

**TriLite LS800**

Professional &  
Reliable



**TriLite LS800 Series**  
Professional & Reliable

**BenQ Medical Technology Corp.**

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**All Clinical Requirements Satisfied**

Surgical Table  
Surgical Light  
Digital OR Solution  
Ultrasound System



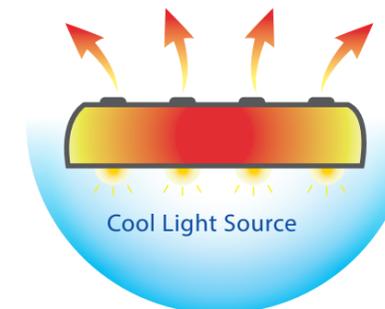


## Electricity Environmental Protection and Low Carbon Emissions

### Low power consumption

The LED technology used in TriLite LS800 not only gives superior optical performance but is also environmentally friendly. Each light head consumes less than 135W which is 30% lower than conventional Halogen light sources.

Furthermore, a virtually unlimited life of 50,000 hours minimizes maintenance and allows better OR work flow.



The die-cast aluminum material would hold the heat and spread it through the heat sink. This produces less temperature rise in the operating area.

### High Efficiency with Low Heat

By incorporating state of the art thermal materials, the new LED elements provide energy saving with highly efficiency, and generate low heat dispersion. This improvement in technology and design not only make longer LED life, but also minimum the heads of the surgeons free from the concern of temperature rise. Thanks to the unique exterior design and SMS (Shadow Management System) function, fulfilling the strict requirements for modern technology in heat dispersion, efficiency and energy conservation.

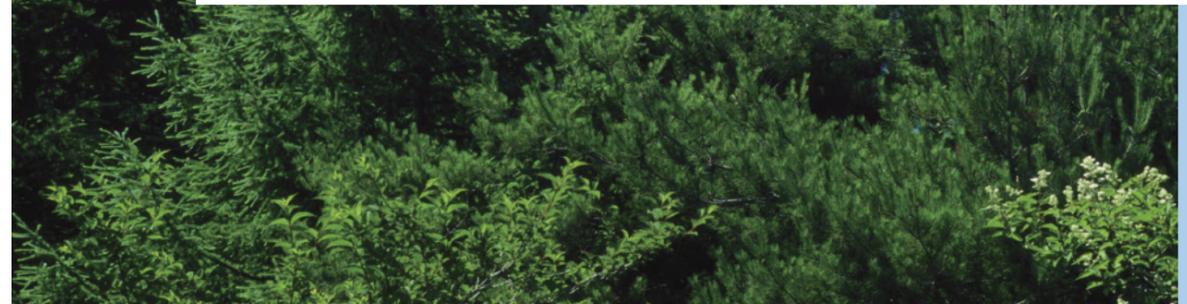
### Experience, Technology and Design

During two decades in medical equipment industry, BenQ Medical Technology has witnessed the evolution of surgical light sources from Halogen to LED. With ample experiences, we are committed to provide an ideal OR lighting solution in this new era.

TriLite LS800, our latest surgical light, which combines the state of the art LED technology, aesthetic design and ease of use is not only capable to satisfy the needs from surgical teams of nowadays but also to meet the surgical requirements in next generation.

### Superior Optical Performance

The most important requirement for a surgical light is optical performance. TriLite LS800 provides superior performance through the use of the latest generation of LEDs and an advanced optical design. The light patch remains excellent focus pattern and shadowless lighting to eliminate interfering shadows from surgical team's heads and/or hands during surgical procedures. The low heat dissipation of the LEDs reduces the desiccation of exposed tissue to avoid discomfort to both surgeon and patient during long hours procedures.





### High quality imaging for excellent communication

The Full HD Imaging System addresses the needs of the surgical team for excellent imaging requirements. The built-in Full HD camera allows live broadcast of the surgical procedure and captures the full scene that illuminated.



The blades appearance, a design enhances the shadow management efficiency, accompanies with a Shadow Management System (SMS) ensure superior optical performance during central splitting and preventing temperature rise near surgeon's head.



The TriLite LS800 is the result of much effort by our research teams who devoted themselves to finding the best solution design for the LED surgical light. TriLite LS800 combines the latest LED technology and a unique lens to offer excellent optical quality.

This combination of technology provides uniform light field, where perfect color temperature and illuminance are both achieved that give optimum lighting performance in the surgical area.

