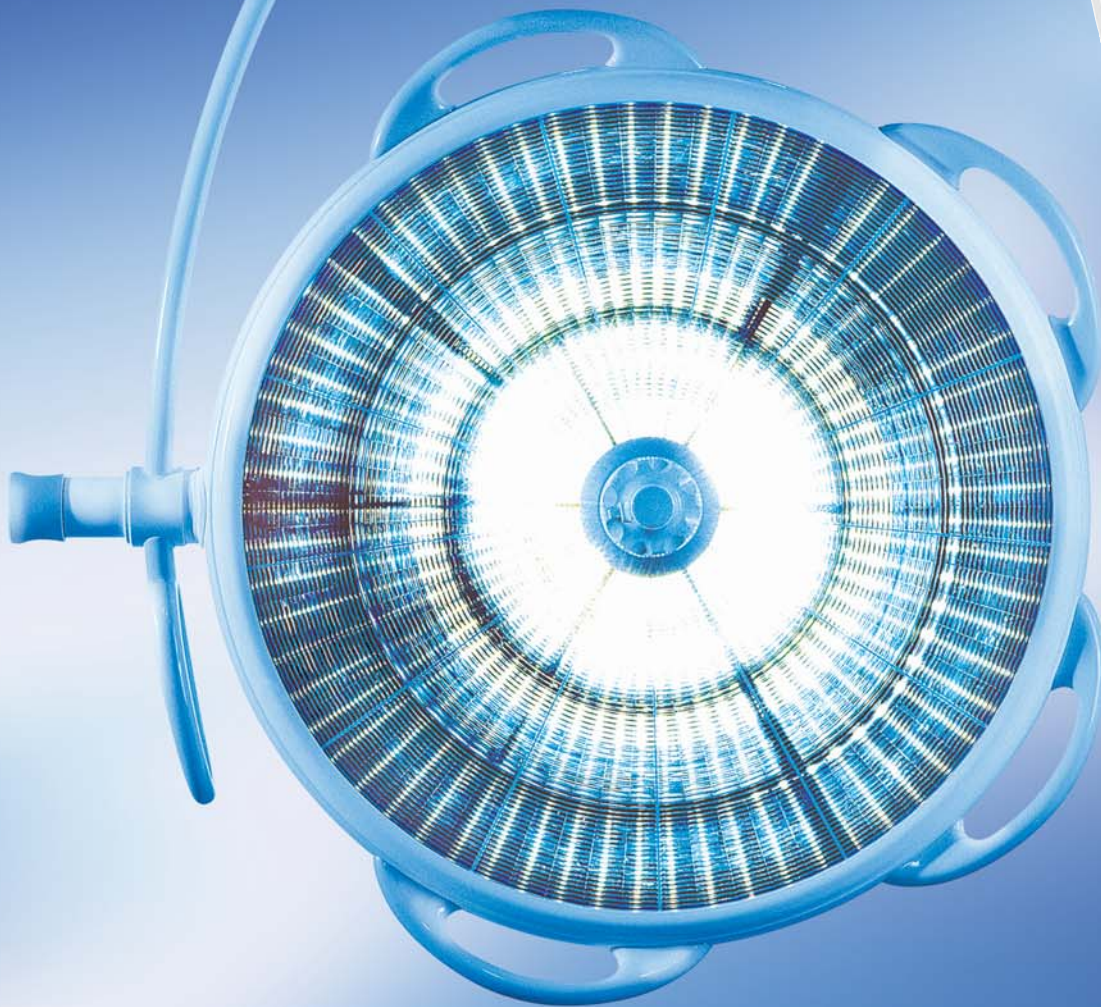


MAQUET

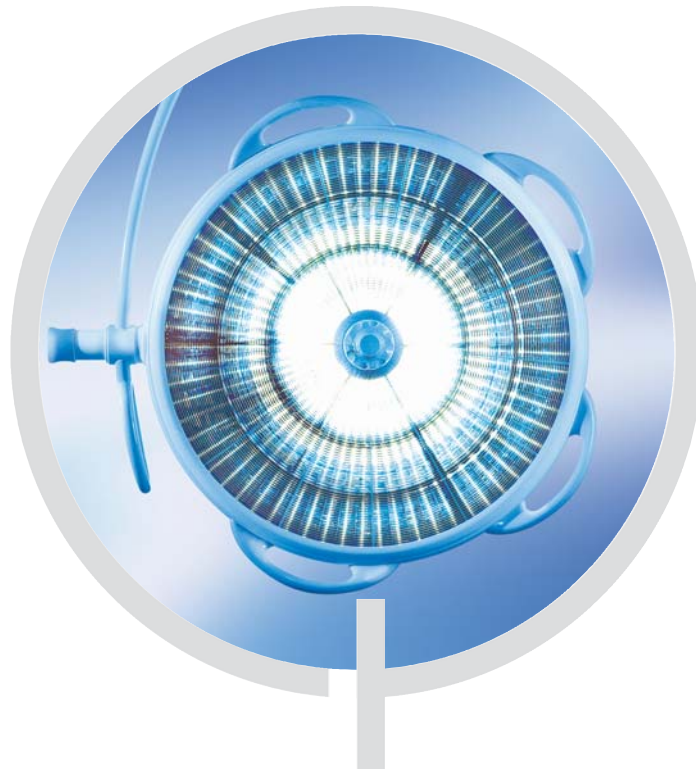
SURGICAL LIGHT
PRISMALIX

SURGICAL WORKPLACES





PRISMALIX, NEW MASTERY OF LIGHT MAQUET - THE GOLD STANDARD



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, Cardiopulmonary or Critical Care - MAQUET always puts the needs of staff and patients in the foreground during product development work. And thus MAQUET satisfies the ever more exacting demands made on the modern hospital - demands for safety, efficiency and economy.

For more than 165 years, MAQUET has provided high quality medical systems and solutions for the global healthcare community. Today, all medical