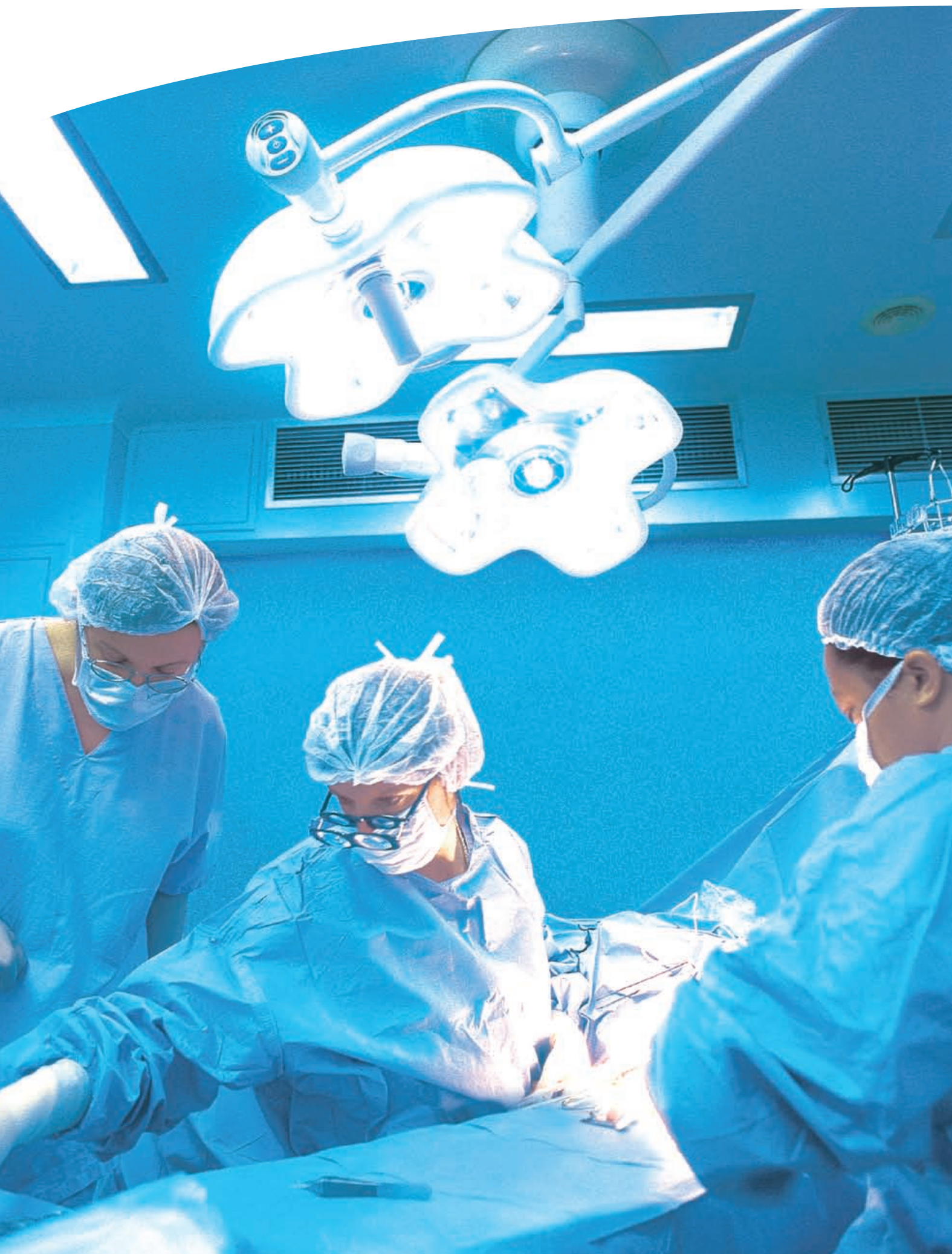


MAQUET

SURGICAL LIGHT AXCEL

SURGICAL WORKPLACES





AXCEL, A NEW LIGHTING APPROACH 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 modern hospital – demands for safety, efficiency and economy.

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

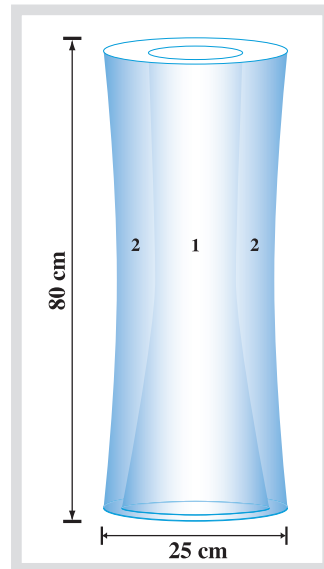
known as the world's leader in design and innovation. Combined with the extensive line of ceiling pendants systems, MAQUET provides the most comprehensive solutions for various areas in the hospital.

With the AXCEL range, MAQUET offers a wide range of examination and surgical lights, with many key advantages like:

- A large light patch
- A cool and comfortable lighting
- A true color rendering
- A cross-shaped design

MAQUET – The Gold Standard.

AN EXCEPTIONAL LIGHTING EFFICIENCY AXCEL



The AXCEL volume of light:
1-Optical contribution of centre port.
2-Optical contribution of external mirrors.

Unique light distribution: The newly designed optical system creates a consistent and deep volume of light, for superior penetration: no need to refocus with this proven diverging technology. The resulting illumination of 100,000 Lux over a 22 cm diameter light patch ensures a perfect tissue visualisation in surface as well as in cavity.

Cool, comfortable lighting: AXCEL has the key advantage of efficiently projecting useful (visible) light while eliminating the majority of the heat component. The frosted cold dichroic mirrors filter out more than 96 % of the IR radiation. As a result, the 3.8 mW/m².lx radiant energy provides comfort for the operating team and safety for the patient.



