



Maquet Volista
Surgical Light
See better, go further

GETINGE 





See better, go further Maquet Volista Surgical Light

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

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.

In short Maquet Volista is:

- + Designed to enhance visualization
- + Tailored to your needs
- + Developed to answer to risk management
- + Prepared for future needs

Maquet Volista Surgical Light Overview

+ Designed to enhance visualization

- + Homogenous volume of light
- + Shadow Management
- + Stable & safe illumination
- + Light field adjustment

+ Developed to answer to risk management

- + Easy to clean
- + Laminar Air Flow Compliancy
- + Smooth and adapted range of illumination
- + Optimal visibility for MIS
- + Antibacterial wall control touchscreen panel



+ Tailored to your needs

- + Consistent and effective illumination
- + Focus on your patient
- + Choice of color temperature
- + Perform NIR guided surgery
- + Adjust the light from anywhere

+ Integration ready

- + Maquet Satellite anchoring system
- + Full HD cameras
- + Pool your equipment between rooms

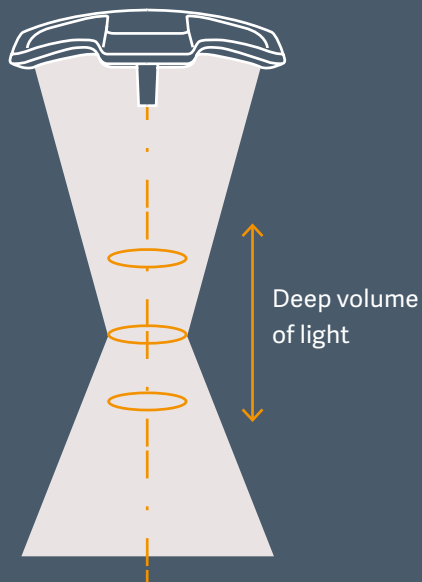
Maquet Volista Surgical Light

Designed to enhance visualization

Homogenous volume of light

A homogeneous column of useful light reaches into the deepest cavities, without readjustment.

No need to reposition or manipulate the light head, the useful light is available from the surface of surgical site to the bottom of the cavity without any readjustment.



Stable illumination from start to finish

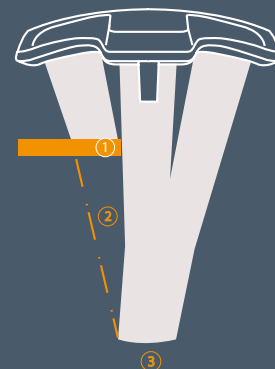
LEDs can lose up to 20% of their intensity after just two hours. With the Flux Stability Program (FSP), smart electronics increase the current to maintain consistent light output throughout the procedure. The FSP (Flux Stability Program) applies an automatic compensation, cancelling out the heat up and the drop in intensity inherent to LED technology.

[View video for more info](#)



Shadow Management

Due to the shape of the light heads, a good positioning leads to a very stable useful light. When moving below the light heads, surgeons may block some LEDs thanks to the perfect overlapping of all light sources, the light patch remains stable, homogeneous, keeping contour shadows for the needed three-dimensional vision.



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

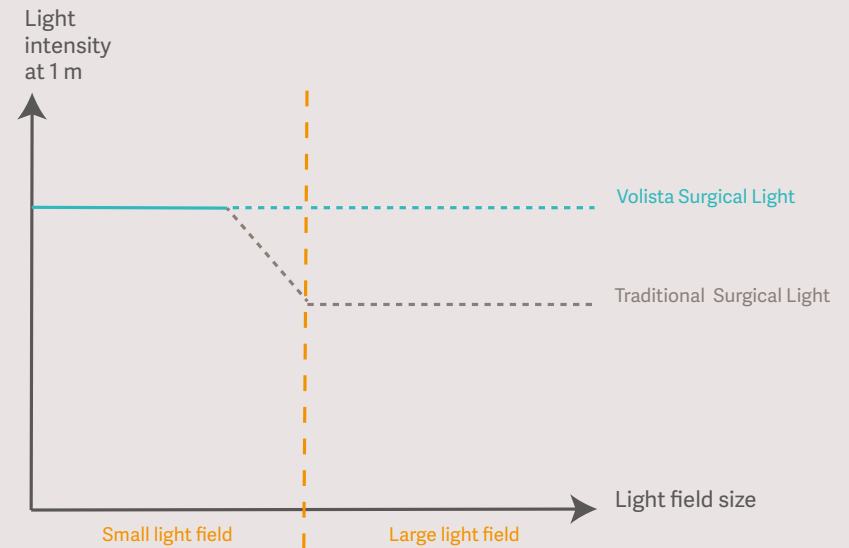
Maquet Volista Surgical Light Designed to enhance visualization

Light field adjustment

Maquet Volista maintains the same optical performance regardless of the size of the light field. The illumination remains constant whether it is in a small light field (20 cm) or a large one (25 cm). This provides true comfort during an operation, as there is no need to readjust the lighting parameters

Safe illumination

Regardless of the lighting position, the illumination remains below the limit of 160,000 lux along the vertical axis.



