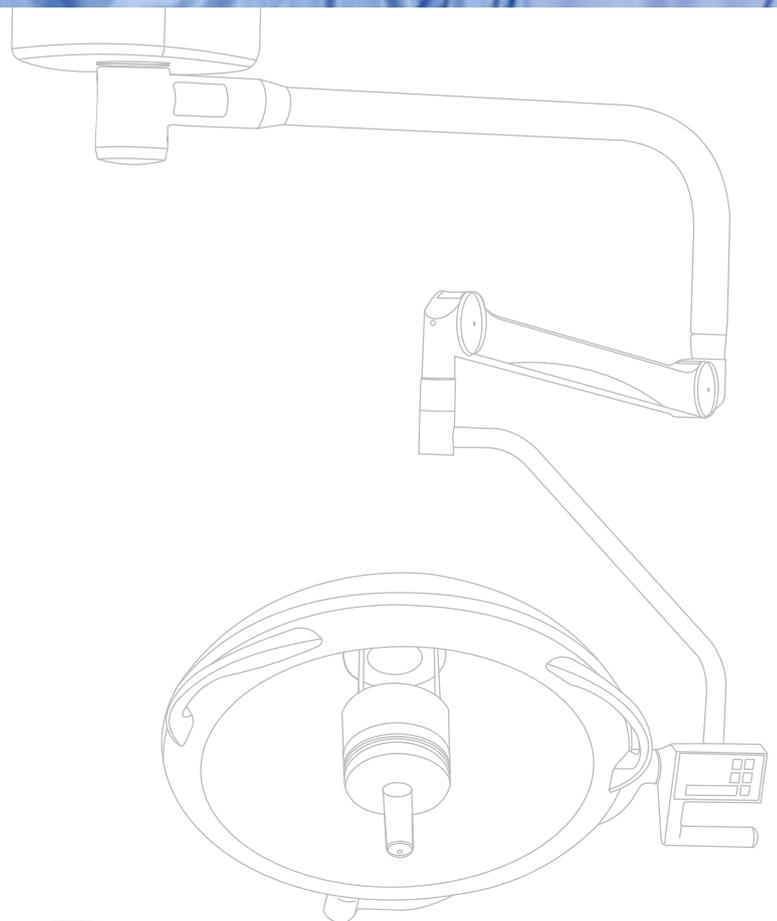




Toplite-F/G/P

Surgery Shadowless Lamp



Feature

- Extremely long working life
- High quality light yield
- Low heat generation
- Ergonomical Design for efficiency
- Adaptability to individual situation

Customer-oriented philosophy

Complete operating room solution

The quantum leap becomes especially apparent in modern operating room, with criteria for safety, efficiency and economy. Bringing expertise in surgical illumination and ceiling supply units, Heal Force offers integrated operating room systems throughout the industry for the benefit of patients and medical staff.

Introduction

Heal Force operating light systems provide superior performance to satisfy the ever-growing user needs in diverse surgical fields, including general surgery, micro surgery, E.N.T., OB/GYN, orthopedic and cosmetic surgery. No matter what the application or conditions, the result is excellent illumination in the surgical field and optimum position adjustment, which have come to be highly valued by customers all over the world.





Toplite-F7262
(with internal camera and external monitor)



Shadow reduction control

Up to 2000 reflector facets, designed by CAD/CAM, are applied in the reflector system to create homogeneous uniformly light beam projected to the surgical field. The vertical light column is not only as bright as daylight, it also free of hard shadows, and ensures excellent vivid vision, even if the surgeon block part of light source with head, shoulder and arms.

Aerodynamic design offer little turbulence

We understand a sterile working environment is pivotal in an operating room. The flat and compact design of the light head with a smooth and sealed surface reduces the disruption of laminar air flow and provides more sterile working environment.

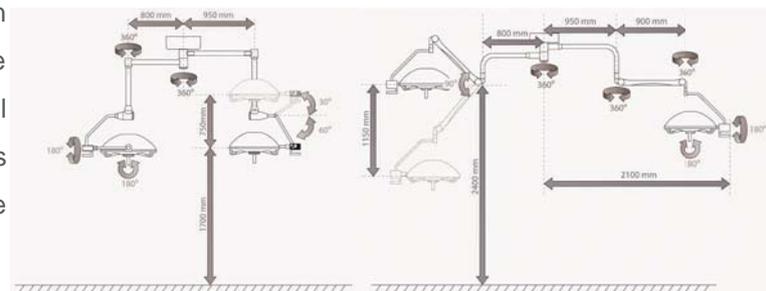




Maximum flexibility and efficiency

Each lighthead is supported with our suspension arms systems with 6 universal 360°-rotatable joints*. The sterilisable handle and surrounding rail allow the lighthead to be positioned with ease. This provides unlimited mobility in order to make the surgery more smooth and easier.

