Multi-channel zone based intrusion detection

Applications

- Industrial complexes
- Nuclear installations
- Government facilities
- VIP residences
- Oil refineries
- Petrochemical plants
- Correctional facilities
- Power plants
- Military bases
- Airports
- Utilities

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FFT Secure Zone

With an FFT Secure Zone™ system, you can detect intrusions on perimeter fences without the cost or need for power or electronics to be installed in the field.

The low cost fiber optic sensor cable is easily attached to the fence to detect an intrusion, and provides zone redundancy in case of cable cuts.

Unlike other systems, FFT Secure Zone works by alarming on actual signal signatures and not just thresholds. It reduces nuisance alarms, while maintaining high sensitivity to intrusions.

FFT world leaders in fiber optic intrusion detection

FUTURE FIBRE TECHNOLOGIES

FFT Secure Zone is one of FFT's fiber optic zone based intrusion detection systems. It can be simply fitted to a fence to detect cutting and climbing. Multiple systems can be networked to monitor larger sites, or sites requiring more or shorter zones.

The simple installation, reliability and maintenance free operation delivers the lowest Total Cost of Ownership (TCO) of any zoned intrusion detection solution in the market.

Key Benefits

- Protects 8 hardware zones (option for 16 with Secure Zone-M) with a maximum of 40 km (24.9 miles) per channel for single-mode fiber (Secure Zone-S).
- Know which zone an intrusion occurs in, and where to dispatch security staff to manage intrusion incidents and activate specific CCTV imagery.
- Can be configured so that if the cable is cut in one zone, the remaining zones continue to operate normally. FFT Secure Zone delivers very economical zone redundancy.
- Lowest ongoing Total Cost of Ownership (TCO) as there are no electronics in the field, no power in the field, and it is easy and economical to install or expand. There is no field maintenance, and the fiber optic cable is unaffected by RFI, EMI, lightning or storms. Only extremely durable and reliable fiber optic cable is out in the field.
- Security staff can have faith in the system as Secure Zone delivers high detection rates with minimal nuisance alarms. Alarming is based on actual alarm signal signatures and not just thresholds, with intelligent event discrimination and analysis utilized as an additional safeguard.

FFT Secure Zone is a highly sensitive, zone-based fiber optic intrusion detection system

About FFT

With more than 1,000 intrusion detection systems located around the world, including some of the most hostile environments on the planet, FFT has the proven real-world experience to deliver highly reliable yet cost effective intrusion detection and location solutions.

Future Fibre Technologies' business is totally focused on the security industry.

FFT is the world leader in fiber optic intrusion detection systems and development of fiber optic sensing technologies for perimeter intrusion detection, network protection, and buried pipeline monitoring for third party interference.

Secure Zone Model Options

	Secure Zone-S	Secure Zone-M
Fiber Type	Single-mode	Multi-mode
Number of channels (zones)	8	8 or 16
Max sensor fiber length per channel	40 km (24.9 miles)	500 m (1640 ft)

FFT Secure Zone

How It Works

Simple to install and operate, with flexible configuration options, FFT Secure Zone delivers truly outstanding levels of intrusion detection combined with low Nuisance Alarm Rates. It is maintenance free; operating easily and reliably under a wide range of operational and environmental conditions—day after day, year after year.

At the heart of the system is the intelligence built into the Sensing Controller. A laser beam is transmitted along the fiber optic sensor cable, and the returned signal is automatically monitored and analyzed for disturbances.

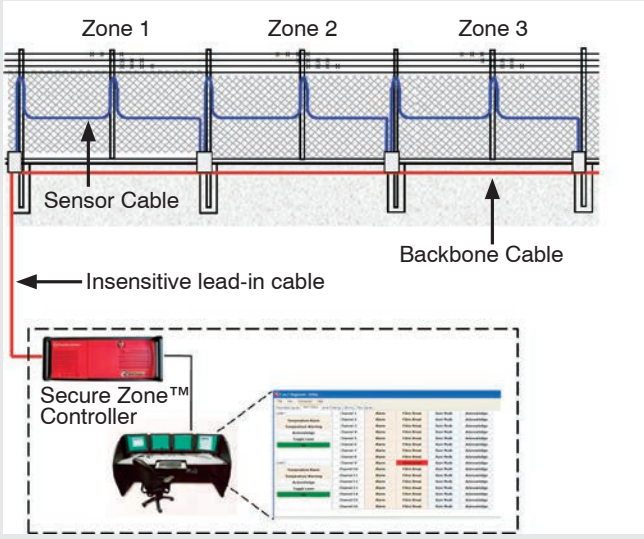
This returned signal is also digitally processed to identify and minimize environmental nuisance alarms.

Simple and intuitive to use, FFT Secure Zone delivers the precise, simple information your security staff need. When an alarm is triggered, it activates a dry contact for that specific zone.

With the optional FFT CAMS™ software, it can also interface and activate CCTV systems, lighting, gates, email, plus a broad range of external devices and systems. The area or zones where alarms are triggered along with the GPS co-ordinates are instantly displayed onto a sitemap, and the event is logged to a secure database.

