



Future Fibre  
TECHNOLOGIES

# Securing Defence Infrastructure with Confidence

Intrusion Detection  
Fibre Security Technology

[fftsecurity.com](http://fftsecurity.com)

# Why Defence Infrastructure Needs Stronger Protection

**Border protection infrastructure and defence facilities sit at the front line of national security, sovereignty and public safety.** Against a backdrop of irregular migration, cross-border activity and evolving security threats, they remain high-value targets for incidents that can disrupt operations, reduce situational awareness, and compromise command, control and surveillance capabilities.

**Even short-lived breaches can create significant operational disruption, safety risks and broader strategic consequences. In highly integrated border and defence environments, a single point of failure can undermine mission readiness and national security.**

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Unauthorised access to secure government facilities, defence sites and border protection infrastructure

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Breaches of perimeter fences, barriers, exclusion zones or controlled crossing points

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

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Damage to fixed and mobile infrastructure, sensor networks, patrol routes and key access points

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Uncontrolled access to restricted, classified or operationally sensitive areas

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## The FFT advantage

We deliver multi-layered, integrated security solutions that protect defence facilities, border infrastructure and critical sites from the outside in.

### PERIMETER INTRUSION DETECTION

FFT's fence-mounted or buried systems protect defence and border sites by helping detect climbing, cutting, tunnelling and other intrusion activity with high detection and low nuisance alarms.

### 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.

### POWER CABLE MONITORING

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

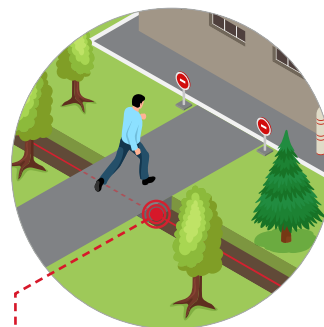
**With operations across six continents and thousands of sites protected worldwide, FFT is trusted by governments, military, and industry leaders in over 80 countries.**

