



ENVOLITE LED LIGHT SOURCE

Precision in Every Beam. Clarity in Every Procedure.

ENVOLITE

Harnessing advanced LED technology, this high-intensity Light Source delivers precision-focused illumination via fiber optic cables, providing crystal-clear visibility of internal structures and organs during medical procedures—empowering clinicians with enhanced accuracy and control.



Key Features



Intuitive 7" Touchscreen User Interface

Biggest in class 7-inch capacitive touchscreen display, offering high-resolution user interface for precise control, easy parameter adjustment, and real-time status visualization.



Light weight and portable

Designed using high-strength, lightweight materials and optimized structural geometry to achieve a total weight of less than 4.8 kg, ensuring superior portability and easy installation.



Low Heat Emission

Superior optical coupling due to Opticore-MX™ platform keeps the illuminated area cooler and comfortable. Heat rise of only $\Delta 0.9^{\circ}\text{C}$ increases fiber cable lifespan.



Reliable excellence*

Equipped with an optical hour meter that counts real illumination hours, not just power-on time.



Intelligent Safety: Cable Detection Interlock*

Built-in sensors ensure the light source activates only when the fiber optic cable is securely connected to the output port, enhancing safety and system integrity.



Noise free operation

Optimized through the OptiCore-MX™ platform, the system's exceptional optical and thermal efficiency allows whisper-quiet operation below 45 dB — up to 6 dB quieter than conventional light sources.



Smart Control*

Memory Function with One-Touch Save and Recall — Automatically restores last used settings and allows permanent storage of preferred configurations



Future Ready*

Supports ultra-lightweight fiber-optic cables (~3.5 mm core) — over 50% lighter than conventional cables.

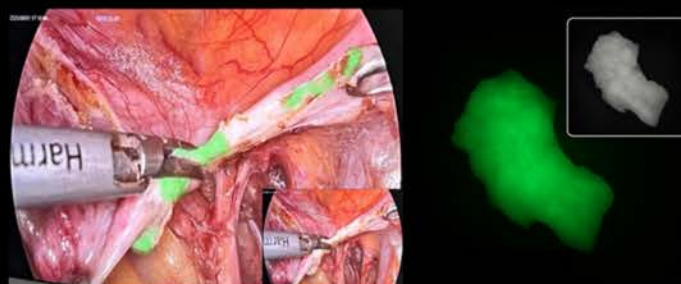
NOTE: * marked are available in advance models only

