



**FUTURE FIBRE
TECHNOLOGIES**

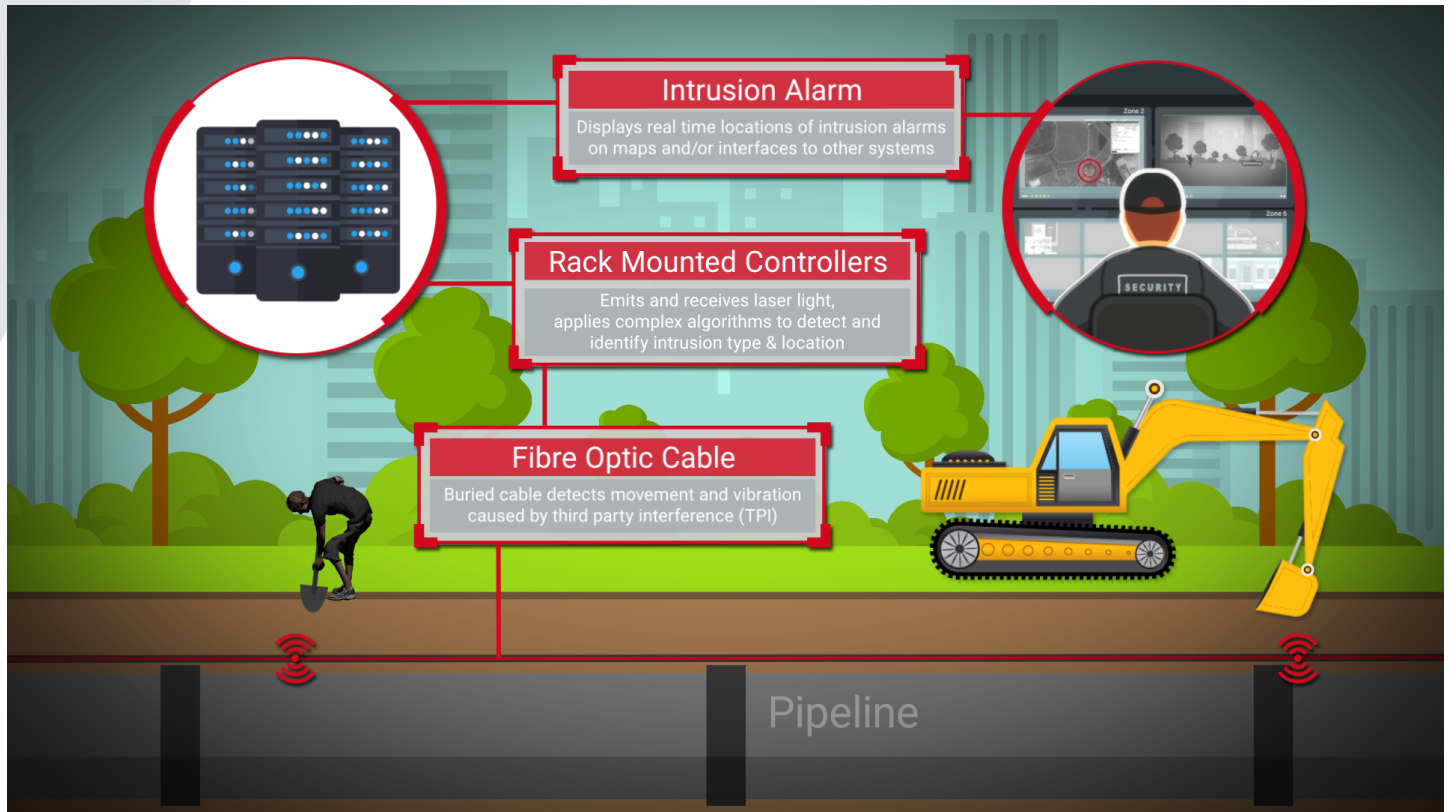
An Ava Group Company



HIGH PERFORMANCE PIPELINE PROTECTION

HIGH PERFORMANCE LONG DISTANCE
PIPELINE PROTECTION FROM
WORLD LEADERS IN FIBRE
OPTIC TECHNOLOGY

Pipelines are susceptible to a range of threats from accidental or deliberate digging both manual or vehicle, to illegal tapping and tampering. Operators require a solution that detects Third Party Interference (TPI) before the pipeline is breached or damaged. Additionally, there is often a prerequisite for real time accurate location information to know exactly where to dispatch their security and maintenance staff to ensure a rapid response and minimum impact on their operations.



Fibre optic intrusion detection and location 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.

The fibre optic cable can be laid along the pipeline itself and can detect even the slightest vibrations in the surrounding area.

This ensures security managers and operators can know exactly where to dispatch security and maintenance staff to ensure rapid response.

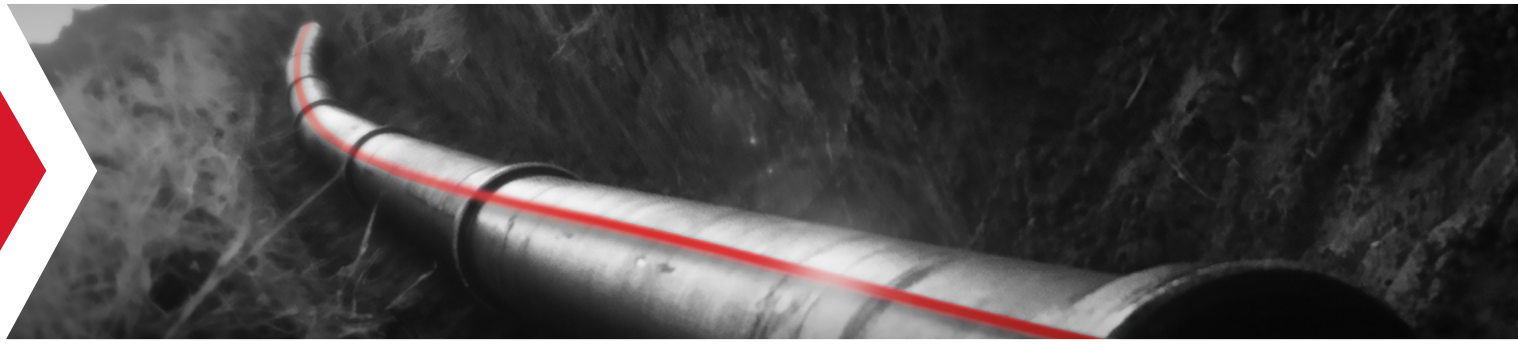
Each controller protects up to 110km of pipeline using either FFT supplied or space fibres within existing fibre optic cable, enabling customers can get the most out of their infrastructure.