# Multi-layered protection in action

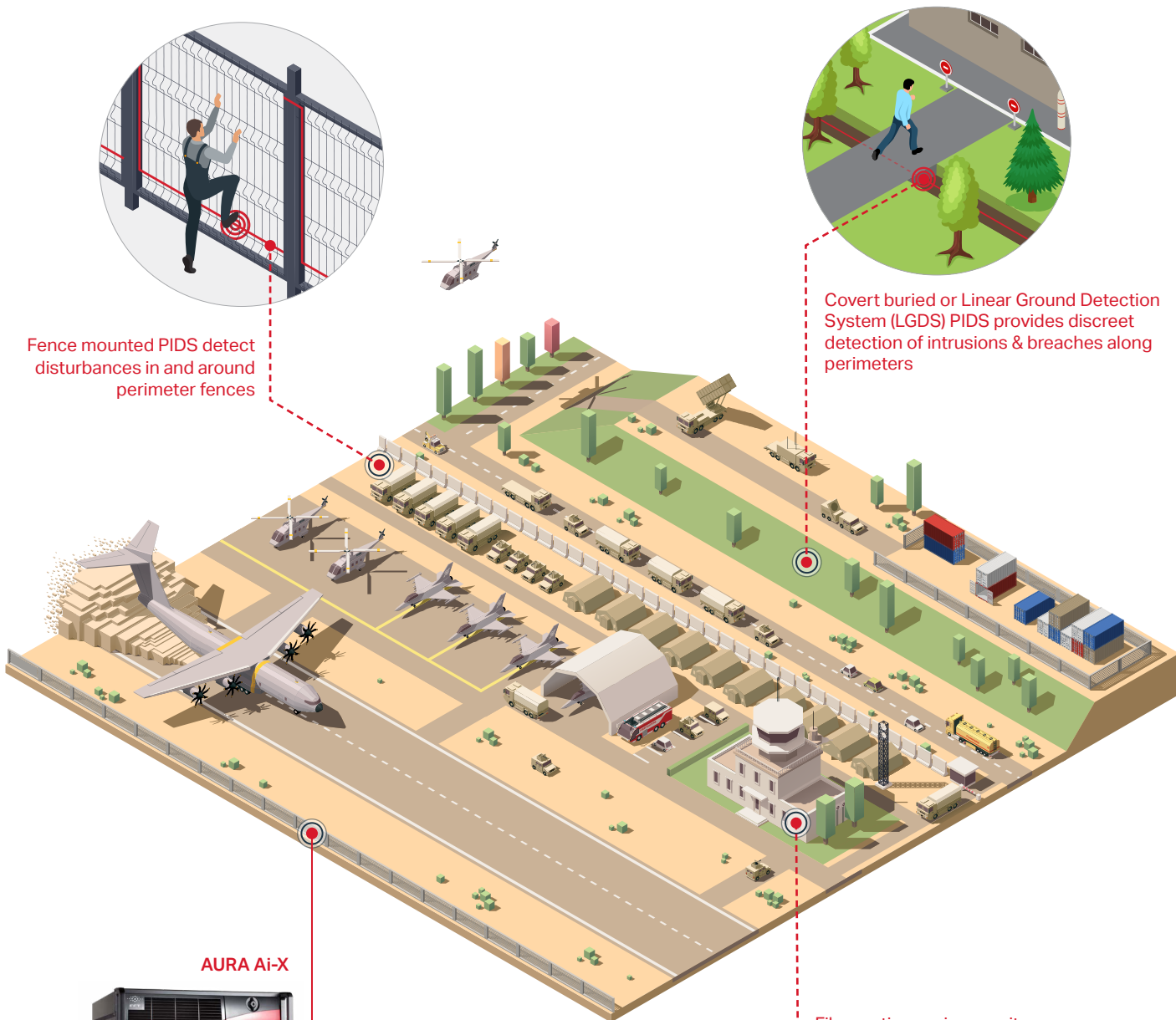
By integrating multiple detection strategies, FFT delivers a seamless, layered defence for **military infrastructure**. From remote army bases and country borders to securing key critical infrastructure and assets, each layer is designed to trigger an immediate response to intrusion alerts, staying ahead of potential threats.



Fence mounted PIDS detect disturbances in and around perimeter fences



Covert buried or Linear Ground Detection System (LGDS) PIDS provides discreet detection of intrusions & breaches along perimeters



AURA Ai-X



Aura Ai-X filters environmental and operational noise common at defence and border sites, reducing nuisance alarms so operators can stay focused on genuine threats.

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 Border and Defence Infrastructure

FFT's DAS (Distributed Acoustic Sensing) based fibre optic sensing technologies deliver real-time, location-specific alerts for perimeter breaches, infrastructure tampering and unauthorised access across defence sites and border environments. It can also monitor the health of critical cables, alerting operators to issues that could impact surveillance, communications and operational continuity.

Seamlessly integrating with existing security systems, FFT solutions deliver reliable detection with minimal nuisance alarms, helping protect infrastructure, assets and mission-critical operations.

## PERIMETER INTRUSION PROTECTION

While perimeters can range from 50m to hundreds of kilometres, defence and border sites require the same high level of protection. Whether fence mounted or covert buried, FFT's intrusion detection technology is well suited to defence infrastructure and border environments, helping detect climbing, digging, tunnelling and other intrusion activity in challenging conditions, 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.

## POWER CABLE MONITORING

Power cables are subject to a range of threats, including theft, tampering and malicious damage. To make the fast, 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

MCD EAN  
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

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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

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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 Defence Facilities Today

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

[FFTSECURITY.COM](http://FFTSECURITY.COM)



For more information about our products, visit: [www.fftsecurity.com](http://www.fftsecurity.com)

Contact us: [info@fftsecurity.com](mailto:info@fftsecurity.com)

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