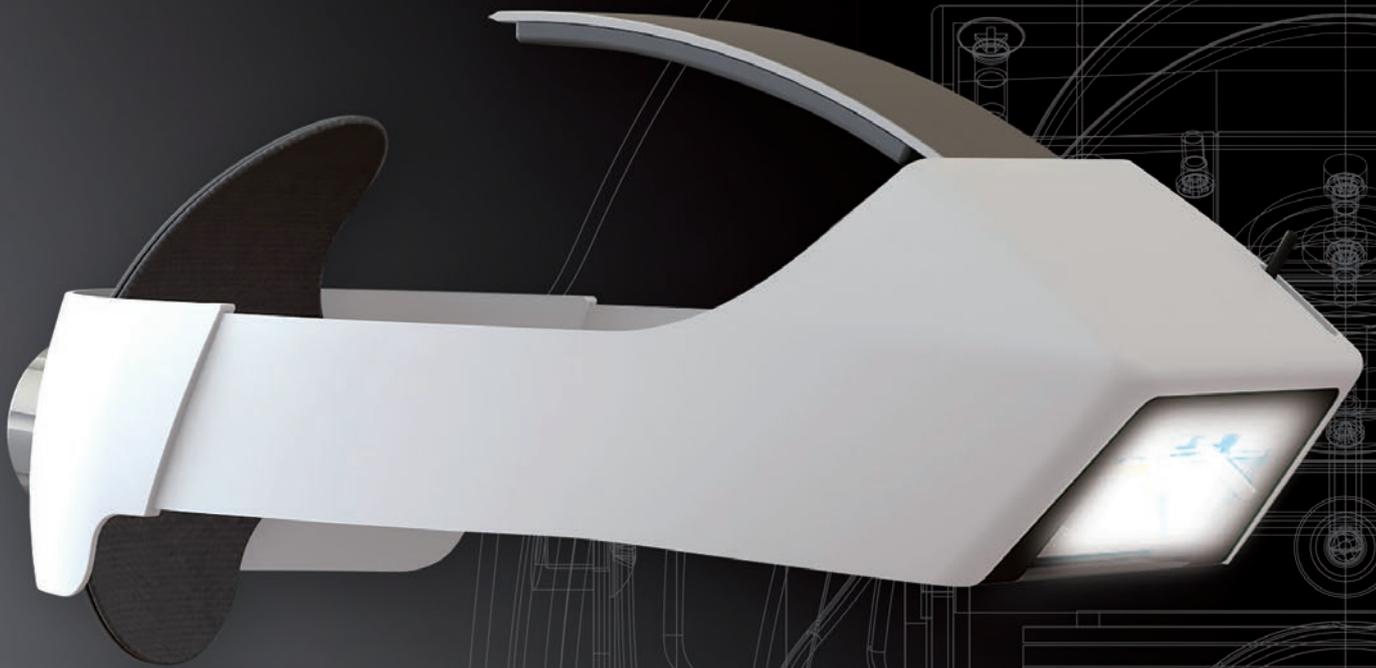


Wearable surgical lighting system

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

Clear visibility + Easy movement and Comfort

Wearable surgical lighting system OPELA III®



Made in Japan
Patents and designs registered

Features to realize clear visibility



High Illuminance

Our unique heat sink (patent granted, design registered) and the use of three LED lights achieved high illuminance level in spite of its compactness.



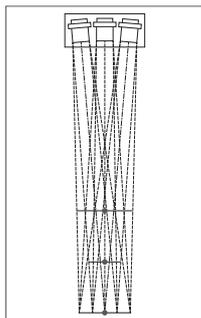
145,000 lux (at 350 mm)
96,000 lux (at 500 mm)

CRI/Ra (R1 to R15): More than 90, R9:90
Color temperature: 4,500K



Reach deep and wall area

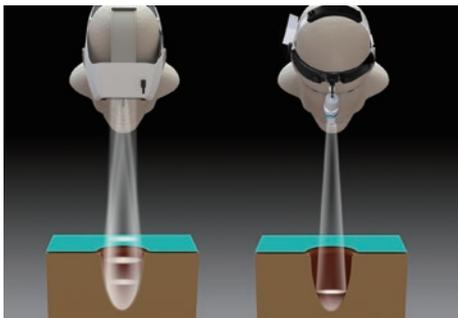
Our original cross-light distribution provides depth of field deep enough to illuminate wall areas of surgical field and minimizes shadows of surgeon's hands and instruments.



