



Heal Force

# TopLED

Surgery Shadowless Lamp

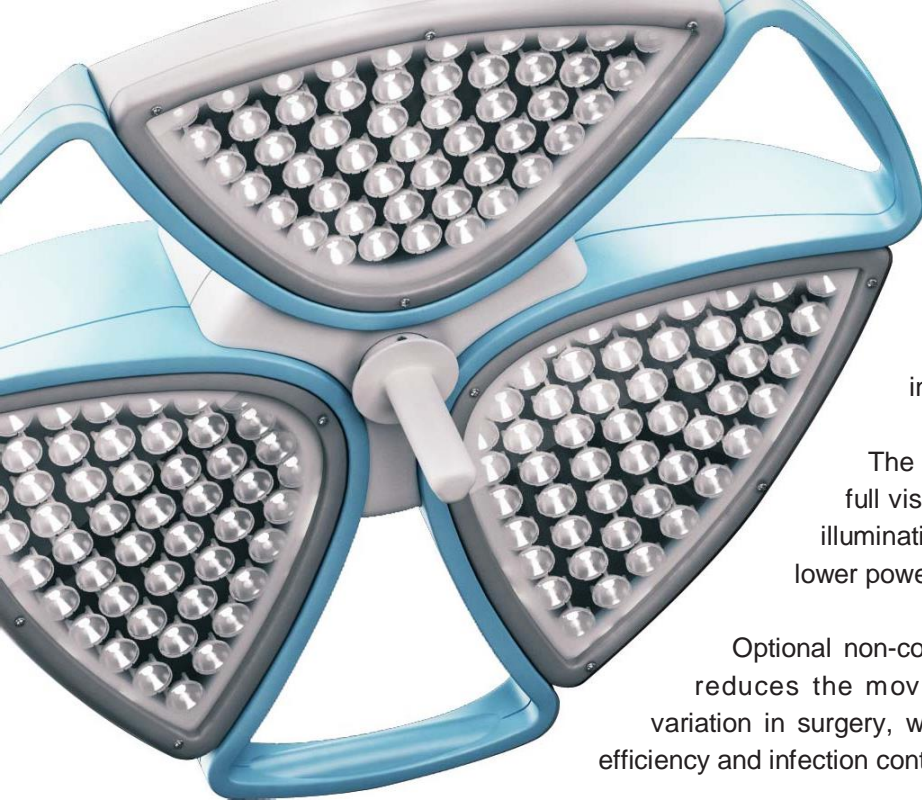


TopLED-8060

TopLED-8080

*Variable & fixed focus LED lighting  
for surgery and diagnosis*

Heal Force leads you to healthier life



## Product overview

The new generation of variable and fixed focus TOPLED surgical lighting series, incorporate innovative shamrock design to minimize the influence to laminar flow in the operating theatre.

The latest LED lighting technology allows full visible spectrum and excellent cooling illumination for long-time surgery with much lower power consumption.

Optional non-contact light intensity adjustment further reduces the movement need of lamp head against variation in surgery, which will greatly promote the surgical efficiency and infection control.

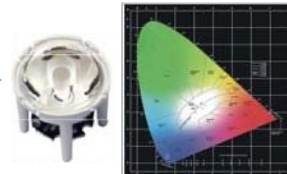
Depending on practical surgery requirement and space limitation, hospitals and clinics can flexibly configure hardware and installation solution, as well as multi-media extension for surgery monitoring, teaching and multidisciplinary purpose.

## Feature

### 50,000 hrs lifespan of LED bulb

Full visible spectrum of cool lighting without drying-out effect to patient's tissue even during long-time surgery.

Minimal power consumption and environment impact.



### Modular design for low maintenance

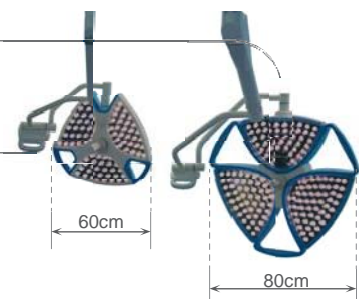
Three LED beams reflected and overlapped to produce a clear, homogenous spot with minimal shadows.



Laminar flow can smoothly pass the hollow to blow the surgical table top  
- Modular bulb-group allows for independent replacement overtime.

### Different size of head available

Either size or hybrid lamp system is available depending on surgical needs and space limitation.