Plot of optical field simulation for TriLite LS800. The design enables excellent lighting effect in large-area procedures such as graft and orthopedic surgeries.



### A Pure White LED light source

The TriLite LS800 emits light at a color temperature of 4,300K with a render index above 95. With great R9 to enhance surgeon comfort and concentration during long period procedure. This excellent quality of LED light makes a situation illustrated in Figure II revert to historical insignificance.

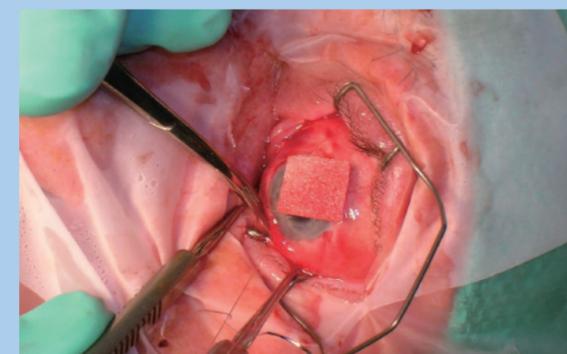


Fig. I BenQ TriLite LS800

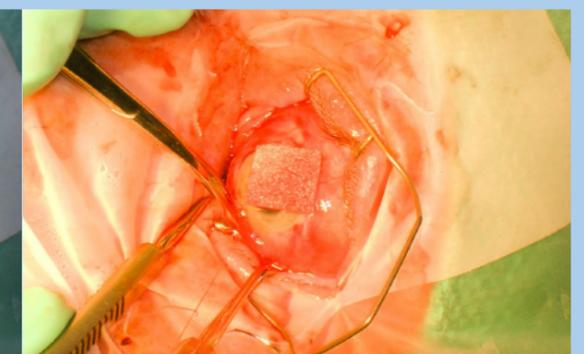


Fig. II other brand



### Endo light for MIS environment

Minimally Invasive Surgery (MIS) has gained popularity and become a preferred surgical approach. TriLite LS800 provides an Endo light mode that fulfills the light requirements for endoscopic surgery as well as an intensity adjustment mode for standard surgery.

### Curved blade design for Laminar flow

In the operation room, laminar flow is a crucial factor in the maintenance of the sterile zone. The curved blade of TriLite LS800 is streamlined and aerodynamic to minimize turbulence and to ensure a laminar flow through the light head.

Our design takes every single detail to ensure TriLite LS800 provides the best operation experience. For instance, the planar lighting surface that is easy to sterilize, an ergonomic handle that makes the light simple to maneuver and a modularized blade design that allows the quicker maintenance. TriLite LS800 is user-friendly and practical in every detail.



### Optional Items



H: Build-in Camera



C: Separated Camera



T: Separated TFT Monitor

### Light Head



LS800-500



LS800-700

### Technical Data

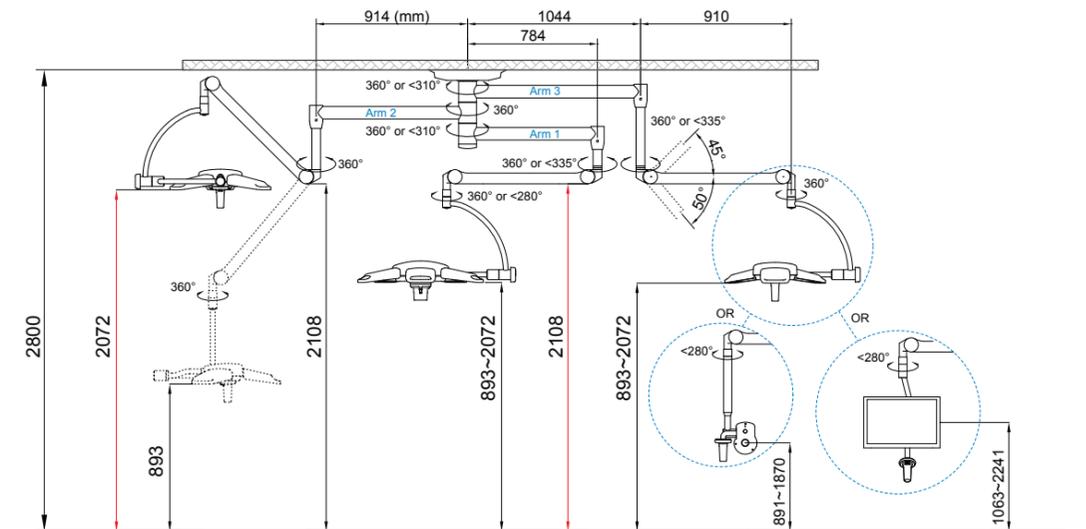
MODEL		TriLite LS800-500	TriLite LS800-700
Diameter of light-head	(mm)	640	764
Maximum intensity at 1m distance	(Lux)	120,000	160,000
Diameter of the field at 1m	(mm)	160 ~ 280	180 ~ 320
Maximum depth of field	(mm)	1,300	1,200
Color temperature	(K)	4,300	4,300
Color rendering index	(Ra)	95	95
Power consumption	(W)	95	135
Total irradiance	(w/m2)	310	425
AC input	(Va.c.)	100 ~ 240	
LED average life time	(Hrs)	50,000	
Intensity level indication/Method		12 steps / electronic	
Removable handles for sterilization		Yes	
Dust protection		Yes	