FFT's world-class central alarm monitoring software (FFT CAMS™) also offers powerful interfacing options to other FFT products, plus third party devices and systems.

FFT's fibre optic systems are simple to install and virtually maintenance free operation delivers a cost effective yet flexible pipeline protection solution without compromising on performance.

FFT manufactures a range of pipeline protection products that detect and locate intrusions and Third Party Interference anywhere along thousands of kilometres of buried pipeline, in real-time, before actual pipeline damage occurs. FFT utilises a fibre optic cable (new or existing) installed above the pipeline as the sensor, detecting and pinpointing the intrusion location.

FFT's industry leading advanced signal processing minimises nuisance alarms, without compromising the sensitivity of the system. The simple installation, reliability and maintenance free operation delivers a low Total Cost of Ownership (TCO).



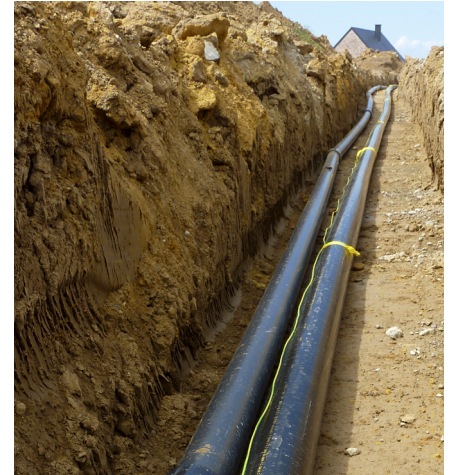
Trust the Experts

FFT has the complete family of fibre optic pipeline intrusion detection products that can protect from 1km of pipeline up to 110km of pipeline from a single controller. Longer pipelines can be protected by installing multiple controllers along the pipeline infrastructure and all monitored from a single location.

Event analysis is used to identify different events within the detected signal, differentiating between potential intrusions and background noise, removing those nuisance events while retaining legitimate intrusion information.

FFT CAMS delivers the precise information your security staff needs, combined with the ability to interface with and activate CCTV camera systems, lighting, SCADA, plus a broad range of external devices and systems and providing the GPS co-ordinates of the alarm.

With many years of delivering advance pipeline intrusion detection solutions to the oil and gas industry combined with the latest generation of controllers makes FFT the company to trust with your high value infrastructure.



Proven Solutions

NYSEARCH (USA) – The Office of Pipeline Safety (OPS) identified that the majority of pipeline incidents are caused by “damage by outside force”. Property damages alone for over 300,000 miles of transmission pipe in the U.S. can cost operators millions of dollars annually. This being a high priority area, NYSEARCH installed an FFT Secure Pipe™ system in 2003 along a high pressure gas pipeline at a test site in New Jersey, USA.

“To date, no nuisance alarms have been produced by nearby excavating equipment. Yet the system sensitivity is such that many alarms recorded are caused by pipeline survey and other vehicles driving over the cable.

NYSEARCH believes that this technology is critical to safe guard our pipelines and to assure the integrity of our natural gas pipelines”. - Client



Oil Pipelines | Gas Pipes | Water Pipelines

Why FFT?

FFT are specialists in the security industry, with a product range built on many years of knowledge and experience solely developing superior fibre optic technology.

With a broad, versatile product portfolio, FFT's solutions are suitable for a wide range of applications, effective for short and long distances.

FFT solutions are not only easy to install but also require minimal maintenance, enabling significant savings year on year and lowering the total cost of ownership.

Why Ava Group?

Our customers can now access a broader portfolio of security risk management products and services, benefiting from a more holistic approach for market leading security risk management.

With a team of industry experts, the Ava Group offers significant market knowledge and experience across a range of key sectors, ensuring our customers can be assured of the most suitable solution for their needs.

Our prestigious client base demonstrates our commitment to quality, reliability and outstanding customer experiences.

An Ava Group Company



FFT is an Ava Group Company, a market leader of risk management services and technologies, trusted by some of the most security conscious commercial, industrial, military and government clients in the world.

The Group features a range of complementary solutions including intrusion detection and location for perimeters, pipelines and data networks, biometric and card access control as well as secure international logistics, storage of high value assets and risk consultancy services. Through decades of innovation, the Ava Group continues to build upon a comprehensive portfolio of premium services and technologies for the most complex and demanding markets.

Our business truly serves a global market, with our knowledgeable team spread across six continents, providing market and industry expertise directly to customers. With thousands of sites protected, the Ava Group is proven to deliver first class services and technologies that surpass the expectations of our partners and end users.

Closer to our Customers

With our highly skilled team spread across six continents we are never far away from our clients. We also run regular training courses in our Ava Group offices and other convenient locations around the world.



● Offices ● Regional Sales and Support Staff

Contact FFT

For further information please refer to our website or contact our team:

Email: sales@fftsecurity.com | Website: www.fftsecurity.com



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