ENVOLITE IRLA 300

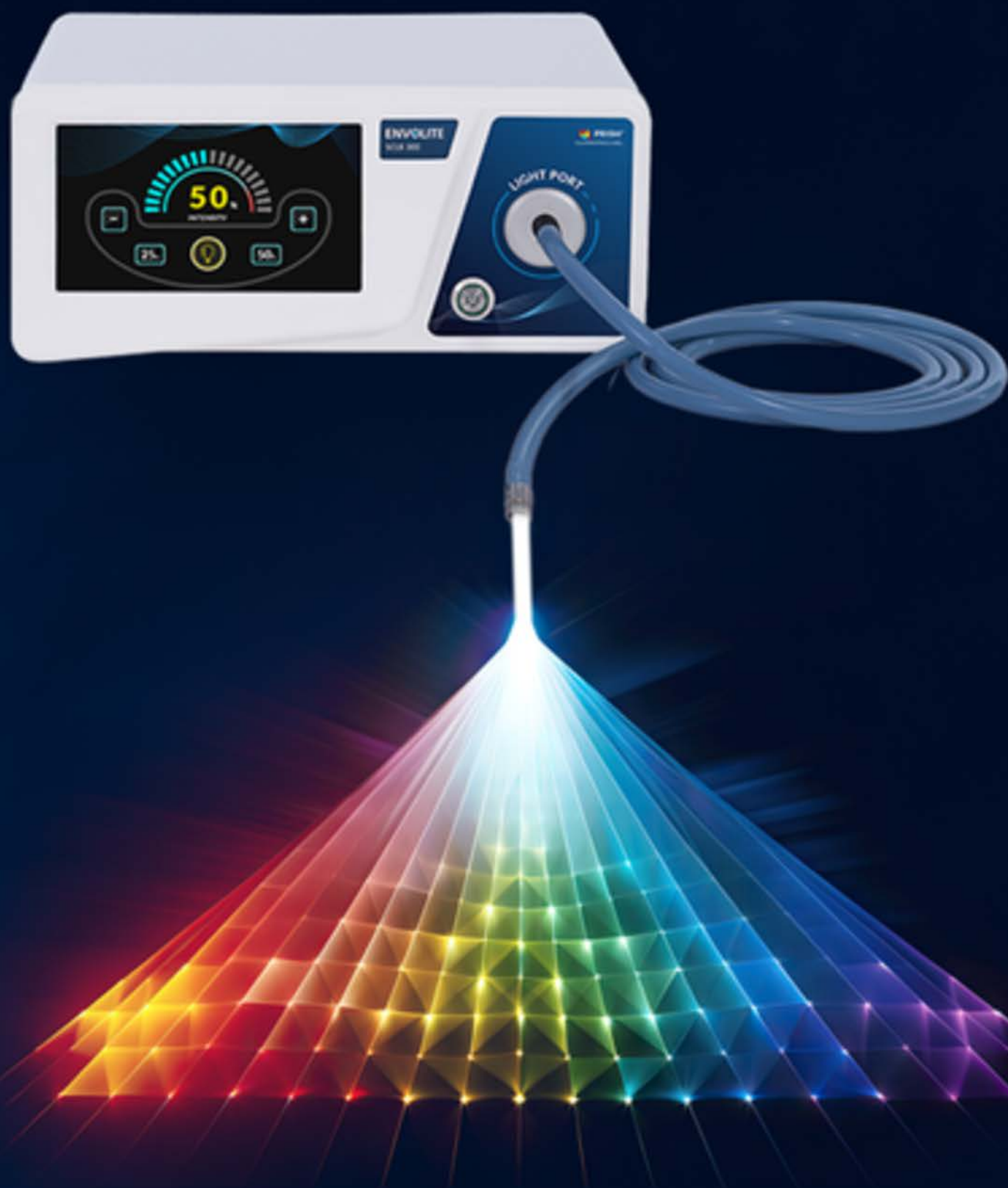
Powered by EPMD's state-of-the-art **OptiCore-MX™** micro-optical platform and the **SpectraSure™** color-fidelity engine, this next-generation hybrid endoscopic light source redefines surgical illumination versatility. Integrating dual-mode output from a single optical port, it enables seamless switching between high-intensity white light and precision-tuned infrared excitation for ICG fluorescence imaging—or both simultaneously.



- With an industry-leading **98.5% ICG excitation efficacy**, it delivers unmatched fluorescence clarity and depth perception compared to conventional systems.
- The intelligent digital interface provides intuitive mode selection, programmable presets, real-time optical hour monitoring, and advanced safety sensors for cable detection.
- Encased in a sleek, lightweight chassis, it represents the pinnacle of optical engineering—bringing true hybrid illumination and clinical precision into one compact, elegant system.

