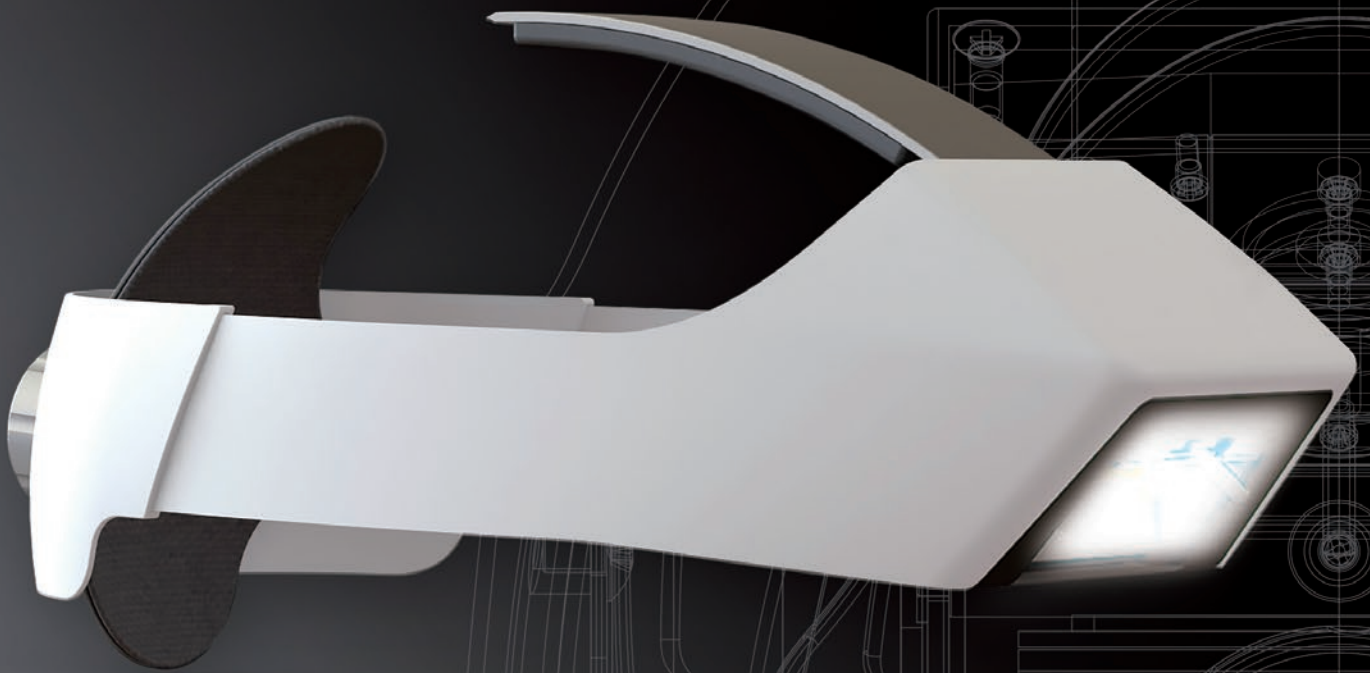


Wearable Surgical Lighting System

OPELA III™



**Not just a shadowless light**  
**Not just a headlight**  
**This is the next-generation medical light**

Our aim was to redesign the lighting system that is essential in surgical operations to better meet the needs of on-site staff.

Our solution is an innovative product that eliminates shadows, renders colors with high accuracy, and far exceeds the specifications of medical headlights.

With 145,000 lux of light output, the OPELA III wearable surgical lighting system will change the way surgery is performed not just in general hospitals but everywhere from local clinics to specialized medical environments.