\* All specifications are subject to change without prior notice.

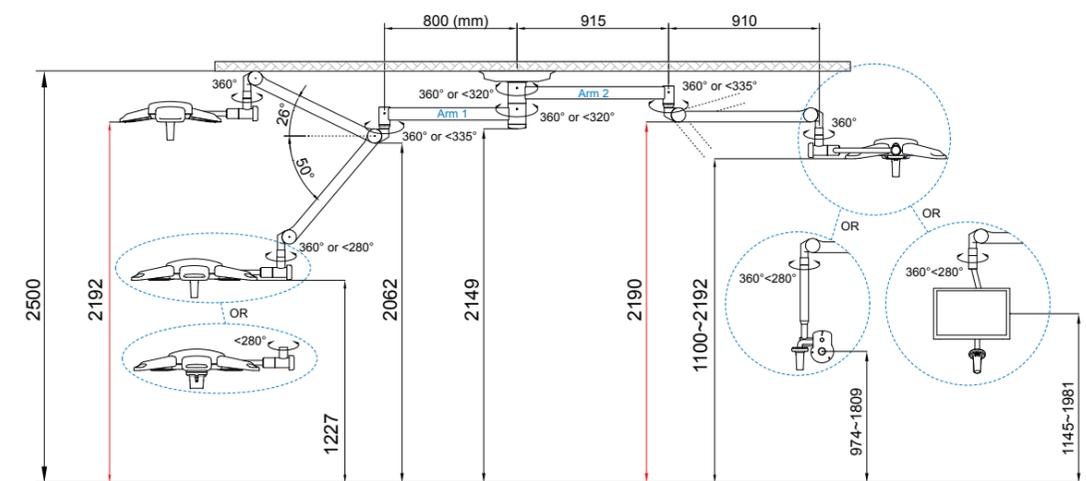
## Model Combination for TriLite LS800

Standard Type				
LS800-500 LS800-700 LS800-700H	LS800-550 LS800-750 LS800-770	LS800-750H LS800-770H	LS800-555 LS800-755	LS800-755H
LS800-500T LS800-700T	LS800-700HT	LS800-550T LS800-750T LS800-770T	LS800-750HT LS800-770HT	
LS800-500C LS800-700C	LS800-500CT LS800-700CT			
Low Ceiling Type				
LS800-500-9L LS800-700-9L LS800-700H-9L	LS800-550-9L LS800-750-9L LS800-770-9L	LS800-750H-9L LS800-770H-9L	LS800-500T-9L LS800-700T-9L	LS800-700HT-9L
LS800-500C-9L LS800-700C-9L				

## Minimum Range of Circular Motions

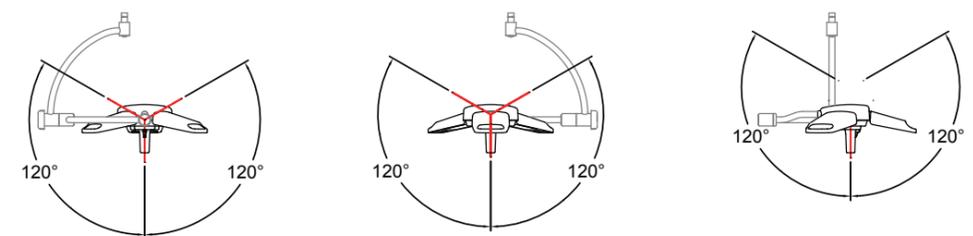


The limit height of set-up Standard Type		
1 Light Head	2 Light Heads	3 Light Heads
2,700	2,700	2,800



The limit height of set-up Low Ceiling Type	
1 Light Head	2 Light Heads
2,400	2,500

\* The angles limited by Image System (C & T).



