

XL3000

Fiber Optic Illumination System



Clean, complete design of XL3000 provides turnkey solutions for medical OEMs and complies with latest international regulatory standards.

Overview

The new XL3000 by Excelitas is a complete fiber optic illuminator featuring the latest in Cermax[®] Xenon technology. Cermax Xenon is the premiere fiber optic illumination technology for integration into endoscopy equipment and other demanding medical applications that require bright, accurate color illumination. It provides many advantages for the medical environment, such as consistent 6000°K color temperature that yields true white light throughout the life of the lamp. The broadband xenon spectrum makes it an ideal “tunable” source for narrow band illumination applications such as biofluorescence and photoactivation.

The XL3000 Fiber Optic Illumination (FOI) system employs a state-of-the-art 300-Watt Cermax Xenon light source. Cermax Xenon lamp technology delivers a robust lamp design with easy lamp replacement and no alignment issues. Cermax Xenon sets the industry standard in reliability, optical efficiency and ease-of-use.

The XL3000 system is designed with a four-port rotating turret fiber optic adapter, compatible with industry standard fiber optic cables — ACMI, Wolf, Storz and Olympus. The high-performance FOI system was also designed with safety in mind. It features interlocks to prevent stray light leakage,

Key Features and Benefits

- ▶ **Single worldwide universal power supply.** Operates with input voltage ranging from 100 — 240 VAC and can be employed worldwide without any configuration changes.
- ▶ **Four-port flush mount design turret.** Designed for compatibility with industry standard fiber optic light connections, including Storz, Olympus, Wolf, and ACMI.
- ▶ **User adjustable light output intensity.**
- ▶ **Easy Cermax lamp replacement.** No tools required.
- ▶ **Quick re-strike capabilities.**
- ▶ **Uniform and very high brightness output beam profile.**
- ▶ **Incorporates a fiber optic connection safety feature.** The lamp will not ignite unless a fiber optic cable is fully inserted into the active port. To prevent accidental light leakage, the lamp power is cut or blocked if fiber optic cable is removed from the active port.
- ▶ **Simple to operate.** All controls and displays are visible and easy to access.
- ▶ **RS232 user interface.** Enables remote control of the XL3000 and easy integration into larger systems with central computer control.
- ▶ **Ease of sterilization.** The XL3000 FOI can easily be wiped-down with hospital-approved disinfectants applied with a damp cloth.
- ▶ **Low noise generation of < 45 dB (typical).**
- ▶ **Excellent system warranty.** 24 months, excluding the lamp.

should the unit be operated without a fiber connection or if the fiber is removed during operation.

As with all Excelitas product lines, the new XL3000 FOI is fully compliant with the latest international regulatory standards. The system can be operated worldwide without any configuration changes. The system's shell is easily modified to achieve OEMs' exact specifications and customization needs. Whether OEMs require off-the-shelf units or fully-customized units designed to the most stringent specifications, Excelitas has the fiber optic illumination solution to meet every need.

PekinElmer

Excelitas is a global technology leader providing market-driven, integrated solutions for a wide range of applications, which leverage our lighting, sensors, and imaging expertise.

Our technologies, services and support are fueling the medical, genomic and digital revolutions by enhancing our customers' productivity, optimizing performance, and accelerating time-to-market.

lighting technology
for the perfect image

XL3000 Product Specifications	
Input Voltage	100 - 240 VAC, 50/60 Hz universal
System Light Output	2000 Lumens nominal initial output through 6 mm glass rod at full rated power Intensity level adjustable by user from 0-100% in increments of 10%.
Spectral Output	380 - 750 nm nominal
Lamp Power Supply	PS300 -12 type
Lamp Module	Cermax® 300 Watt
Lamp Life	500 hours warranty, > 1000 hours typical
Fiber Optic Adapter	Four-port turret with Wolf, Storz, ACMI, and Olympus ports
Interface	Membrane buttons and digital display on front panel and RS232 interface option
Physical Dimensions	5.0"(height) x 16.9" (width) x 13.8" (depth)
Weight	9 kg
Operating Temperature	6° C to 40° C
Operating Pressure	1 Atmosphere
Regulatory Approvals	IEC 60601-1, UL 60601-1, EN 60601-1, EN 60601-1-2, CAN/CSA C22.2 No. 601, CE Mark
Note: All values are nominal; specifications subject to change.	

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