systems products — including our surgical lights, ceiling service units and operating tables — proudly display the MAQUET name, a symbol of

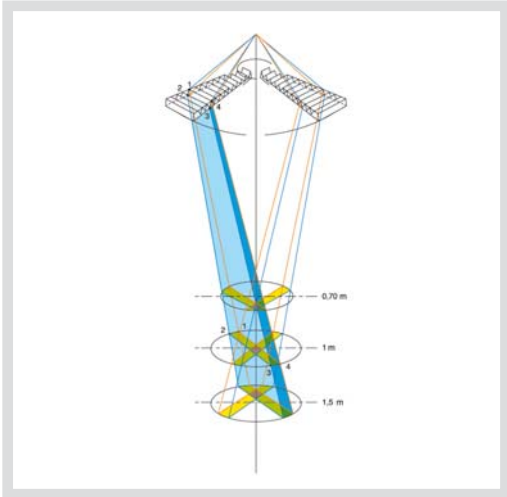
excellence and innovation.

As the recognized leader in providing advanced lighting technologies, the MAQUET PRISMALIX Surgical Lighting Series is at the cutting edge of OR lighting. The superior prism technology in the PRISMALIX system offers a wide range of features:

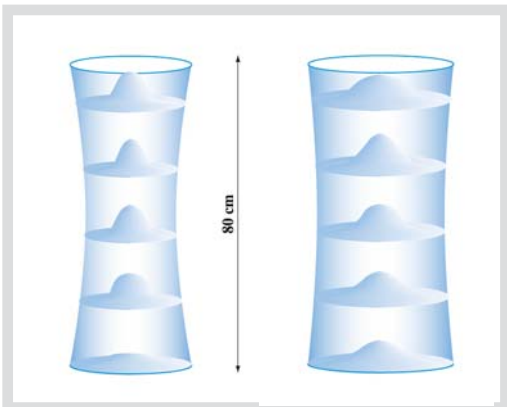
- Excellent illumination
- Superior shadow control
- True color rendition
- Effective heat management
- Easy to maneuver and drift free positioning

MAQUET – The Gold Standard.

