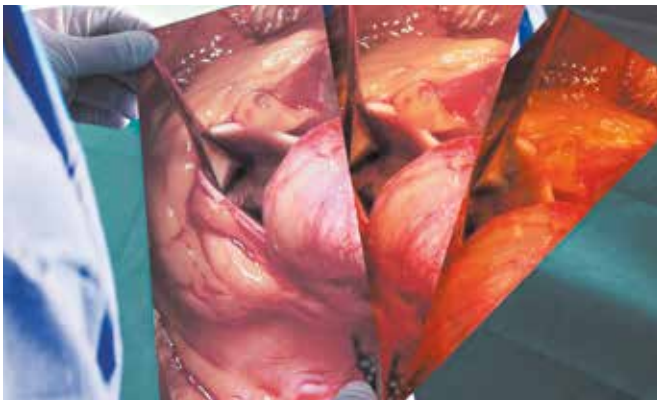
- Obstructed light beams ①
  - Light beams free zone ②
  - Overlapping light beams ③
- composing the entire light patch



# Maquet Volista

## Much more than just a light

Surgery can be a high-stress job with long hours. Poor lighting can slow surgical progress and cause eye strain that can lead to fatigue-related errors. Improve outcomes for patients and staff with high-quality surgical lighting.



### **Choose the best-suited color temperature\***

Maquet Volista Surgical lights offer a possibility to adjust from 3900K to 4500K to 5100K.

Our white LEDs and patented three-level cold filter system in our Maquet Volista StandOP adapts the color temperature without colored cast shadows, offering a stable color temperature whatever the chosen settings and whatever the aging of the product. The cold filters reduce the blue peaks that LEDs emit.



LMD offers total freedom of movement without any drop in luminance

### **Focus on your patient**

The Luminance Management Device (LMD)\* maintains optimum visual acuity and avoids difficulties in adapting to excessive variations in luminosity. Whether at the beginning or end of a procedure or from light to dark tissues, the luminance will be automatically adjusted according to your registered setting.

With LMD, there is no need to adjust the light anymore. The technology compensates to maximize useful light and also provides safety by adjusting automatically the illumination and maintaining safe levels of irradiance even when two lightheads are overlapping.

\* Optional on Maquet Volista StandOP



### **Delivering consistent and effective illumination**

Automatic Illumination Management (AIM)\* automatically compensates for obstructions to deliver additional light from unmasked LEDs. This unique and patented system minimizes shadows and offers consistent and effective illumination, without readjustment.

### **Optimal visibility for Minimally Invasive Surgery (MIS)**

Maquet Volista offers green ambient lighting at the center of the lighthouse to minimize glare on monitors during MIS. The ambient light provides enough illumination to help surgical staff move safely in the darkened OR.



\* Standard on Maquet Volista StandOP

# Maquet Volista

## Perform surgery with safety in mind

Improving surgical safety is a goal for healthcare facilities worldwide. Maquet Volista operating lights have been developed with this goal in mind.

### Reducing Surgical Site infections

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

### Easy-clean

The special coating minimizes bacterial adhesion and facilitates manual cleaning to prevent germ spread.

### Touch control panel

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

### Improving intraoperative visibility

With an optimal color rendering of Ra 95, Maquet Volista gives surgeons a clear vision of the surgical site by delivering a natural and faithful color rendering.

### X- and Y-shaped lightheads

The streamlined X and Y shaped lightheads are designed not to obstruct high air flow systems thereby minimizing turbulence over the surgical site.



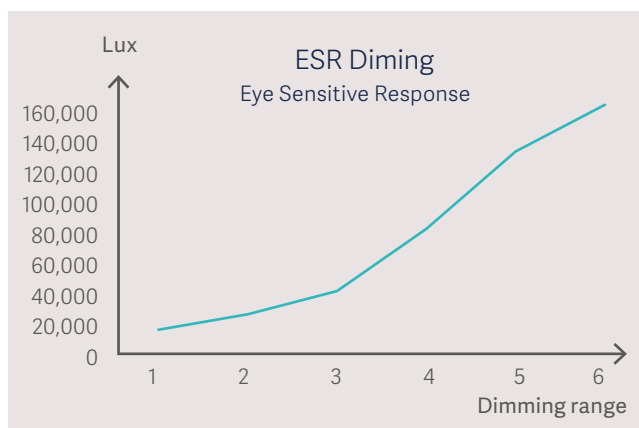


### Stable illumination

LEDs can lose up to 20% of their intensity after just two hours. With the Flux Stability Program (FSP), smart electronics increase the current to maintain consistent light output throughout the procedure.

### Dimming sensitivity

With dimming following human eye sensitivity per Fechner's law, each dimming step is seen by human eyes with the same amount of light difference, in order to provide a smooth and adapted range of illumination.



### Safe irradiance

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

\* Based on the IEC 60601-2-41 standard



# Fully adjustable to meet each surgeon's needs

With Maquet Volista, it's simple to adjust the light to the surgeon's specifications. From positioning to intensity, all elements of the lighting experience can be easily modified.



## ○ Tilt handle: autonomy for sterile team

The optional "tilt" handle lets sterile staff adjust the light patch diameter during surgery.

- No assistance from the circulating nurse
- Available as sterilizable handle, which can be easily cleaned in Getinge Washer-Disinfectors



## ○ Touch control panel: control at any time

All main functions can be controlled from the panel.

