The best-in-class **Operating Room Equipments Under One Roof...**



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Redefining the Surgical illumination

Surgical luminary system is essential equipment in modern surgical operating room. To identify the differentiation in tissue structure during advance surgical procedure, which demands the high grade surgical lights to emulate the sunlight.

Shayla iLUX luminary system provides highest ability to identify a red tissue structures (R9) and overall surgical vision for different tissue identification (CRI).

HIGH PERFORMANCE - DURABILITY - STABLE - RELIABLE

Key Features

- Pulse width Modulation control of LEDs for less heating.
- No change in Light color output throughout life cycle.
- Electronic focusing for changing the lighting field diameter.
- High power LEDs provides high lumen to watt ratio with less energy.
- High CRI & R9 for critical super specialty surgical applications.
- Obstacle sensing to maintain the intensity without temperature rise.
- Detachable centrally mounted Full HD camera with wireless technology.
- Video control unit with full HD Recording & Live transmission.
- Efficient design with LEDs directly mounted on aluminium body.
- Synchronized or separate control of light domes.
- Light control for sterile handle.



Shalya iLUX 40



Shalya iLUX 10

LED Light

• High colour rendering index (CRI > 95) provides better tissue identification same as that visible under sunlight.

Shalya

360°

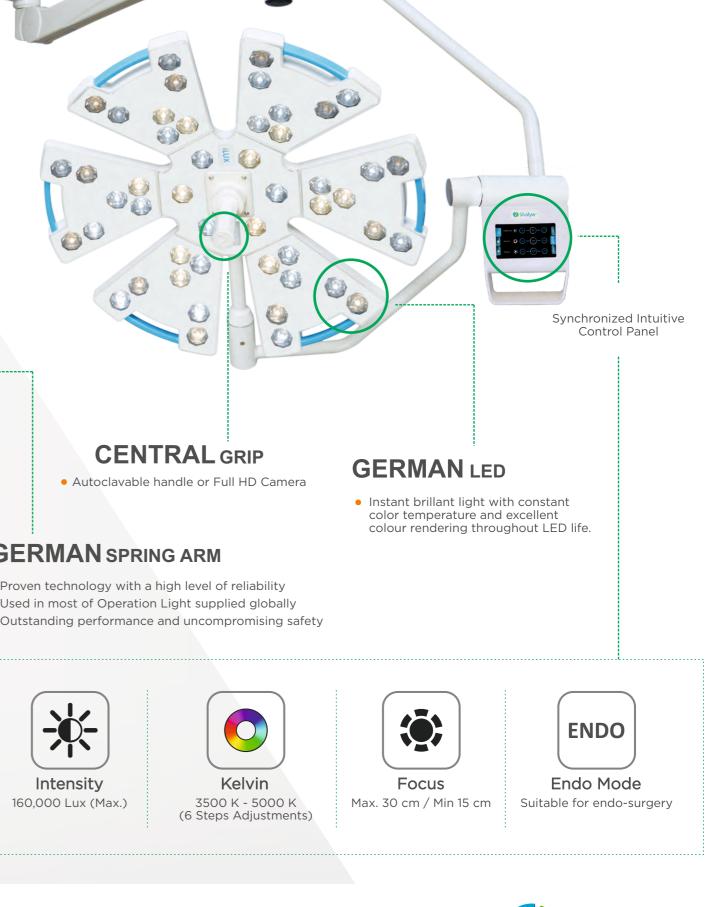
• High R9 LEDs provide highest ability to identify a red tissue structures (R9 > 98)

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- Compact size & minimum no. of LED components which allow the compact luminary design.
- High power LEDs provide high lumen to watt ratio with less energy consumption.
- Radiant energy is <3.2mW/Im² with increased light life.

GERMAN SPRING ARM

- Proven technology with a high level of reliability
- Used in most of Operation Light supplied globally
- Outstanding performance and uncompromising safety



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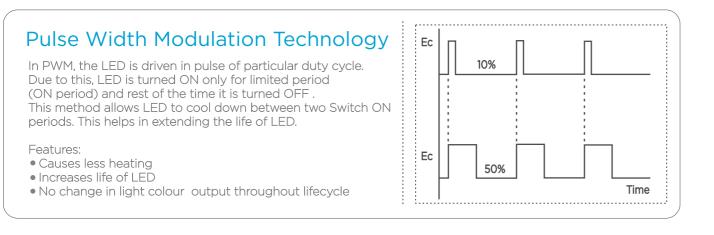
Shalya

iLUX 12

Shalya iLUX 20

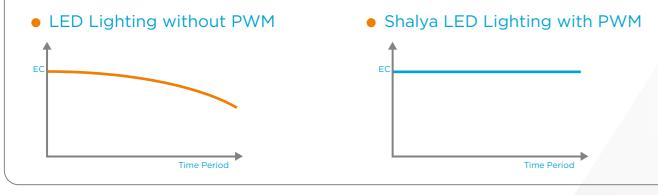


PWM Technology



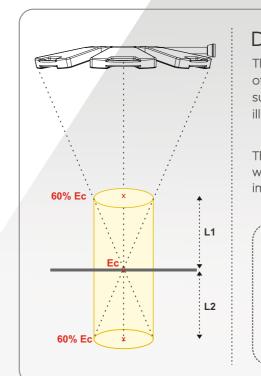
Maintaining Light Performance

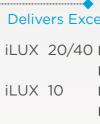
PWM Technology maintains constant intensity and colour temperature throughout each surgical procedure





Large Depth of Field





Shalya iLUX 20



Depth of Illumination

The vertical distance between the point of maximum intensity (Ec) of illumination at the centre of the illuminating field (one meter from the surface emission of light) & the detection of the value of 60% of central illumination in upward direction (L1) and downward direction (L2).