**TAIYO CORPORATION**

## Commitment to Optimal Surgical Illumination

**High Intensity** | 3 LED's enable high intensity light while retaining compact size

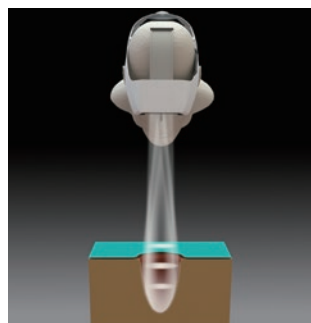


**145,000 Lux (@400 mm or 16")**

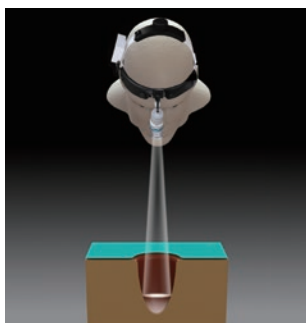
Color Temperature: 4,500K

\*Patented heat management technology

**Reach Deep Areas** | Unique optical design penetrates deeply and illuminates periphery

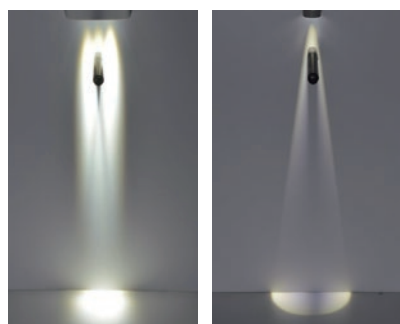


OPELAIII



Conventional Headlight

**Shadow Reduction** | Proprietary technology minimizes shadows from forming for clear visibility



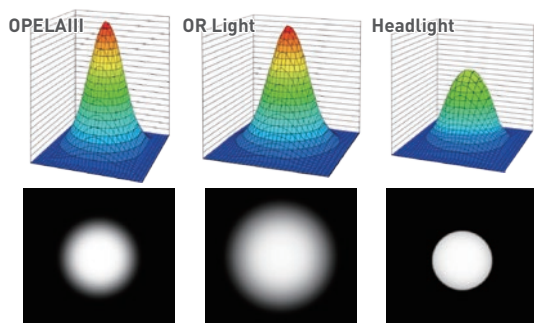
OPELAIII

Conventional Headlight

**Light Source**  
A marker pen is placed in front of light for comparison

**Surgical Field**  
Shadows vanish as light reach surgical field in OPELAIII

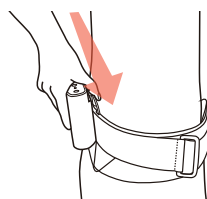
**Gentle to the Eyes** | Fading contour reduces eye strain just as OR lights, unlike headlamps



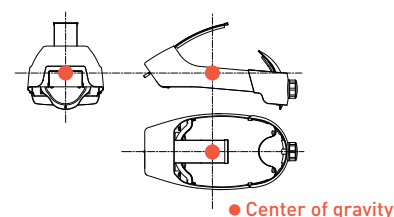
\*Optical characteristics comparison (for illustration only)

## Commitment to Mobility and Comfort

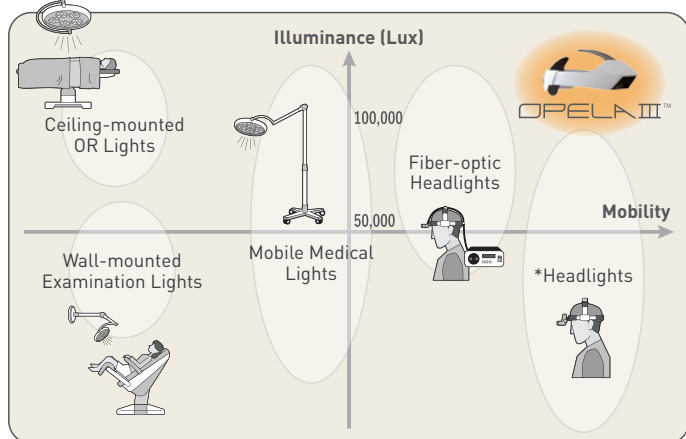
**Mobility**  
Battery powered and untethered.



**Comfort**  
Center of gravity is positioned as centrally as possible to reduce the feeling of weight.



### Market positioning map of medical lighting systems



\*Headlight illuminance distance of 400mm (16")

### Specifications

Product name	Wearable Surgical Lighting System OPELA III
Model	-H (High illumination model)
Central illumination (75 mm light field diameter)	145,000 lux (at 400 mm or 16") ± 10%
Color temperature	4,500 K ± 10%
Illumination adjustment	Adjustable (5-100%)
Illumination range	Variable (diameter of 75-125 mm) (at illumination distance of 400 mm)
LEDs used	3 Power LEDs
Continuous illumination time	Approx. 2.5-6 hours per battery unit (with light level set at 50-100%)
Ambient temperature	Operating: 15 to 32 °C Charging: 15 to 25 °C Storing: -40 to 60 °C (within 4hours), -20 to 40 °C (over 4hours)
Power consumption	7.2 W
Input voltage	DC 9 V
Weight	Main unit: 390 g ± 10% Battery unit: 480 g ± 10%
External dimensions	Main unit: W160 x H170 x D300-350 mm ± 10% Battery unit: W140 x H100 x D50 mm ± 10%
Head circumference	53-66 cm
Notification number in Japan	13B3X10231000001
FDA Listing No. (Product Code)	D338313 (HPP, Class 1) D360523 (FQP, Class 2) D360534 (FSQ, Class 2)

\*Specifications may vary depending on condition and subject to change without notice.

### [ Manufacturer ] **TAIYO CORPORATION**

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