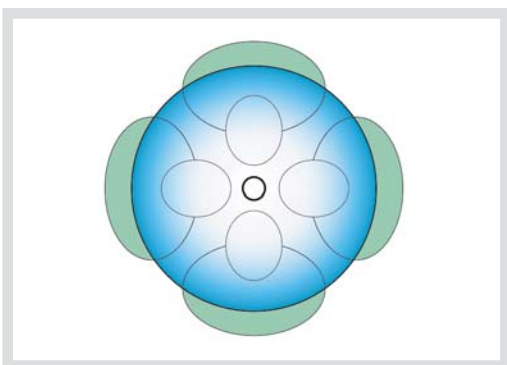
EXCELLENT ILLUMINATION PRISMALIX



PRISMALIX optical principle



Innovative principle of the AVL system.



Shadow reduction facilitated by a broad lighting surface.

A simple, reliable and patented lens system: the prism is the ideal solution to reduce the shadows that interfere with the operating area and deliver a consistent beam of light for all surgical applications. With the AVL (Adjustable Volume of Light) system, the diameter of the beam can be adjusted to suit the size of the surgical cavity.

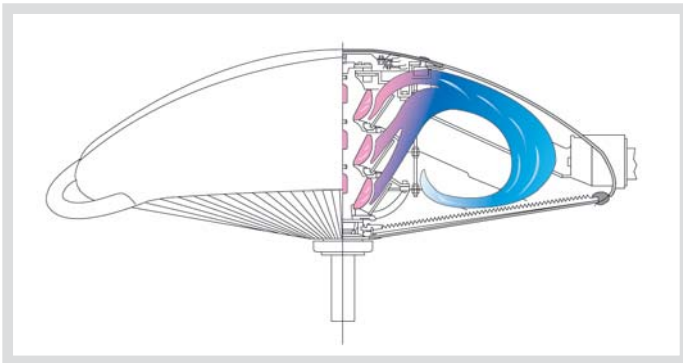
Exceptional visual comfort for the surgical team. The PRISMALIX optical system has been computer optimized to capture every photon of useful visible light. The homogenous distribution of light within the column and light patch, ensures a high level of comfort for the whole surgical team. Absent from the PRISMALIX light are predominant focal points.

Unparalleled shadow reduction in terms of surface area and depth: the under face of the spotlight comprises thousands of minuscule prisms forming as many focused and independent light sources: 2,184 for the PRX 4000, 3,120 for the PRX 6000 and 4,420 for the PRX 8000. The beams from these light sources permanently overlap across the operating field, so that the presence of the surgical team's heads, shoulders and hands cause little interference to the lighting. The shadows created by the masked zones are then automatically "diluted" by the beams of the lighted zones. The very intense lighting surface close to the handle provides excellent lighting of both the deep cavities and the walls.



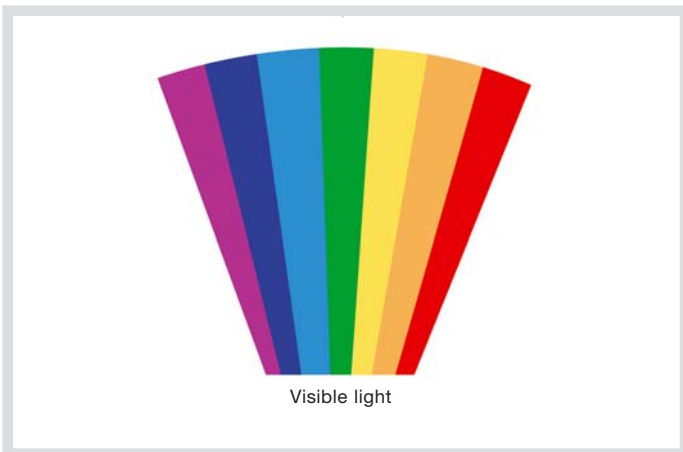


A MASTERY OF LIGHT PRISMALIX



Heat management in an 8000 type cupola.

Heat management: A combination of thermal bridges, optical filters and internal ventilation reduces irradiant and conductive heat emissions to provide a cool and comfortable working environment for the surgical team.



Colour temperature adapted for an energy radiant of less than 6, and a color rendering index (CRI) of 95.

