High Performance
Pipeline Protection

Long distance pipelines are susceptible to a range of threats ranging from accidental or deliberate damage to illegal tapping and tampering.

FFT's fiber optic intrusion detection technology is particularly effective at detecting digging activities and vehicle movements occurring above the pipeline, raising an alarm before the pipeline is breached or damaged.

Laid along the pipeline itself, the fiber optic cable can detect even the slightest vibrations in the surrounding area. This ensures managers and operators know exactly where to dispatch security and maintenance staff to ensure rapid response. Simple to install and virtually maintenance free, FFT delivers a cost effective yet flexible pipeline protection solution without compromising performance.

fftsecurity.com

Benefits

Pipelines longer than 110 kilometres (70 miles) can be protected by installing multiple controllers along the pipeline infrastructure, all monitored from a single location.

Delivers precise GPS co-ordinates of the alarm to security staff, combined with the ability to interface with and activate CCTV camera systems and a broad range of external devices and systems.

Identifies different events within the detected signal, differentiating between potential intrusions and background noise and removing nuisance events.

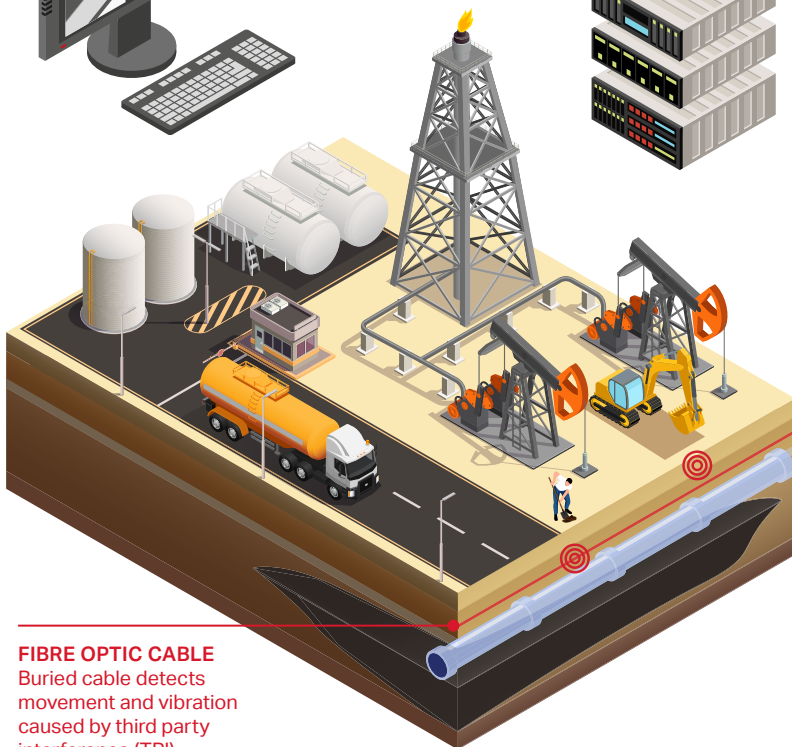**No electronics or power in the field.** Intrinsically safe and immune to EMI/RFI and lightning.

INTRUSION ALARM
Displays real time locations of alarms on maps and/or interfaces to other systems

RACK MOUNTED CONTROLLERS
Emits and receives laser light and applies complex algorithms, including Deep Learning, to detect and identify intrusion type and location

FIBRE OPTIC CABLE
Buried cable detects movement and vibration caused by third party interference (TPI)
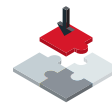
Features

PINPOINT ACCURACY
Protects up to 110 kilometres (70 miles) of pipeline and locates interference in real time to within ± 5 metres (17 feet) of the disturbance – delivering the highest probability of detection with the lowest nuisance alarm rate.

MONITORING AND CONFIGURATION
Using the FFT CAMS monitoring software platform, control alarm signals from individual or multiple controllers on a single site or group of sites can be displayed together in a simple to understand Graphical User Interface.

SEAMLESS INTEGRATION
Integrates with industry leading physical security systems, video management and situational awareness platforms using standard and proprietary interfaces to combine inputs from a wide range of security devices with intrusion detection information.

FULL CUT RESISTANCE
Even when a sensor fibre is cut or damaged, FFT technology continues to detect events occurring between the controller and the cut. When sensor fibres are connected to two channels of the controller (or two controllers) in a redundant loop configuration, events can be detected to within 10 metres (33 feet) either side of the cut.

For more information about our products, visit: **www.fftsecurity.com**
Contact us: sales@fftsecurity.com

Future Fibre
T E C H N O L O G I E S