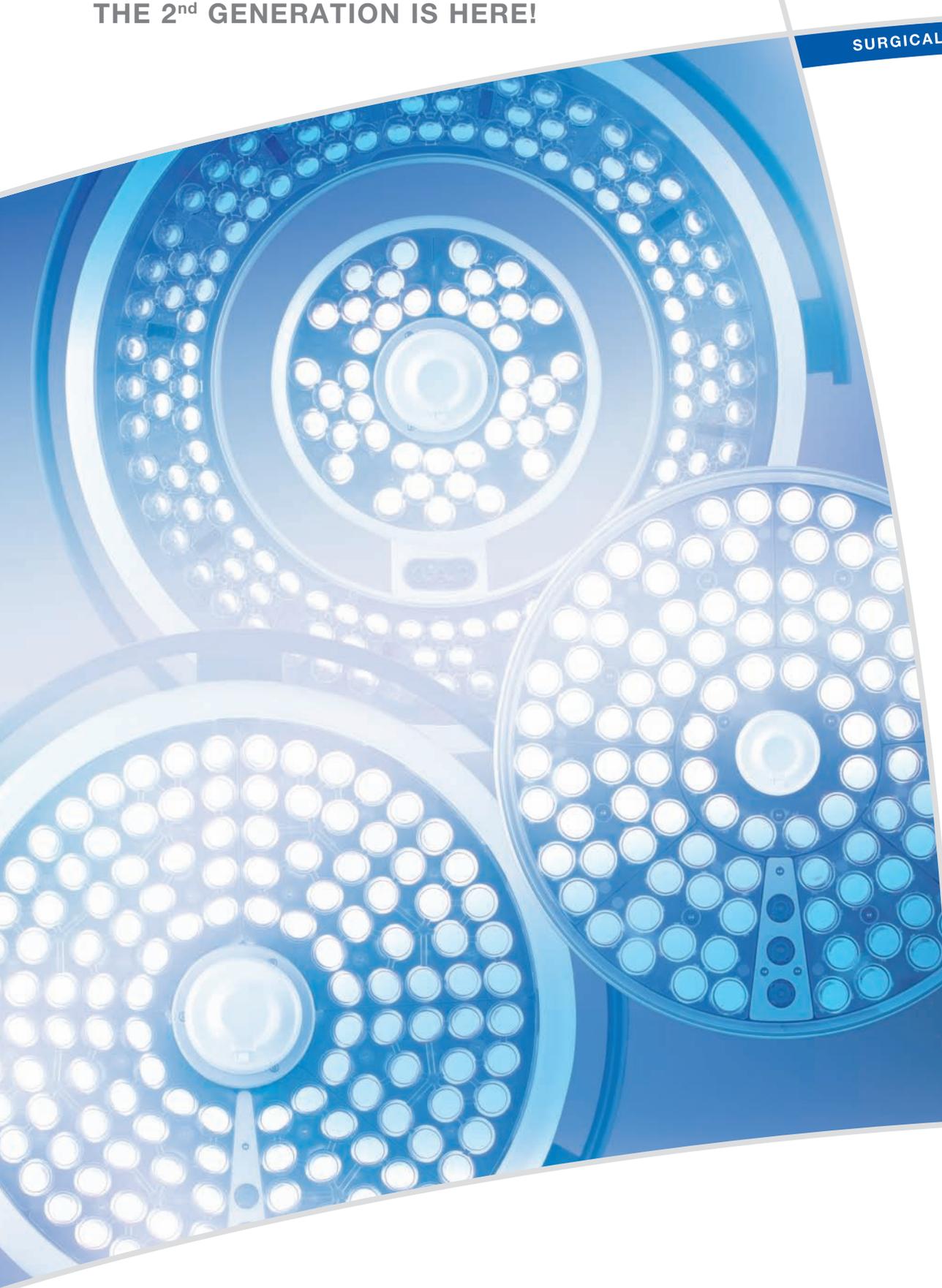


MAQUET

PowerLED

THE 2nd GENERATION IS HERE!

SURGICAL WORKPLACES





PowerLED: POINT & SHOOT 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, Cardio Vascular 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 (operation costs).

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 leader in design and innovation. Combined with the extensive line of ceiling pendants systems, MAQUET provides the most comprehensive solutions for various areas in the hospital.

Recently, advances in Light Emitting Diode (LED) technology have led MAQUET to adopt this innovation as the springboard to a new era of surgical lighting. With its modern appearance, the PowerLED system sets a new standard of illumination quality, safety, comfort and operational efficiency, while taking care to sustainable development.

