Simple security without compromise

Applications

- Electricity, gas & water substations
- Warehouses & storage yards
- Manufacturing facilities
- Universities & sensitive data sites
- Telecommunications facilities & towers
- Military & intelligence agency facilities

FFT Secure **Point**

FFT Secure Point™ is a high performance fiber optic dual zone intrusion detection system for perimeter security and network physical security.

For perimeter security, Secure Point detects climbing, cutting, lifting and digging under gates and fences using fiber optic sensor cables. For network physical security, Secure Point detects data tapping, cable movement and physical tampering using spare optical fibers inside protected cables.

Simple to install, Secure Point provides affordable fiber optic intrusion detection without compromise for small sites and shorter distances. Advanced signal processing and event discrimination offer highly sensitive intrusion detection with minimal nuisance alarms.

FFT world leaders in fiber optic intrusion detection

www.fftsecurity.com

FUTURE FIBRE
TECHNOLOGIES

FFT Secure Point is the ultimate dual zone (two channel) fiber optic perimeter intrusion detection system for shorter distance applications.

Easy to install, FFT Secure Point fiber optic sensor cables are attached to protected fences and gates using cable (zip) ties and joined using plug-in fiber optic connections (no fusion splicing required).

FFT Secure Point operates effectively on all common fence types, without the need to house sensing cables in conduit. Simple installation, reliability and maintenance free operation delivers the lowest possible Total Cost of Ownership.

Key Benefits

» Delivers a cost effective and flexible solution for smaller perimeters and data network cables, with industry leading intrusion detection performance. The sensor cable connected to each channel can be up to 1.6km (1 mile) in length.

» Provides rugged, highly reliable intrusion detection that is immune to radio frequency and electromagnetic interference (RFI/EMI) and operates in arduous environments at temperatures of up to 70°C (158°F).

» Offers powerful and flexible installation options. Secure Point controllers can be wall mounted, rack mounted or outdoor fence mounted in NEMA 4 enclosures. Each sensor cable can be separated from the controller by up to 10km (6 miles) of insensitive fiber optic lead-in cable, avoiding false alarms due to cable disturbance outside intrusion detection zones.

» Designed for easy out-of-the-box installation with simple-to-use configuration software including standard menu selections for a wide range of fence mounted, buried and data network cable applications.

» Conveniently interfaces (via TCP/IP and FFT CAMS™) to more than 40 security, video and access control management systems and to a wide range of devices including security cameras, lighting, access controls, programmable logical controllers, SNMP, email and text messaging.

FFT Secure Point is the ultimate dual zone 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.

FFT Secure Point – Wall Mount Model

FFT Secure Point – Rack Mount Model

How It Works

FFT Secure Point combines single mode optical fiber sensing with advanced optics and software to provide industry leading zone based intrusion detection.

The core technology is laser based optical fiber phase interferometry. For each channel of detection, the FFT Secure Point controller transmits and receives laser light down two optical fiber arms. Signals are digitally processed and analysed to detect disturbances due to intrusions and to filter out any nuisance (or false) alarms.

Each intrusion detection zone is created by connecting sensing fibers between a start and an end element. Start elements can be mounted in the controller or separated from the controller by insensitive lead-in cables. Multiple controllers can be deployed to protect those sites or applications requiring more than two zones.

Sensor cable is simply mounted on a fence or gate using cable (zip) ties to detect climbing, cutting or lifting, or buried along a fence line to detect digging.

Connecting two spare (dark) fibers in a data network cable to FFT Secure Point provides highly effective detection of physical cable tampering and data tapping for the section located between start and end elements.