*not applied in Toplite-P series



Optimum adjustment



Optimum light quality

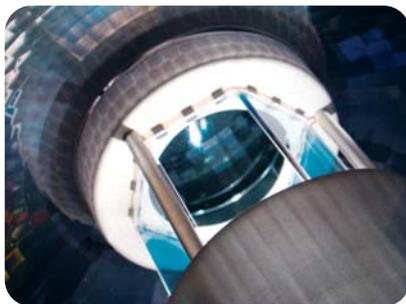
The entire Toplite family always gives you the OR light you need. Cool, natural white light, comparable to daylight, let the surgeon differentiate down to smallest details in the surgical field. The enormous depth of illumination and a large homogeneous light column penetrate into the deepest surgical caverns.

Deep penetration focus point cascade



Toplite-P6000

Toplite-G7000/6000
(mobile system with battery backup)



A specially coated endothermic system

Heat management

A specially coated endothermic system built in Toplite family helps to absorb and obstruct most of the undesired infrared radiation generated in the light cone. A cool light without infrared reduces tissue desiccation (dehydration) to an absolute minimum, and avoids the problem of heating the area around the surgeon's head, providing a pleasant working environment, even for surgeries that last a long time.

Durable and reliable with a backup solution

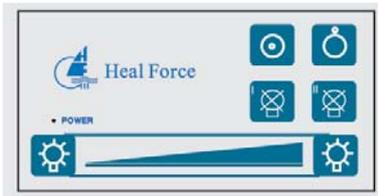
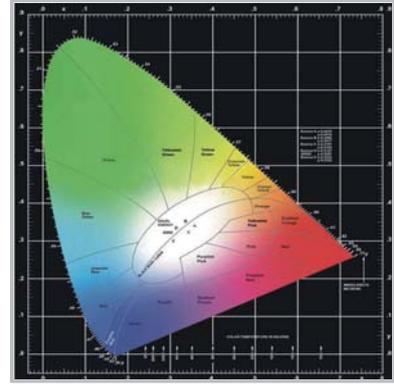
Using the long-lasting OSRAM halogen lamp ensures a light with constant quality and colour temperature over the entire lamp life cycle of over 1,000 service hours on average. However, should the light source fail, a switch mechanism automatically activates a second light source that is swiveled into the optical centre of the light within 0.5 seconds. This means neither focus nor light intensity are effected.



Easy: lighting fast replacment

Daylight-quality illumination

Internal tissues and organs colors range from yellow to red. So color fidelity is a vital factor for surgical field illumination. Toplite incorporates the well-proved technology yielding color temperature of 42,00K with the highest color rendering index (CRI) of 95. It therefore reduces color distortion and distinguish clearly between a variety of tissues.



Quick, intuitive and convenient operation

You can control all functions quickly and intuitively via the easy-to-use soft key touch panel on the light head. The central handle controls the adjustment of the light field size. Large external handles facilitate positioning of the light by non-sterile personnel without any exposed sharp edges or crevices, cleaning and disinfecting is effortless.

A wide range of combination

In order to meet different customer needs, Surgical lights can be combined with each other in any way and with camera systems and monitors. They can be attached to the ceiling or wall. Mobile lights are also available as an option. Further equipment options, such as a battery backup system or low/high ceiling height can be selected to adapt the Toplite OR light system to your special requirements.

Toplite series and models

	<i>Toplite-FII</i>	<i>Toplite-F</i>	<i>Toplite-G</i>	<i>Toplite-P</i>
	F7272	F7070	G7070	P7070
<i>Ceiling mounted (Dual lighthoods)</i>	F6262	F6060	G6060	P6060
	F7262	F7060	G7060	P7060
<i>Ceiling mounted (Single lighthouse)</i>	F7200	F7000	G7000	P7000
	F6200	F6000	G6000	P6000
<i>Wall mounted</i>	F7200W	F7000W	G7000W	N/A
	F6200W	F6000W	G6000W	N/A
<i>Mobile</i>	F7200L	F7000L	G7000L	N/A
	F6200L	F6000L	G6000L	N/A
<i>Mobile with battery</i>	F7200LE	F7000LE	G7000LE	N/A
	F6200LE	F6000LE	G6000LE	N/A



Arm-mounted Camera



Wall-mounted Camera



Built-in Camera

Camera system (Optional)



Camera in Toplite operating lights can either be integrated into the center of a light head, mounted on wall or installed on a separate suspension arm. This ensures an excellent view of the surgical site for any intervention. TFT Monitor support arm make it possible to position medical screen with large tilt and swivel ranges.

