

FFT **Aura Ai-2**

ADVANCED, LONG DISTANCE, POWER CABLE PROTECTION

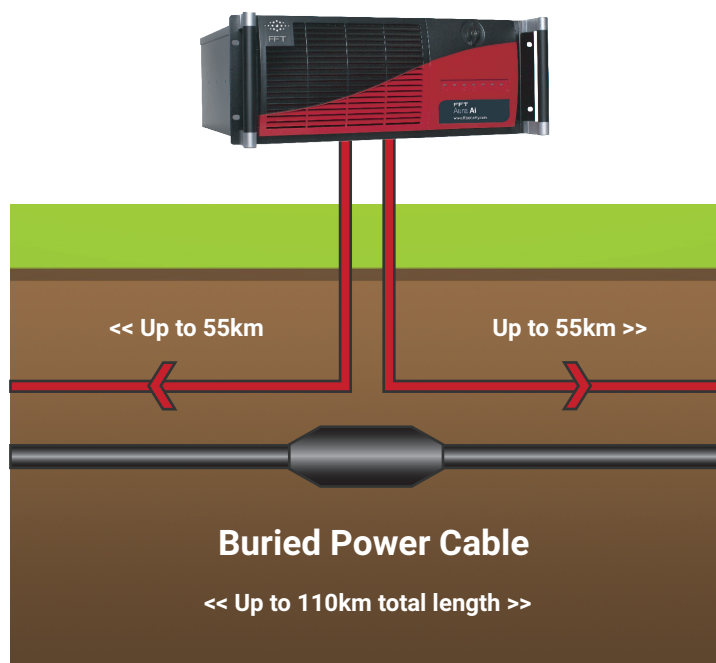
AURA AI-2 OFFERS SUPERIOR PROTECTION OF WALKING, MANUAL AND MECHANICAL DIGGING AND VEHICLE MOVEMENT. AURA AI-2 CAN DETECT, LOCATE AND REPORT POWER CABLE DISTURBANCES TO WITHIN $\pm 5\text{M}$ (17FT).

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

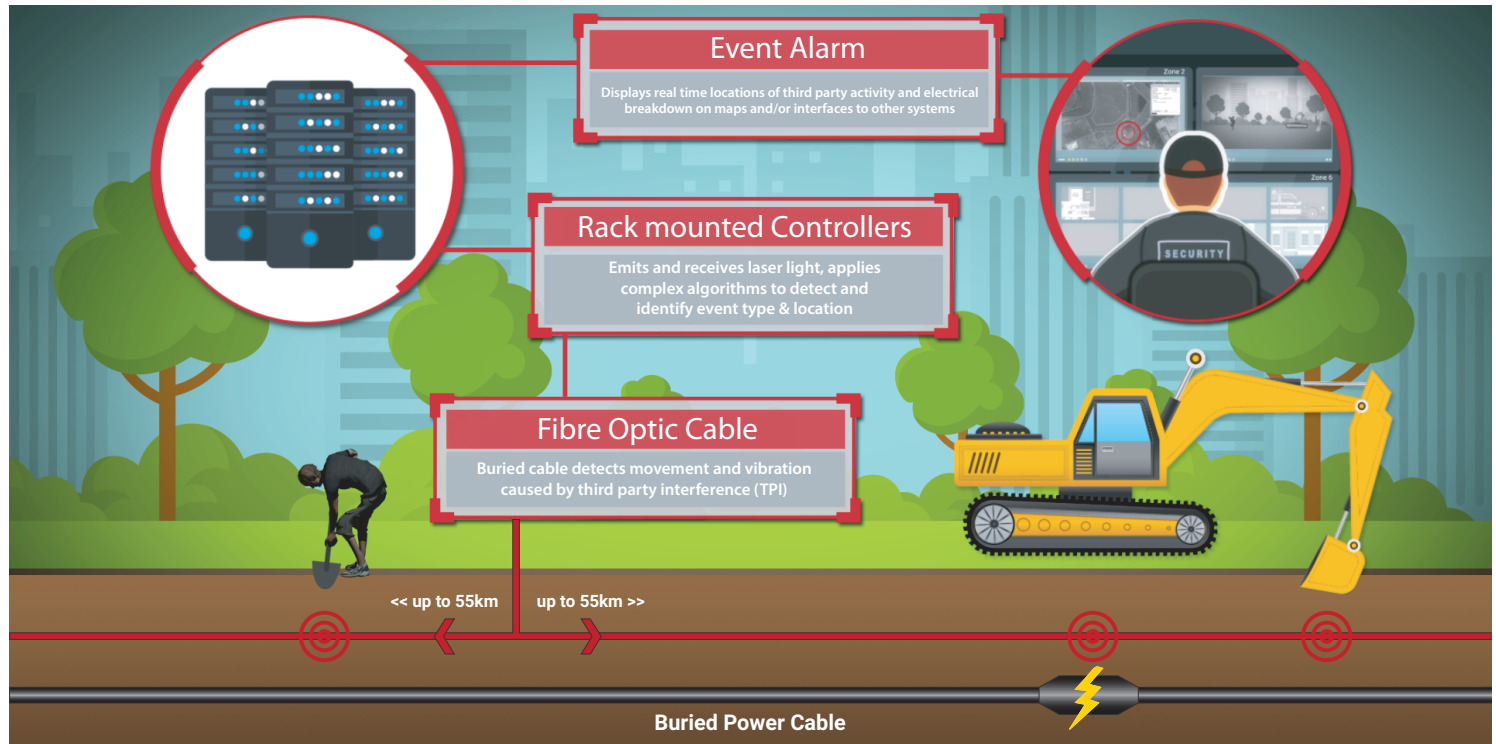
HOW IT WORKS

- 1) Existing fibre optic cables along the power cable 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 disturbance causes
- 5) FFT CAMS monitoring software communicates event detection and location to the user.



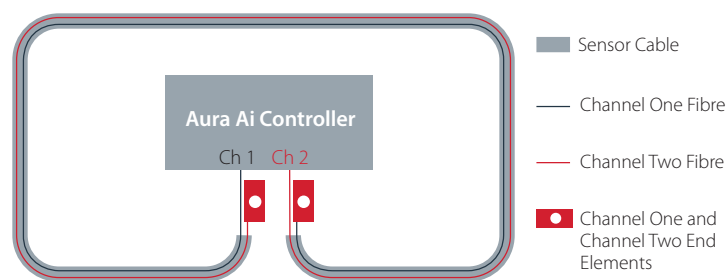
APPLICATIONS

› Buried Power Cables



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 events.



FULL CUT RESILIENCE

Even when a sensor fibre is cut or damaged, Aura Ai-2 continues to detect events 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, events can be detected to within 10m (33ft) either side of the cut.

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.