

FenceSentry™ - Distributed Acoustic Sensor

The FenceSentry™ series of Distributed Acoustic Sensors (DAS) are optimised for Perimeter Intrusion Detection (PIDS) and provides detection and locating of intrusion events with minimal nuisance events and false alarms



Features

- Location of intrusion event to within 5m
- Intelligent classification engine with motion recognition
- Based on single fiber optic sensing cable. No individual sensors, no metal or moving parts
- Robust and reliable instrumentation with no moving parts (fan free) and utilising high reliability telecom components

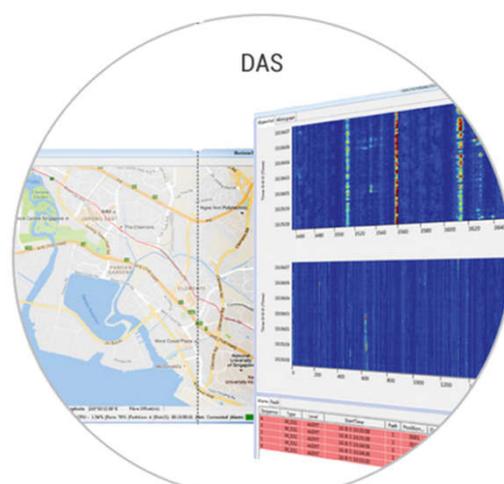
Benefits

- Ability to react to precise location of event for rapid action and effective troubleshooting
- High detection rate of all intrusion events with low nuisance and false alarm rates
- Easy to install and low cost of ownership with low ongoing maintenance costs
- High percentage system uptime (mean time between failures > 19 years) giving complete coverage at all times

	FenceSentry 5	FenceSentry 10
Smart Zones	1000+ zone, fully configurable, independent of each other	
Intelligent Classification Engines	Fence related intrusion alerts. Environmental noise reduction	
Range (per unit)	5km	10km
Positional Accuracy	±5m	
Number of channels	1 or 2	2
Optical fiber type	G.652/ G.654 single mode optical fiber	
Frequency range	1Hz~60Hz	
Response Time	2 to 10 seconds	
Voltage	90V~250V(AC) / 24V (DC)	
Power consumption	30W	
Data Export	TCP/IP, RS232/RS485, Modbus, DCS (Honeywell, Siemens, ABB.....)	

User Interface

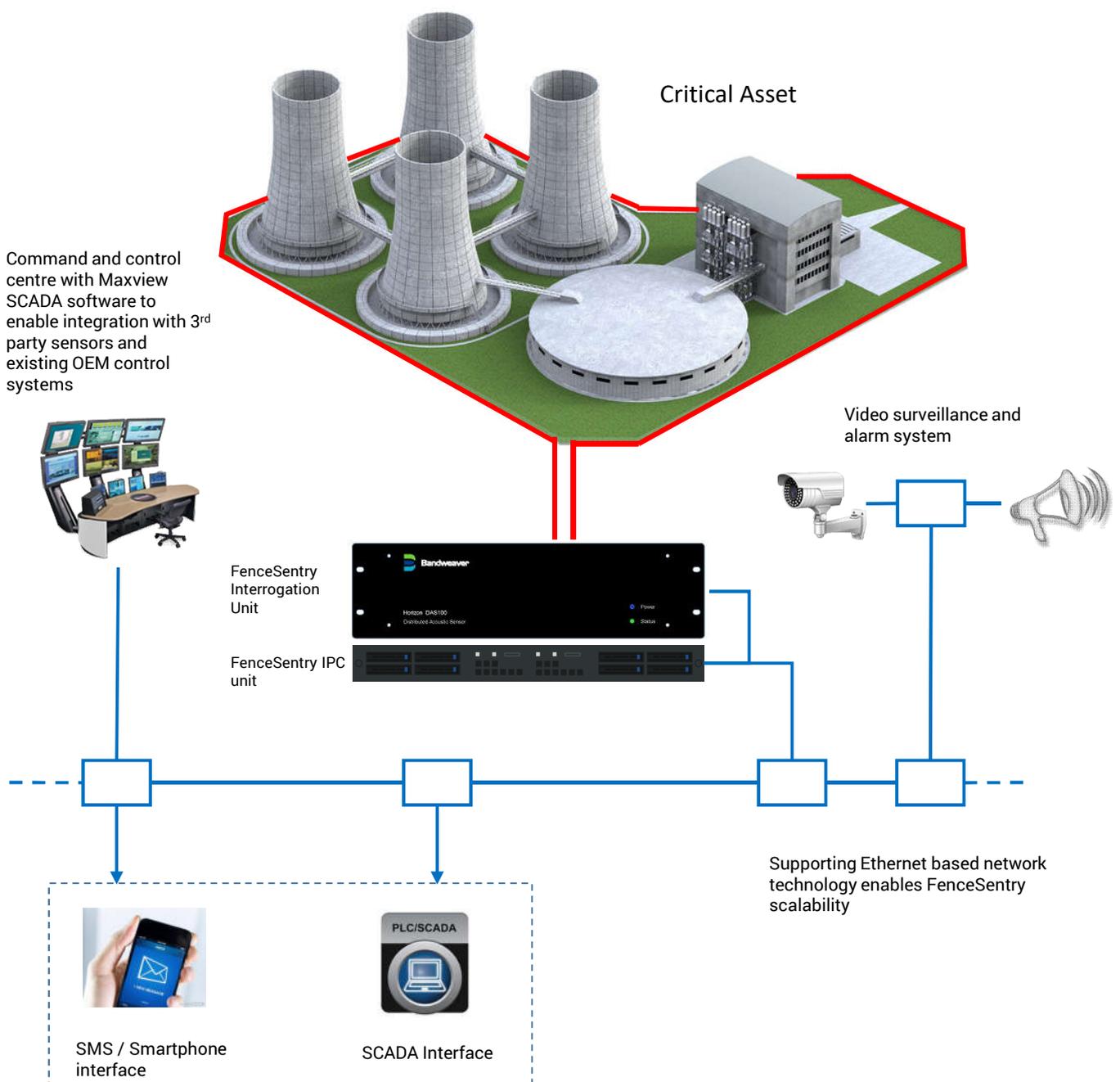
The FenceSentry system utilises in-built software with advanced data analytics and intelligent classification engine. With the GIS mapping interface, alarming functionality and waterfall data analytics this can be used as a standalone solution or with Bandweaver's power Maxview SCADA software



