

EchoPoint™ Point Locating Distributed Acoustic Sensors

The EchoPoint™ Distributed Acoustic Sensors (DAS) use the latest technologies in fibre optic sensing and classification algorithms to provide the most advanced solution for high security sites and applications. Providing accurate, reliable, and point locating intrusion detection, the sensors can play a key role in protecting large sites where precise intrusion location is needed.

EchoPoint™ DAS can identify where an intrusion is taking place within a range of 6m. Virtual zoning allows for the system to be broken down into multiple software-defined detection areas. Zone lengths are fully scalable, extending up to 100 km. The sensors can pass zone alarms to video/security management systems via XML and/or optional relay I/O contact modules.

The sensors provide advanced cut tolerance when applied in a loop configuration utilizing both channels. In addition to dual power supplies, EchoPoint™ sensors 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 sensors use an advanced pattern-recognition classification algorithm that has been proven to provide industry-leading performance. EchoPoint™ sensors can identify the differences in intrusion attempts; for fence applications they can determine if its cutting or climbing the fence. For buried applications, the system identifies the differences between footsteps, manual digging, machine digging, and vehicle traffic events.



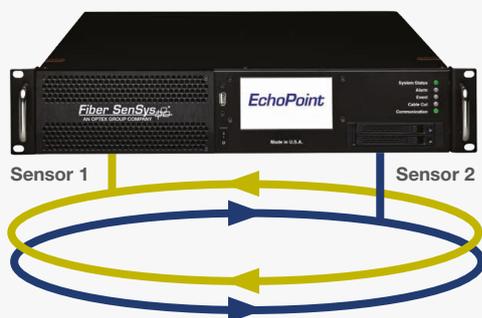
Key Features:

- Location accuracy of ±6m
- Software zoning
- XML via TCP/IP and GIS integrations
- Maximum fibre optic sensor length of up to 100km per processor

Applications:

- Airports
- Distribution Centers
- Critical Infrastructure
- Data Conduits
- Railways

Loop Configuration

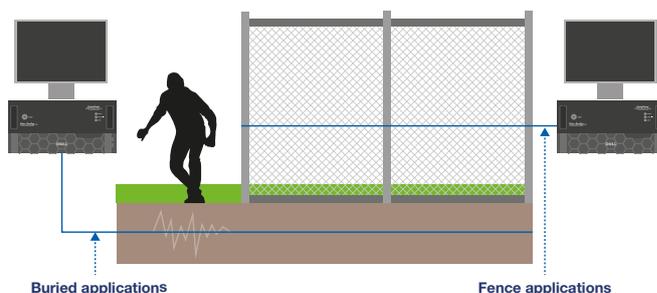


Single Line Configuration



Point Locating Distributed Acoustic Sensors for large perimeters

The EchoPoint Distributed Acoustic Sensors (DAS) utilise advanced fibre optic sensing and machine-learning algorithms to detect precisely the location of an intruder even in large perimeters. The system allows to be operated across multiple applications – installed on fences, buried or hybrid layout.



EchoPoint EP9300™	
Hardware	Hardware Single 2U Rackmount Device
Hard Drive	2 Redundant/Hot Swappable
Max. Sensor Length	80km max per processor for fence applications 100km max per processor for buried, pipeline & data cable security applications
System Configuration	Single line (no cut-tolerance) or Loop (cut-tolerance)
Detection Application	Fence, Buried, Pipeline, or Hybrid
Burial Depth (Dependent on soil depth)	30 - 90cm (1 - 3ft)
Classification Reporting	YES
Human Walking	YES
Human Running	YES
Vehicles	YES
Hand Tool Digging	YES
Machine Digging	YES
Processor Redundancy	Optional
Electrical	
Input	100/240 VAC, 50-60Hz
Power	120 watts
Mechanical	
Dimensions	48x51x9cm (19"x20"x13.5")
Rack Space	2U
Weight	11.4 kg(25lbs.)
Environmental	
Temperature (Controller)	0°C to 50°C (32°F to 122°F)
Humidity (Controller)	20% to 80% non-condensing
Sensor Fibre Spec	
	Must meet ITU-T G.652.D, and have a maximum attenuation ≤ 0.25 dB/km at 1550 nm Gel filled required for buried applications.
Integration	
Built in	XML TCP/IP, ASCII
Optional	ADAM I/O modules
Certifications	
Electromagnetic Compliance	FCC Part 15 Class A – EC EMC Directive 2004/108/EC
	   

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