KIFTA TECHNOLOGIES

FenceSentry™ - Distributed Acoustic Sensor

The FenceSentry™ series of Distributed Acoustic Sensors (DAS) are optimised for fence mounted Perimeter Intrusion Detection (PIDS) and provides detection and location of intrusion events. The advanced environmental algorithms minimise nuisance events and false alarms while maximising probability of detection.

Features

Location of intrusion event to within 5m

Environmental correction algorithm which can be optimised to take into account specific environmental (wind, rain..) conditions

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

Ability to continue monitoring and offer complete coverage even if the cable is cut

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 giving complete coverage at all times

Extremely robust system which continues to operate even in the event of attempted sabotage by intruders

Specifications

	FenceSentry 5	FenceSentry 10
Smart Zones	1000 alarm zones, fully configurable, independent of each other	
Event Classification	Fence related intrusion alerts. Environmental noise reduction	
Range (per unit)	5km	10km
Positional Accuracy	±5m	
Number of channels	1	2
Optical fiber type/connector	G.652/ G.654 single mode optical fiber FC/APC connector	
Frequency range	1Hz~40Hz	
Response Time	3 to 10 seconds	
Voltage	110V~220V(AC)	
Power consumption	20W average (40 W Maximum)	
Data Export	48 relays, TCP/IP , RS 485	
Operating Temperature	0 – 40°C	
Integration with security system	Integration with cameras (Onviv) and DVR (via Maxview for Fence)	
Dimensions	431 x 132 x 384 mm (19" rack - 3U height)	

User Interface and System Integration

The FenceSentry™ system utilises in-built software with environmental algorithm correction, alarming functionality and waterfall data analytics. As standard, the FenceSentry also comes with *MaxView for Fence* which also provides mapping functionality and integration with camera systems. Additional system integration facility can be provided on request through the MaxView™ software interface

Example of FenceSentry™ & MaxView™ for Fence screenshots

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 can continue with full functionality even with a cut to the cable

Critical Asset

Junction box

FenceSentry Interrogation Unit

✔

Cut resistant
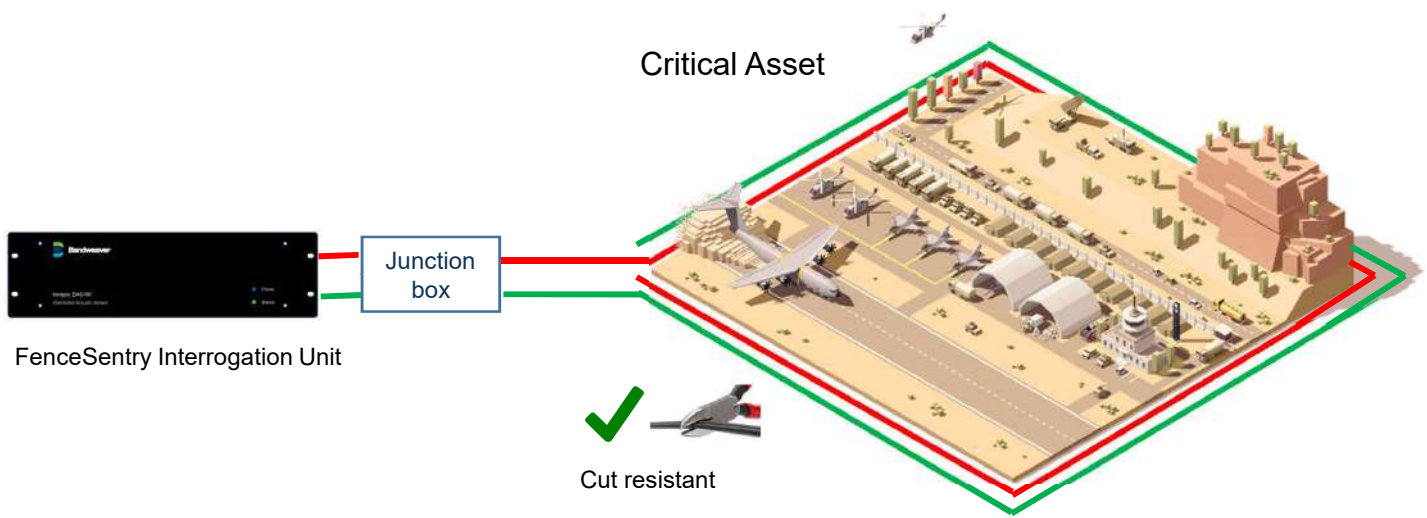
Certifications, Standards and Approvals

Kifta undertakes testing according to multiple international and industry specific standards. Below is a sample of some of the approvals undertaken within this industry segment.

CE 2014/30/EU	Electromagnetic Compatibility Directive
2014/35/EU	Low Voltage Directive
IEC 60185-1 2007	Class 1M Laser Safety Directive
EN 61010-1 : 2010	Safety requirements for electrical equipment for measurement, control and laboratory use
FCC Part 15B EMC	American national standard for methods of measurement if radio noise emissions from Low-Voltage Electrical and Electronic Equipment
FDA 21 CFR 1002.11, 1002.13, 1010-105, 807, 812, 814	FDA radiation emitting products and procedures

Please ask your local Kifta representative for the approvals of your specific system requirement