Real-time location of network intrusions

Applications

- Sensitive government data networks
- Intelligence organisations
- Diplomatic missions
- Banks
- Military bases
- Telco carriers

FFT Secure Link

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

Your existing fiber optic communications cables can self-monitor for intrusion and third party interference by connecting spare (dark) fibers 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 meters (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.

FFT world leaders in fiber optic intrusion detection

www.fftsecurity.com

FUTURE FIBRE TECHNOLOGIES

FFT Secure Link is an advanced network physical security monitoring system for detecting intrusion attempts, tampering and illegal data tapping.

FFT Secure Link provides early warning of data cable intrusion and interference with a broad range of cable pathways including cable bundles, ducts, metal conduits and Protective Distribution Systems.

Interference and intrusions are located to within better than 25 meters (80 feet) along data networks from just a few kilometres to thousands of kilometers in length.

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 simultaneously with an extremely low Nuisance Alarm Rate due to the intelligent event discrimination and analysis utilised.

FFT Secure Link is the ultimate fiber optic network intrusion detection and location system

About FFT

Future Fibre Technologies (FFT) is the world leader in fiber optic security systems, using our advanced technology solutions to detect intrusion and interference at perimeters, on oil and gas pipelines, and on sensitive data communications networks.

With more than 1000 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 detection systems that are, quite simply, the world's most reliable and effective solutions for securing high value assets and critical infrastructure.

Our business is totally focused on the security industry.

Our team is absolutely committed to:

- Improving the value we deliver to you with consistently high quality products.
- Helping you to be successful, being easy to do business with.
- Being dependable, diligent and responsive to your needs.
- Conducting business ethically with high integrity.

FFT Secure **Link**

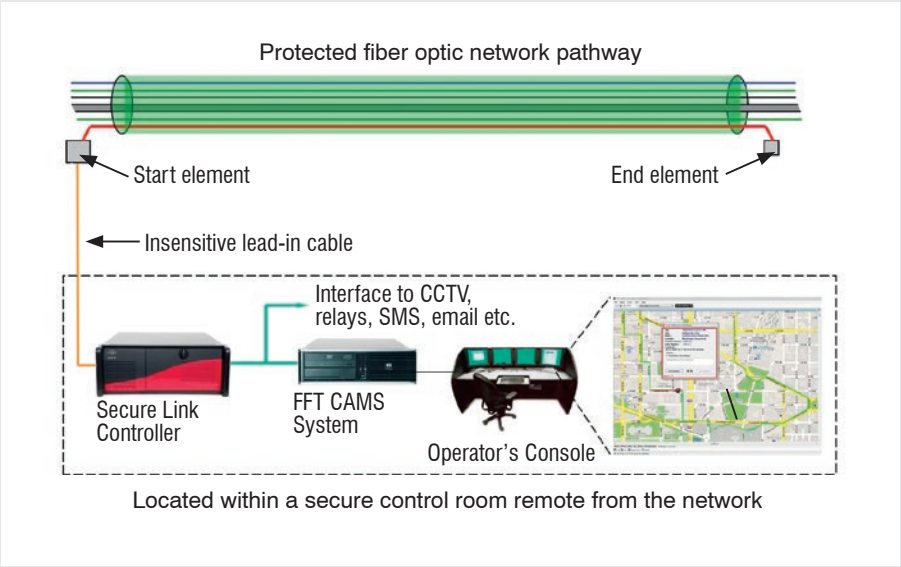
How It Works

Secure Link uses optical fibers as sensors to detect cable movement and vibrations caused by physical intrusions such as drilling, cutting or grinding.

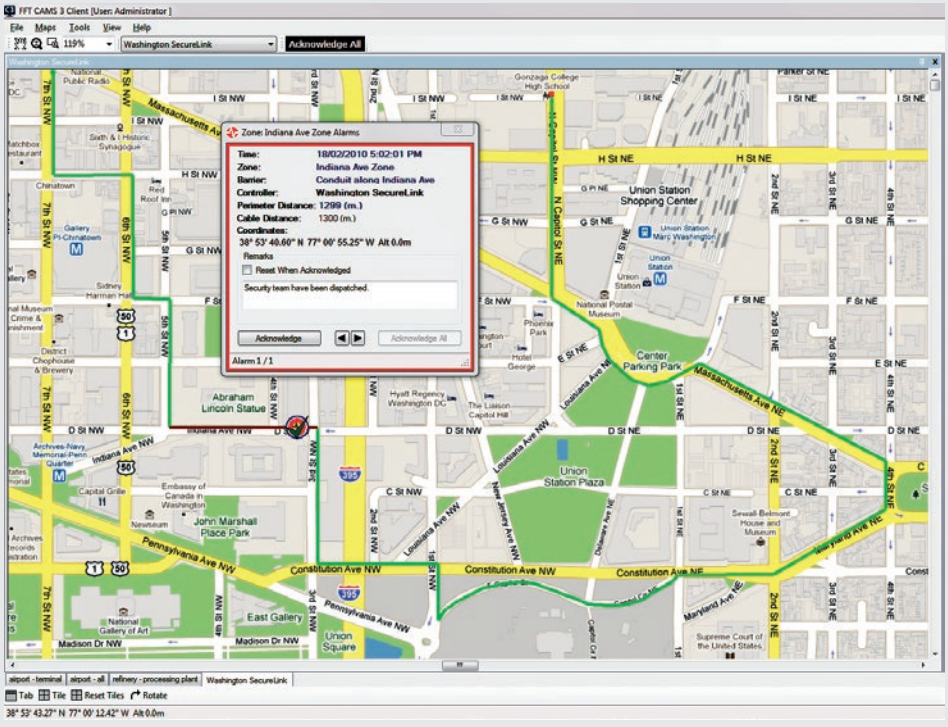
Sensing optical fibers may be spare (dark) fibers inside a protected cable or inside a fiber optic cable in a protected duct, conduit or other cable pathway.

Secure Link works by transmitting a laser beam along the sensing fibers 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 fibers. False alarms due to disturbances along the lead-in cable between the 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.



Connecting FFT Secure Link to FFT CAMS™ enables the location of interference and intrusion alarms to be displayed on an intuitive map based user interface and logged into a secure database.

FFT CAMS is available in a range of languages and can be used to interface FFT Secure Link to security cameras, lights, audible alarms, mobile devices, emails, text messages, and to more than 40 different security, video and access control management systems, and other security devices.

FFT Secure **Link**

- **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 meters (80 feet) or better**
- **No impact on data throughput**
- **Two year warranty**

Certified System
Quality
ISO 9001
SAI GLOBAL

FFT Secure Link Specifications

Point to Point Configuration	Each FFT Secure Link controller connects to three dark single mode fibers 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 fibers in the sensing cable, protecting network pathways for up to 80km (50 miles).
Location Accuracy	To within 25 meters (80 feet) anywhere along the data network.
Zone Length & 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. Note: All field installed components are passive and require no power, communications, or electronics on the network.
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.

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