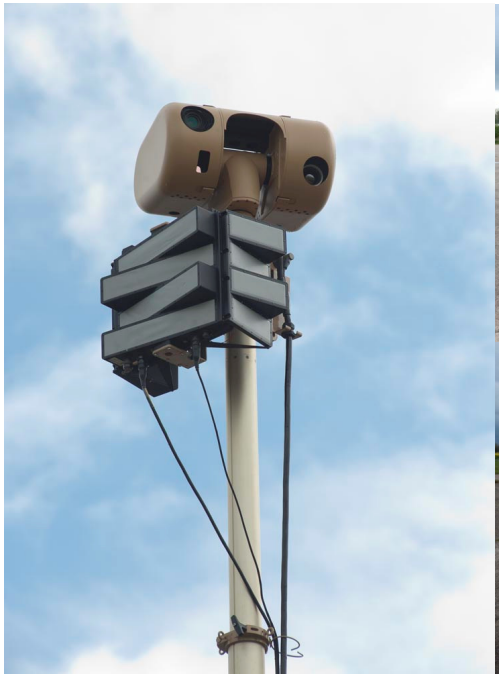
G-WASP

Ground-Wide Area Surveillance Platform



>> In today's uncertain world, where security threats are often difficult to predict, advance warning is critical to military and civil defence. WASP (Wide Area Surveillance Platform) provides the key to ensuring that intrusion threats to base perimeters are detected and communicated as early as possible in order that appropriate responses can be initiated without delay.

- >> 360° coverage, 24 hours a day and in all weather conditions
- >> Self-contained, compact system that can be deployed for over 40 days without re-supply
- >> Fully operational in under 30 minutes
- >> Mast-mounted optronic sensor head cued by a detection sensor for automatic threat alerting
- >> Optronic sensor head includes TI camera, TV camera, Laser Range Finder and Laser Pointer
- >> Detection sensors include radar, acoustic or visual
- >> Automatic information on position and bearing
- >> Rugged control suite capable of being remote from the system
- >> Control suite includes displays for imagery and Geographical Information System (GIS)

WASP
Wide Area Surveillance Platform

WASP provides a rapidly deployable, scaleable, trailer-based Force Protection system that can be towed by a wide range of vehicles. WASP can be deployed and made operational in under 30 minutes of arrival at the location requiring a surveillance and protection capability. The optronic sensor head and detection sensor are mounted on a pneumatic mast to allow visual obstructions to be overcome. The system can be operated by a single person and the integrated control and monitoring suite can be situated remotely from the trailer sub-system, fully exposed to the external environment.

WASP requires no prior preparation at the location of use and is fully self sustainable for a mission of over 40 days. WASP reduces the workload on the operator by automatically providing the location and bearing of the system on a Geographic Information System (GIS). The field of view of the visual sensors and the output from the detection sensors are also shown overlaid on the GIS. WASP can be set up in automatic mode, where the detection sensors cue the optronic sensor head, or can be controlled manually by the operator. A number of WASP trailers can be networked together to create a "virtual fence".

The optronic sensor head also includes a Laser Range Finder (LRF) to provide the grid location of points of interest and a laser pointer to highlight objects of interest to colleagues on the ground.

WASP continuously records the output from the TV and TI cameras, the GIS information and the metadata, such as date, time and location. This means that meaningful information can be retained for use at a later date.

WASP is extremely modular, which eases replacement of Line Replaceable Units (LRU) and also supports future upgrade of the system with products such as Unattended Ground Sensors (UGS) and effectors.

TECHNICAL PARAMETERS & OPTIONS

>> Thermal Imaging camera: Un-cooled TI to high-performance 3rd generation cooled TI

>> TV camera: Range of cameras to provide positive identification at extended ranges

>> Laser Range Finder: Eye-safe with range up to 10km

>> Laser Pointer: Visible and IR pointers available

>> Optronic Sensor Head: 360° azimuth rotation and +40° to -80° minimum in elevation

>> Radar: Range of radars to meet performance requirements (both static and moving radars)

>> Integrated GPS and automatic North-finding capability

>> Modular design eases maintenance, support and future growth

>> Growth: Acoustic sensors, visual detection sensors, UGS, integration with effectors

APPLICATIONS

>> Surveillance for temporary bases

>> IED clearance support

>> Border surveillance

>> Protection of construction sites

>> Protection of oil and gas infrastructure

>> Surveillance at major events

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