MS3

MOBILE SECURITY SURVEILLANCE SYSTEM

Mobile integrated system for rapid detection and tracking of airborne or ground threats, fully tailorable to support a variety of mission requirements.

DETECT. IDENTIFY. ENGAGE.

A rapidly deployable mobile tower with integrated radars, EO/IR video sensors, track correlation, communications, display and control, Trident's MS3 provides real-time surveillance, reconnaissance, and intelligence for area security and border protection. The MS3 incorporates a mobile tower and a sensor suite that provides the capability to detect, track and identify aircrafts, vehicles and dismounted individuals at significant ranges in challenging environments. Using Trident's Multi-Sensor Control Suite (MSCS) software framework, the MS3 is fully compatible with industry standard correlator/tracker systems and ready for rapid integration of various sensor. Network-based and modular, the MSCS framework allows sensors to cue each other, track targets, collect and display situational awareness data.

TRIDENT

www.tridsys.com
703-273-1012

10201 Fairfax Blvd Suite 300
Fairfax, VA 22030

Mobile Security Surveillance System (MS3)

Using the MS3, multiple cooperative towers linked by high speed data communications can be controlled by a single (or multiple) command center(s) or tower(s). MS3 supports EO/IR video sensor cueing in real time, using correlated radar track picture generated by multiple radar correlator systems. High-speed data links between towers align rapidly, and the MS3 supports external interfaces for two way real-time video and radar data sharing outside the MS3 network.

Specifications

Software Framework (MSCS):

- Network-based application which allows sensors cueing, slew-to-cue, target tracking, collection & display of situational awareness data.
- Open architecture application for integrating sensors (EO/IR, radar, etc.) and software into a common operating environment (modular, scalable)
- Operator can control/link interaction between radars & gimbal-mounted EO/IR sensors (automatic or manual)
- Single MSCS can control multiple wirelessly connects systems; multiple MSCS instances can be used simultaneously
- Integrates with existing correlator/trackers such as Raytheon Solipsys Multi Source Correlator Tracker (MSCT), SAIC Adaptive Fusion Tracker (AFT), or directly with radars

Mounting Options:

Most fixed or mobile towers including:

- Tower Solutions (multiple variants)
- US Towers (multiple variants)
- Fixed rooftops

EO/IR Sensors:

A variety of EO/IR Sensors including:

- L3 M14
- L3 Sonoma Eagle
- PVP Night Hawk/Night Hawk HD
- PVP MVSP
- FLIR CCFLIR/SeaFLIR II
- FLIR Navigator II

Radar Sensors:

A variety of airborne and ground Radars including:

- SR Hawk (V1, V3) Ground Radar
- SRC LCMR/LSTAR Counter-Mortar Radar (V2, V3)
- Koden Marine Navigation Radar
- SRC Gryphon R1400/R1410

Communication Links:

Most standard wireless communications links including:

- 802.11, 802.16 Data link
- Tactical Radios

Example Counter-UAS Variant:

- Tower: Tower Solutions STS-12 (Truck mount)
- EO/IR: PVP NightHawk HD
- Radar: SRC Gryphon R1410 with Gimbal
- Correlator: SRC AFT
- Software: MSCS
- Max Detection Range (Radar):
  - o 27km for manned system
  - o 10km for UAS
- Min size of UAS:
  - o Radar cross-section equivalent to the size of a bird
- Max Detection Range (EO/IR):
  - o 30km Soldier
  - o 50km Tank
  - o 5km UAS
- Resolution (EO/IR):
  - o IR: HD-SDI 720, 1080p
  - o EO: HD Visible 1920 x 1080