High performance perimeter protection

Applications

- Oil, gas, mining & processing plants
- Military & government facilities
- Power, telecoms & water utilities
- Airports, rail & road
- Correctional facilities
- Industrial & commercial

www.fftsecurity.com

FFT Secure Fence

With an FFT Secure Fence™ system, you can detect and locate intrusions on perimeters and borders that were, until now, always thought to be too expensive to protect.

The low cost fiber optic sensor cable is easily attached to the fence, pinpointing the location of fence climbing, lifting or cutting to within 10 meters (30 feet) to 25 meters (80 feet) or better for fences of up to 80km (50 miles) in length.

FFT's industry leading advanced signal processing minimises nuisance alarms, without compromising intrusion detection sensitivity.

FFT world leaders in fiber optic intrusion detection

FUTURE FIBRE TECHNOLOGIES

FFT Secure Fence is the ultimate fiber optic perimeter intrusion detection and location system, with proven reliability confirmed over 15 years of operation, including use in many of the world's harshest environments.

Fiber optic sensors can be mounted on the fence to detect climbing or cutting, or buried along the fence to detect digging.

The simple installation, reliability and maintenance free operation delivers the lowest Total Cost of Ownership (TCO) of any long perimeter solution in the market.

Key Benefits

- Know when to look at your camera displays, dispatch your security staff or point a specific security camera at a suspected intrusion.
- Confidently detect intrusion. Your security staff can have faith in the combination of high probability of detection and extremely low nuisance alarm rate delivered by FFT Secure Fence.
- Save significant up-front costs, as only one system is required to support up to 80km (50 miles) of fiber optic sensing cable. FFT Secure Fence™ delivers the lowest installed cost per foot.
- Minimise ongoing total cost of ownership, taking advantage of simple installation and field maintenance free operation with proven reliability and durability.
- Avoid the problems of in-field power and electronics. FFT fiber optic detection cables are unaffected by RFI, EMI, lightning or storms and are intrinsically safe for operation in potentially explosive environments.

FFT Secure Fence is the ultimate fiber optic perimeter security detection and location 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.

Value Proposition – FFT Secure Fence delivers outstanding price and performance benefits.

Technology – FFT's R&D and product development programs ensure you always have the very latest and most powerful technology, and systems are easily updated with the latest algorithms and signatures.

The Right Products – Developed by FFT specifically for both military and industrial applications.

