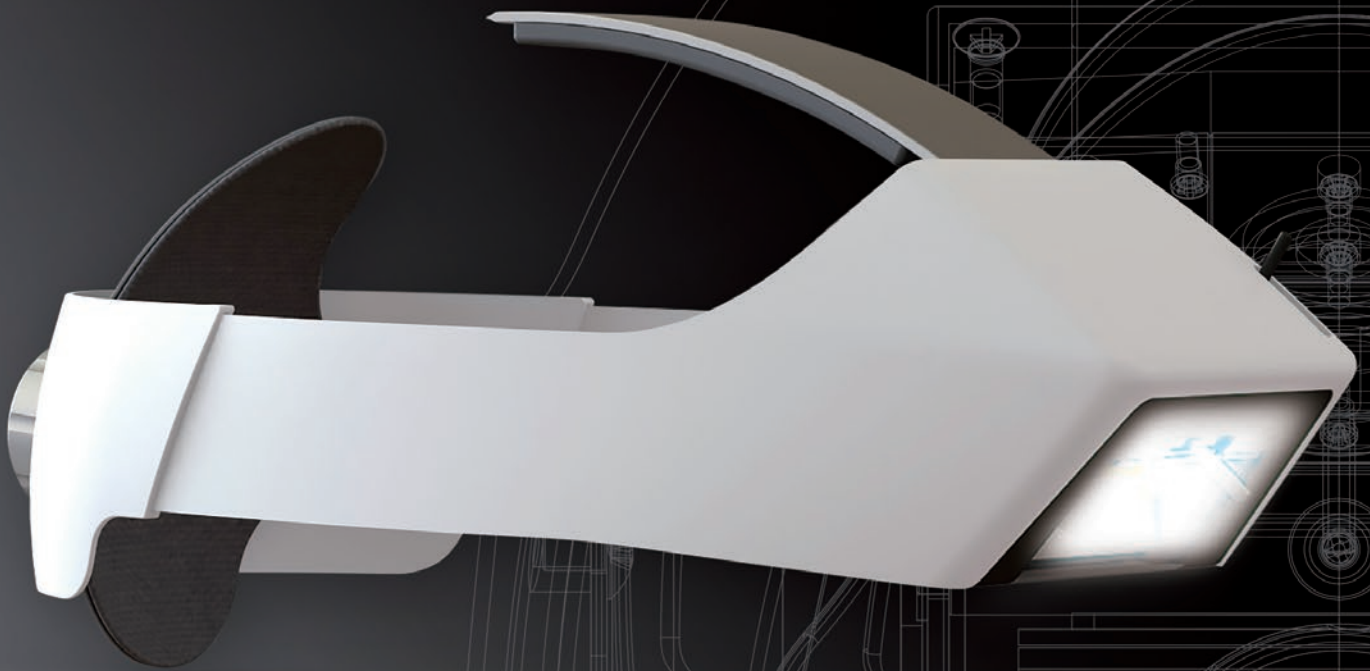


Wearable surgical lighting system

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

Wearable surgical lighting system

OPELA III

Clear visibility + Easy movement and Comfort

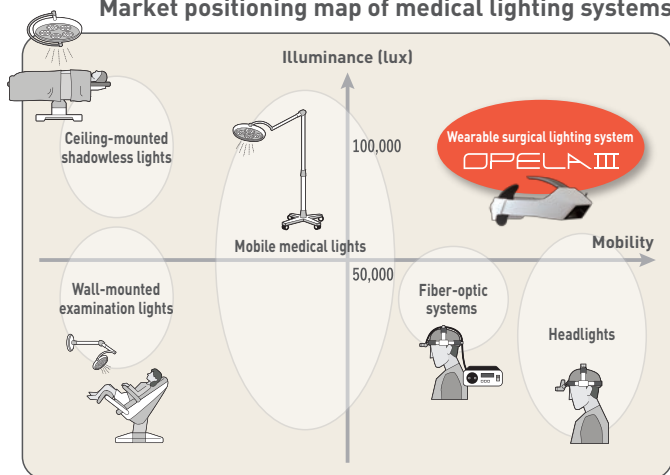


Made in Japan

Patent / Design Registration pending

The OPELA III separates itself from other medical lighting systems creating a completely new category based on “illuminance” and “mobility”.

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)	-G (Glare-reducing model)*
Central illumination (with a 90 mm light field diameter)	145,000 lux (at 350 mm) ± 10% 96,000 lux (at 500 mm) ± 10%	79,000 lux (at 350 mm) ± 10% 53,000 lux (at 500 mm) ± 10%
Glare-reducing effect	No	Yes (when glare-reducing filter is used)
Color temperature	4500 K ± 10%	
Color rendering	CRI/Ra: 90 or above (R1 to R15), R9: 90	
Illumination adjustment	Adjustable (20-100%)	
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. 450 g ± 10%	
External dimensions	Main unit: approx. W165.5 x H170 x D300-330 mm Battery unit: approx. W138.2 x H96 x D48 mm	
Approx. user's head circumference	53-66 cm	
General name	Headlight (Class I)	
Notification number in Japan	13B3X10231000001	

* Specifications will vary depending on usage and are subject to change without notice.

-H (High illuminance model)

Maximum illuminance of 145,000 lux and light-source wavelength is not adjustable.

-G (Glare-reducing model)

Light-source wavelength is adjusted when using the filter.
Date of market release undecided.

FEATURES



HIGH ILLUMINANCE / COMPACT DESIGN

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



SHADOW ELIMINATING DESIGN

3 LEDs minimizes shadows and forehead light-source offers an unobstructed sightline.



TRUE-COLOR RENDERING LEDs

CRI/Ra: 90 or above (R1 to R15)
R9: 90, 4500 K



CONFORT FIT & MOVEMENT CONTROL

Lightweight unit with adjustable headlight for snug fit and control



ADJUSTABLE AXIS & DEEP ILLUMINATION

Adjustable optical axis and cross-light distributing design



ADJUSTABLE WAVELENGTH (Glare-reducing model only)

Glare-reducing model eliminates more reflection from liquids

[Manufacturer and seller]

TAIYO CORPORATION

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[Sales branch]