

High resilience intrusion detection

Applications

- Military bases
- Government facilities
- Critical infrastructures
- Buried assets
- Data cable infrastructure



FFT
Aura SR

Delivers both sensitivity and flexibility in intrusion detection applications.

FFT Aura™ SR provides complete perimeter intrusion detection. Fiber optic sensor cable can be mounted on a fence to detect climbing, lifting and cutting, and covertly buried to detect footsteps and digging. FFT Aura SR can also be used for network physical security. Connecting FFT Aura to a dark fiber inside a protected cable provides high sensitivity detection of data tapping and cable interference.

In addition FFT Aura SR can cater for critical sites demanding hardened solutions that require continuous operation in the event of a damaged or cut sensor cable.

FFT world leaders in fiber optic intrusion detection

www.fftsecurity.com



FUTURE FIBRE
TECHNOLOGIES

FFT Aura SR is sensitive enough to work on almost all fence types, as well as covertly buried in the ground. You can even deploy both installation methods simultaneously with the one system.

It caters for critical sites that demand a hardened intrusion detection solution. FFT Aura SR sets the standard for detection sensitivity and resilience.

The simple installation, reliability and maintenance free operation delivers a low Total Cost of Ownership (TCO).

Key Benefits

- » Provide high sensitivity detection of climbs, lifts or cuts using fence mounted sensor cable and detection of footsteps, digging or vehicles using buried cable. A single FFT Aura can provide both fence mounted and buried sensor based intrusion detection.
- » Protects data network cables against unauthorised cable access, data tapping, tampering and cable theft by connecting FFT Aura to a single dark fiber inside the protected cable.
- » Pinpoints the precise location of intrusion events to within 6 meters (20 feet) or better.
- » High resilience, high availability – FFT Aura SR will continue to work up to the point of a sensor cable cut, or when configured bi-directionally the sensor cable will continue to work to both sides of the cut point, providing full single cut protection.
- » Effectively interface to other FFT products, to more than 40 security, video and access control management systems, and to a wide range of third party devices via FFT CAMS™.
- » Peace of mind with FFT's two year warranty backed up by a global network of offices providing after sales support in more than 55 countries.

FFT Aura SR – Resilient fiber optic intrusion detection

About FFT

With more than 1,000 intrusion detection systems located around the world, including some of the most hostile environments on the planet, FFT has the proven real-world experience to deliver highly reliable yet cost-effective intrusion detection and location solutions.

Future Fibre Technologies' business is totally focused on the security industry.

FFT is the world leader in fiber optic intrusion detection systems and development of fiber optic sensing technologies for perimeter intrusion detection, network protection, and buried pipeline monitoring for third party interference.

How FFT Aura SR Works

This highly sensitive distributed acoustic sensing system sends a pulse of laser light along a single mode fiber optic sensor cable then monitors the light reflected back for any variations.