Communication and information nowadays play a vital role in many surgical, endoscopic and other imaging interventions and procedures. Specifically, digital image documentation of surgical procedures and live operations are increasingly gaining importance. In conjunction with our novel Toplite operating light, the digital camera system from Heal Force gets you directly in touch with what's happening in the OR – live.

- All major manufacturer monitors can be purchased directly through us. Just ask! We would be glad to be of assistance.
- Camera may be upgraded to new models without notice, please contact our salesperson for details.



Technical data (Camera system)

Image Sensor	1/4" CCD
Lens	22× optical zoom lens, 10× digital zoom
Horizontal Resolution	≥480 lines
Minimum Luminance	0.01Lux
S/N Ratio	>52dB
Aperture	Automatic, manual
Shutter	Automatic, fixed
Lens Control	Independent control system
White Balance	Automatic
Scan System	PAL, 625 lines, 25 frames/sec
Effective Pixels	752(H)×582(V)



Rechargeable Backup Battery
(Optional for Toplite-F&G series Mobile types)



Rechargeable Backup Battery
(Optional for Ceiling-mounted Toplite-F/G/P series)

Technical data (Toplite-FII / Toplite-F)

Series & Type	Toplite-FII	Toplite-F
Light Source Technology	Anodic oxidation, multi-facet reflection	Blue theca plating, multi-facet reflection
Dome Cover	Explosion-proof, transparent PC plastic	Explosion-proof, transparent PC plastic
Shape	Streamline shape, satisfying laminar flow purification requirement	
Arm & Joint	Universal 6-joint spring suspension arm	Universal 6-joint spring suspension arm
Safety	Back-up bulb system, explosion-proof, etc.	Back-up bulb system, explosion-proof, etc.
Illumination intensity (Lux)*	120000~160000	140000~160000
Color Temperature (K)	4200±500	4200±500
Color Reduction Index (Ra)	90±5	90±5
Focusing Depth (mm)	>600	>600
Diameter light field (mm)	120~320	120~288
Rated Power per Dome (W)	200	200
No. of Bulb	2 (1 primary & 1 back-up)	2 (1 primary & 1 back-up)
Bulb spec. (V/W)	24 / 150	24 / 150
Power supply	AC 220~230V/ 50~60Hz, 110V/60Hz	AC 220~230V/ 50~60Hz, 110V/60Hz
Mounting options	Ceiling, wall, mobile	Ceiling, wall, mobile
Installation Height	Standard room height at 2750~3100mm, customizable for 2400~2750mm & >3100mm	

* The luminance is customizable for Toplite-FII / Toplite-F. Please specify in your order.
All specifications are subject to change without prior notice

Technical data (Toplite-G / Toplite-P)

Series & Type	Toplite-G	Toplite-P
Light Source Technology	Blue theca plating, multi-facet reflection	Blue theca plating, multi-facet reflection
Dome Cover	Explosion-proof, rippled PC plastic	Explosion-proof, rippled PC plastic
Shape	Streamline shape, satisfying laminar flow purification requirement	
Arm & Joint	Universal 6-joint spring suspension arm	Standard
Safety	Back-up bulb system, explosion-proof, etc.	Back-up bulb system, explosion-proof, etc.
Illumination intensity (Lux)*	120000~160000	120000~160000
Color Temperature (K)	4200±500	4200±500
Color Reduction Index (Ra)	90±5	90±5
Focusing Depth (mm)	>600	>600
Diameter light field (mm)	120~280	120~280
Rated Power per Dome (W)	200	200
No. of Bulb	2 (1 primary & 1 back-up)	2 (1 primary & 1 back-up)
Bulb spec. (V/W)	24 / 150	24 / 150
Power supply	AC 220~230V / 50~60Hz, 110V/60Hz	AC 220~230V / 50~60Hz, 110V/60Hz
Mounting options	Ceiling, wall, mobile	Ceiling
Installation Height	Standard room height at 2750~3100mm, customizable for 2400~2750mm & >3100mm	

* The luminance is customizable for Toplite-G / Toplite-P. Please specify in your order.
All specifications are subject to change without prior notice



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