Proper representation of tissue colours. It is critical for an operating light to properly represent colour. Operating lights are used to make critical decisions regarding tissue perfusion and the distinction between diseased and healthy tissue. To assist in these critical decisions the PRISMALIX light operates at an industry leading 95 CRI (Colour Rendering Index 100). Which means that all colours are properly represented. Because the surgical team primarily works within a red tissue environment, the PRISMALIX light has optimized the colour temperature at 3,300 K, which enhances the red tissue spectrum. This proper balance between colour temperature and CRI is achieved through special optical filters.

Aerodynamism of PRISMALIX lighting: MAQUET paid particular attention both to the level of its light heads and to the suspension arms. Of rounded shape and slightly conical combined with a smooth surface and no rough spots, PRISMALIX lighting efficiently reconstitutes the laminar flow at the operating site and thereby contributes to compliance with hygiene requirements in the operating block.

MULTIMEDIA OPENING PRISMALIX

The new information needs in the operating theatres increase in sophistication with every passing day. This is why MAQUET developed the HMS suspension and SATELITE MEDIA system. Together they can convey all types of digital or analogic signals (composite, S-video, RGB, VGA, S-VGA, X-VGA...). During surgical procedures, the surgeon and his team can access patient

information, CT scans, MRI, X-ray or video camera images.

HMS can be mounted (optional) on the PRISMALIX 6000 and 8000 ranges. Offering a 330° rotation, adjustable as needed, the HMS suspension enables positioning the screens within proximity of the users.

6401 ACS/DF configuration mounted on HMS multimedia suspension.

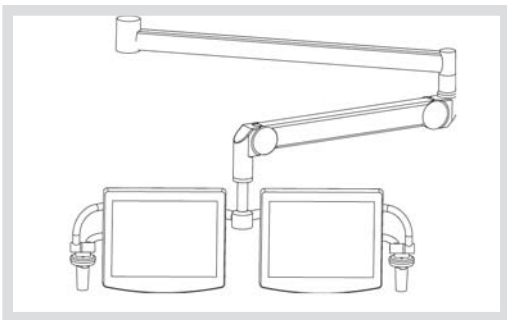




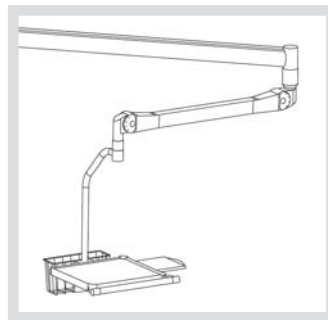
6401 SAL/DF configuration mounted on SATELITE MEDIA system.

The **SATELITE MEDIA system** also meets the multimedia needs. In addition, however, it broadens the range of possibilities and truly optimizes the workspace. This flexible concept

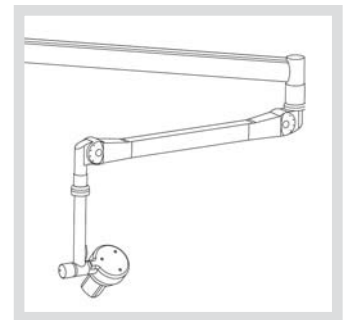
adapts to the needs of the individual user. Miscellaneous equipment such as flat screens, operating task lighting, cameras, electrosurgical unit or PC platforms can be added.



Single or double flat screen unit.



Equipment units.



PRISMAVISION PRV ZOOM camera support.

LIGHT AND VISION: VIDEO OFFERING PRISMALIX



Video within easy grasp: zoom or fixed focus cameras incorporated in the sterile handle compatible with MAQUET telemedicine systems.

Video imaging has become indispensable to the OR environment, driven by the development of video-assisted surgery and the increasing needs in terms of information.

MAQUET has always kept abreast of the latest developments and was among the first to:

- integrate high definition cameras in the sterile handle of the operating lighting,
- make affordable video access by proposing a range of zoom and fixed focus cameras,
- encourage access to upgradability: between the fixed focus camera and the zoom camera.





SMART POWER SUPPLY ENERGIX

Simplicity and ergonomics: Controls are simple and legible: touch panel for on/off and illumination adjustment, with bulb replacement indicators.

Highest hygiene standards: All ENERGIX functions are incorporated in a sealed, completely flat front-panel that guarantees total compliance with the highest operating room hygiene standards.

