

Heal Force OR Series

# Toplite-G/P

## Surgery Shadowless Lamp



Heal Force leads you to healthier life

# Toplite-G/P

## Surgery Shadowless Lam Surgery Illumination & Camera System

### Features

#### • Universal 6-joint Spring Suspension Arm

Spring suspension arms with 6 universal 360°- rotatable joint meet the needs of various heights, angles and patient' s positions. Two advanced technologies of fatigue correction and positioning adjustment are used to position the arm precisely and conveniently. (not applied in Toplite-P series)



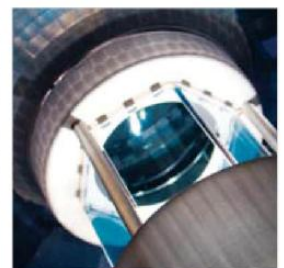
#### • Bulb Backup

Besides routine bulb, a back-up bulb is applied in the dome to reduce potential broken risk during a surgery. Within only 0.5 second, the back-up bulb is able to be switched on automatically in case of the routine bulb damaged and avoids operation interruption. Both bulbs have an individual indicator on the panel to display the status and remind the staff to change duly after operation.



#### • Endothermic System

High efficient endothermic system inside the dome brings two benefits. The material allows more lights to be transmitted, and meanwhile, absorbs and obstructs heat spread and keeps the operating area "cool", especially area above surgeon's head.



#### • More Shadowless Illumination and Deeper Focusing

Up to 2000 facets, designed by CAD/CAM, are applied in the reflecting system to create an excellent effect in focusing depth and shadowless illumination.



#### • Stable Conductive Assembly and Light Source

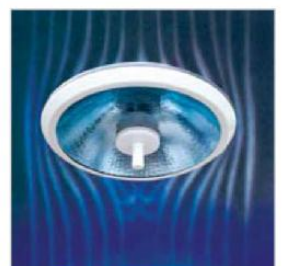
Silver plating conductive assembly is applied in each joint to protect the power interface from oxygenating, helping the equipment to work more reliable. As for the light source, the OSRAM halogen lamp is expected to work stably for more than 1000 hours on average.



(not applied in Toplite-P series)

#### • Design for Laminar Flow Purification Requirement

We understand a sterile environment is pivotal in an operation room. To meet the requirement, applying the aerodynamic principle, the domes are designed sealed and streamline shaped to allow the purified laminar airflow (vertical direction) reach the operating area directly at the lowest resistance.





## Toplite-G Series

- Advanced illumination technology of blue theca plating, helps to create closer to natural light source.
- Shape of domes are smooth and streamline, meeting the requirement of laminar flow purification in operating rooms and easy to clean.
- Single, dual and triple domes are available to equip in one ceiling-mounted lamp.
- 4 structures for single dome lamp: ceiling-mounted, wall-mounted, mobile with backup battery and mobile without backup battery.
- $\Phi 70\text{cm}$  and  $\Phi 60\text{cm}$  of dome diameter are optional to assemble.
- Universal 6-joint spring suspension arms are applied for more flexibility and better position control.
- Explosion-proof and rippled PC plastic dome cover
- Backup bulb system



Toplite-G7060 (Ceiling-mounted)



Toplite-G7000 with Camera System  
(Optional: Built-in Camera System, TFT Monitor, Suspension Arm)



Toplite-G7000LE (Mobile)

## Toplite-P Series

- Advanced illumination technology of blue theca plating, helps to create closer to natural light source.
- Shape of domes are smooth and streamline, meeting the requirement of laminar flow purification in operating rooms and easy to clean.
- Single, dual and triple domes are available to equip in one ceiling-mounted lamp.
- $\Phi 70\text{cm}$  and  $\Phi 60\text{cm}$  of dome diameter are optional to assemble.
- Explosion-proof and rippled PC plastic dome cover
- Backup bulb system
- Meeting the need of small budget with superb cost-effectiveness



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



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



Toplite-P7060 (Ceiling-mounted)



Toplite-P6000 (Ceiling-mounted)



## Heal Force OR Series Camera System (Optional)

Heal Force Surgery Shadowless Lamp can be equipped with high sensitive and definition and interference-resistant digital camera systems. For convenience of different customers, there are 3 choices of structures: built-in, arm-mounted and wall-mounted.



Built-in Camera



Wall-mounted Camera



Arm-mounted Camera

## Features

- Automatic gain and focusing
- Backlight compensation
- Aperture works against interference of reflex light
- High quality intercom makes voice communication clear
- 220× zoom (22× optical zoom) provides high quality image
- Minimum 0.01 lux illumination ensures high definition images
- Three types of cameras (built-in, arm-mounted and wall-mounted) are available
- PIP (picture-in-picture) function allows flexible shift between different images
- Camera system and operation light work in the same direction to provide satisfying surgical viewing angle

## Technical Specifications

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)



## Technical Specifications

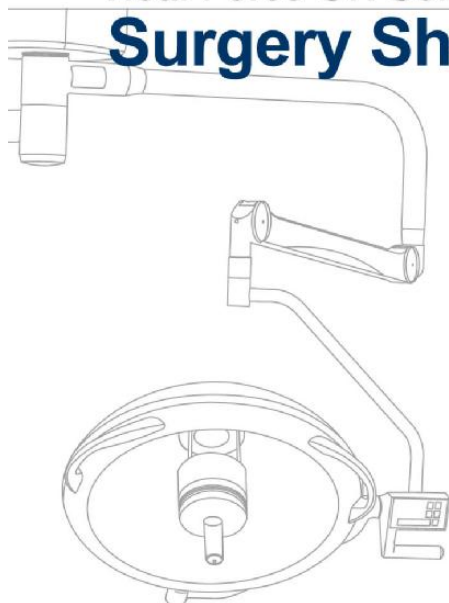
Type	Toplite-G	Toplite-P
Luminance (Lux)	130000*	130000*
Color Temperature (Kelvin)	4200	4200
Light Field Diameter (cm)	12~28	12~28
Focusing Depth (cm)	55	55
Color Rendering Index (Ra)	93	93
Focusing Range (cm)	55~170	65~140
Power Supply	AC 220V/50Hz or AC 110V/60Hz	AC 220V/50Hz or AC 110V/60Hz
Rated Power per Dome (W)	200	200
Power of Bulb	24V/150W	24V/150W
Standard Installation Height (cm)	275~310	275~310
Optional Installation Height*** (cm)	240~275	240~275

\* Luminance is customizable from 120000 to 140000 Lux.

\*\*\* Maximum installation height is customizable up to 400cm.

### Heal Force OR Series

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Toplite-G Series



Toplite-P Series



Camera System



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