MAQUET – The Gold Standard.

2nd GENERATION OF LED PowerLED



True Comfort

- 2nd generation of white LED
- "Always-in-focus" illumination with an exceptional depth of field and volume of light
- Efficient and consistent light patch
- Clear tissue visualisation: optimized white LEDs cover the entire visible colour spectrum required for demanding surgeries
- Unparalleled heat management: prevents tissue desiccation



Flux Stability Program

- A patented LED luminous flux management
- Dynamic electronic control of illumination





AIM, AUTOMATIC ILLUMINATION MANAGEMENT PowerLED

AIM, for improved working conditions:

- First OR light with adaptive illuminance to surgeon's presence
- Safe and consistent lighting of the surgical field
- Sensor driven management: masked areas around surgeon's head are reduced whereas remaining zones are boosted
- 100 % freedom of movement
- Less heat on surgeon's head

Shadow-free illumination:

- Large illuminating surface: shadows created by obstructed areas are immediately diluted by diverging beams from illuminated areas
- The symmetric shape of the light head provides an ideal shadow control whatever the surgeon position, thanks to the overlapping beams technology





FULLY LAMINAR FLOW COMPLIANT PowerLED

5 stars laminar flow compliant:

- Coolflow design
- Smooth surface
- Excellent heat dissipation
- No visible uprise of air observed towards the ceiling
- 24,5% turbulence degree. Far below the planned limit of 37,5% defined in the DIN standard 1946 part 4

Fully hygienic:

- Striking sleek lines without cutting edges
- Rounded curves and smooth surfaces for quick and easy cleaning
- Shock resistant coating



READY FOR TRUE HD APPLICATIONS PowerLED

PowerLED integrates a new platform perfectly designed for video applications:

- HD arm systems: modern multimedia signals, standard definition up to full high definition ones, can be easily routed through
- ORCHIDE HD, a 2 million pixels full HD video camera: a resolution 5 times higher than conventional ones
- Realistic images and accurate color restitution for patient documentation, video conferences and training
- Reflections from stainless steel are invisible



ALWAYS AVAILABLE PowerLED

Long service life

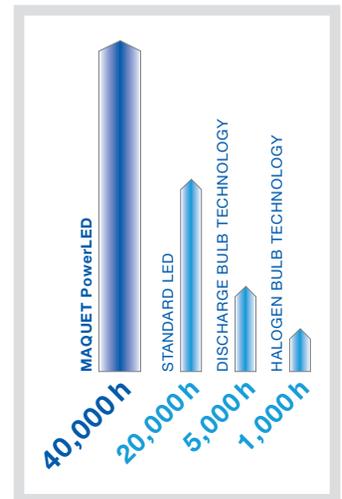
- 40 times longer than halogen bulbs
- Virtually no light source replacements, low maintenance required

Always operational when needed

- High number of LED
- Smart electronics
- 5 times less parts than conventional halogen systems
- A “solid-state” light: no moving parts

Low energy consumption

- Reduced energy consumption by 30%





CLEAN TECHNOLOGY LIGHT PowerLED



PowerLED complies with GETINGE's environmental policy. The overall objective is to minimise products impact on the environment by utilising resources efficiently in product development, manufacturing processes and in operation

PowerLED operating lights were designed with sustainability in mind, without compromising its performances and operational efficiency.

- Hazardous substances are dropped to a minimum
- 90% of PowerLED is made of aluminium: this material, indefinitely recyclable, reduces raw materials
- Reduced packaging: compact and efficient, it decreases the amount of used material and induced waste but also lowers CO₂ emissions due to a better shipment efficiency
- LED life expectancy is 40 times longer than halogen ones resulting in less energywaste over 15 years
- Low energy consumption
- Curved and smooth sleek surface, limiting dust deposition and cleaning procedure while minimizing use of detergents and cleaning solutions

DESIGNED TO CATER FOR ALL NEEDS PowerLED



Single PowerLED 300 configuration, double fork.



Single PowerLED 700 configuration, single fork, ideal for low ceiling height.



Dual PowerLED 500 configuration, single fork, ideal for low ceiling height rooms.



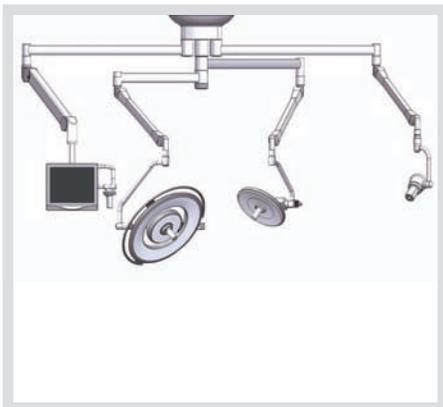
Dual PowerLED 700 configuration, double fork for excellent maneuverability.