Remote control and communication: ENERGIX is a genuine communication platform. Its RS 232 port enables simple connection to a computer or remote control systems.

Simplified prevention and intervention: ENERGIX incorporates intelligent software that records all operating parameters and defaults, schedules replacement of consumable items, indicates the need for maintenance inspection and provides other functions which support

preventive maintenance.

All information is displayed on an LCD screen on the front-panel of the unit.

Preventive maintenance aids:

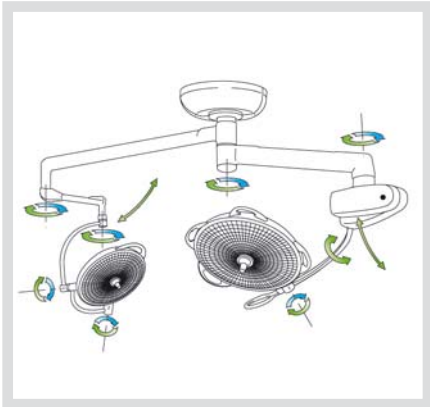
- Programming of maintenance inspections
- Memorization of operating parameters
- Hours of use meter reading: planning of consumable replacements
- Programming of back-up tests
- Battery status control.

Rapid intervention aids:

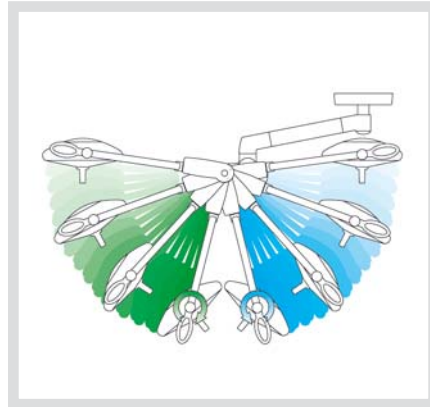
- Self-diagnosis function
- Direct reading of parameters such as voltage, current and temperature
- Traceability management (serial number, software version, production and in service dates).



EASY TO POSITION AND MANOEUVRE PRISMALIX



PRX 8401 ACS kinetics.



Unequalled movement: 210° ACS (Automatic Compensated Suspension).



Bulb replacement.

Optimized maneuverability: PRISMALIX light heads are easy to move and position due to their very compact design, a suspension geometry guaranteeing that all projectors are fully autonomous of the others (360 degree rotation of the « satellite » light head around the « main » light head), user-friendly exterior handles (wide and always within grasp), an unparalleled 210 degree movement on an Automatic Compensation System (ACS), i.e. twice that of existing conventional systems, immediate and absolute stability of the light heads. Simplicity of movement provides further guarantee of the service life of your product.

A wealth of small details to facilitate your work: A

single cover situated on top of each light head. A 1/4 turn of a button is all it takes to open the PRISMALIX light heads and instantly access the bulbs on their holder. The bulb switching system is extremely easy. The bulb and its holder slide naturally into the optical core thanks to a foolproofing device. The materials used in PRISMALIX lights were chosen for their excellent mechanical characteristics and they will make PRISMALIX your ally for many years.

A broad choice of handles adapted to the individual need:

- Standard handle
- Handle for fixed focus camera
- Handle for zoom camera
- Adapter for single-use handle.

THE RANGE PRISMALIX

Optical and photometric characteristics	PRX 4000 / 4000 V	PRX 6000 / 6000 V	PRX 8000
Diameter of lighthouse (cm/inch)	51 / 20"	70 / 27.7"	90 / 35.5"
Illumination (lux)	100,000	110,000	120,000
Diameter of small field (cm/inch)	14 / 5.5"	17 / 6.7"	20 / 8"
Diameter of large field (cm/inch)	17 / 6.7"	21 / 8.3"	28 / 11"
Depth of the volume of light L1 + L2 (cm/inch)	130 / 51.2"	125 / 49.2"	120 / 47.2"
Colour Rendering Index (CRI) (Ra)	95	95	95
Colour temperature (K)	3,300	3,300	3,300
Infrared filtration	Athermal filters	Athermal and dichroic filters	Athermal and dichroic filters
Radiant energy (average) (mW/m ² .lx)	5.5	4.5	4.5

