



FFT Aura Ai-2

ADVANCED, LONG DISTANCE, PIPELINE PROTECTION

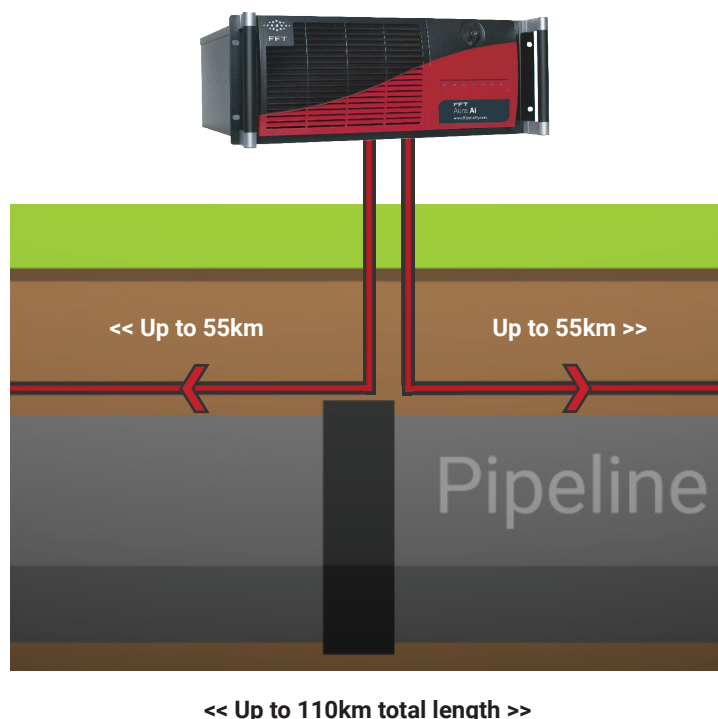
AURA AI-2 OFFERS SUPERIOR PROTECTION OF WALKING, MANUAL AND MECHANICAL DIGGING AND VEHICLE MOVEMENT. AURA AI-2 CAN DETECT, LOCATE AND REPORT PIPELINE DISTURBANCES TO WITHIN $\pm 5\text{M}$ (17FT).

KEY FEATURES

- › Protection for up to:
 - › 55km (35 miles) per channel with disturbance detection accuracy within $\pm 5\text{m}$ (17ft)
 - › total 110km (70 miles) per single controller
- › Complex algorithms for improved classification and reduced nuisance alarms
- › 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 (NIST and UL 2900)
- › Two-year warranty and MTBF >250,000 hours

HOW IT WORKS

- 1) Existing fibre optic cables along the pipeline are utilised (if compatible)
- 2) A single optical fibre inside the cable is connected to each Aura Ai-2 channel
- 3) Aura Ai-2 simultaneously pulses laser light down the sensing fibres connected to both channels and laser light reflections are disrupted by any disturbances/vibrations
- 4) Aura Ai-2 analyses light reflections and applies artificial intelligence algorithms to discriminate between intrusions and other disturbance causes
- 5) FFT CAMS monitoring software communicates intrusion detection and location to the user.

