

UNATTENDED GROUND SENTRY NODE V2 SYSTEM

Latest generation Unattended Ground Sentry Node System; coupling leading edge RF technology with a reliable mesh protocol to deliver a long-lasting sensor network.



Trident's UGSN are compact, hand emplaced, networked sensor nodes that give you pinpoint surveillance, reconnaissance, and intelligence anywhere. Trident nodes are built tough, emplaced quickly, and designed for long-term remote unattended operation. They connect with cameras and other sensors, giving your forces in the field a critical tactical advantage. Trident's nodes are so alert, their wireless network can be used as an invisible "fence" for intrusion detection. Trident's latest generation nodes (UGSN-V2) provide dramatically increased throughput and lower latency for improved network performance. For sensor nodes that work from the fenceline to the front line, count on Trident Systems for the finest in force protection and surveillance.

Each system contains a series of Unattended Ground Sentry Nodes V2 (UGSN-V2), low profile and extender antennas, a rugged, handheld Wireless Node Controller (WiNC-V2) running Network Operations Tool software for system monitoring and control.

Unattended Ground Sentry Node V2 System



UGSN-V2

Data Rate:	80 Kbps Nominal Effective Mesh
Antenna:	Omni-directional whip (RF)
RF Range:	Up to 700m Clear Line of Sight
Encryption:	256-bit AES
Organic Sensors:	GPS, Accelerometer, Wireless Fence (optional)
Supported Sensors:	UGSN EO/IR Camera System, IR motion, acoustic, seismic, magnetic
Ext. Interfaces:	Ethernet, USB, Power, GPIO, RF
Battery Duration:	Dependent on power source and duty cycle,
Power:	50+ days on single BB-2590, four AA batteries, power over USB, 12-17 VDC external power
Temperature:	-30°C to 60°C
Size:	6.75" length x 5.65" width x 2.25" height (without antenna)
Intrusion Detection:	Tomographic detection; alerts operators when a moving object disrupts the mesh network.

WiNC-V2

Size:	7.9" x 3.7" x 1.4"
Display:	5" (800x480) Sunlight Readable
Tactical Pack:	Rugged nylon case
OS:	Windows
Software:	Network Operations Tool (Dismount Intelligence Situational Mapboard -DISM)



Network Operations Tool (DISM)

- Select and interrogate nodes for current status, alarms, etc...
- Capture and time-index imagery and sensor data for later analysis
- Monitor the node network's health and status: battery life, tamper indication, etc...
- Configure UGSN EO/IR Cameras and other sensors
- Manual control option for deployed nodes

Available Options:

- External Power Hardware for Extended Runtime
- Long Range UGSN Antenna Kits
- UGSN EO/IR Camera Systems

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