### Variable or fixed focus

Variable focus system: Seamless adjustment of lighting focus, intensity and head positioning with sterile handle for lighthead TOPLED80

Fixed focus system: Max 140,000 lux intensity for deep-cavity illumination with homogenous spot with minimal shadows for lighthead TOPLED60



### Contact or Non-contact control



20 levels of intensity adjustment for both contact and non-contact adjustment

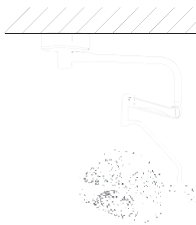
Unique non-contact (IR) control requires no movement or re-positioning of lamp head

### Ultra-flexible configuration

- **Number of lamp head:** single-head, dual-head, triple-head
- **Mount installation:** Ceiling, wall and mobile
- **Installation height:** 2400~2900mm, 2900~3100mm, >3100mm
- **Lamp type:** Variable focus, fixed focus or hybrid system

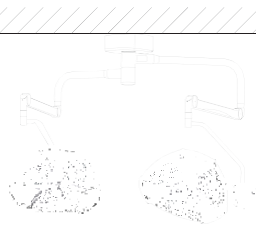


#### Ceiling single



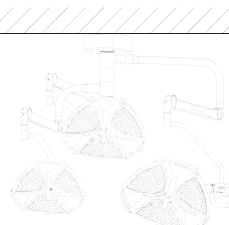
TopLED-8000  
TopLED-6000

#### Ceiling Dual



TopLED-8080  
TopLED-8060  
TopLED-6060

#### Ceiling Triple



TopLED-806060  
TopLED-606060

#### Wall mount



TopLED-6000W

#### Mobile LED system

TopLED-6000LE

### HD multi-media extension

- **Camera Mount:** Built-in, Arm-mount or Wall-mount
- **Video format:** PAL, NTSC and other
- **Purpose:** Surgery monitoring, teaching or multi-disciplinary application



Built-in camera



Arm-mount camera



## Technical data

Model	TopLED-6000, TopLED-6000L, TopLED-6000LE TOPLED8060	TopLED-8000 TopLED-8080
-------	--	----------------------------

### Optical and photometric

Light source	LED	LED
Focus	Fixed focus	Variable focus
Diameter of lamp head (cm)	60	80
Number of lamp head	1	1
Number of bulbs for each head	90	150
Illumination (lx)	120,000~140,000	140,000~160,000
Illumination field diameter* (mm)	d <sub>10</sub> :160; d <sub>50</sub> :≥50%×d <sub>10</sub>	d <sub>10</sub> :≥160; d <sub>50</sub> :≥50%×d <sub>10</sub>
Light field depth L1+L2 (mm)	≥800	≥800
Field size, Diameter (cm)	24-34	24-34
Working distance	0.7-1.5 m	0.7-1.5 m
Vertical adjustment (cm)	≥ 70	≥ 70
Colour rendering index (CRI)(Ra)	95	95
Colour temperature (K)	4500±500	4500±500
Radiant energy (mW/m2.lx)	≤2.9	≤6
Shadow dilution with tube	95%	95%
Shadow dilution with 1 mask	75%	73%
Shadow dilution with 2 masks	60%	60%
Shadow dilution with tube&1 mask	70%	68%
Shadow dilution with tube&2 masks	55%	55%

### Electrical data

Input voltage (V)	100-120/200-230	100-120/200-230
Power consumption	1 watt/bulb x 90	1 watt/bulb x 150
Frequency (Hz)	50/60	50/60
Rated current(A)	0.68	0.68
LED power (W)	1	1
LED voltage (V)	vf: DC 3.2	vf: DC 3.2
Service life (hrs)	50,000	50,000
Weight (kg)	50	57

## Brief ordering guide

Order No.	Diameter of head	Number of head	Mount
TopLED-6000	60cm	1	Ceiling
TopLED-6000W	60cm	1	Wall
TopLED-6000L	60cm	1	Mobile without battery
TopLED-6000LE	60cm	1	Mobile with battery
TopLED-8000	80cm	1	Ceiling
TopLED-6060	60cm+60cm	2	Ceiling
TopLED-8060	80cm+60cm	2	Ceiling
TopLED-8080	80cm+80cm	2	Ceiling
TopLED-606060	60cm+60cm+60cm	3	Ceiling
TopLED-806060	80cm+60cm+60cm	3	Ceiling