Great maneuverability and effort less via ergonomic lighthead handle

Built-in endo light feature

Infrared remote control capability

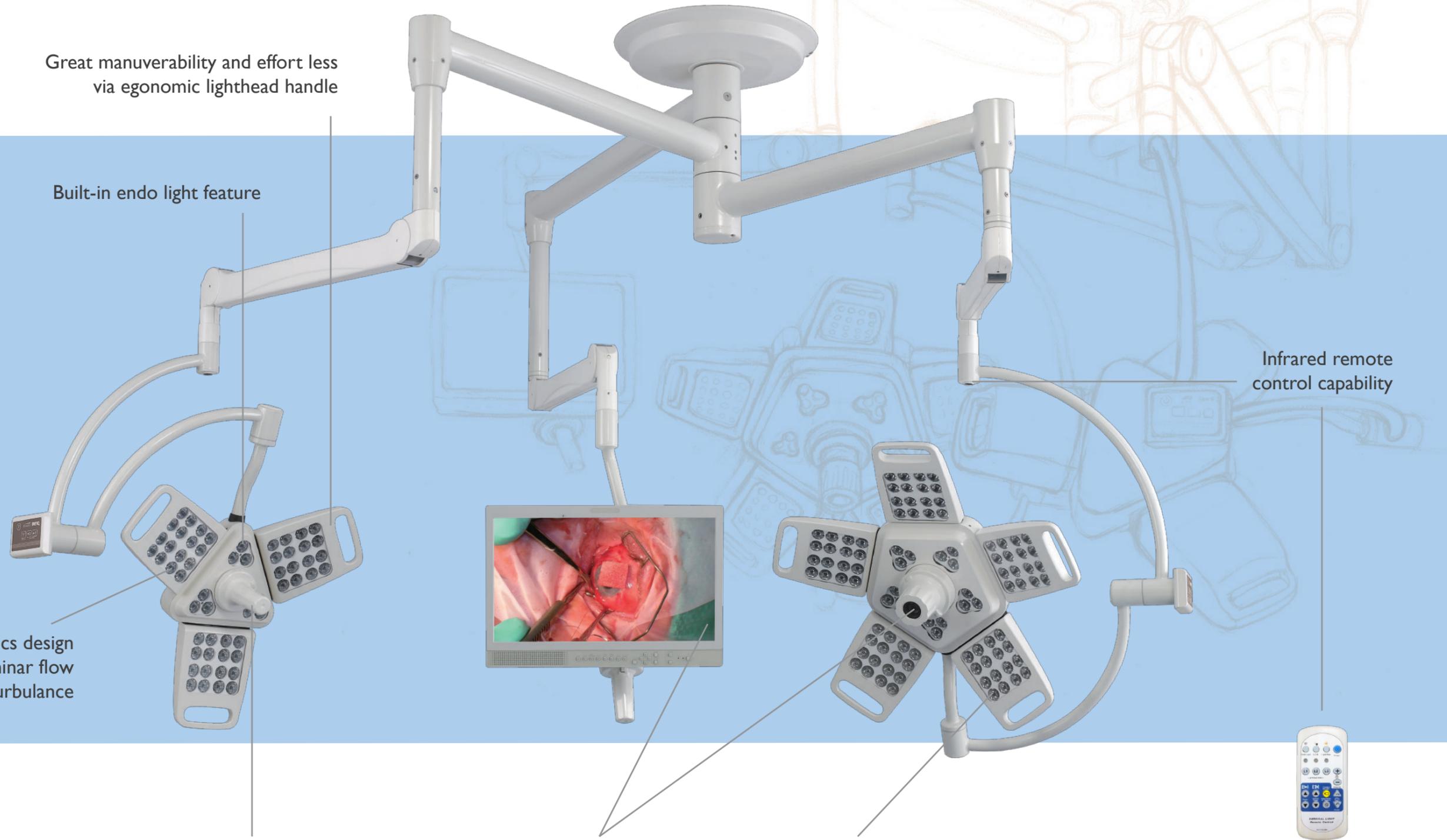
Aero-dynamics design reduce laminar flow turbulence

Friendly design for electro focus provides convenient operation\*

Built-in full HD imaging system\*

Latest LED technology & lens design gives cool light and good color temperature

Infrared Remote Controller



\* is optional