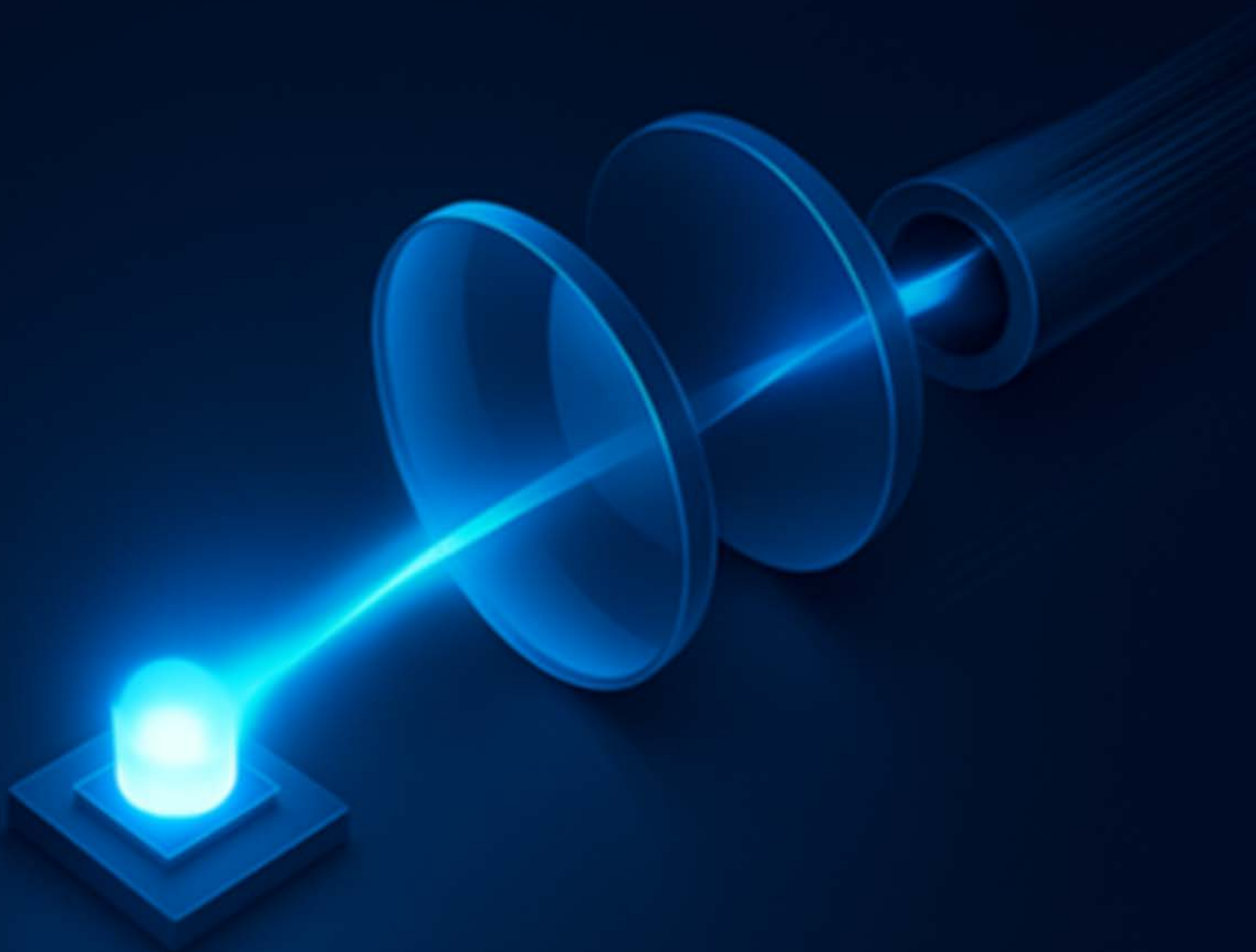


INFRARED FLUORESCENCE WITH INDOCYANINE GREEN



SpectraSure™

High-fidelity illumination for true-to-life color



Advantages of **Opticore Mx™**



Lightweight
Design

4.8 kg



High
Optical
Efficiency

Coupling
= 93%



Reduced
Heat

ΔT
< 0,9°C



Superior
Color
Quality

CRI
= 96

Opticore Mx™

Unlocking the power of Micro-Optics for Lighter, Smarter and Safer surgical illumination





SPECIFICATIONS:

VARIANT	IRLA 300
TYPE	High power LED
ILLUMINATION MODE	Dual mode (White light / IR excitation / Hybrid) via single port
CONTROL INTERFACE	7" capacitive touchscreen with independent white/IR selection
LIGHT OUTPUT	3,200 lm
ICG EFFICACY	98.5%
DIMMING RANGE	5 – 100%
CCT	5,700 K – 6,500 K
COLOR QUALITY	True (CRI > 95)
POWER	55 W
LED LIFE	50,000 h; In-built optical hour meter
SUPPLY VOLTAGE	90V – 300V AC
CERTIFICATIONS	CE, US FDA, CDSCO

ACCESSORIES



CARRY CASE



NIR FIBER CABLE



SPECIFICATIONS:

VARIANTS	SCLA 300	TCLA 300
WATTAGE	40W	55W
COLOR TEMPREATURE	5,700 K - 6500 K	5,700 K - 6500 K
CRI (Ra)	>70	95
Lifespan	50,000 Hrs	50,000 Hrs
INTENSITY ADJUSTMENT	10-100%	0-100%
DISPLAY	7" Touchscreen	7" Touchscreen
DIMENSIONS	326 mm X 279 mm x 142 mm	
WIEGHT	4 Kg	5 Kg
OPTICORE MX™	AVAILABLE	AVAILABLE
SpectraSure™	NA	AVAILABLE

ACCESSORIES



LIGHT SOURCE



HEADLIGHT



FIBER CABLE





30+ YEARS
MEDICAL DEVICE
MANUFACTURING EXPERIENCE



50+
MEDICAL DEVICES



10,000+
OPERATING
ROOMS



10 Million
ACTIVE USERS

Our Brands



Certifications and Compliances

ISO 9001:2015



ISO 13485:2016



ICMED 13485



CE



CDSCO



USFDA



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