



Future Fibre
TECHNOLOGIES



Securing Oil and Gas Infrastructure with Confidence

Intrusion Detection
Fibre Security Technology

fftsecurity.com

Why Oil and Gas Infrastructure Needs Stronger Protection

Oil and gas infrastructure is critical to energy security, economic stability and supply continuity.

As oil price volatility rises and global supply chains come under pressure, production assets, terminals and pipeline infrastructure remain high-value targets for threats that can disrupt operations, compromise safety and environmental protection, and interrupt product flow.

Even brief security incidents can escalate into major operational disruption, safety risks and significant financial losses. In highly interconnected oil and gas networks, a single point of failure, particularly along pipeline infrastructure, can have cascading impacts across supply chains, export capacity and energy markets.

Unauthorised access to secure perimeters, production facilities, pumping stations and pipeline corridors

Breaches of fences, barriers or exclusion zones protecting critical oil and gas assets

Tampering with surveillance, power, control and communications systems critical to operations

Vandalism or damage to pipelines, valves, compressor stations and critical access routes

Illegal tapping, siphoning and other third-party interference (TPI) that can result in theft, pressure loss, safety risks and environmental damage



The FFT advantage

We deliver multi-layered, integrated security solutions that protect critical oil and gas infrastructure from the perimeter through to core operations.

PERIMETER INTRUSION DETECTION

FFT's fence-mounted or buried systems monitor oil and gas sites, delivering high-confidence detection with low nuisance alarm rates.

PIPELINE MONITORING

DAS fibre sensing detects suspicious movement, digging, tapping and other third-party interference around pipelines in real time, helping operators respond before threats escalate.

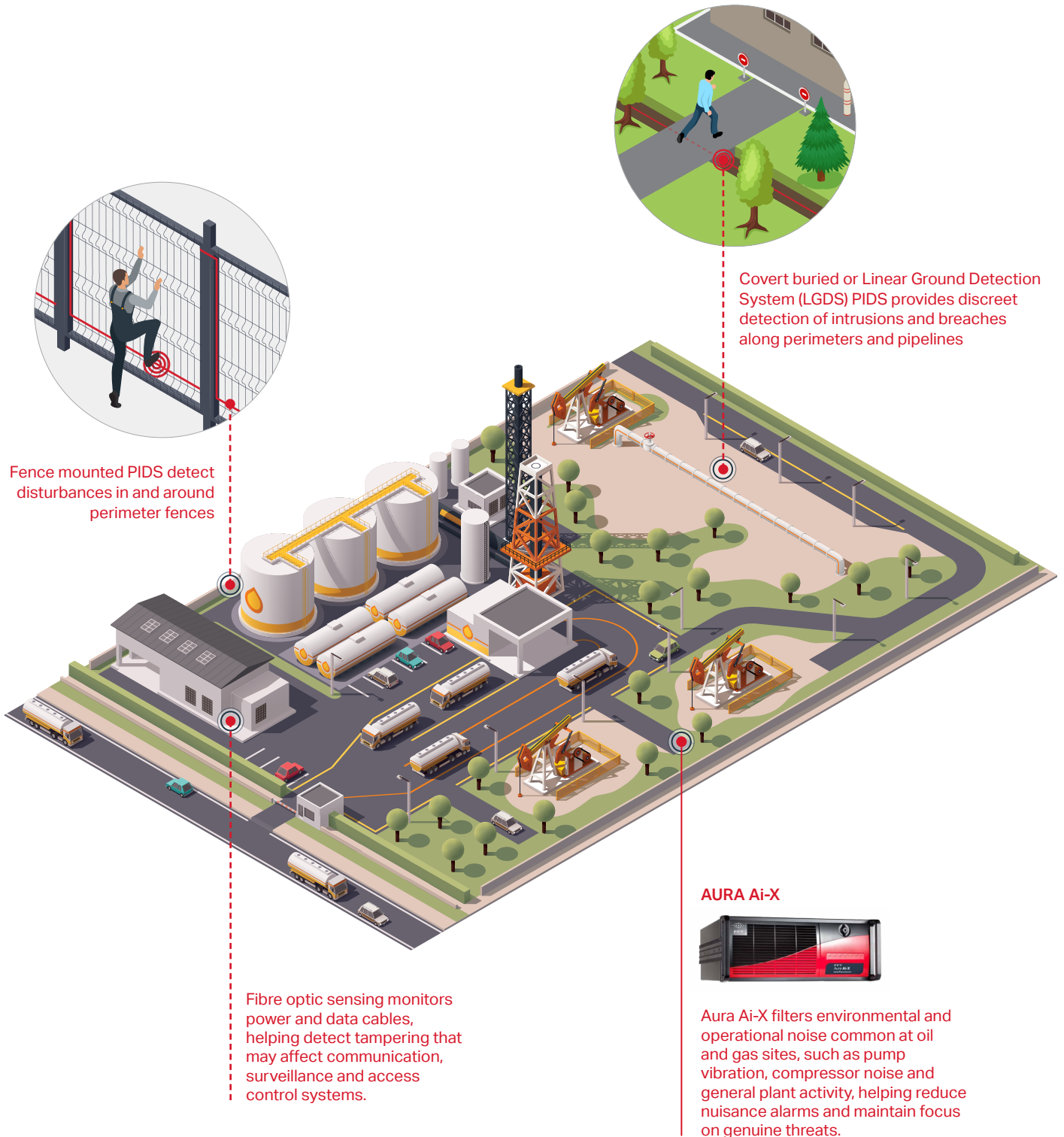
DATA NETWORK PROTECTION

FFT monitors the physical cable layer to deliver clear network security and health insights, either stand-alone or alongside existing NMS platforms.

