

# EchoPoint™

## *Point Locating Distributed Acoustic Sensors*

The **EchoPoint EP9150™** and **EP9210™** Distributed Acoustic Sensors (DAS) utilize the latest technologies in fiber optic sensing and machine-learning algorithms to provide the most advanced solution for applications requiring long-range, 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  $\pm 5\text{m}$
- Software zoning from 20m to 50km per zone
- GIS integrations
- Maximum fiber optic sensor length of up to 50km

The **EchoPoint** systems can identify within five meters where an intrusion is taking place. By interfacing directly with video systems, cameras can instantly provide an assessment of the perimeter. Integration into complete systems not only greatly increases the safety and security of the site but also allows for fewer cameras and infrastructure, thereby reducing the cost of the security system. If your VMS is not able to accept true GIS information, virtual zoning allows for the system to be broken down into software-defined zones. Alarms in these zones can interface with video

management systems via TCP/IP or relay contacts. The **EchoPoint™** systems can create virtual zones as small as 20m to as large as the entire sensing cable length of an interrogator. The **EchoPoint™** systems are modular; more than one interrogator can be used for very large sites or where redundant sensor requirements exist.

While being able to sense a disturbance is certainly one of the strong points for these sensors, equally important is the ability to process the signals. The **EchoPoint™** systems use an advanced machine-learning algorithm that has been proven to provide industry-leading performance. EchoPoint systems come pre-trained to identify fabric cuts, climbs, and other events that would indicate an intrusion attempt is in process. This approach also reduces the time and skill required to set up and tune the systems.

### Applications:

- Airports
- Borders
- Refineries
- Data Conduits
- Railways

### *Higher security by design*

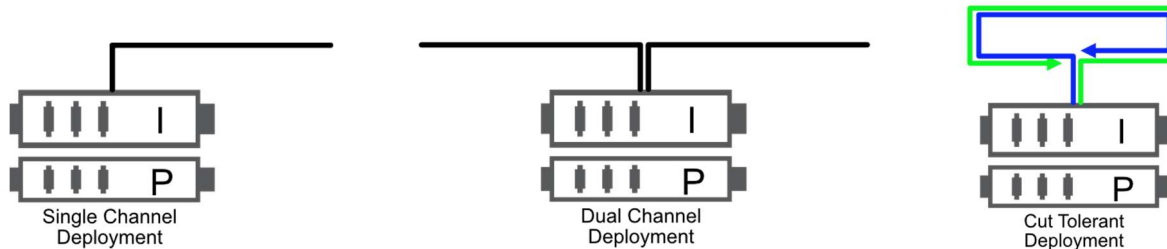
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### Deployment Configurations

(I: Interrogator; P: Processor)

| Product Specifications                   | EP9150™  | EP9210™  |
|--|--|--|
| <b>System Type</b>                       | Distributed Acoustic Sensor, Intrusion Detection   | Distributed Acoustic Sensor, Intrusion Detection   |
| <b>Accuracy</b>                          | ± 5m   | ± 5m   |
| <b>Virtual Zones</b>                     | Yes – Software defined<br>Minimum size: 20m<br>Maximum size: 50km                              | Yes – Software defined<br>Minimum size: 20m<br>Maximum size: 10km                                    |
| <b>Interrogator with Processor</b>       | 19-inch rack-mountable, 6U height  | 19-inch rack-mountable, 6U height  |
| <b>Standard, External Power Supply</b>   | 100 – 240 VAC 47 to 63 Hz  | 100 – 240 VAC 47 to 63 Hz  |
| <b>Interrogator Power Requirements</b>   | 130 Watts  | 130 Watts  |
| <b>Communications</b>                    | TCP/IP with optional relay contacts  | TCP/IP with optional relay contacts  |
| <b>Range</b>                             | Single Channel Deployment: 50 Km<br>Dual Channel Deployment: No<br>Cut Tolerant Deployment: No | Single Channel Deployment: 10 Km<br>Dual Channel Deployment: 20 Km<br>Cut Tolerant Deployment: 10 Km |
| <b>Supported Sensing Fiber</b>           | Fiber SenSys 12-Fiber Trunk Cable (600-02915)  | Fiber SenSys 12-Fiber Trunk Cable (600-02915)  |
| <b>FO Connector Type</b>                 | LC-APC   | LC-APC   |
| <b>Connectivity</b>                      | 1 Gigabit Ethernet   | 1 Gigabit Ethernet   |
| <b>Laser Class</b>                       | Class 3B Laser   | Class 3B Laser   |
| <b>Optical Wavelength</b>                | 1550 nm  | 1550 nm  |
| <b>Temperature</b>                       | Indoor Operations: 0°C to 40°C<br>Storage: -30°C to +50°C                                      | Indoor Operations: 0°C to 40°C<br>Storage: -30°C to +50°C  |
| <b>Relative Humidity</b>                 | 80% at +25°C   | 80% at +25°C   |
| <b>Mean Time Between Failures (MTBF)</b> | 55000 Hours  | 70000 Hours  |
| <b>Mean Time To Repair (MTTR)</b>        | 4 Hours  | 4 Hours  |

Note: The processor consists of algorithm, management, and user interface software pre-installed on an included rackmount computer.

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