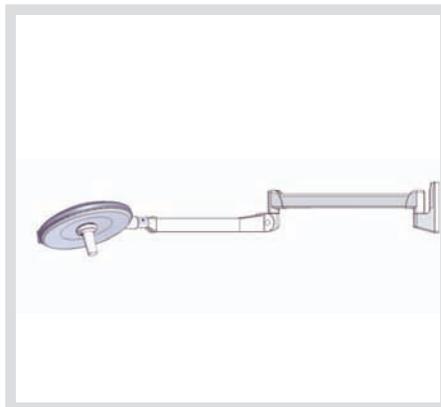
Dual PowerLED 700/500 configuration with double flat screens.



A SATELITE-based multimedia configuration: PowerLED 300, single flat screen and ORCHIDE HD camera.



Dual PowerLED 700/300 with single flat screen and ORCHIDE HD camera. A unique multimedia configuration, thanks to SATELITE system.



Wall-mounted PowerLED 300 configuration.



PowerLED ROLITE & ROLITE CLASSIC. Always operational when needed (available with or without batteries).

TECHNICAL DATA

PowerLED

Optical and photometric characteristics	PowerLED 700	PowerLED 500	PowerLED 300
Technology	LED	LED	LED
Diameter of lighthead (cm/inch)	74/29.1	58/22.8	45/17.7
Illumination (lx)	> 110,000	> 100,000	> 100,000
Field diameter* (cm/inch)	26 (+/- 10%) / 10.2 (+/- 10%)	24 (+/- 10%) / 9.4 (+/- 10%)	17 (+/- 10%) / 6.7 (+/- 10%)
Depth of the volume of light L1 + L2 (cm/inch)	120/47.2	120/47.2	100/39.4
Colour Rendering Index (CRI) (Ra)	> 90	> 90	> 90
Colour temperature (K)	3,800 (+/- 15%)	3,800 (+/- 15%)	3,800 (+/- 15%)
Radiant energy (average) (mW/m ² .lx)	< 4	< 4	< 4
FSP (Flux Stability Program)	Yes	Yes	Yes
AIM (Automatic Illumination Management)	Optional	N/A	N/A
Ambient light characteristics	PowerLED 700	PowerLED 500	PowerLED 300
Illumination (lux)	50 to 300	50 to 300	50 to 300
Illuminated field (cm/inch)	100/39.4	100/39.4	100/39.4
Electrical and mechanical characteristics	PowerLED 700	PowerLED 500	PowerLED 300
Power supply input voltage (V)	100-120/220-230	100-120/220-230	100-120/220-230
Lighthead power consumption (W)	250	150	100
Frequency (Hz)	50/60	50/60	50/60
Video prewired	Only on PowerLED Video	Only on PowerLED Video	N/A
Illumination adjustment (%)	30-100	30-100	30-100
Service life (hrs)	> 40,000	> 40,000	> 40,000

Video Camera Range	Fixed focal	Zoom	ORCHIDE HD
CCD sensor	1/4" CCD	1/4" CCD	1/3" Cmos
Signal system	NTSC or PAL	NTSC or PAL	1080i
Effective number of pixels	380,000 (NTSC) or 440,000 (PAL)	380,000 (NTSC) or 440,000 (PAL)	2,000,000
Horizontal resolution (at center) (LVT) - Standard NTSC or PAL	450	460 or 470	N/A
Aspect Ratio	4:3	4:3	16:9
S/N ratio (dB)	50	> 50	> 50
Lens (zoom range)	---	36x motorized zoom	120x motorized zoom
Focal length (mm/inch)	f= 25/1	f= 3.4 to 122.4/0.1 to 4.8	f= 5.1 to 51.0/0.2 to 2
Mini. working distance (mm/inch)	700/28	320 (wide end) to 1,500 (tele end)/ 12.6 (wide end) to 59 (tele end)	10 (wide end) to 800 (tele end)/ 0.4 (wide end) to 31.5 (tele end)
Aperture	F16	F1.6 to F4.5	F1.8 to F2.1
Antiflicker	---	Integrated	Integrated
Autofocus	---	Integrated	Integrated
Sensitivity (lx)	1.6 (F1.6, 50 IRE)	1.4 (F1.6, 50 IRE)	12 (F1.8, 50 IRE)
Location of camera	Center of lighthead in post for sterilizable handle	Center of lighthead in post for sterilizable handle	Separate arm
Control box power supply	Integrated into the projector	100-230 V ; 50/60 Hz ; 50 VA	100-230 V ; 50/60 Hz ; 50 VA
White balance	Auto	Auto/manual	Auto/manual
Foot control	---	Optional	Optional
Control box	---	Wall mounted or mobile	Mobile
Video signal outputs	SD: composite (1x)	SD: composite (2x)	HD: Component YPbPr (2x) DVI-D (1x) HD-SDI (2x) SD: Y/C (1x) composite (1x)
Serial link interface	---	RS-232	RS-232/RS-485

* Field diameter given for 10% of central illumination 1 m under the cupola.
All values measured according to IEC 60601-2-41.