FFT Secure Fence

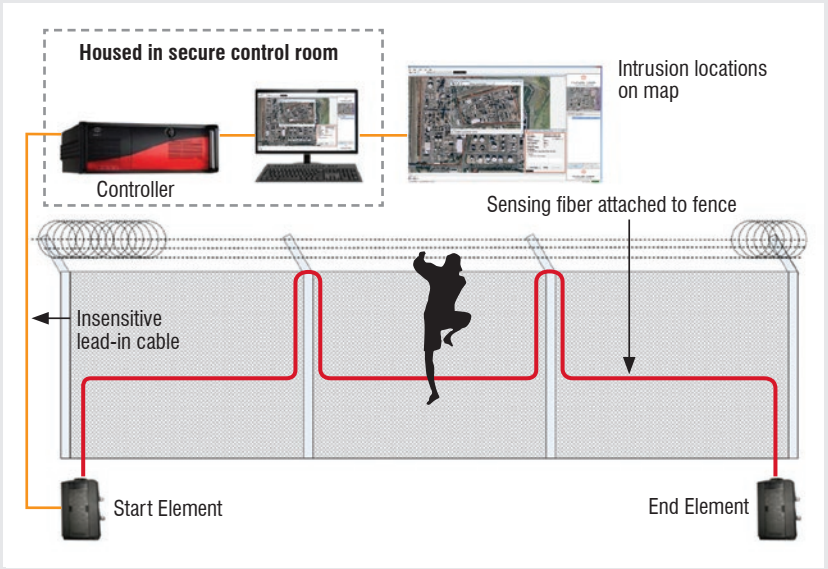
How It Works

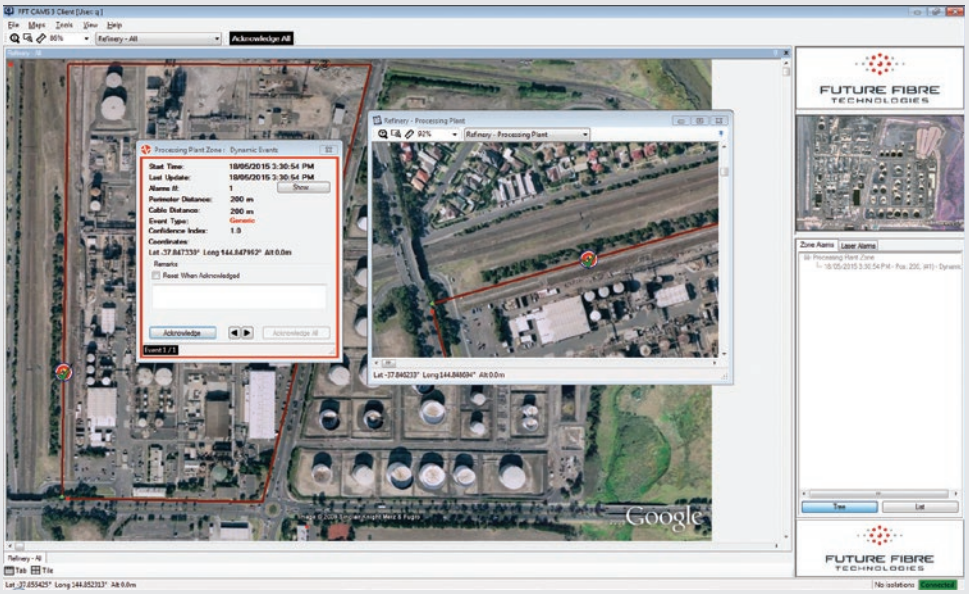
Simple to install and operate, the FFT Secure Fence system delivers truly outstanding levels of detection and location combined with one of the lowest Nuisance Alarm Rates available. It is maintenance free; operating easily and reliably under a wide range of operational and environmental conditions—day after day, year after year.

Secure Fence controllers are connected to fiber optic cables that are mounted on fences and gates to detect climbing, cutting or lifting, or buried along fence-lines to detect digging.

Each controller transmits laser light down fiber optic sensing cable and then monitors and analyses disturbances in returning light to detect the nature and location of intrusion alarms.

At the heart of the system is the intelligence built into the FFT Secure Fence controller. The controller uses advanced signal processing techniques in parallel with intrusion detection to identify and ignore environmental and other unwanted nuisance alarms.





Connecting Secure Fence to FFT CAMS™ enables the location of intrusion alarms to be displayed on an intuitive map-based user interface.

FFT CAMS can also be used to interface FFT Secure Fence to security cameras, lighting, mobile devices, emails, text messages and more than 40 different security management systems and other security devices.

FFT Secure Fence

- A Secure Fence controller connects to a sensor cable straight run of 40km (25 miles) or a loop of 80km (50 miles)
- Locate intrusions to within 10 meters (30 feet) to 25 meters (80 feet), depending on fence type
- Detection of multiple simultaneous intrusions along the fence
- No electronics or power in the field
- Rapid in-field repair
- Two year warranty extendable to life of product
- Immune to EMI/RFI
- Intrinsically safe

Certified System
Quality
ISO 9001
SAI GLOBAL

FFT Secure Fence Specifications

Fiber Optic Sensor	Custom UV stabilized single mode fiber optic sensor cable—expected life >20 years.
Sensing Configuration	Distributed sensor with a total optical path length of up to 80km or 50 miles per controller. Total power budget of 25dB.
Location Accuracy	Within 10 meters (30 feet) or better anywhere along the sensor cable for high quality chainlink and weldmesh fences, up to 25 meters (80 feet) on other FFT approved fences.
Zone Length & Number	Infinitely variable 'Virtual Zones' are created in the FFT CAMS software 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 Sensor 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 24 kg (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 fence line.
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.

CONTACT FFT

EMAIL | **info@fftsecurity.com** WEB | **www.fftsecurity.com**

AUSTRALIA	Future Fibre Technologies Limited	10 Hartnett Close, Mulgrave, Victoria 3170 Australia Phone: +61 3 9590 3100	Fax: +61 3 9560 8000
EUROPE	Future Fibre Technologies Limited	3000 Hillswood Drive, Hillswood Business Park, Chertsey, Surrey KT16 0RS United Kingdom Phone: +44 1932 895 317	Fax: +44 1932 895 318
MIDDLE EAST	Future Fibre Technologies MENA FZ-LLC	PO Box 502864, Building 11 Office G08, Dubai Internet City, United Arab Emirates Phone: +971 4 4345361	Fax: +971 4 4393406
AMERICAS	Future Fibre Technologies (US) Inc.	800 West El Camino Real, Suite 180, Mountain View CA 94040 USA Toll Free: +1 877 650 8900 Outside USA: +1 650 903 2222	Fax: +1 435 417 6671
INDIA	FFT India Pvt Ltd	M-12 /23, DLF City Phase 2, Gurgaon, Haryana 122 002 India Phone: +91 124 4087020	Fax: +91 124 4087019
SOUTH AFRICA	Future Fibre Technologies	No 2 Sandton Drive, Sandton, Johannesburg 2196, South Africa Phone: +27 11 282 0750	
SINGAPORE	Future Fibre Technologies	61 Tras Street, #02-01, Singapore 079000 Phone: +65 6220 7970	Fax: +65 6220 7656

FFT Aura™, FFT CAMS™, FFT Secure Fence™, FFT Secure Link™, FFT Secure Pipe™, FFT Secure Point™, Secure Point™ and FFT Secure Zone™ are trademarks of Future Fibre Technologies Limited.

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