



Future Fibre
TECHNOLOGIES

Securing Telecommunications Infrastructure with Confidence

Intrusion Detection
Fibre Security Technology

fftsecurity.com

Why Telecommunications Infrastructure Needs Stronger Protection

Telecommunications infrastructure is critical to national resilience, economic stability and community safety. From above-ground assets such as street cabinets, pit lids, conduit routes, fibre and power cables, towers and exchange sites to critical subsea cable infrastructure, these networks are high-value targets for physical and environmental threats that can disrupt connectivity, compromise safety, and affect service continuity.

Even brief security incidents can escalate into major outages, operational disruption and significant financial losses.

Unauthorised access to secure perimeters, exchange facilities, landing stations and critical telecommunications assets

Breaches of fences, barriers or exclusion zones around key network infrastructure

Tampering with monitoring, power, fibre, conduit or communications systems critical to service continuity

Vandalism or damage to towers, cabinets, underground pits, pit lids and cable routes

Uncontrolled access to restricted, high-risk or operationally critical areas, including subsea cable infrastructure and landing points



The FFT advantage

We deliver multi-layered, integrated security solutions that protect critical telecommunications infrastructure, from exchange sites and cable routes to landing stations and subsea assets, from the perimeter through to core network operations.

PERIMETER INTRUSION DETECTION

FFT's fence-mounted or buried systems monitor telecommunications infrastructure, delivering high-confidence detection with low nuisance alarm rates.

DATA NETWORK PROTECTION

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

POWER CABLE MONITORING

DAS fibre sensing detects cable tampering and disturbance events in real time, helping operators respond at the earliest stage.

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 telecommunications infrastructure.** From remote transmission sites and exchange facilities to underground pits, cable routes, landing stations and other critical access points, each layer is designed to enable rapid response to intrusion alerts and help protect network availability and service continuity.

Designed to display, monitor and control alarm signals from individual or multiple FFT controllers on a single or number of sites, **FFT CAMS** brings all sites together into a simple to understand Graphical User Interface (GUI)

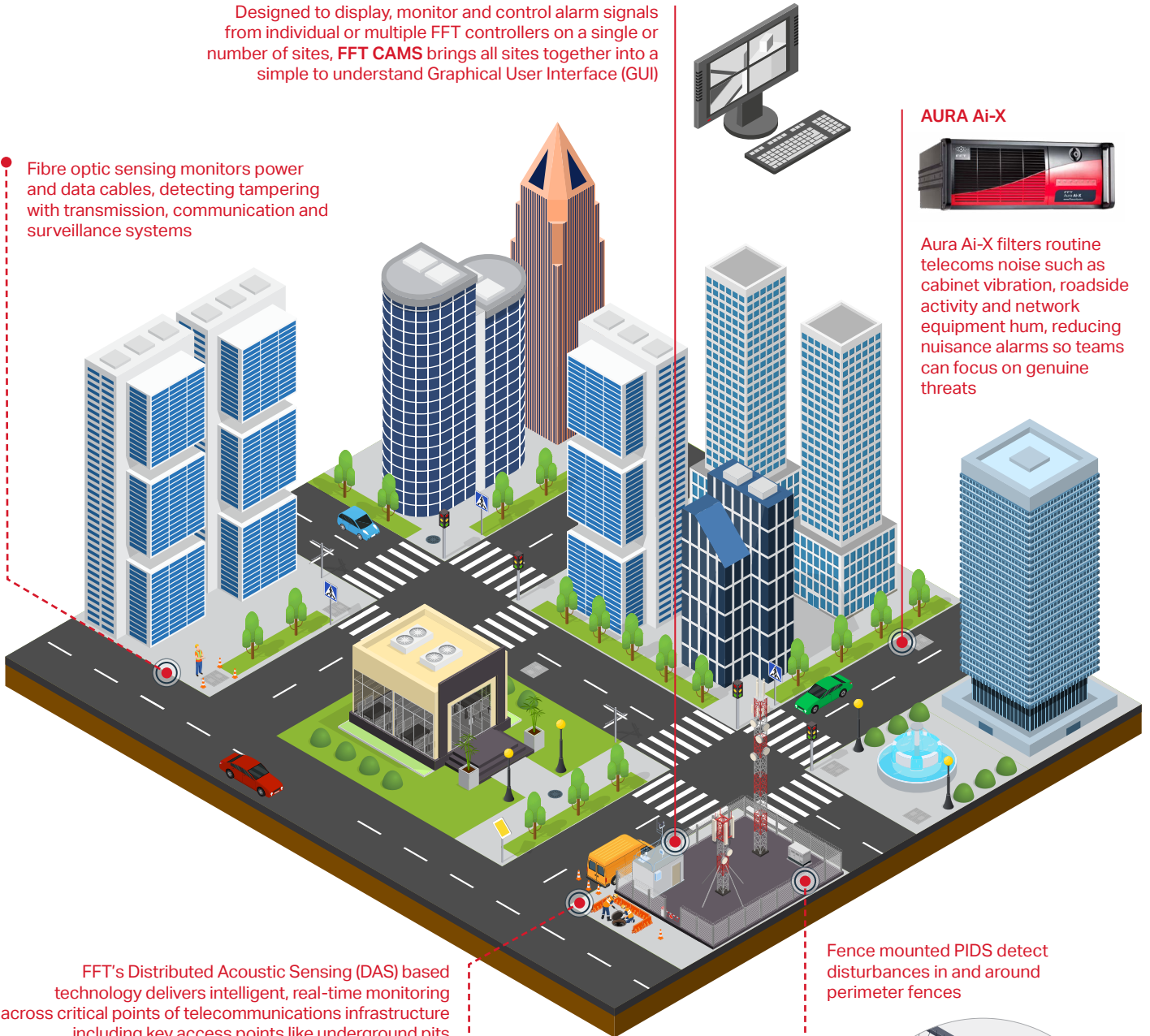


AURA Ai-X



Aura Ai-X filters routine telecoms noise such as cabinet vibration, roadside activity and network equipment hum, reducing nuisance alarms so teams can focus on genuine threats