Cross-light distribution



Shadow elimination



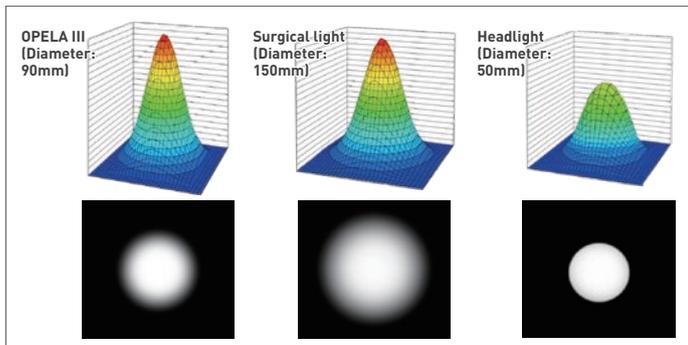
OPELA III

Conventional headlight



Gentle to eyes

Optical design in accordance with the standard for surgical light is implemented. The outline of illuminated surgical field is blurred, which causes less fatigue to eyes.



Easy movement & Comfort

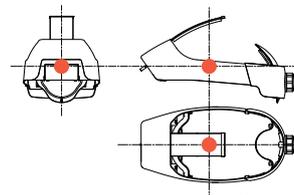
Easy movement

Powered by battery and wireless.



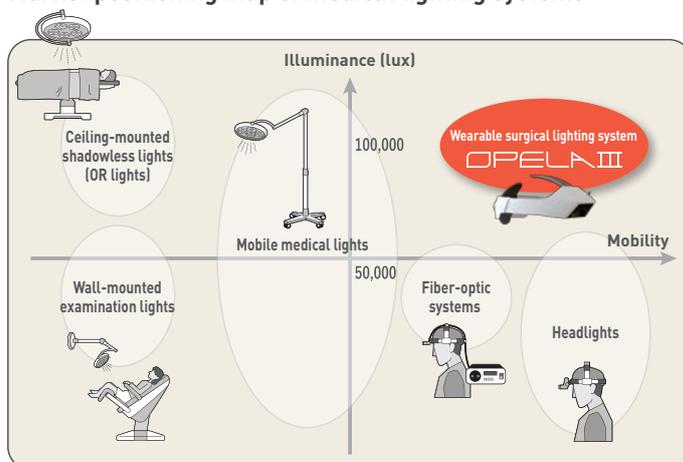
Comfort

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



● Center of gravity

Market positioning map of medical lighting systems



Headlight illuminance values calculated based on an illumination distance 500 mm.

Specifications

Product name	Wearable surgical lighting system OPELA III
Model	-H (High illuminance model)
Central illumination (with a 90 mm light field diameter)	145,000 lux (at 350 mm) ± 10% 96,000 lux (at 500 mm) ± 10%
Color temperature	4,500 K ± 10%
Color rendering	CRI/Ra: 90 or above (R1 to R15), R9: 90
Illumination adjustment	Adjustable (5 - 100%)
Illumination range	Variable (diameter of 90-150 mm) (at an illumination distance of 500 mm)
LEDs used	3 Power LEDs
Continuous illumination time	Approx. 3-7 hours per battery unit (with light level set at 50-100%)
Ambient temperature and humidity	When in use: 15-35 °C, 20-85%RH (non-condensing) When charging: 15-35 °C, 20-85%RH (non-condensing) When storing: 0-45 °C, 20-85%RH (non-condensing)
Power consumption	Approx. 7.2 W
Input voltage	DC 12 V
Weight	Main unit: approx. 390 g ± 10% Battery unit: approx. 480 g ± 10%
External dimensions	Main unit: approx. W160 x H170 x D300-350 mm ± 10% Battery unit: approx. W140 x H100 x D50 mm ± 10%
Approx. user's head circumference	53-66 cm
General name	Headlight (Class I)
Notification number in Japan	13B3X10231000001
FDA Registration number	3015136740

[Manufactured and distributed by]

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[Sales branch]