True color rendition. Internal tissues and organs colors range from yellow to red. This is precisely the spectrum from which AXCEL's color temperature was designed to offer maximum intensity and color definition. To achieve this performance, AXCEL incorporates patented high tech dichroic mirrors yielding a color temperature of 3 500 K with the highest color rendering index (CRI) of 95. AXCEL therefore reduces color distortion and reveals true tissue color.

Cross-shaped design causes:

- Lightweight lighththead
- Ease of embedding to enhance operational efficiency
- Outstanding manoeuvrability
- Unique compliancy with laminar flow ceiling



SUSPENSIONS AXCEL

The AXCEL range offers 3 choices of suspensions covering all applications from examination rooms to operating theatres. Either wall or ceiling versions, these suspensions meet all applicable lighting and safety standards.

Standard suspension: « the all in one ».

Existing in wall, ceiling ; simple or dual configurations, this suspension integrates a transformer and allows light adjutment directly on the lighthead. Adapted to any type of room, it makes installation easier.

The « S » suspension: for more security.

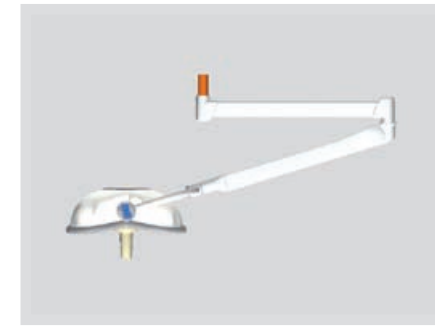
This suspension, combined to the smart ENERGIX power supply, guarantees the patient a maximum security. Not only simple controls but also preventive maintenance alerts totally comply with the highest medical standards.

The « Advanced » suspension: multimedia orientated.

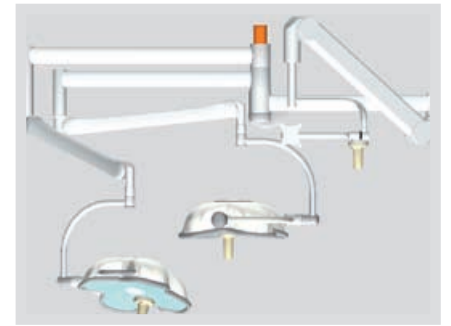
The « Advanced » suspension, fully compatible with the SATELITE system, answers increasing demands for multimedia applications inside the operating room. It can accomodate sophisticated bundles of video cables and any kind of flat screens as long as they are equipped with VESA standards.



AXCEL Standard



« S » suspension



« Advanced » suspension.



DETAILS WHICH MAKES THE DIFFERENCE AXCEL



LEDinside ambient light: a ring of leds dedicated to minimally invasive surgery and especially endoscopic procedures thanks to its soft illumination. Available on AXCEL +, this technology is based on a patented « LEDinside » technology, ensures proper lighting, improves screen vision, reduces eye fatigue and is ideal for :

- preparation before and assistance during surgery
- patient monitoring
- minimally invasive surgery

Fast and easy bulb replacement: the AXCEL light bulb can be replaced quickly and easily without tools.



A multifunctional ergonomic handle to:

- control illumination levels
- position the lighthead as needed
- protect against inadvertent contact with walls or other surgical equipment

A clean tech light:

The AXCEL light has been designed and manufactured with smaller environmental footprint :

- Electronics consumption is reduced to a minimum with a specific emphasis on lux efficiency: more lux with less watt.
- Special care was taken to select recycling materials and smooth surfaces facilitating cleaning procedures and minimizing detergent solutions.

AXCEL fits in 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.



TECHNICAL DATA
AXCEL

| Optical and photometric characteristics | AXCEL STANDARD | AXCEL S | AXCEL + |
|--|------------------|------------------|------------------|
| Diameter of lighthouse (cm/inch) | 57 / 22 | 57 / 22 | 57 / 22 |
| Illumination (small field)* (lux) | 100,000 | 100,000 | 100,000 |
| Diameter of small field* (cm/inch) | 22 / 8.7 | 22 / 8.7 | 22 / 8.7 |
| Depth of the volume of light L1+L2 (cm/inch) | 101 / 39.8 | 101 / 39.8 | 101 / 39.8 |
| Colour Rendering Index (CRI) (Ra) | 95 | 95 | 95 |
| Colour temperature (K) | 3,500 | 3,500 | 3,500 |
| Infrared filtration | Dichroic mirrors | Dichroic mirrors | Dichroic mirrors |
| Radiant energy (average) (mW / m².lx) | 3.8 | 3.8 | 3.8 |

| Leds characteristics | AXCEL STANDARD | AXCEL S | AXCEL + |
|------------------------|----------------|---------|---------------------|
| Led illumination (lux) | --- | --- | 50 / 90 / 140 / 210 |
| Illuminated field | --- | --- | 100 / 39.4 |

| Electrical and mechanical characteristics | AXCEL STANDARD | AXCEL S | AXCEL + |
|---|--------------------------------|--------------|--------------|
| Voltage at bulb terminal (V) | 23.5 | 23.5 | 23.5 |
| Number of 24 V / 100 W halogen bulb | 1 | 1 | 1 |
| Dimmer location | On the cupola | On the wall | On the wall |
| Power supply | Integrated into the suspension | Wall-mounted | Wall-mounted |

| Configurations | AXCEL | AXCEL S | AXCEL + |
|--------------------|--------------------------|--------------------------|-----------------|
| Type of suspension | Standard | S | Advanced |
| Version | Wall and ceiling mounted | Wall and ceiling mounted | Ceiling mounted |



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GETINGE

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