

FOIDS®

Fiber Optic Intelligence & Detection System



FOIDS Series 6000

The FOIDS system is a cost effective perimeter security system utilizing single mode fiber optic cable and highly sensitive interferometry technology for intrusion detection along fences and walls up to a zone length of 3.5 miles. FOIDS can secure virtually any size perimeter without electrical power or electronic components outside a central control room. FOIDS detects pressure changes along length of zone including climbing, lifting, or cutting of the fence.

FOIDS Value Proposition	
FOIDS, proven to outperform other fence, wall, roof and in ground perimeter intrusion technologies. Part of the integrated family of ECSI security systems.	
Low Lifecycle Cost	<ul style="list-style-type: none"> - Single mode fiber provides very long and flexible zone lengths - No power or electronics needed at fence - Easy to use (requiring less staff training time) - Self supervision (facilitating in house maintenance)
Best Industry Warranty	- 10 years
Scalability	<ul style="list-style-type: none"> - Modular design - Secure from 1 zone to 256 zones. - Provides physical protection of data LANs
High Quality	<ul style="list-style-type: none"> - MTBF>200,000 hours - MTTR 30 minutes
Highly Accurate	<ul style="list-style-type: none"> - High probability of detection (PD) regardless of weather conditions - Adjustable sensitivity control of each zone resulting in low NAR/FAR - Provides alarm discrimination for climbing, lifting, and cutting of fence fabric.
Government Approved	- Widely accepted by DoE/USAF

HARDWARE FEATURES	HARDWARE BENEFITS
Zone processors are rack mounted plug-in type	Electronic modules are easily and rapidly replaced and require minimum maintenance.
Cut loop detection for operational integrity	Alarms when optical integrity is disrupted by cutting or disconnecting.
Single mode sensor cable is riser rated	<ul style="list-style-type: none"> - Tight-buffer allows easy preparation for termination or splicing. - Rated for indoor/outdoor applications. - Requires minimum maintenance - Rapid temporary field repairs can be accomplished with mechanical splices.

UTILITY SOFTWARE FEATURES	UTILITY SOFTWARE BENEFITS
Real time graphic display mode	Allows the user to view a real time graphic representation of events occurring at the zone. Displayed in either a trace or bar graph format.
Event recording mode	Allows the user to record all events occurring at the zone. These files can then be played back to make comprehensive parameter adjustments based on the recorded results. The recorded files can also be exported off site for analysis.

APPLICATIONS
Chain link, wrought iron, expanded metal security fences
Interior high security areas
Sensitive/high security fiber optic data transmission systems

Specifications

FOIDS maintains its specified performance when exposed to environmental conditions

HARDWARE

Model M3200WM (Wall Mount)

Laser Classification:	Class 1 operational @ 1310nM	Fiber	
Alarm Discrimination Parameter:	User Selectable	Fiber Optic Cable:	Single-Mode fiber count may vary based on project need
Digital Filtering:	User Selectable	Power Supply	
Audio Function:	User Selectable	Power Systems:	Triple output, regulated linear
Alarm Tracing Facilities:	User Selectable	Power Input:	108-132 VAC 60 Hz
Serial Data Port:	RS 232	Output:	+5 volts DC Regulated -0.6A +12 Volts DC Regulated -0.16A -12 Volts DC Regulated -0.16A
Operating Temperature:	0 – 50 degrees C	Connectors	
Dimensions:	7" W x 9" D x 2" H	Typical Loss:	0.2dB
Weight:	2.5 lbs.	Relay closures:	User Selectable Form "C"

Model M3200RM (Rack Mounted)

Laser Classification:	Class 1 operational @ 1310nM	Power Supply	
Alarm Discrimination Parameter:	User Selectable	Overload protection	Fused
Audio Function:	User Selectable	Circuitry:	Solid State
Operating Temperature:	0° to 50° C	MTBF:	Over 200,000 hours per Mill Hndbk 217D
Console:	19"W x 32"D x H (TBD)	Temperature rating:	0° to 50° C
Computer/Software:	Windows NT, 2000, XP	AC Input:	100/120/220/240 VAC 47-63 Hz
Weight: CPU & Monitor	Minimum 65 lbs.	AC Current:	2.3/2/1.1/1 Amperes respectively
Serial Data Port:	RS 232	DC Output:	+5 VDC at 6 Amperes +12 VDC at 1.7 Amperes -12 VDC at 1.7 Amperes
Relay Closures:	User selectable Form "C"	Weight:	17 to 35 lbs. depending on the number of zones.
Optics		Connectors	
Single-Mode Optical Fiber Sensor Cable:	May vary based upon project specifications	Typical Loss:	0.2dB
Operating Temperature:	-40° C to +85° C	Fungus/Water/UV resistant and flame retardant	
Operating System	Windows		

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