With Maquet Volista surgical light, illumination remains constant even when the light field changes.



Maquet Volista Surgical Light Tailored to your needs

Customize your Volista surgical light configuration

to suit your needs, from basic options to advanced settings, enhancing your working environment.

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.



Focus on your patient with LMD*

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 the illumination automatically.

**Available only on Maquet Volista StandOP.*



Maquet Volista Surgical Light Tailored to your needs

Each surgeons visualization needs are different

and each step of a procedure can require different color temperatures for improved tissue recognition, Maquet Volista Surgical lights offer two technologies for adjusting color temperature.

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 (3900K ; 4500K ; 5100K or a fixed one at 3,900 K) and whatever the aging of the product. The cold filters reduce the blue peaks that LEDs emit.

Based on a mix of a new generation of white LEDs (warm and cold) Maquet Volista Access offers the possibility to choose between adjustable color temperature (3,900 ; 4,200 and 4,500 K) or a fixed color temperature (4,200 K).

Peace of mind

In a dual configuration with synchronization mode enabled, adjusting the color temperature on one light head will automatically sync the second, ensuring both have the same setting.





Maquet Volista Surgical Light Tailored to your needs

Keep your surgical light on while performing NIR* guided-surgery.

NIR fluorescence imaging is designed to address a variety of unmet clinical needs related to finding structures that need to be resected, such as sentinel lymph nodes, malignant cells, and luminal calcifications, and avoiding other structures that could cause acute or chronic morbidity, such as nerves, blood vessels, ducts, lymphatics, and normal glands¹. Thanks to Volista VisioNIR**, the surgical staff will not be required to turn the surgical light on/off to be able to perform open surgeries using NIR fluorescence imaging systems.

- A powerful solution to guide surgeons, secure their actions with a better hand-eye coordination when using fluorescence guided surgery. No need to switch between on and off lighting.
- The surgical staff can stay focused on the patient on-going surgery. One less operation for the circulating staff .
- Uninterrupted workflow as you can keep the surgical light on during the entire procedure, no need to think about it.
- The ability to keep the OR light on provides better visibility of the operating room environment for the staff.

The dedicated enhancement mode improves the contrast on the screen and complies with autofluorescence.

- Keeping parameters of the OR Light like a standard mode with good color rendering, no change in shadow dilution or dimming.

Thanks to the patented filters' wheel developed on Maquet Volista StandOP, the light emitted from the LEDs is filtered to reduce the remaining NIR wavelengths. Surgical lights disturbing the fluorescence signal emitted is now eliminated. Maquet Volista VisioNIR and NIR guided surgery cameras can be used simultaneously inside the OR.

*Near Infrared,

**Available on Maquet Volista StandOP

¹ *Image-Guided Surgery using Invisible Near-Infrared Light: fundamentals of Clinical Translation*, S. Gioux and al. *Mol Imaging*. 2010 October; 9(5): 237-255.

[View video for more info](#)



⊕ One solution: one filtered light.



Maquet Volista Surgical Light Tailored to your 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 parameters during surgery.

- No assistance from the circulating nurse
- The sterilizable handle can be easily cleaned and sterilized with Getinge Sterile Reprocessing products.
- Possibility to select the parameters (illuminance, light field diameter and color temperature settings).

Light head control keypad: control at any time

All main functions can be controlled from the panel.

- On/Off
- Standard lighting or ambient lighting and dimming

- Warning and battery indicators (for Battery Backup systems only)
- Adjustment of the light field diameter and color temperature*
- Zoom when a camera is installed

Wall control touchscreen panel

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

- Access to light head and camera settings
- Light head synchronization
- Presets for storing favorites by surgeon or specialty
- Assistance with preventive maintenance, including backup

*Available only on Maquet Volista Access



Tilt handle



Light head control keypad



Wall control touchscreen panel

Maquet Volista Surgical Light

Developed to answer to risk management

Improving surgical safety is a goal for healthcare facilities worldwide.

Maquet Volista operating lights have been developed with this goal in mind.

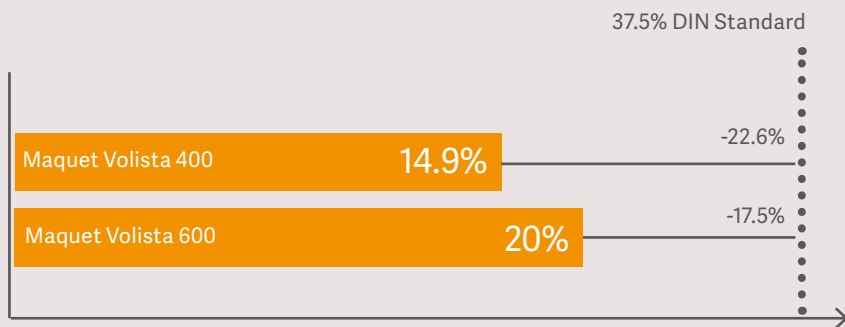
Easy-clean paint

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

Laminar Air Flow Compliance

Ensure compatibility with laminar flow ceiling systems to prevent the spread of airborne bacteria. Indeed, Maquet Volista surgical lights does not disturb the laminar flow effectiveness as the turbulence degree is far below the 37.5% limit of the DIN 1946-4 standard:

