FFT Secure Point

SIMPLE SECURITY WITHOUT COMPROMISE

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

For perimeter security, FFT Secure Point detects climbing, cutting, lifting and digging under gates and fences using fibre optic sensor cables mounted using cable (zip) ties. For network physical security, FFT Secure Point detects data tapping, cable movement and physical tampering using spare optical fibres inside protected cables.

Simple to install, FFT Secure Point provides affordable fibre 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.
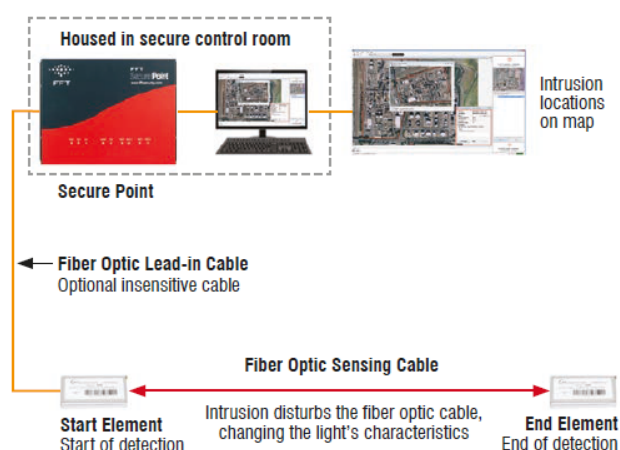
HOW IT WORKS

For each channel of detection, the FFT Secure Point controller transmits and receives laser light down two optical fibre arms. The core technology is laser based optical fibre phase interferometry.

Each intrusion detection zone is created by connecting sensing fibres 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.

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).

KEY BENEFITS

- Delivers a cost effective and flexible solution for smaller perimeters and data network cables. The sensor cable connected to each channel can be up to 1.6km (1 mile) in length.

- FFT 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 fibre 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.

Housed in secure control room

Secure Point

Intrusion locations on map

◄— Fiber Optic Lead-in Cable
Optional insensitive cable

Fiber Optic Sensing Cable

Start Element
Start of detection

Intrusion disturbs the fiber optic cable, changing the light's characteristics

End Element
End of detection

KEY BENEFITS AND FEATURES

- Detects fence climbing, cutting and lifting, digging under fences, data network physical tampering and data tapping
- Simple installation using pre connectorised cables and set-up software
- Two detection zones (channels)
- Up to 1.6km (1 mile) of sensor cable per zone
- Up to 10km (6 miles) 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

SPECIFICATIONS

Fibre Optic Sensor	Custom UV stabilized single mode fibre 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 fibres 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, fibre 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.

FUTURE FIBRE TECHNOLOGIES
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