Nuisance alarms that FFT Secure Point filters out include environmental effects such as wind, rain, hail, sandstorms, vegetation motion, and adjacent vehicular traffic. When an intrusion is detected, FFT Secure Point activates output relays and sends intrusion alarm information to FFT CAMS software (when connected).
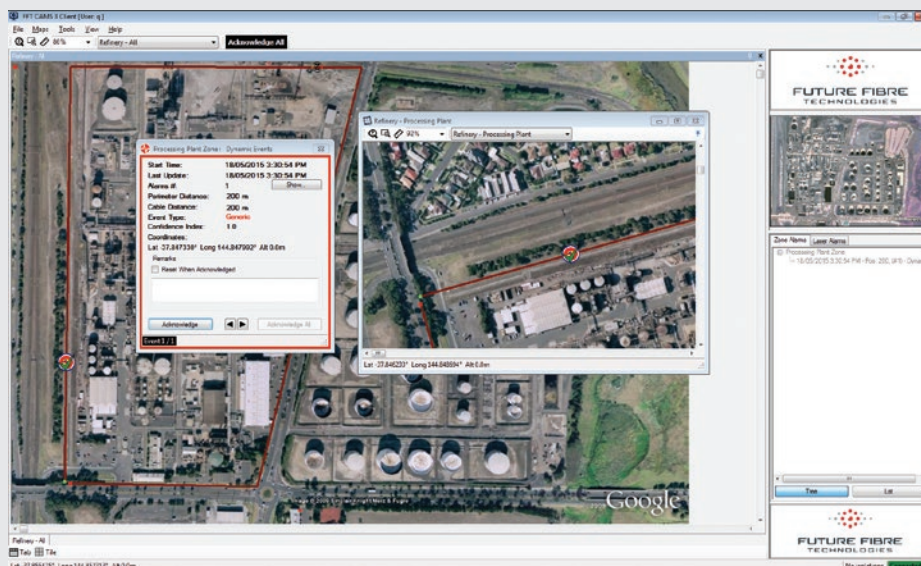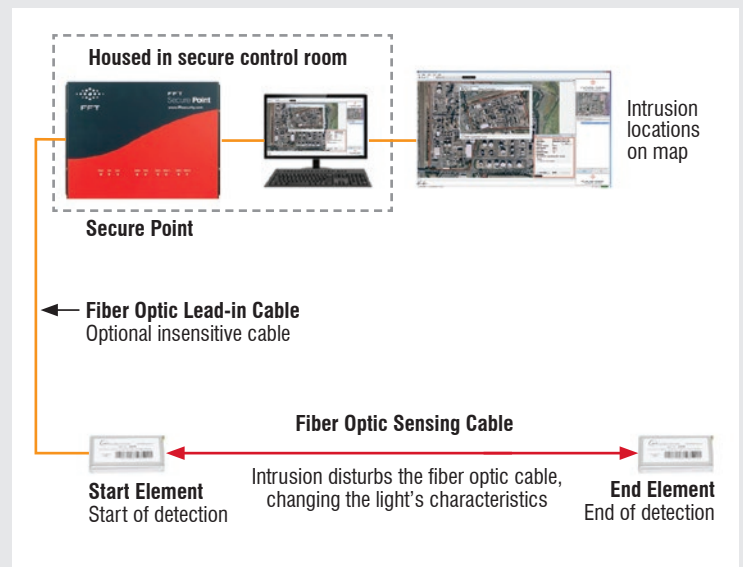
FFT CAMS displays the location of a suspected intrusion on custom maps together with Geographic Information Systems (GIS) coordinates and alarm details. Security staff are automatically notified of the intrusion for verification.

FFT CAMS also records detected disturbance and other suspected intrusion information to a secure database.

FFT Secure Point

- **Detects fence climbing, cutting and lifting, digging under fences, and data network physical tampering and data tapping**
- **Simple installation using pre connectorised cables and set-up software**
- **Two detection zones (channels)**
- **Up to 1 mile / 1.6km of sensor cable per zone**
- **Up to 6 miles / 10km of insensitive lead-in cable from controller to sensor cable**
- **High sensitivity and probability of detection with low false/nuisance alarm rate**
- **Effective across a wide temperature range**
- **Immune to RFI/EMI and intrinsically safe**

Certified System ™
Quality
ISO 9001
SAI GLOBAL

FFT Secure Point Specifications

Fiber Optic Sensor	Custom UV stabilized single mode fiber optic sensor cable – expected life >20 years. Two and four core cables available with connectors pre-fitted in a range of lengths.
Number of Zones	Two zones (channels) per controller.
Maximum Zone Length	1.6km (1 mile) of sensing cable per zone.
Lead-in Cable	Up to 10km (6 miles) of insensitive lead-in cable (in addition to sensor cable length).
Nuisance Alarm Avoidance	Dynamic adjustment and filtering for rain, wind, hail, sandstorms, traffic noise and building vibrations. No requirement for seasonal calibration.
Fence Types	Detects intrusions for most fence types including chain-link, weldmesh, expanded metal, palisade and Ameristar.
Digging Detection	Detects digging that results in physical movement of the sensor cable.
Data Network Protection	Provides early warning of duct, conduit and cable tampering, cutting, penetration and tapping using two spare single mode optical fibers inside the protected or sensing cable.
Operating Temperature Range	FFT Sensor Cable: -40°C to +70°C (-40°F to +158°F) standard (special -55°C also available) Controller: -30°C to +70°C (-22°F to +158°F)
Alarms	Intrusion, fiber break, system fault, over-temperature and tamper.
System Interface	Interface (via TCP/IP and FFT CAMS) to more than 40 security, video and access control management systems and to a wide range of devices including security cameras, lighting, access controls, programmable logical controllers, SNMP, email and text messaging. Custom integrations are supported with free SNMP and software development (SDK) kits.
Connections	Six Form C contact outputs and one RJ45 Ethernet (TCP/IP 10/100Mps) port.
Controller Dimensions/Weight	Rack Mount: 1 U high, 43mm H x 482mm W x 215mm D x (1.7" H x 19" W x 8.5" D), 3kg (6.6lbs) Wall Mount: 210mm H x 294mm W x 73mm D (8.3" H x 10.6" W x 2.9" D), 2kg (4.4lbs)
Power Consumption	Less than 3W.
Input Voltage	8 to 30 VDC.
Warranty	Comprehensive two year warranty with ongoing warranty extension program available for the life of the product.
Regulatory Compliance	CE Class B certified, FCC Part 15 subpart B Class B.

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