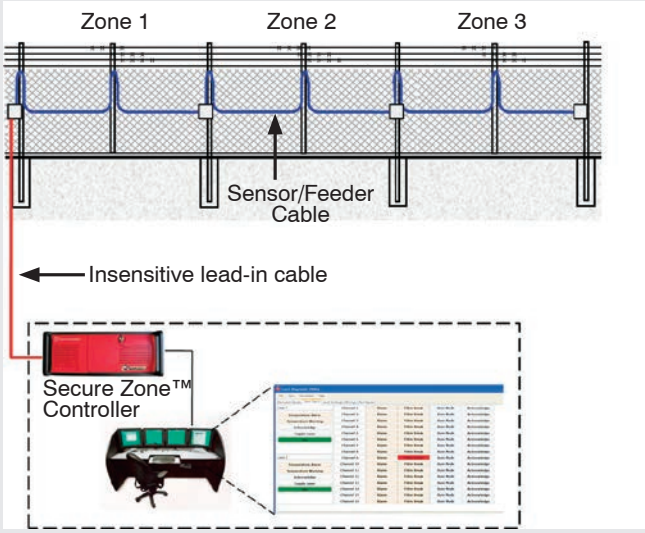
Alarm data can also be sent directly to a high level command and control system.

Secure Zone has flexible configuration options to meet specific site needs



Equipment located in a secure control room

Resilient Backbone Cable



Equipment located in a secure control room

Integrated Backbone and Sensor Cable

FFT Secure Zone

- Protects 8 independent zones per controller (option for 16 with Secure Zone-M)
- Maximum length of 40 km (24.9 miles) per channel for single-mode fiber (Secure Zone-S)
- Low total cost of ownership
- Two year warranty
- No electronics or power in the field
- Immune to EMI/RFI
- Intrinsically safe

Certified System
Quality
ISO 9001
SAI GLOBAL

FFT Secure Zone Specifications

Fiber Optic Sensor	Custom UV stabilized fiber optic sensor cable—expected life >20 years
Zone Length & Number	Distributed sensor with 8 completely independent zones per controller (option for 16 with Secure Zone-M). Maximum length of 40 km (24.9 miles) per channel for single-mode fiber (Secure Zone-S)
Probability of Detection (POD)	Extremely high due to intelligent signal processing and analysis of disturbances
Nuisance Alarm Rate (NAR)	Minimal due to multi-parameter intelligent signal analysis, discarding non-intrusion and environmental events
Fence Types	Chain link, chain mesh, weld mesh and anti-climb fences (both coated and uncoated) are supported
Operating Temperature Range	FFT Sensor Cables: -30°C to +70°C (-22°F to +160°F)
Controller Dimensions/Weight	177mmH x 482mmW x 497mmD (7.0"H x 19.0"W x 19.5"D), 19" rack mounted, 4U high Weight 19kg (42lbs) for Secure Zone-M, 24kg (52lbs 15oz) for Secure Zone-S
Electrical Specifications	Input voltage 110–240V AC, 50-60Hz, auto ranging. Optional redundant or 48V DC supplies available. Power consumption is 150 W for Secure Zone-S, 120 W for Secure Zone-M8, and 160 W for Secure Zone M-16 Note: All field installed components are passive and require no power, communications, or electronics on the fence line
System Interface	• Standard Form C dry contacts • Optional TTL Interface • Optional TCP/IP via FFT CAMS™ (Central Alarm Monitoring System) software • Optional software development kit available to interface to a range of security management systems and devices
Alarm Monitoring	• Real-time monitoring and alarming by signature recognition • Patented ARaD advanced signal processing minimizes environmental nuisance alarms • The system gives virtually no false alarms
Warranty	Comprehensive two year warranty on hardware and software with ongoing warranty extension program available for the life of the product
Seasonal Calibration	No seasonal calibration or adjustments required

CONTACT FFT

EMAIL | **info@fftsecurity.com** WEB | **www.fftsecurity.com**

AUSTRALIA	Future Fibre Technologies Limited	10 Hartnett Close, Mulgrave, Victoria 3170 Australia Phone: +61 3 9590 3100	Fax: +61 3 9560 8000
EUROPE	Future Fibre Technologies Limited	3000 Hillswood Drive, Hillswood Business Park, Chertsey, Surrey KT16 0RS United Kingdom Phone: +44 1932 895 317	Fax: +44 1932 895 318
MIDDLE EAST	Future Fibre Technologies MENA FZ-LLC	PO Box 502864, Building 11 Office G08, Dubai Internet City, United Arab Emirates Phone: +971 4 4345361	Fax: +971 4 4393406
AMERICAS	Future Fibre Technologies (US) Inc.	800 West El Camino Real, Suite 180, Mountain View CA 94040 USA Toll Free: +1 877 650 8900 Outside USA: +1 650 903 2222	Fax: +1 435 417 6671
INDIA	FFT India Pvt Ltd	M-12 /23, DLF City Phase 2, Gurgaon, Haryana 122 002 India Phone: +91 124 4087020	Fax: +91 124 4087019
SOUTH AFRICA	Future Fibre Technologies	No 2 Sandton Drive, Sandton, Johannesburg 2196, South Africa Phone: +27 11 282 0750	
SINGAPORE	Future Fibre Technologies	61 Tras Street, #02-01, Singapore 079000 Phone: +65 6220 7970	Fax: +65 6220 7656

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Note: Specifications are subject to change without notice. For further technical information, please refer to your local FFT sales office.