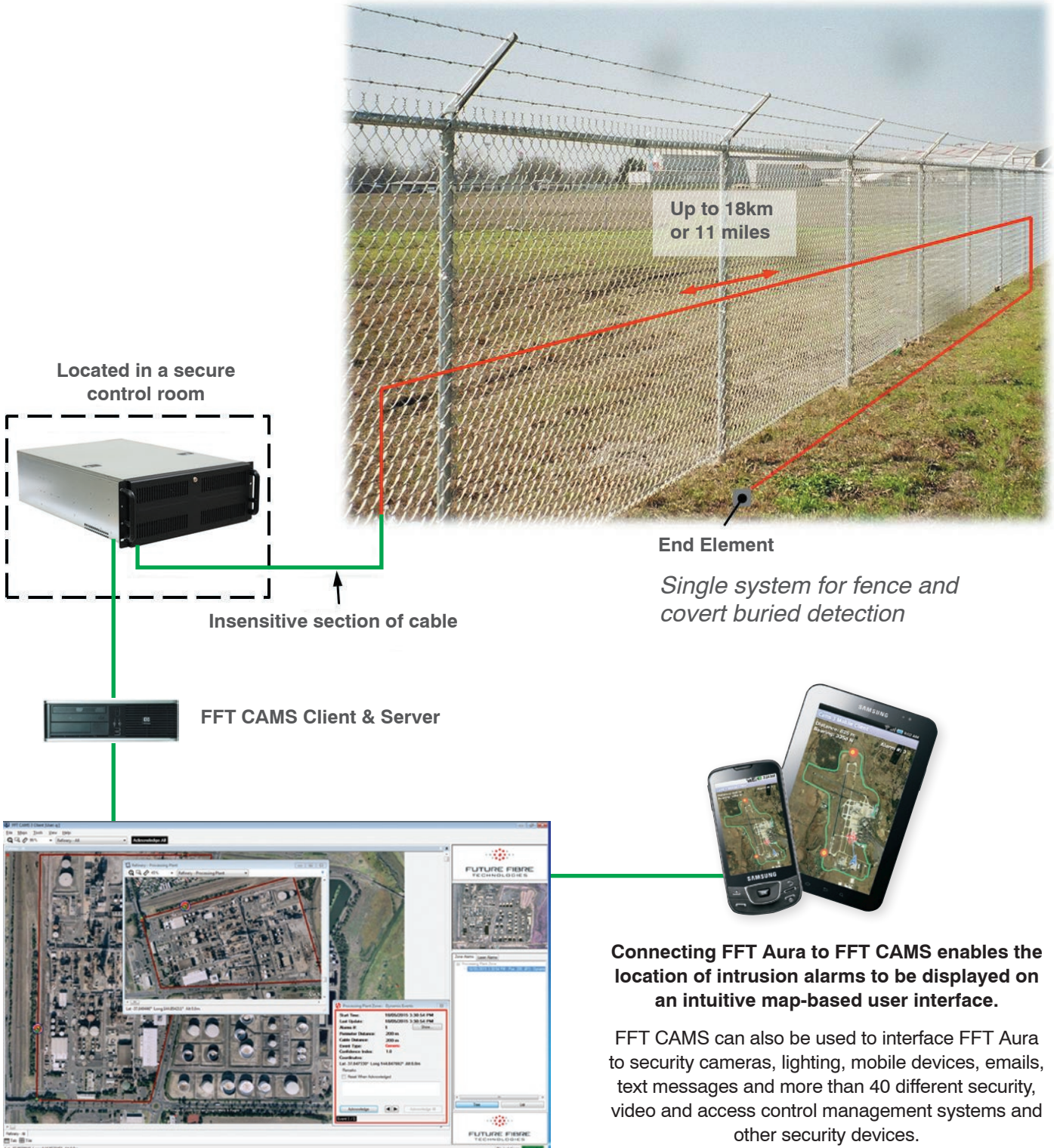
It is capable of detecting even the smallest vibration, movement, or pressure acting on the perimeter fence the sensor cable is attached to, or the ground it is buried in.

Event analysis is used to identify different events within the detected signal, differentiating between potential intrusions and environmental noise, removing those nuisance events while retaining legitimate intrusion information.



FFT Aura SR

Simple installation for fence and buried intrusion detection





- Locates intrusion to within 3m to 6m (10ft to 20ft)
- Single system for fence and covert buried detection
- No electronics or power in the field
- Sensor cable cut resilience
- Two year warranty
- Immune to EMI, RFI & lightning



FFT Aura SR Specifications

Fiber Optic Sensor	Custom UV stabilized single mode fiber optic sensor cable – expected life >20 years. FFT Aura SR will continue to work up to the point of a sensor cable cut, or when configured bi-directionally, the sensor cable will continue to work to both sides of the cut point, providing full single cut protection.
Sensing Configuration	Distributed sensor with 1500 measurement points per km and a maximum fiber length of 18km or 11 miles per controller. Can be inside a protected cable, mounted on a fence, buried in the ground, or both fence mounted and buried.
Location Accuracy	Within 3 to 6 meters (10 to 20 feet) depending on cable pattern and fence type, on FFT approved installations.
Detection Applications	Intrusions for all types of security fence including chain link, welded mesh, and palisade. Stealthy footsteps and crawling across a detection zone created with buried sensor cable. Interference with data network cables.
Buried Cable Detection	Depending on the installation quality and soil conditions, the system will provide detection of foot traffic up to five meters (15ft), vehicle traffic up to 15 meters (50ft) and machinery up to 20 meters (65ft) from the sensor cable.
Operating Temperature Range	FFT sensor cables: -30°C to +70°C (-22°F to +160°F) Rack mount controller: +5°C to +40°C (+41°F to +104°F)
Controller Dimensions/Weight	177mm H x 482mm W x 559mm D (7.0”H x 19.0”W x 22.0”D) 19” rack mounted, 4U high, weight 24kg (53lbs)
Electrical Specifications	Input voltage 115-230V AC, 50/60Hz, 260 watts typical consumption, 400 watts maximum. Note: All field installed components are passive and require no power, communications or electronics in the field.
System Interface	Interface (via TCP/IP and FFT CAMS) to more than 40 security, video and access control management systems and to a wide range of devices including security cameras, lighting, PLCs, SNMP, email and text messaging.
Warranty	Comprehensive two year warranty with ongoing warranty extension program available for the life of the product.
Seasonal Calibration	No seasonal calibration or adjustments required.

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Note: Specifications are subject to change without notice. For further technical information, please refer to your local FFT sales office.