High performance perimeter protection

Applications

- **Military bases**
- **Government facilities**
- **Oil refineries**
- **Petrochemical plants**
- **Power plants**
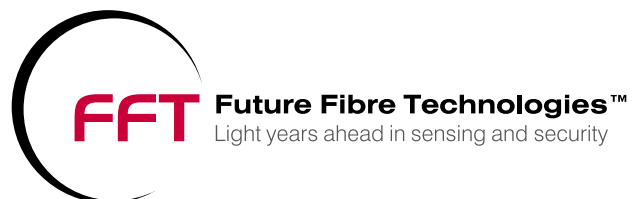- **Country borders**
- **Airports**

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 an intrusion to within 25 meters (75 feet) or better, regardless of the fence length.

FFT's ARaD advanced signal processing reduces nuisance alarms, while maintaining high sensitivity to intrusions.

Only from FFT – The ultimate force in fiber optic intrusion detection

FFT Future Fibre Technologies™
Light years ahead in sensing and security

www.fftsecurity.com

FFT Secure Fence™ is the ultimate fiber optic perimeter security detection and location system, pinpointing intrusions to better than 25 meters (75 feet) on FFT approved fences up to 80km or 50 miles long. Multiple systems can be networked to monitor longer distances such as country borders.
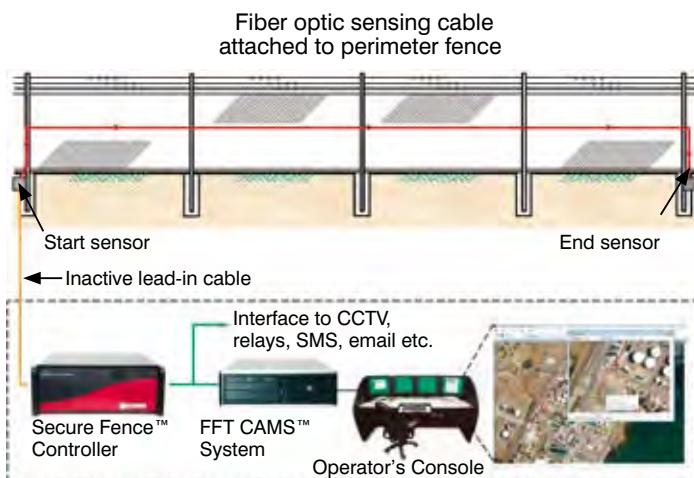
The simple installation, reliability and maintenance free operation delivers the lowest Total Cost of Ownership (TCO) of any long perimeter solution in the market.

Key Benefits

» Know the exact location where an intrusion occurs and where to dispatch security staff to ensure a rapid response, or activate specific CCTV camera imagery.

» Significant up-front cost savings as only one system is required to support up to 80km (50 miles) of fiber optic sensing cable. Secure Fence™ delivers the lowest installed cost per foot.

» Lowest ongoing Total Cost of Ownership (TCO) as there are no electronics in the field, no power in the field and it is easy and economical to install or expand. There is no field maintenance, and the fiber optic cable is unaffected by RFI, EMI, lightning or storms. Only extremely durable and reliable fiber optic cable is out in the field.

» Security staff can have faith in the system as Secure Fence™ delivers a high Probability of Detection (POD) simultaneously with an extremely low Nuisance Alarm Rate due to the intelligent event discrimination and analysis utilized.

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.

Fiber optic sensing cable attached to perimeter fence

Start sensor   End sensor

← Inactive lead-in cable

Interface to CCTV, relays, SMS, email etc.

Secure Fence™ Controller   FFT CAMS™ System   Operator's Console

Located within a secure control room remote from the perimeter

At the heart of the system is the intelligence built into the Secure Fence™ Controller. A laser beam is transmitted along the fiber optic cable attached to the fence, and the returned signal is automatically monitored and analyzed for disturbances. This returned signal is also digitally processed to identify and eliminate environmental nuisance alarms.

Simple and intuitive to use, FFT Secure Fence™ delivers the precise information your security staff need, combined with the ability to interface and activate CCTV camera systems, lighting, gates, email, plus a broad range of external devices and systems.

The area or zone where alarms are triggered along with the GPS co-ordinates is instantly displayed onto a sitemap, and the event is automatically logged into a secure database.

FFT Secure Fence™

10 Key Reasons Why You Can Depend On FFT

Experience – Thousands of kilometers installed at hundreds of major sites around the world

Independently Tested – FFT consistently delivers quality intrusion detection solutions, backed by independent testing

Stability – The world's most experienced fiber optic security sensing company, operating since 1994

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

Quality – Certified ISO 9001:2008

The Right Products – Designed and developed by FFT specifically for military & industrial applications

Reliability – All FFT systems come with a two year hardware and software warranty

Support – FFT has global support capability through our international offices

Availability – FFT has partners located around the world

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

A signal can then be sent via Ethernet directly to a high level command and control system, CCTV camera system, mobile device, email, or other external monitoring.

The operator interface is available in a range of languages including English, Arabic, French, Russian, Spanish, Japanese, and Chinese. Additional languages are easily added.

About FFT

With hundreds of major installations in 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 the design and development of fiber optic sensing technologies for security applications and the global technology of choice for perimeter intrusion detection, network protection, and buried pipeline monitoring for TPI.

Features

- A single fiber optic system protects up to 80km or 50 miles of sensor cable

- Locate intrusions to within 25 meters (75 feet) or better

- No electronics or power in the field

- Two year warranty

- Immune to EMI/RFI

- Intrinsically safe

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 25 meters (75 feet) or better anywhere along the sensor cable on FFT approved fences
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: -30°C to +70°C (-22°F to +160°F)
Controller Dimensions/Weight	177mmH x 482mmW x 497mmD (7.0"H x 19.0"W x 19.6"D) Weight 24 Kg (53lbs), 19" rack mounted, 4U high
Electrical Specifications	Input voltage 110–240V AC, 50/60Hz, auto ranging, 160 watts consumption, redundant 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	TCP/IP via FFT 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 including Lenel, Milestone, Bosch VMS, Indigo Vision, EBI, P2000, C-Cure 8000, MODBUS PLC's, Pelco, and more
Alarm Monitoring	Real-time distributed monitoring—provides an intuitive map-based operator GUI, and interfaces to CCTV systems, MODBUS, email systems, external SMS systems, lighting, gates etc via TCP/IP
Warranty	Comprehensive two year warranty on hardware and software with ongoing warranty extension program available for the life of the product
Seasonal Calibration	No seasonal calibration or adjustments required
Zone Length & Number	Infinitely variable 'Virtual Zones' are created in the FFT CAMS™ software to suit specific site requirements

▶ Contact FFT

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