

# FFT Aura Ai-XS

## SHORT PERIMETER INTRUSION DETECTION POWERED BY DEEP LEARNING

FFT AURA AI-XS IS THE LATEST GENERATION INTRUSION DETECTION TECHNOLOGY DESIGNED 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).

### KEY BENEFITS

#### **Unrivalled Performance**

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

#### **Proven Track Record**

The latest generation Aura Ai platform has been validated on more than 10 project sites. Deep Learning minimizes weather related nuisance alarms and can achieve near-zero nuisance alarms with PODs > 95%.

#### **Embedded Deep Learning Engine**

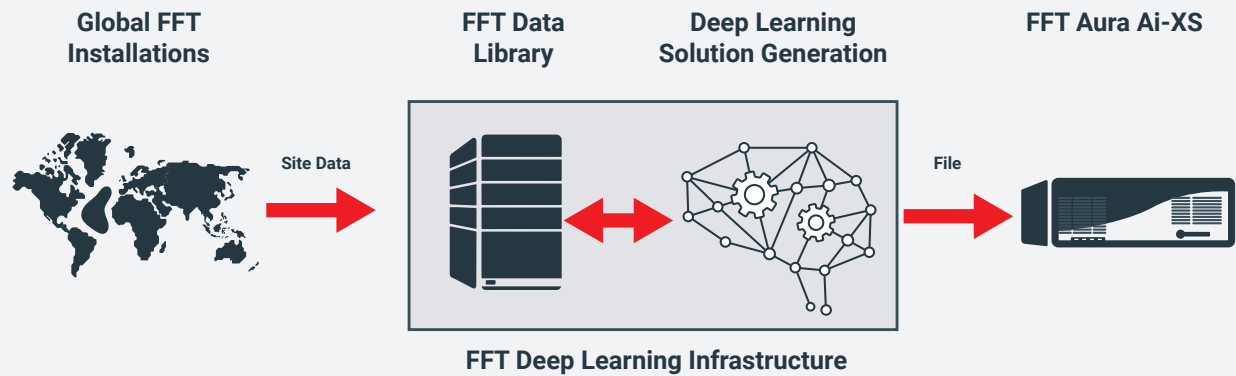
Removes the need for ongoing onsite tuning and algorithm upgrades - backed by FFT's Global Data Library and family of generalized and custom Deep Learning models.

#### **Continuous Improvement**

Deep Learning model improvements via FFT ATLAS to maximize system performance.



## DEEP LEARNING | HOW IT WORKS



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 contained in FFT's Data Library is used to train Deep Learning models that deliver exceptional event classification accuracy leading to the highest POD with lowest nuisance alarm rates.

## FFT AURA AI-XS FEATURES

- Fence mounted fibre optic sensing up to 10km (6 miles) – up to 5km per channel
- Intrusion detection to within  $\pm 2m$  (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 secure – penetration tested by 3rd party and STIG compliant
- One-year warranty and MTBF >250,000 hours



## ABOUT AVA GROUP

Future Fibre Technologies is an Ava Group Company, a global leader in providing technologies and services to protect critical and high value assets and infrastructure. Trusted by some of the most security conscious commercial, industrial, military and government clients in the world, the Group offers a range of complementary solutions including intrusion and condition monitoring, perimeter detection and illuminators, and biometric and card access control.