These values added together (L1+L2), gives the depth of illumination without the need to refocus. The higher level of illumination depth is very important especially incase of narrow and deep wound channel.

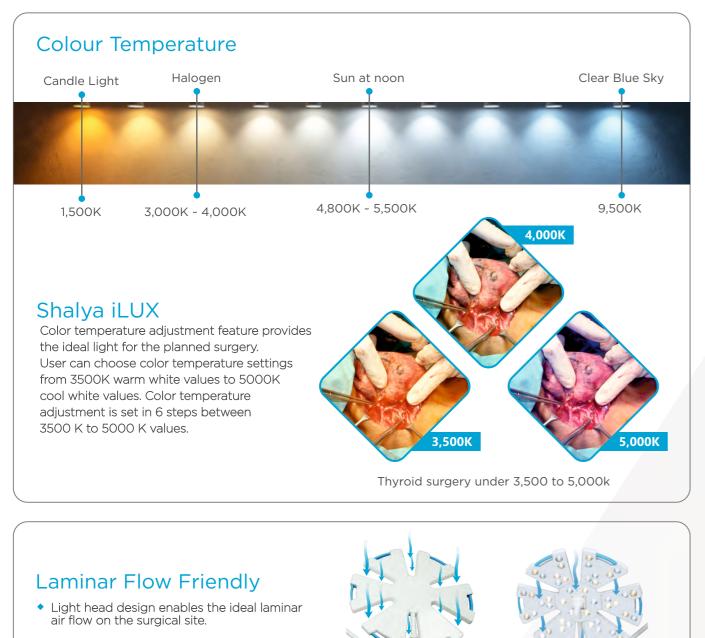
Shalya iLUX Delivers Excellent Depth of Illumination

- iLUX 20/40 ► Ec x 60% : 650 mm
 - ▶ Ec x 20% : 1200 mm
 - ► Ec x 60% : 600 mm
 - ► Ec x 20% : 1000 mm





Shalya iLUX provides quality of light close to sunlight at noon



Minimizing contamination of bacteria



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Obstacle Sensing (Shadow Managment)

When surgeon's head obstruct the light path emitted from the OR light; the intensity of the obstructed petal is reduced and intensity of other petals is boosted, there by maintaining the light intensity at surgical site and also keeps very low temperature at surgeon's head.



Electronic Focussing

- Equipped with a sophisticated electronic management of the LEDs.
- Adjusting the light field diameter by electronic focussing without mechanical movement & allows the illuminated field diameter up to a large spot size without compromising light intensity.

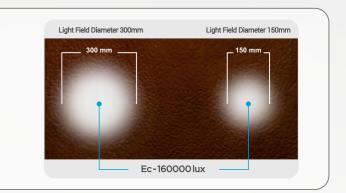
Technical Specifications of Shalya iLUX Series LED OT Light				
Parameter	iLUX 40	iLUX 20	iLUX 10	iLUX 12
Max light intensity	160 000 lux	160 000 lux	160 000 lux	120 000 lux
Dimming Range	25-100%	25-100%	25-100%	25-100%
Field Diameter (Focus)	150-300mm	150-300mm	150-300mm	150-300mm
D10	300mm	300mm	300mm	300mm
D50	160mm	160mm	160mm	160mm
Focal depth (L1 + L2) @ 60% / Focal depth (L1 + L2) @ 20%	650mm/1200mm	650mm/1200mm	600mm/1000mm	600mm/1000mm
Color Temperature	3500-5000K	3500-5000K	4000K	4000K
CRI (Ra)	≥95 (3500 K)	>95 (3500 K)	>94 (4000 K)	>94 (4000 K)
R9	≥98 (3500 K)	>94 (3500 K)	>90 (4000 K)	>90 (4000 K)
LED's Life time	>60,000 hrs	>60,000 hrs	>60,000 hrs	>60,000 hrs
LED Lamp Module	72	48	24	18
Endoscopic mode	5% Dimming	5% Dimming	5% Dimming	5% Dimming
HD Camera	Optional	Optional	Optional*	NA
Power Consumption	120 W	100 W	80 W	50 W
Lamp head diameter	680mm	680mm	590mm	495mm
Focusing	Electronic	Electronic	Electronic	Electronic
Centralized Control	Available	Available	Available	Available
Obstacle Sensing	Optional	Optional	NA	NA

* On special request



CRI Colour Rendering Index R9 Colour Index The Combination of Latest-generation white & colour LEDs provides a high colour rendering index (CRI) and a very good reproduction of red colours (R9).

With colour rendering indexes Ra above 95 and R9 (red) above 98 the surgeon recognizes clearly the tiniest shade of colour in tissue.







CONTROL Units

LCD Touch Panel

LCD touch screen provides a user friendly interaction and allows to control features of dome such as intensity, colour temperature, focus, Endoscopy mode ON/OFF, obstacle sensing. It has provision for Synchronized as well as separate control of light heads.





Sterile Handle Control

All Parameters like Intensity, Colour Temperature & Focus can be controlled by touch sensing from Sterile area via autoclavable sterile Handle



Remote Control

Remote control unit can be used to regulate intensity, colour temperature, focus, Endo mode and ON/OFF



Wall Mount

Wall Mount control unit can be used to regulate intensity, colour temperature, focus, Endo mode and ON/OFF. It has provision for synchronized as well as separate control of light heads. It can control upto 3 domes.

Wireless Camera

Detachable centrally mounted full HD camera with wireless technology. Video control unit with full HD recording & live transmission. Videos & Images can be recorded & saved for clinical Documentation & review of critical Surgeries. Two way audio transmission with video conferencing. Real time surgery can be viewed by surgeons located at any corner of the world.

Types of Configuration