MAQUET SA Quality System is certified according to:
ISO 9001: 2000 - NF en ISO 13485: 2004
Directive 93/42/EEC (Medical Devices)



Subsidiaries

Australia:

MAQUET Australia Pty Ltd
P.O. Box 50, Bulimba
Queensland 4171, Australia
Phone: +61 (0) 7 33 99 33 11

China:

MAQUET (Shanghai) Medical Equipment Co., Ltd.
7F, Metro Plaza, 555 Lou Shan Guan Road,
Shanghai 200051, P.R. China
Phone: +86 (0) 21 62280202

Middle East:

MAQUET Middle East
Al Shatha Tower
Office 2208, 22nd Floor
Dubai Media City, Dubai
Phone: +97144293205

Finland:

MAQUET Nordic Suomi
Vattuniemenkatu 23
00210 Helsinki, Finland
Phone: +358 9 682 412 60

Hong Kong:

MAQUET Hong Kong Limited
1105 -1107 Grand Century Place I
193 Prince Edward Road West
Mongkok, Kowloon, Hong Kong
Phone: +852 2393 9 511

India:

MAQUET Medical India Pvt. Ltd.
2nd Flr, Mehta Trade Centre
Sir M V Road, Andheri (East)
Mumbai - 400099, India
Phone: +91-22-4069 2100

Korea:

MAQUET Medical Korea Co., Ltd
#801, UnionCenter Building
837-11, Yeoksam-dong, Kangnam-gu
Seoul 135-754, Korea
Phone: +82 2558 2271

Latin America:

MAQUET do Brasil Ltda.
Rua Said Aiach 161, Paraíso
04003-20 São Paulo /SP, Brasil
Phone: +55 (0) 11 2126 2500

Netherlands:

MAQUET Netherlands B.V.
Oscar Romerolaan 3
1216 TJ Hilversum, Netherlands
P.O. Box 388
1200 AJ Hilversum, Netherlands
Phone: +31 (0) 35 6255320

For local contact:

Please visit our Website
www.maquet.com

MAQUET

MAQUET SA
Parc de Limère
Avenue de la Pomme de Pin
CS 10008 Ardon
45074 Orléans cedex 2, France
Phone: +33 (0)2 38 25 88 88
Fax: +33 (0)2 38 25 88 00
www.maquet.com

Republic of Ireland:

MAQUET Ireland
Unit B6
Calmount Business Park
Ballymount
Dublin 12, Republic of Ireland
Phone: +353 (0) 142 60032

Russia:

MAQUET LLC
Stanislavskogo 21, Bld. 7
109004 Moscow, Russia
Phone: +7 495 514 0055

Slovakia:

MAQUET Medizintechnik
Vertrieb und Service GmbH - o.z.
Soltsevej 12
811 08 Bratislava, Slovakia
Phone: +421 2 50219 150

South East Asia:

MAQUET South East Asia Pte Ltd
20 Bendemeer Road
#06-01/02 Cyberhub Building
Singapore 339914, Singapore
Phone: +65 6296 199

Switzerland:

MAQUET AG
Wilerstrasse 75
9200 Gossau, Switzerland
Phone: +41 (0) 71 33503-0

Turkey:

MAQUET Tibbi Sistemler San. Ve Tic. Ltd. A.S.
Sales & Service Unit
Tekstilkent Garanti Koza Plaza A-Blok
Kat 8, Esenler
34320 Istanbul, Turkey

United Kingdom:

MAQUET Ltd.
14-15 Burford Way
Baldon Business Park
Sunderland
Tyne & Wear, NE35 9PZ, United Kingdom
Phone: +44 (0) 191 519 6200

Vietnam:

MAQUET South East Asia Pte Ltd (Vietnam)
41 Nguyen Thi Minh Khai
Unit 604, Yoco Building District 1, Ho Chi
Minh City
Vietnam
Phone: +84 8 8243 391, 8243 392

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