Fibre optic sensing monitors power and data cables, detecting tampering with transmission, communication and surveillance systems



FFT's Distributed Acoustic Sensing (DAS) based technology delivers intelligent, real-time monitoring across critical points of telecommunications infrastructure including key access points like underground pits



Fence mounted PIDS detect disturbances in and around perimeter fences



From perimeter to core: How Future Fibre Technologies secures Telecommunications Infrastructure

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

Seamlessly integrating with existing security systems, FFT solutions provide reliable detection with minimal false alarms, helping protect both physical infrastructure and critical telecommunications assets.

PERIMETER INTRUSION PROTECTION

While perimeters can range from 50m to hundreds of kilometres, telecommunications sites require the same level of protection. Whether fence mounted or covert buried, FFT's intrusion detection technology is well suited to all types of telecommunications infrastructure, from remote transmission sites and exchange facilities to data centres, landing stations and cable routes, performing reliably in demanding environments while delivering high probability of detection with low nuisance alarm rates.

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 across critical telecommunications infrastructure.

POWER CABLE MONITORING

Power cables are subject to a range of threats, including theft, tampering and malicious damage. To make the fast and well-informed decisions needed to protect critical cable infrastructure, operators require a solution that detects damage at the earliest possible stage. Using DAS-based fibre optic sensing technologies along the cable, tampering, theft and disturbance events can be detected in real time.





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

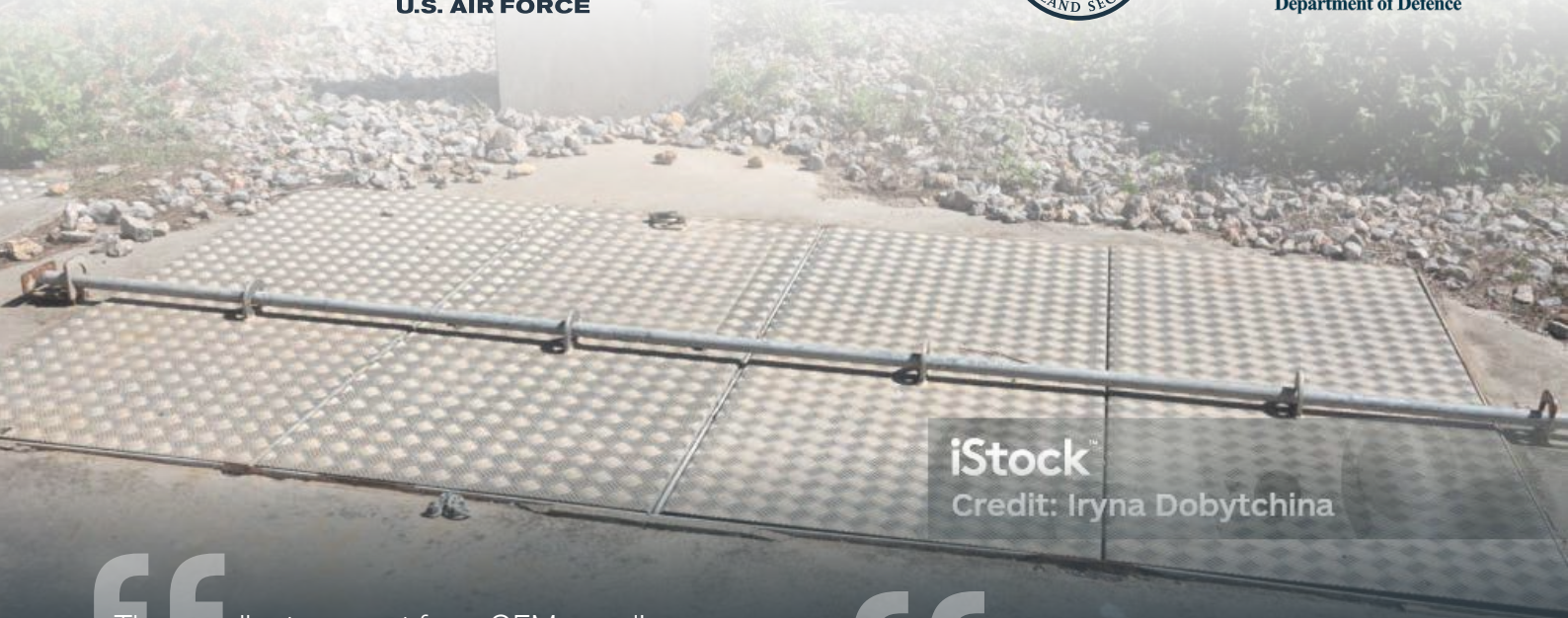
Johnson
Controls

U.S. AIR FORCE

Transport
Sydney Trains



Australian Government
Department of Defence



iStock™
Credit: Iryna Dobytcina

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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

“

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 Telecommunications Infrastructure Today

Contact FFT to discover how our integrated solutions can protect your energy infrastructure, assets and uptime.

FFTSECURITY.COM



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

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