Electrical and mechanical characteristics	PRX 4000 / 4000 V	PRX 6000 / 6000 V	PRX 8000
Voltage at bulb terminals (V)	23	23	23
Number of 24V/100W halogen bulb	1	2	3
Video prewiring	Only on PRX 4000 V cupola	Only on PRX 6000 V cupola	---

Electrical connections	PRX 4000 / 4000 V	PRX 6000 / 6000 V	PRX 8000
Input voltage to the power supply (VAC)	100-120 V / 220-230 V	100-120 V / 220-230 V	100-120 V / 220-230 V
Frequency (Hz)	50 / 60	50 / 60	50 / 60
Output voltage from the power supply	16-27 V AC+DC TRMS adjustable	16-27 V AC+DC TRMS adjustable	16-27 V AC+DC TRMS adjustable

Video camera (optional)	Fixed Focal	Zoom
CCD sensor	1/4" CCD	1/4" CCD
Number of pixels - Standard NTSC or PAL	380,000 or 440,000	380,000 or 440,000
Horizontal resolution (at center) (LTV) - Standard NTSC or PAL	450	470 or 460
S/N ratio (dB)	50	> 50
Lens	---	x 36 motorized zoom
Focal length (mm/inch)	f=25 / 1	f=3.4 to 122.4 / 0.1 to 4.8
Mini. working distance (mm/inch)	700 / 28	320 (wide end) to 1 500 (tele end) 12.6 (wide end) to 59 (tele end)
Aperture	F16	F1.6 to F4.5
Antiflicker	---	Integrated
Autofocus	---	Integrated
Sensibility (lx)	1.6	1.4
Location of camera	Center of lighthouse in sterilizable handle	Center of lighthouse in sterilizable handle
Control Box power supply	Integrated into the projector	100-230 V ; 50-60 Hz ; 50 VA
White balance	Auto	Auto / manual
Foot control	---	Optional
Control Box	---	Wall mounted or mobile
Video signal output	75 ohm / external BNC plug-composite	75 ohm / external BNC plug-composite
Serial link interface	---	RS-232

All values are measured in conformance with IEC 60601.2.41.

TECHNICAL DATA

ENERGIX



WPS 580 battery pack for a rapid relay of the network in less than 0.2 second.



Surface mounted onto the wall box.



Command relay mounting.

Electrical and mechanical characteristics	
Power supply (input)	100-120 / 220-230 VAC
Output voltage	16-27 AC+DC TRMS
Frequency	50 / 60 Hz
Power supply type	Secondary switching "MOS FET" type
Back up option	Integrated battery charger and switch
Mother board (CPU)	Display management and serial link interface
Display	LCD display
Controls	Keypads
Max. distance for remote control	50 m through I2C bus (164')
Dimensions (w x h x d)	360 x 340 x 120 mm (14.2" x 13.4" x 4.7")
Battery pack dimensions (w x h x d)	180 x 415 x 189 mm (7.1" x 16.4" x 7.5")

Ref.	Type	ON/OFF	Mother Board ¹	LCD Display	Back-up switching ²	Chargeur ³
WPS200	160 Watt	■				
WPS201	160 Watt	■	■	■	■	■
WPS203	160 Watt	■	■	■		
WPS220	2*160 Watt	■				
WPS221	2*160 Watt	■	■	■	■	■
WPS223	2*160 Watt	■	■	■		
WPS400	360 Watt	■				
WPS401	360 Watt	■	■	■	■	■
WPS403	360 Watt	■	■	■		
WPS420	360 + 160 Watt	■				
WPS421	360 + 160 Watt	■	■	■	■	■
WPS423	360 + 160 Watt	■	■	■		
WPS440	2*360 Watt	■				
WPS441	2*360 Watt	■	■	■	■	■
WPS443	2*360 Watt	■	■	■		

¹ LCD display management and RS 232 serial link interface.

² Switch to batteries in case of mains failure and auto-charge of batteries.

³ Battery interface (sealed PB 24V 24AH batteries sold separately).

MAQUET

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