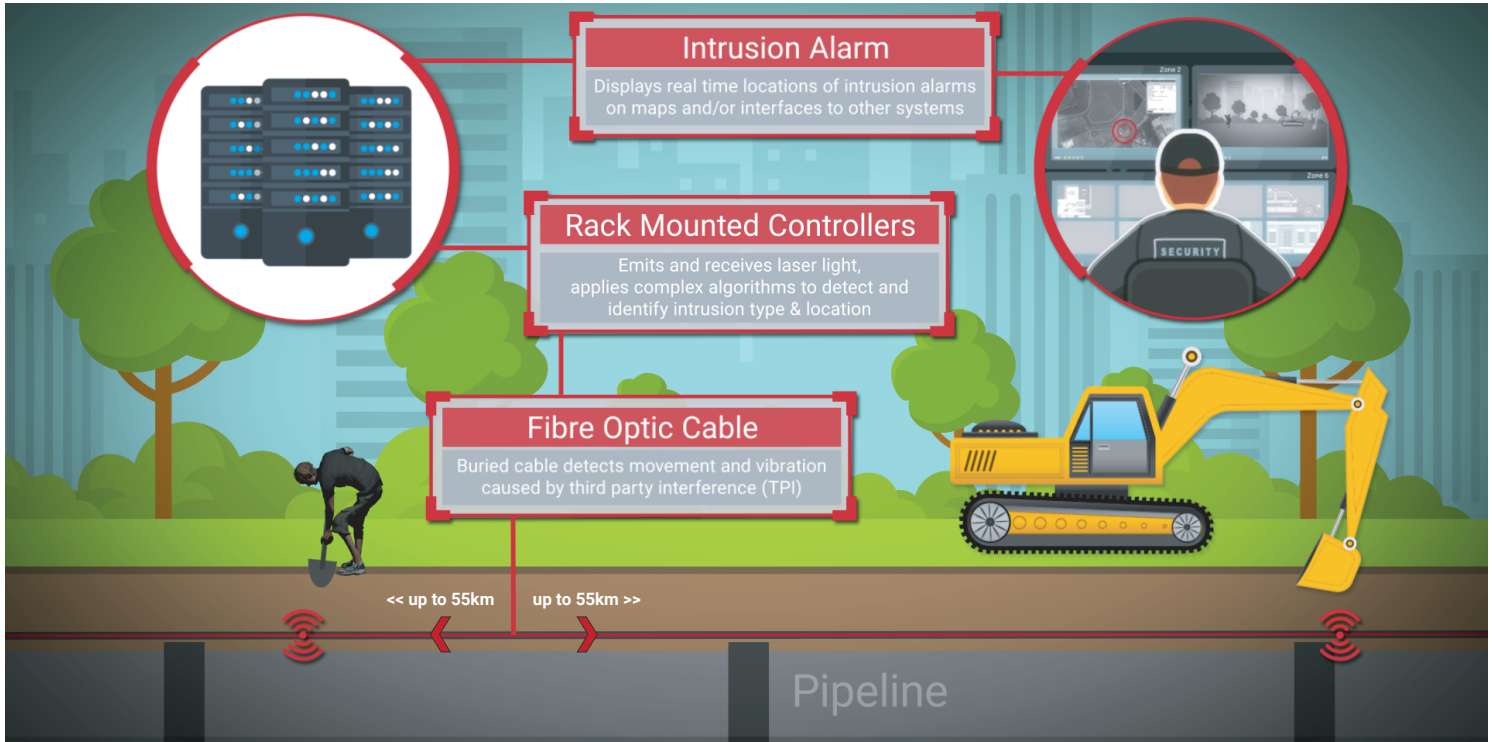


APPLICATIONS

› Oil Pipelines

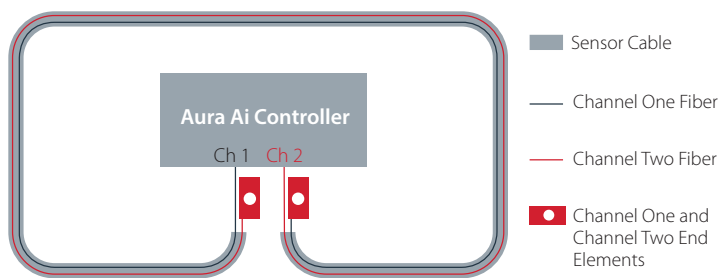
› Gas Pipes

› Water Pipelines



PROVEN NUISANCE ALARM RESISTANCE

Aura Ai-2 leverages over 15-years of real world experience in perimeter security and can operate in a range of environments. With industry leading real-time discrimination and classification techniques, Aura Ai-2 achieves the world's best nuisance handling capability while maintaining maximum sensitivity to intrusion events.



FULL CUT RESILIENCE

Even when a sensor fibre is cut or damaged, Aura Ai-2 continues to detect perimeter intrusions occurring between the controller and the cut. When sensor fibres are connected to two channels of the controller (or two controllers) in a redundant loop configuration, intrusions can be detected to within 10m (33ft) either side of the cut.

ABOUT AVA GROUP

Future Fibre Technologies is an Ava Group Company, a market leader of risk management services and technologies, 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 detection and location for perimeters, pipelines and data networks and biometric and card access control.



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