FFT Secure Link

NETWORK SECURITY MONITORING

FFT Secure Link detects and locates unauthorised interference and illegal tapping of your sensitive or secure fibre optic networks, in real-time, before data loss or damage can occur.

Your existing fibre optic communications cables can self-monitor for intrusion and third party interference by connecting spare (dark) fibres inside each network cable to FFT Secure Link.

Network cable disturbances, including removal of protective layers, attempted tapping or cable movement, will be detected by FFT Secure Link and generate alarms.

Disturbance location can be pinpointed to within 25 metres (80 feet) regardless of the size of the cable network.

FFT's industry leading advanced signal processing minimises nuisance alarms, without compromising the sensitivity of the system to unauthorised interference.
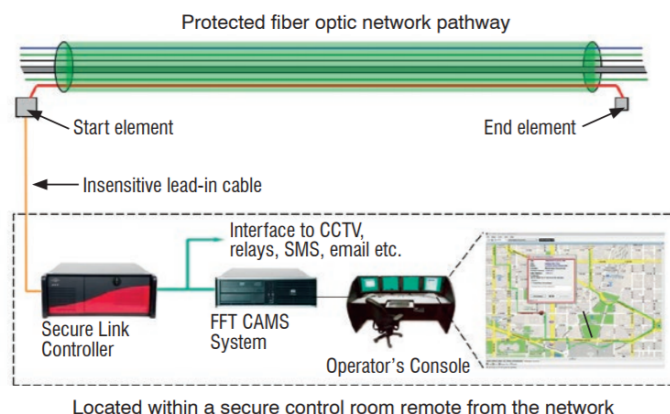
HOW IT WORKS

FFT Secure Link works by transmitting a laser beam along the sensing fibres and analysing return signals to detect and locate interference or intrusion disturbances. The region of active detection is defined by start and end elements connected to the sensing fibres.

False alarms due to disturbances along the lead-in cable between the FFT Secure Link controller and the start element are avoided by making this section of cable insensitive to vibration.

At the heart of the system is the intelligence built into the FFT Secure Link controller. In parallel with detection, advanced signal processing techniques are used to identify and eliminate environmental nuisance alarms such as building noise, vehicle traffic and weather effects.

KEY BENEFITS

- No impact on data throughput—unlike encryption.

- Does not process or 'see' the data being transmitted, and cannot be used as a 'trojan' to redirect confidential data.

- 24/7 monitoring of illegal data tapping, unauthorised access, or physical tampering enables security personnel to quickly respond so that data loss or network downtime is minimised.

- A cost-effective solution as only one controller is required for point to point up to 40km (25 miles) long. For ring networks, up to 80km (50 miles) can be protected. Subject to approval, FFT Secure Link can be used on your existing network infrastructure and cable.

- FFT Secure Link is easy to install and cost effective to maintain.

- FFT Secure Link delivers the highest levels of detection as well as an extremely low Nuisance Alarm Rate due to the intelligent event discrimination and analysis utilised.

Protected fiber optic network pathway
Start element
End element
Insensitive lead-in cable
Interface to CCTV, relays, SMS, email etc.
Secure Link Controller
FFT CAMS System
Operator's Console
Located within a secure control room remote from the network

KEY FEATURES

- Provides valuable real-time early warning of unauthorised access
- A single system protects up to 40km or 25 miles of network pathway
- Locate interference and intrusions to within 25 metres (80 feet) or better
- No impact on data throughput
- Two year warranty

SPECIFICATIONS

Point to Point Configuration	Each FFT Secure Link controller connects to three dark single mode fibres in the sensing cable, protecting up to 40km (25 miles). Multiple FFT Secure Link controllers can protect longer network pathways.
Loop Configuration	Each FFT Secure Link controller connects to two dark single mode fibres in the sensing cable, protecting network pathways for up to 80km (50 miles).
Location Accuracy	To within 25 metres (80 feet) anywhere along the data network.
Zone Length and Number	Variable user-configured 'Virtual Zones' are created in FFT CAMS to suit specific site requirements.
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.
Operating Temperature Range	FFT Protected Cables: -55°C to +70°C (-67°F to +160°F) Controller (head end): 0°C to +45°C (32°F to +113°F)
Controller Dimensions/Weight	177mm H x 482mm W x 497mm D (7.0"H x 19.0"W x 19.6"D) 19" rack mounted, 4U high, weight 24kg (53lbs)
Electrical Specifications	Input voltage 110-240V AC, 50-60Hz, auto ranging, 148W consumption, internal redundant power supplies. Optional 48V DC available.
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, PLCs, SNMP, email and text messaging. Optional dry contacts.
Alarm Monitoring	FFT CAMS provides the option of real-time monitoring of alarm types and locations using an intuitive map-based user interface. Intrusion events with GIS co-ordinates are instantly displayed onto a sitemap and automatically logged into a secure database.
Warranty	Comprehensive two year warranty with ongoing warranty extension program available for the life of the product.
Seasonal Calibration	No seasonal calibration or adjustments required.
Regulatory Certification	CE certified, FCC Part 15 subpart B Class B.

FUTURE FIBRE TECHNOLOGIES
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