- 14.9% for Maquet Volista 400
- 20% for Maquet Volista 600

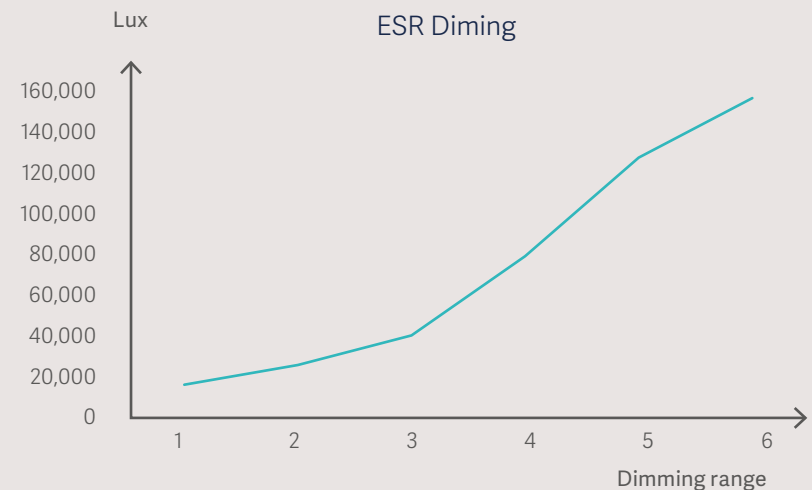


Laminar Air Flow Compliance
Results for Maquet Volista surgical lights according to DIN standard 1946-4 ed. Dec.08

The wall control touchscreen panel features an antibacterial coating that reduces the risk of cross-contamination by minimizing the spread of harmful bacteria on high-touch surfaces. It supports infection control protocols during surgeries and helps maintain the sterile environment crucial for patient safety.

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.





Optimal visibility for minimally invasive surgery (MIS)

Maquet Volista offers green ambient lighting at the center of the light head to minimize glare on monitors during MIS.

The ambient light provides enough illumination to help surgical staff move safely in the darkened OR.



Maquet Volista Surgical Light Integration ready

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 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.

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 Getinge Surgical Lights, cameras, and flat screen holders.

Your multimedia center

- Mount and network cameras of all types.
- Route full HD and 4K 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 Surgical Light Integration ready

Integrated cameras can be used for informing patients,
educating trainees, presenting to colleagues, robust patient records, and publishing in papers.

Full HD cameras (wired* and wireless)

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.

**Only on Volista StandOP*



Quick Lock System: for greater flexibility

Maximize the value of your investment: easily transition cameras or LMD systems between rooms with no special tools required.

Accessories like full HD cameras or single-use handle adapters can be quickly and easily connected or disconnected, minimizing setup time between procedures.



Maquet Volista Surgical Light Integration ready

Full integration from conventional to hybrid rooms

Integration ready with Tegriss

Maquet Volista can be remotely controlled by various integrated systems, such as Tegriss,

Longer suspension arms provide greater flexibility and reach, accommodating the complex layouts and diverse equipment commonly used in multifunctional spaces like hybrid rooms.

The X-ray shield offers convenient, on-demand radiation protection, reducing the need for additional mobile shields and streamlining workflow in hybrid rooms.

Conveniently position high-resolution data where you want with the Getinge Flat screen holder range.

Accommodate larger and heavier flat screens up to 42", with full HD or 4K visualization, without disrupting your surgical light configuration.

[More info on Tegriss OR Integration](#) ▶



Maquet Volista Surgical Light Product range

+ Multimedia equipment

Single / Double Getinge Flat Screen Holder
One or two flat screens can be mounted where they're most needed – close to the surgeon.



+ Suspension arms

Maquet SB suspension*: affordable suspension system that is lightweight and flexible.

**Available only with Volista Access.*



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

Maquet SAX suspension*: increased load limits and designed for HD wired video camera (optional) as well as triple configurations.

**Available only with Volista StandOP.*



Maquet Satellite System*: versatile and open for future requirements.

**Available with Volista Access and StandOP. Third cupola only possible with Volista StandOP.*

Maquet Volista Surgical Light

Technical data

Optical characteristics	Maquet Volista Access II	Maquet Volista StandOP II
Maximum illumination	160,000 Lux	
Light field diameter d10	20 - 25 cm / 7.9 - 9.8"	
Depth of illumination above 60%	50 cm / 19.7"	
Color temperature	Fixed: 4,200 K Adjustable: 3,900 / 4,200 / 4,500 K	Fixed: 3,900 K Adjustable: 3,900K / 4,500K / 5,100K
Color rendering index	95	
Ambient light	Green light < 500 Lux	

Maquet Orchide Cameras	Full HD Wired	Full HD wireless
Signal system	1080i	1080p
Number of pixels	~2.48 Megapixels	
Total zoom	x60	
Video signal outputs	3G-SDI	HDMI 1.4



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