With operations across six continents and thousands of sites protected worldwide, FFT is trusted by governments, military, and industry leaders in over 80 countries.

Multi-layered protection in action

By integrating multiple detection strategies, FFT delivers a seamless, layered defence for oil and gas infrastructure. From detecting approach and climbing at the perimeter to monitoring pipelines for illegal tapping, tampering, siphoning and leakage, each layer is designed to enable rapid response to intrusion alerts and help operators stay ahead of evolving threats.



From perimeter to core: How Future Fibre Technologies secures Oil and Gas Facilities

FFT's DAS (Distributed Acoustic Sensing) based fibre optic sensing technologies deliver real-time, location-specific alerts for perimeter breaches, pipeline interference, infrastructure tampering and unauthorised access. It can also monitor the health of critical cables, helping operators identify issues early before they impact operations, safety or supply continuity.

Seamlessly integrating with existing security systems, FFT solutions provide reliable detection with minimal nuisance alarms, helping safeguard critical infrastructure and oil and gas assets.

PERIMETER INTRUSION PROTECTION

While perimeters can range from 50m to hundreds of kilometres, oil and gas sites require the same high level of protection. Whether fence mounted or covert buried, FFT's intrusion detection technology is well suited to all types of oil and gas infrastructure, performs reliably in demanding environments, and delivers high probability of detection with low nuisance alarm rates.

PIPELINE MONITORING

Pipelines are exposed to a range of threats, including deliberate digging, illegal tapping, siphoning, third-party interference and tampering. To make the fast, well-informed decisions needed to protect pipeline infrastructure, operators require a solution that detects interference and damage at the earliest possible stage. Using DAS-based fibre optic sensing technologies along the pipeline, tampering, theft and disturbance events can be detected in real time.

DATA NETWORK PROTECTION

Network management systems typically focus on higher-level network protocols and transactions, only detecting malicious activity based on interface and data flow health. At this point, the damage may already be done. Working stand-alone or in conjunction with existing NMS platforms, FFT's data network solution delivers a complete snapshot of physical network security and operational health by monitoring surveillance, power and communications cables.





Trusted worldwide

- 80+ countries served
- Tens of thousands of installations
- Proven across critical infrastructure, government, and commercial sectors

Honeywell

M.C. DEAN
BUILDING INTELLIGENCE

SIEMENS

Telstra

ExxonMobil

Johnson
Controls

U.S. AIR FORCE

Transport
Sydney Trains



Australian Government
Department of Defence



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The excellent support from OEM suppliers contributed to the overall success of the project and **I would have no hesitation in recommending FFT's solution** for future projects.

- US REFINERY OPERATOR

“

By far, FFT was the best proposal, best value, and as it turned out, theirs was the lowest price. Both the integrator and the customer were **extremely impressed with FFT's performance, timeliness, professionalism, as well as service after the work was completed.** The system is the best we have seen or heard of to date. **Every facet of the system exceeded our expectations.**

- US ARMY SECURITY CONTRACTOR

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Risk mitigation of unauthorised access to the Photovoltaic Alex Farm was the major challenge, especially considering its vast territorial expanse. The security solution (comprising PTZ cameras, horn speakers and FFT's fibre optic intrusion detection) allows the security team to act effectively in the analysis, detection and response of flagged occurrences.

- PROJECT MANAGER, ELERA RENEWABLE

“

Fence security at Istanbul Airport is **smarter and more sensitive thanks to Future Fibre Technologies.**

- IGA ULV SYSTEMS GROUP MANAGER



Integrations

PARTNER SUPPLIED INTEGRATIONS*

Advancis WinGuard
 Axone Systems
 AxxonSoft
 BEL Command and Control (Bharat Electronics Limited)
 braXos Security Steward
 Carnoustie Security
 ECIL – Scada Integration
 Ekin Red Eagle
 FLIR 360 Surveillance
 Genetec Security Centre RSA
 GEW Technologies
 Havelsan
 HERNIS (Eaton)
 Honeywell EBI
 Honeywell HUS
 Honeywell ProWatch
 IP Fusion
 KocSistem
 Linc
 Mindtree
 NCS

Nightingale Intelligent Systems
 BrdsEye
 Nirasys
 Qognify
 Siemens Siveillance Vantage
 Sinpro
 Sterlite
 Synectics Synergy3
 Tata Advanced Systems
 Thales Airport Operation Control Centre (AOCC)
 Tyco CEM Systems AC2000
 Tyco Proximex Surveillint
 Vector InfoTech
 Verint Fusion SMC
 Videonetics
 Vidsys
 Viettel Surveillance System

FFT SUPPLIED INTEGRATIONS

Avigilon Control Centre
 Bosch Video Management System

FLIR Latitude
 G4S AMAG Symmetry Enterprise
 Gallagher Command Centre
 Hikvision
 IndigoVision Control Centre
 Lenel S2 - Onguard
 Milestone XProtect
 Pelco VideoXpert
 Sick Laser Scanner
 Tyco Software House C-Cure 9000

CAMERA CONTROL INTEGRATIONS

Axis Cameras
 ONVIF Compatible Cameras

INDUSTRY STANDARD INTERFACES

Configurable ASCII Device output
 Email output
 Modbus PLC
 SMS output
 SNMP v1 and v2

Secure Your Oil and Gas Infrastructure Today

Contact FFT to discover how our integrated solutions can protect your oil and gas infrastructure and assets.

FFTSECURITY.COM



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

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