

CASE STUDY: DEFENCE

MILITARY AIRBASE, INDIA



Following an armed terrorist attack on an air force base, the Indian Military initiated a pilot project to select an integrated perimeter security system for deployments at 23 air bases. The multi-layered solution includes an array of sensing technologies including fiber optic based vibrations sensors, ground radar, cameras and perimeter fencing - all integrated by a central command and control system to provide detailed real time situational awareness.

Background

With a perimeter length in excess of 20km, the buried covert fibre optic intrusion detection solution is designed to alert security of any potential intruders. The requirements included advanced warning of walking in the proximity of the perimeter, digging within 20 meters, or intrusion attempts through any of the 20+ drain gates. The customer also required the covert buried perimeter intrusion detection solution to integrate with the existing control and command system, which controlled CCTV on the air base. The closest CCTV camera to intrusion events then would be used to visually verify intrusion alarms along the perimeter wall.

Requirements

- ✓ Fibre optic covert buried intrusion detection solution
- ✓ Monitoring on drainage gates located on the perimeter wall
- ✓ Strict performance criteria including precise intrusion location
- ✓ Real-time alarm/event notification
- ✓ Integration with existing control and command software and CCTV
- ✓ High detection combined with Low Nuisance Alarms
- ✓ Immune to RFI/EMI and lightning

Our Solution

FFT Aura Ai-2 combined with FFT's custom Machine Learning analytics was demonstrated in customer trials to significantly outperform competitive solutions during testing

The final deployment selection was for covert buried sensing cable on the perimeter, while FFT Secure Points were used to monitor drain gates. All system were successfully commissioned along with FFT CAMS graphical user interface integration into the existing video management system.

Customer Response

To test the effectiveness of the perimeter intrusion detection solution, the customer conducted an extensive site testing program of FFT Aura Ai-2 and FFT Secure Point, during which intrusion simulations were conducted along all fence zones and drains. FFT Aura Ai-2 and FFT Secure Point successfully detected all intrusions and seamlessly communicated the information to the video management system which triggered the closest CCTV camera to verify the alarm. The customer is currently rolling out FFT's perimeter intrusion detection solutions across seven additional defence sites.



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