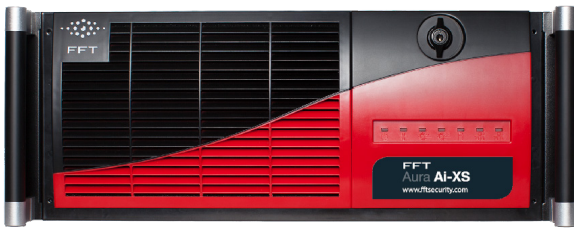




Future Fibre
TECHNOLOGIES

FFT Aura Ai-XS

Short perimeter intrusion detection
powered by deep learning.



FFT Aura Ai-XS is the latest generation intrusion detection technology design specifically for perimeters of up to 10km. The solution's continuous improvement capability changes the POD (vs) NAR paradigm - driving nuisance alarm rates (NAR) towards zero while maintaining the highest probability of detection (POD).



UNRIVALLED PERFORMANCE
Exceptional event classification accuracy resulting in the highest POD with near-zero nuisance alarms. Unmatched by any other commercial system.



EMBEDDED DEEP LEARNING ENGINE
Removes the need for ongoing onsite tuning and algorithm upgrades - backed by FFT's Global Data Library and family of generalized and custom Deep Learning models.



PROVEN TRACK RECORD
Validated on more than 10 project sites. Real-time Deep Learning drives weather related nuisance alarms towards zero with PODs > 95%.



CONTINUOUS IMPROVEMENT
Deep Learning model improvements via FFT ATLAS. Maximises system performance and provides full auditing and traceability of performance improvements.



fftsecurity.com

Features

Fence mounted fibre optic sensing up to 10km (6 miles)
– up to 5km per channel

Intrusion detection to within $\pm 2\text{m}$ (6.5ft)

Real time simultaneous detection on two channels

Cut resilience (immunity) and redundancy

No electronics or power in the field

Intrinsically safe / immune to EMI/RFI and lightning

Compact (4RU) state-of-the-art opto-electronics

Lower total cost of ownership versus alternative technologies

Cyber penetration tested

MTBF >250,000 hours



HOW IT WORKS Deep Learning

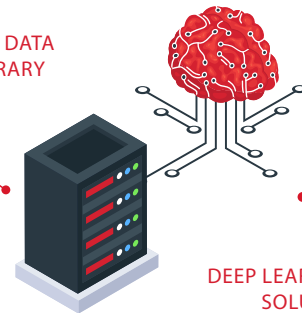
GLOBAL FFT
INSTALLATIONS



Site Data

FFT Deep Learning Infrastructure

FFT DATA
LIBRARY



DEEP LEARNING
SOLUTION
GENERATION

File

AURA AI-XS



Data from FFT's extensive global system installations is used to train effective Deep Learning models deployed to an Aura Ai-XS system via encrypted file transfer. The Deep Learning engine in Aura Ai-XS uses this model to perform real-time detection and classification of events monitored on the fiber sensor.

The diverse range of representative data captured in FFT's Data Library is used to train Deep Learning models that deliver high classification accuracy of events leading to a high POD with the lowest nuisance alarms.