System Integration

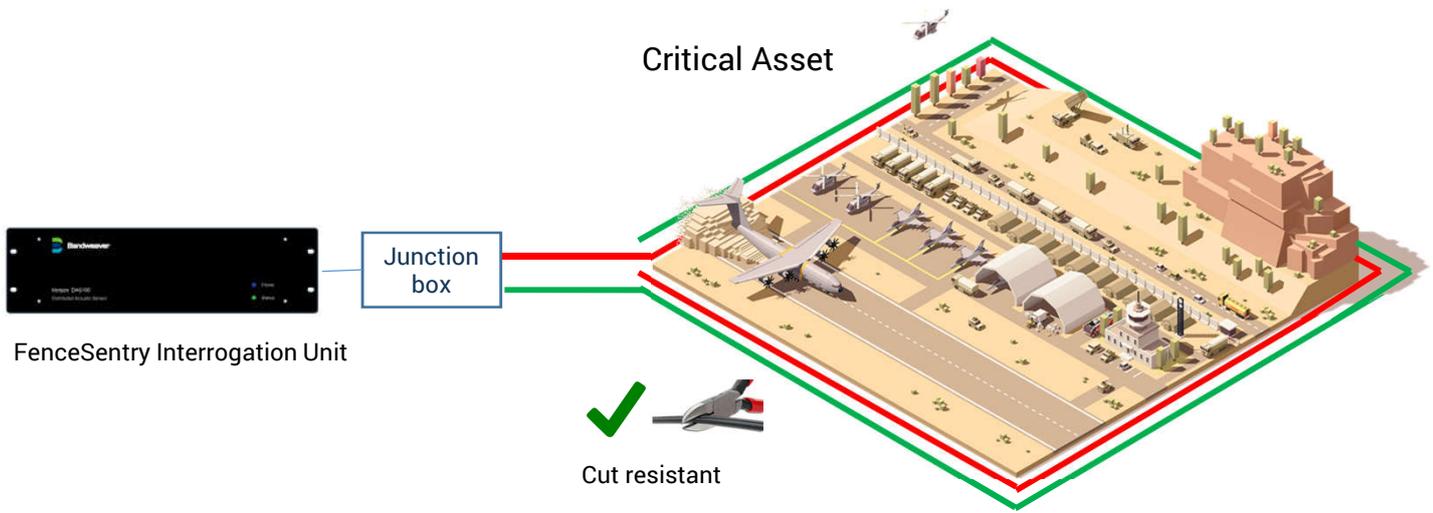
The FenceSentry system has an extremely flexible system architecture enabling it to integrate either with Bandweaver's Maxview SCADA software or with any 3rd party control systems.

With the loose coupling architecture of Maxview it can integrate multiple systems across multiple sites with one coherent, customisable, easy to install user friendly interface



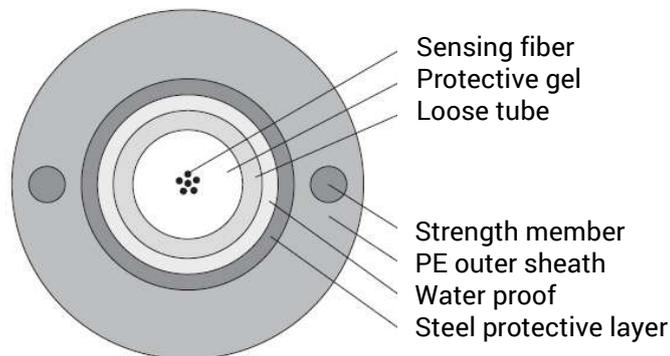
Robust Anti-Cut Loop Configuration

In 2 channel loop mode configuration the FenceSentry system can withstand accidental or malicious damage to the cable. The system will continue with full functionality even with a cut to the cable



Cable Specifications

The FenceSentry system is optimised to work with the Bandweaver Fenceline cable. Fenceline is based on a loose tube cable design optimised to provide signal amplification and additional protection to the sensing cable. As standard comes with 4 fibers but can accommodate additional fibers on request



Cable OD	Fiber Type	Number of cores	Pressure rating	Strength rating	Bend radius
10.2mm	G.652 Single mode	4+	Short term 1000N Long term 3000N	Short term 600N Long term 1500N	Static 10 x Dynamic 20x