



Future Fibre
TECHNOLOGIES



Securing Transport Infrastructure with Confidence

Intrusion Detection
Fibre Security Technology

fftsecurity.com

Why Transport Infrastructure Needs Stronger Protection

Transportation hubs are central to public mobility, economic activity and the safe, efficient movement of people across cities and regions.

From rail and metro networks to bus stations, depots and interchanges, these environments are high-value targets for physical threats that can disrupt operations, compromise safety and create cascading network impacts.

Even short-lived incidents can result in major delays, safety risks and significant financial losses. In highly interconnected transport systems, a single security failure can have immediate and widespread consequences.

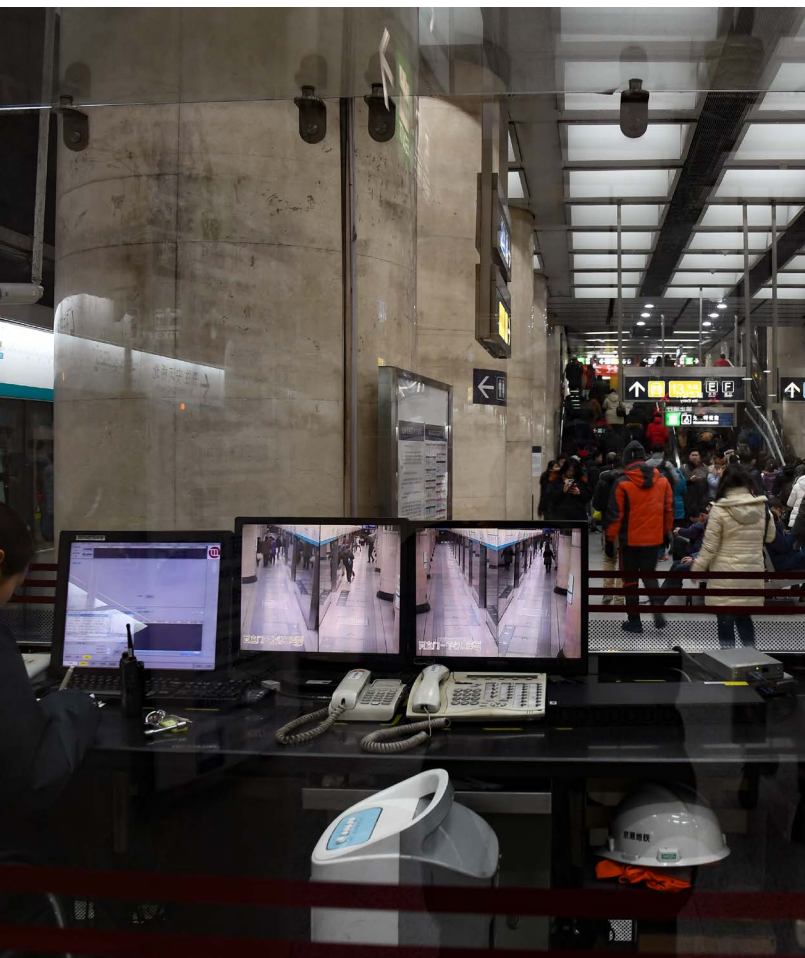
Unauthorised access to stations, depots, control facilities and other critical transport sites

Breaches of perimeters protecting rail corridors, metro infrastructure, bus depots and key operational assets

Tampering with signalling, power and communications systems critical to service continuity

Vandalism, graffiti or damage to rolling stock, stations and trackside infrastructure

Uncontrolled access to restricted, operational or safety-critical areas



The FFT advantage

We deliver multi-layered, integrated security solutions that protect critical transport infrastructure, from rail corridors and metro networks to stations, depots and bus interchanges, from the perimeter through to core operations.

PERIMETER INTRUSION DETECTION

FFT's fence-mounted or buried systems are well suited to rail, metro and bus 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.

BURIED 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 and impenetrable defence system for transport infrastructure and assets. From railway corridors to storage facilities and maintenance yards, every layer of protection is designed to reduce risk, prevent downtime, and ensure compliance.

AURA Ai-X



Aura Ai-X filters routine transport corridor noise, including rail hum, track vibration, passing vehicles, weather and animals moving along fence lines, helping reduce nuisance alarms so operators can stay focused on genuine threats and operationally relevant events



Fence mounted PIDS detect disturbances in and around perimeter fences



Fibre optic sensing monitors power and data cables, helping detect tampering that may affect communication, surveillance and access control systems.

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

FFT's DAS (Distributed Acoustic Sensing) based fibre optic sensing technologies deliver real-time, location-specific alerts for perimeter breaches, infrastructure interference, theft and vandalism across critical transport infrastructure. From rail corridors and metro networks to stations, depots and communications routes, Aura Ai-X helps identify and classify disturbances, separating genuine security events from routine background activity. It can also monitor the health of critical communication cables, alerting operators to issues that could affect service continuity.

Seamlessly integrating with existing security systems, FFT solutions deliver reliable detection with minimal nuisance alarms, helping protect physical infrastructure, operations and sensitive data.

PERIMETER INTRUSION PROTECTION

While perimeters can range from 50m to hundreds of kilometres, rail, metro and bus networks require the same level of protection. Whether fence mounted or covert buried, FFT's intrusion detection technology is well suited to corridors, depots, stations and other transport assets, 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 transport communication and signalling cables.

BURIED 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 issues 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

MC DEAN
BUILDING INTELLIGENCE

SIEMENS

Telstra

ExxonMobil

Johnson
Controls

U.S. AIR FORCE

Transport
Sydney Trains



Australian Government
Department of Defence



“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 Transport Infrastructure Today

Contact FFT to discover how our integrated solutions can protect your transport 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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