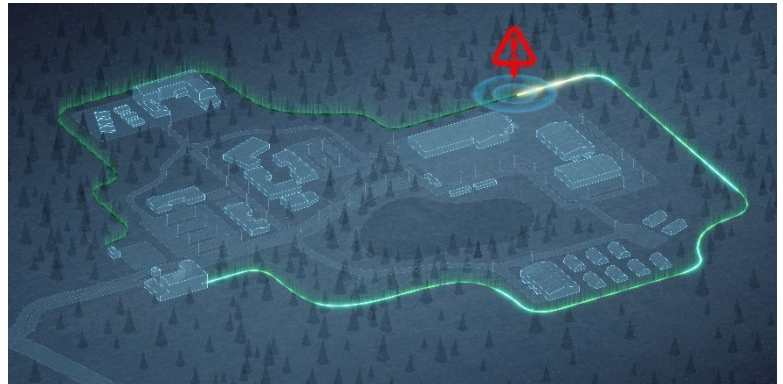


## EchoPoint™

### Point Locating Distributed Acoustic Sensors

The **EchoPoint™** Distributed Acoustic Sensors (DAS) utilize the latest technologies in fiber optic sensing and classification algorithms to provide the most advanced solution for applications requiring reliable, point locating intrusion detection sensors. These advancements make **EchoPoint™** sensors a key part of the solution in large sites where precise intrusion location is needed.



#### Key Features:

- Location accuracy of  $\pm 6\text{m}$
- Software zoning
- XML via TCP/IP and GIS integrations
- Maximum fiber optic sensor length of up to 100km per processor

The **EchoPoint™** systems can identify where an intrusion is taking place within six meters. Virtual zoning allows for the system to be broken down into multiple software-defined detection areas. Zone lengths can range from 10m to 100km. The EchoPoint system can pass zone alarms to video/security management systems via XML/TCP/IP and/or optional relay I/O contact modules. Fiber SenSys continues its cut tolerance and system redundancy with **EchoPoint™**. The systems provide cut tolerance when applied in a loop configuration utilizing both channels. In addition to dual power supplies, **EchoPoint™** systems can

provide redundant processing, eliminating the single point of failure. In the unlikely event of a processor failure, the second processor will automatically take over maintaining your perimeter security system.

The **EchoPoint™** systems use an advanced pattern-recognition classification algorithm that has been proven to provide industry-leading performance. **EchoPoint™** systems identify the differences in intrusion attempts by providing fabric cuts, climbs, and events for fence applications. For buried applications, the system identifies the differences between footsteps, manual digging, machine digging, and vehicle traffic events.

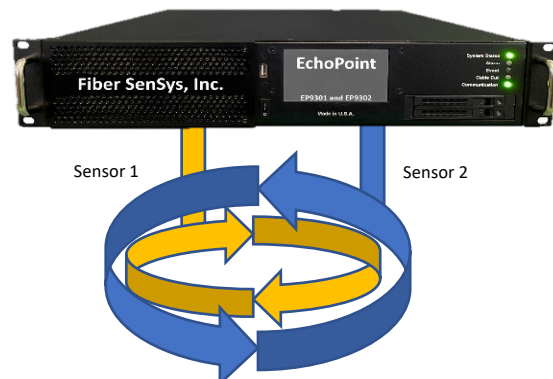
#### Applications:

- Airports
- Distribution Centers
- Refineries
- Data Conduits
- Railways
- Corrections

### Higher security by design

For more information, contact us at:  
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#### Loop Configuration



Single Line Configuration



EP9301/EP9302		EP9311/EP9312	
<b>Hardware</b>	Single 2RU Rackmount Device		
<b>Hard Drive</b>	2 Redundant/Hot Swappable		
<b>Max. Sensor Length</b>	10km per processor, 5km per channel	100km per processor, 50km per channel	
<b>System Configuration</b>	Single line ( <u>NO</u> cut-tolerance) or Loop (cut-tolerance)		
<b>Detection Application</b>	Fence, Buried, Pipeline, or Hybrid		
<b>Burial Depth</b> (Dependent on soil type)	.3-.9m(1-3ft)		
	<b>EP9301™</b>	<b>EP9302™</b>	<b>EP9311™</b>
<b>Classification Reporting</b>	NO	YES	NO
<b>Human Walking</b>	NO	YES	NO
<b>Human Running</b>	NO	YES	NO
<b>Vehicles</b>	NO	YES	NO
<b>Hand Tool Digging</b>	NO	YES	NO
<b>Machine Digging</b>	NO	YES	NO
<b>Processor Redundancy</b> (optional)	EP9301-B™ Below 5km	EP9302-B™ Below 5km	EP9311-B20™ 5km-20km
			EP9311-B21+™ 20km - 100km
<b>Electrical</b>			
<b>Input</b>	100/240 VAC, 50-60Hz		
<b>Power</b>	120 watts		
<b>Mechanical</b>			
<b>Dimensions</b>	48x51x9cm (19"x20"x13.5")		
<b>Rack Space</b>	2U		
<b>Weight</b>	11.4 kg (25lbs.)		
<b>Environmental</b>			
<b>Temperature Controller</b>	0°C to 50°C (32°F to 122°F)		
<b>Humidity Controller</b>	20% to 80% non-condensing		
<b>Sensor Fiber Spec</b>			
	Must meet ITU-T G.652.D, and have a maximum attenuation ≤0.25 dB/km at 1550 nm		
<b>Integration</b>			
<b>Built-in</b>	XML TCP/IP		
<b>Optional</b>	SeaLevel® USB I/O module		
<b>Certifications</b>			
<b>Electromagnetic Compliance</b>	FCC Part 15 Class A EC EMC Directive 2004/108/EC		

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