- On/Off
- Standard lighting or ambient lighting and dimming
- Adjustment of the light patch diameter
- Zoom when a camera is installed
- Warning and battery indicators (for Battery Backup systems only)



## ○ Wall control panel

Centralized information can be accessed and controlled from the wall panel.

- Access to lighthouse and camera settings
- Lighthouse synchronization
- Presets for storing favorites by surgeon or specialty
- Assistance with preventive maintenance, including backup
- Power supply testing
- Self-diagnostics

# Maquet Satellite Anchoring System

The number of OR technologies and tools is growing exponentially each year, yet only a finite amount of space exists near the patient.

Hospitals need a hygienic, cost-effective, long-term solution that can precisely position the lights, monitors and cameras of today, but with enough versatility to accommodate the technologies of tomorrow.

Maquet Satellite 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.



## Optimized workflows

- A central mounting hub delivers electrical and networking connectivity
- There are no exposed wires or cables to interfere with workflows
- An ergonomic design ensures that vital equipment is within reach
- Tailored solutions are available for all surgical specialties

## Modular and easily upgradeable

- A simple design streamlines upgrades and limits downtime
- A versatile tri-mount design allows equipment to be added or exchanged as technologies evolve, reducing future construction costs
- Compatible with all Maquet Surgical Lights, cameras, and flat screen holders

## Your multimedia center

- Mount and network cameras of all types
- Route full HD signals
- Access patient records, MRI, video, and radiographic images at the surgical site
- A large internal diameter accommodates the larger bundles required for advanced integration and multimedia applications

## The hygienic solution

- Satellite is designed not to obstruct high air flow systems thereby minimizing turbulence over the surgical site
- Sleek and rounded surfaces are easy to clean and disinfect

# Maquet Volista

## Product range

Getinge products streamline data management, improving access and efficiency to help you make better clinical decisions.

### Multimedia equipment

#### **Single / Double<sup>1</sup> Getinge Flat Screen Holder**

With the flat screen holder, one or two flat screens can be mounted where they're most needed — close to the surgeon.



#### **Full HD cameras**

HD images and videos can be shared instantly and with no visible latency. Share best practices among surgeons, or document procedures for risk management with full HD clarity.



Full HD cameras  
(wired<sup>2</sup> and wireless)



LMD<sup>2</sup>



#### **Quick Lock System**

The tool-free system allows full HD cameras and the LMD system to be quickly and easily connected and disconnected to be moved between surgical suites. The Quick Lock System minimizes the setup time between procedures, and maximizes use of cameras throughout the surgical suite.

<sup>1</sup> Available only via Satellite equipment

<sup>2</sup> Available only on Volista StandOP



## Control Panels

### Intuitive touchscreen interface

Touchscreen



Capacitive wall keypad<sup>1</sup>



Lighthouse keypad



## Suspension arms

Maquet SB suspension<sup>1</sup>: affordable suspension system that is lightweight and flexible.



Maquet SA suspension<sup>2</sup>: increased load limits and designed for HD wired video camera (optional).



Maquet Satellite System<sup>3</sup>: versatile and open for future requirements.



Maquet Rolite: mobile system, available wherever and whenever you want.



<sup>1</sup> Available only with Volista Access

<sup>2</sup> Available only with Volista StandOP

<sup>3</sup> Available with both Volista Access and StandOP (3rd cupola only possible with Volista StandOP)

# Maquet Volista

## Technical data

Optical characteristics	Maquet Volista StandOP		Maquet Volista Access	
Lighthead	400	600	400	600
Nominal illuminance Ec	130,000 lx		130,000 lx	
With Boost mode	160,000 lx		160,000 lx	
Dimming range	10%–100% with eye sensitivity response		10%–100% with eye sensitivity response	
Light patch diameter	7.9"–9.8" / 20–25 cm		7.9"–9.8" / 20–25 cm	
Depth of illumination at 60%	19.7" / 50cm		19.7" / 50cm	
Color temperature	Fixed: 3900K Adjustable: (3 levels) 3900K–4500K–5100K		Fixed: 4300K	
Color rendering index	95 Ra		95 Ra	
Irradiance at nominal illuminance	< 500 W/m <sup>2</sup>		< 500 W/m <sup>2</sup>	
LED life time	> 60,000 hr*		> 60,000 hr*	
Ambient light	Available		Available	

Shadow dilution	Maquet Volista StandOP <sup>†</sup>		Maquet Volista Access	
Lighthead	400	600	400	600
With two masks	50%	58%	45%	50%
With one lateral mask	77%	86%	71%	75%
Additional options	AIM, LMD	AIM, LMD	—	—

Full HD cameras	Wired <sup>‡</sup>	Wireless
	Signal system	1080i / 1080p
Number of pixels	2.12 MP	2.12 MP
Zoom range	Zoom 42x	Zoom 42x
Video signal outputs	2 x 3G - SDI	HDMI 1.4

\* In nominal mode

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

‡ Only on Volista StandOP

# Getinge 360° Services

— caring for those who care



Getinge offers services and expertise to improve workflows, equipment uptime, and staff and patient satisfaction. Getinge provides 360° services centered around your specific needs to improve efficiency and create value throughout the entire process of delivering healthcare.

To provide you with the best possible service, we consider the entire journey of healthcare delivery. 360° Services by Getinge encompasses value creation partnerships and financial solutions, planning and design of workflows, project implementation, education and training, digital services, and maximized equipment uptime through preventive maintenance.

**Getinge 360° — full circle service aligned to your operational and financial goals.**





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