# High performance intrusion detection

## Applications

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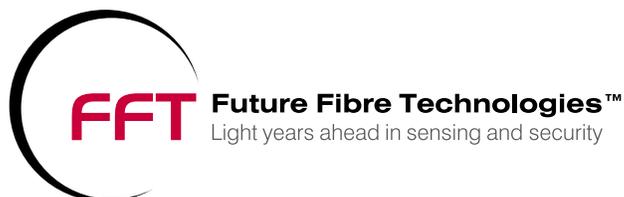- **Utilities**

## 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.

**Only from FFT – The ultimate force in fiber optic intrusion detection**

## FFT **Future Fibre Technologies™**
Light years ahead in sensing and security

## www.fftsecurity.com

FFT Secure Zone™ is the latest extension of FFT's fiber optic zoned intrusion detection system. 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.
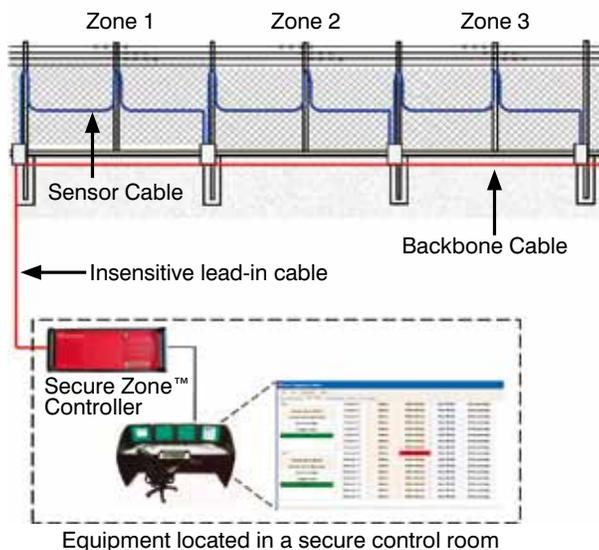
The simple installation, reliability and maintenance free operation delivers the lowest Total Cost of Ownership (TCO) of any zoned intrusion detection solution in the market.
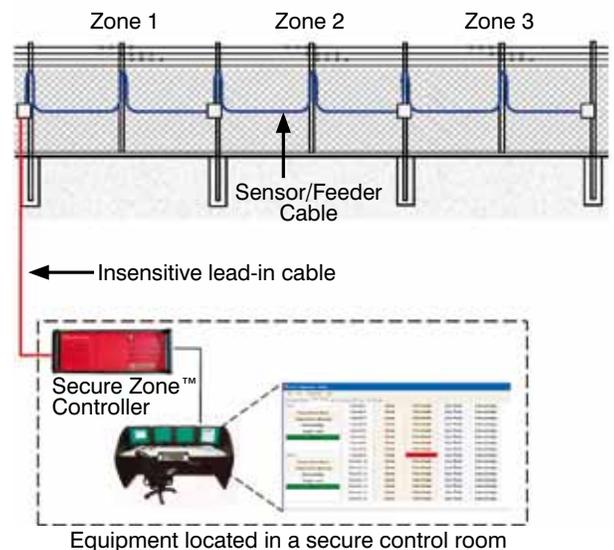
## Key Benefits

» Protects 8 or 16 hardware zones (up to 200 meters or 600 feet per zone) with a single controller.

» 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 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.

## How It Works

Secure Zone™ has flexible configuration options to meet specific site needs.



Zone 1    Zone 2    Zone 3

Sensor Cable

Backbone Cable

Insensitive lead-in cable

Secure Zone™ Controller

Equipment located in a secure control room

**Resilient Backbone Cable**



Zone 1    Zone 2    Zone 3

Sensor/Feeder Cable

Insensitive lead-in cable

Secure Zone™ Controller

Equipment located in a secure control room

**Integrated Backbone and Sensor Cable**

## 10 Key Reasons Why You Can Depend On FFT

**Experience** – Thousands of kilometers installed at hundreds of major sites around the world

**Independently Tested** – FFT consistently delivers quality intrusion detection solutions, backed by independent testing

**Stability** – The world's most experienced fiber optic security sensing company, operating since 1994

**Value Proposition** – Secure Zone delivers outstanding price and performance benefits

**Technology** – FFT's R&D and product development programs ensure you always have the very latest and most powerful technology, and systems are easily updated with the latest algorithms and signatures

**Quality** – Certified ISO 9001:2008

**The Right Products** – Designed and developed by FFT specifically for military and industrial applications

**Reliability** – All FFT systems come with a two year hardware and software warranty

**Support** – FFT has global support capability through our international offices

**Availability** – FFT has partners located around the world

## FFT Secure Zone™ is the ultimate fiber optic zoned detection system

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.

### About FFT

With hundreds of major installations in 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 solutions.

Future Fibre Technologies' business is totally focused on the security industry. FFT is the world leader in the design and development of fiber optic sensing technologies for security applications and the global technology of choice for perimeter intrusion detection, network protection, and buried pipeline monitoring for TPI.

# FFT Secure Zone™

## Features

- **Protects 8 or 16 independent zones per controller**
- **Each zone can be up to 200 meters (600 feet) long**
- **Low total cost of ownership**
- **Two year warranty**
- **No electronics or power in the field**
- **Immune to EMI/RFI**
- **Intrinsically safe**

## FFT Secure Zone™ Specifications

| | |
|---|---|
| **Fiber Optic Sensor** | Custom UV stabilized single mode fiber optic sensor cable—expected life >20 years |
| **Zone Length & Number** | Distributed sensor with 8 or 16 completely independent zones per controller. Each zone can be up to 200 meters (600 feet) long, and the insensitive lead-in cable can be up to 6 kilometers or 3.7 miles long per zone |
| **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)<br>Weight 19kg (42lbs), 19" rack mounted, 4U high |
| **Electrical Specifications** | Input voltage 110–240V AC, 50-60Hz, auto ranging, 120 watts consumption. Optional redundant or 48V DC supplies available<br>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<br>• Optional TTL Interface<br>• Optional TCP/IP via FFT CAMS™ (Central Alarm Monitoring System) software<br>• 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<br>• Patented ARaD advanced signal processing minimizes environmental nuisance alarms<br>• 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 |

Certified System ™

Quality
ISO 9001
SAI GLOBAL

## ▶ Contact FFT