Real time location of network intrusion is now a reality...

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

Secure Link™ can use the existing fibre optic communications cable as the sensor, dramatically reducing the installation cost and time, yet still detect and locate an intrusion to within 25 metres regardless of the size of the network.

FFT’s advanced signal processing prevents nuisance alarms, whilst maintaining maximum sensitivity to unauthorised network intrusions.

Only from FFT - The Leader in Fibre Optic Intrusion Detection & Location Systems

Applications:
- Sensitive Government data networks
- Intelligence Organisations
- Diplomatic missions
- Banks
- Military bases

Features:
- Real-time early warning of unauthorised tapping activities & TPI
- A single system protects up to 40km
- Locate interference to 25 metres
- Detects activities before the network is damaged
- No electronics or power in the field
**FFT Secure Link™** is the most advanced fibre optic network security monitoring system available, detecting intrusion attempts or illegal tapping activities to within 25 metres along data networks up to 40km long. Multiple controllers are networked to monitor local and long haul networks.

### Features

<table>
<thead>
<tr>
<th>Features</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Handles long distances— up to 40km with a single system. Multiple controllers protect long haul networks (thousands of kms)</td>
<td>Entire network is monitored in real time 24 hours per day, 7 days per week to detect threats from illegal data tapping, or physical damage from excavators etc.</td>
</tr>
<tr>
<td>Location of a tapping event to 25 metres. Location of excavation activity to 100 metres</td>
<td>Know exactly where the network intrusion attempt occurs and where to dispatch your security staff or maintenance teams to minimise risk of data loss and downtime.</td>
</tr>
<tr>
<td>System intelligence</td>
<td>Security staff can have faith in the system – Secure Link™ delivers &gt;95% detection with extremely low Nuisance Alarm Rates by intelligently analysing event information.</td>
</tr>
<tr>
<td>Uses existing network infrastructure</td>
<td>No need to lay new cable, no field maintenance, and no power or electronics in the field.</td>
</tr>
</tbody>
</table>

### How It Works

Simple to install and operate, the FFT Secure Link™ system delivers truly outstanding levels of detection and location combined with one of the lowest Nuisance Alarm Rates available. 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 fibre optic cable, and the returned signal is automatically monitored and analysed for disturbances. This returned signal is intelligently processed to minimise false alarms, while still detecting and reacting to the smallest hostile event.

Simple and intuitive to use, Secure Link™ delivers all of the information your security staff need, combined with the ability to interface and activate CCTV systems, lighting, MODBUS, email, or a myriad of other external devices and systems.

The area or zone, where alarms are triggered, is instantly displayed onto a сitemap using bright icons, and events are automatically logged into a secure database. A signal can then be sent via Ethernet directly to the Security Monitoring System (SMS), CCTV camera system, email system, or other external monitoring.
For networks longer than 40km, multiple controllers are networked over TCP/IP to provide a single seamless operator interface for the entire network.

The operator interface can be located remotely from the network – even in another city or another country!

**Delivering Outstanding Price & Performance Benefits**

Secure Link’s simple installation onto an existing network, reliability, and maintenance free operation, combined with a single system that monitors up to 40km, delivers the lowest Total Cost of Ownership by far of any network intrusion detection solution in the market. FFT’s Secure Link™ is the only system available that will reliably detect and locate potential threats to networks in real time, before the data is compromised or the cable is damaged.

**About FFT**

Future Fibre Technologies manufactures and markets a range of high-end fibre optic security products that are, quite simply, the world’s most effective solution for securing high value assets and critical infrastructure.

Future Fibre Technologies’ business is totally focused on the security industry, and FFT is a world leader in the design and development of fibre optic sensing technologies for security applications. FFT holds many international fibre optic patents for these unique technologies that have been developed over many years. Since 1994, FFT has successfully positioned itself to be the technology of choice for large perimeter applications, pipeline monitoring and communications/data network security.

With well over 100 intrusion detection systems installed in some of the most hostile environments on the planet, FFT has the experience to deliver highly reliable and cost-effective intrusion detection and location solutions to your security needs.

**10 Key Reasons Why You Can Depend On FFT**

**Stability** – FFT has been in business since 1994

**Quality** – Certified ISO9001:2000

**Experience** – Well over 100 installations around the world

**The Right Products** – Designed and developed by FFT specifically for Military and Industrial applications

**Independent Accreditation** - FFT systems consistently deliver what we promise & independent testing backs this up

**No Risk** – All FFT systems have a money back guarantee

**Support** – FFT’s global technical staff always available

**Value for Money** – Secure Link delivers outstanding price & performance benefits

**Availability** – FFT has 15 distribution partners located around the world

**Technology** – FFT’s technology is protected by 7 International Patents
**FFT Secure Link™ Specifications**

<table>
<thead>
<tr>
<th><strong>Fibre Optic Sensor</strong></th>
<th>Can use existing dark single mode fibres if suitable, or FFT’s custom direct burial single mode fibre optic sensor cable. Expected life &gt; 25 years.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sensing Configuration</strong></td>
<td>Distributed sensor with up to 40 km of network protected per controller. Multiple systems can be networked to protect larger networks.</td>
</tr>
<tr>
<td><strong>Location Accuracy</strong></td>
<td>Data Tapping: Within 25 metres anywhere along the network (or better) Excavation: Within 100 metres anywhere along the network (or better)</td>
</tr>
<tr>
<td><strong>Probability of Detection (POD)</strong></td>
<td>Independently tested to better than 95% due to intelligent signal processing and analysis of disturbances.</td>
</tr>
<tr>
<td><strong>Nuisance Alarm Rate (NAR)</strong></td>
<td>Less than 3% due to multi-parameter intelligent signal analysis, discarding non-intrusion and environmental events.</td>
</tr>
<tr>
<td><strong>Operating Temperature Range</strong></td>
<td>FFT Sensor Cables: -40°C to +70°C</td>
</tr>
<tr>
<td><strong>Controller Dimensions/Weight</strong></td>
<td>175mm H x 485mm W x 530mm D Weight 24 Kg. 19” rack mounted, 4U high.</td>
</tr>
<tr>
<td><strong>Electrical Specifications</strong></td>
<td>Input voltage 110-240VAC, 50-60Hz, switch selectable, max 300 watts. <strong>Note:</strong> All field-installed components are intrinsically safe and require no power, communications, or electronics in the field.</td>
</tr>
<tr>
<td><strong>System Interface</strong></td>
<td>• TCP/IP via FFT’s CAMS (Central Alarm Monitoring System) software • Optional dry contacts • Optional software development kit available to interface to a range of security management systems and devices.</td>
</tr>
<tr>
<td><strong>Alarm Monitoring</strong></td>
<td>Real-time distributed monitoring. Provides an intuitive map-based operator GUI, and interfaces to CCTV systems, MODBUS, email systems, external SMS systems, lighting, alarms etc. via TCP/IP.</td>
</tr>
<tr>
<td><strong>Warranty</strong></td>
<td>Comprehensive 2 year warranty on hardware and software with on-going warranty extension program available for the life of the product.</td>
</tr>
<tr>
<td><strong>Seasonal Calibration</strong></td>
<td>No seasonal calibration or adjustments required.</td>
</tr>
<tr>
<td><strong>Zone Length &amp; Number</strong></td>
<td>Infinitely variable. “Virtual Zones” are created in the CAMS software to suit specific site requirements.</td>
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**The Leader in Fibre Optic Intrusion Detection & Location Systems**

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