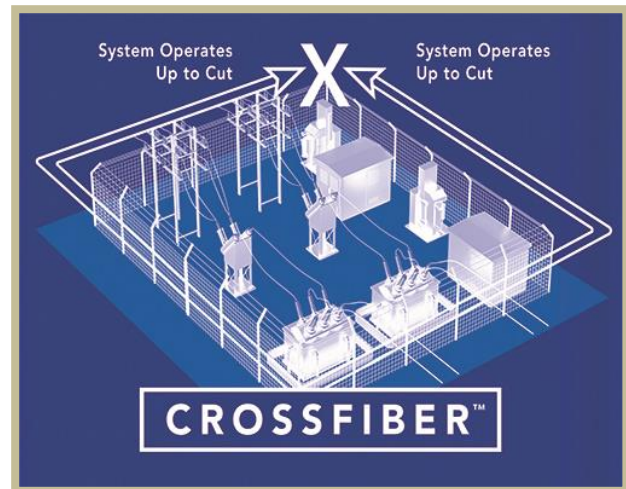**Fiber SenSys**®
PERIMETER SECURITY

HALO–CrossFiber™ Intrusion Detection System
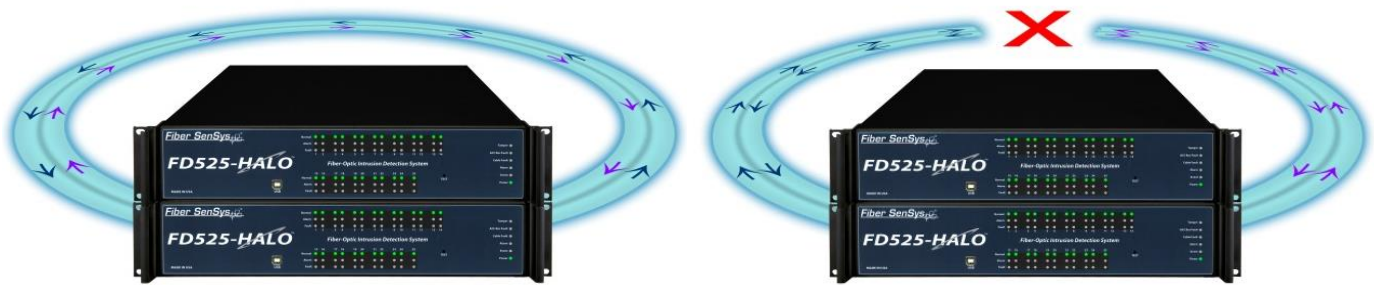## *A DOTDR Perimeter Sensor Solution for Critical Sites*

HALO-CrossFiber™ provides redundancy for demanding critical infrastructure applications. This completely cut-tolerant fence or wall mounted sensor is designed for medium to large sites. Remotely located third-generation signal processing provides easy maintenance, an impressive probability of detection (PD) and un-matched nuisance alarm discrimination.

From the company that brought you the world's first fiber-optic fence detection system, Fiber SenSys, Inc. (FSI) introduces **HALO–CrossFiber™**, the first cost-effective redundant fiber-optic fence sensor based on Discrete Optical Time-Domain Reflectometry (DOTDR) technology.

- **CrossFiber™ Bi–Directional Architecture**
- **Cut–Tolerant Redundant Design**
- **World–Class Alarm Discrimination**

HALO–CrossFiber™ uses field-proven technology that has been successfully deployed in thousands of high-security facilities throughout the world. The scalable system design provides the flexibility needed to meet any site requirements. **HALO–CrossFiber™** uses the proven power of lasers and fiber optics coupled with the newest detection algorithms to identify intrusion attempts along a perimeter. When one or more zones are breached, the system instantly identifies the location of each intrusion attempt while continuing to monitor the rest of the perimeter.

Fiber SenSys®

POWERED BY
FD525-HALO™
TECHNOLOGY

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Hillsboro, Oregon 97124, USA
Tel: +1 (503) 692–4430 • Toll free (US) +1(800) 641–8150
www.fibersensys.com

DOTDR cut-tolerant technology keeps working even after a cable cut.

HALO-CROSSFIBER™ PRODUCT SPECIFICATIONS

Cut-tolerant sensor configuration	Fully redundant dual processors driving independent zones, utilizing discrete optical time-domain reflectometry (DOTDR) via multi-fiber hybrid cable.
Sensor media	Durable fiber-optic sensing unaffected by chemical, electrical or environmental elements such as corrosion, RFI, EMI, and lightning
Insensitive lead-in fiber	• Single-mode fiber • Maximum length: 5 km
Zone/cable lengths	• Minimum zone lengths: 20 m (65.6 ft.) • Maximum zone lengths: 800 m (2625 ft.) • Maximum cable length (not including insensitive lead-in): 5.8 km (3.6 mi)

HALO-CrossFiber™ Alarm Processing Unit

Number of zones per APU	Up to twenty-five fully independent zones, expandable for larger applications
APU power requirements (2X)	• 90 to 250 VAC input • 17 watts power consumption (maximum) • Fuse rating: 1.25 A
Communications	• USB port for assigning zones to optical ports, and for tuning • TCP/IP port for alarm output and XML communication • Dry contact alarm relay outputs
Dimension per processor (2X)	Height = 8.81 cm (3.47 inch) Width = 48.16 cm (18.96 inch) Length = 42.52 cm (16.74 inch)
Operating temperature range	0˚ C to 55˚ C (32° F to 131° F)

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Fiber SenSys®

High Performance – High Reliability – High Security