



GEOSPATIAL SYSTEMS, INC.



QUPID

Quick-reaction Perimeter Intrusion Detection

- Microwave security sensor system
- Self-contained, fully integrated receiver/emitter
- Rapid deployment, easy transport
- Continuous $\pm 45^\circ$ coverage at ranges out to 100 meters
- Detects vehicles, runner, walker, high and low crawlers
- Standard security system Form C (SPDT) Relay interface
- Intrusion, tamper and fault alarms
- Multiple units are easily cascaded to cover larger areas
- Low maintenance

The rapidly deployable QUPID sensor system is a low-cost, man-portable, completely self-contained perimeter intrusion and tracking sensor system. Comprised of a portable, light weight and ridged-mount tripod and sensor head, QUPID remotely monitors an area "beyond the fence" to extend your perimeter awareness, providing defense and protection of deployed fixed or mobile high risk assets. Utilizing ultra wide S band microwave RADAR technology, a single QUPID sensor protects a user-selectable, variable coverage area of over 7,800m² utilizing three zone range-gates to minimize nuisance alarms. Multiple QUPID sensors can be cascaded to form a complete circumferential perimeter network. Three user-selectable range-gate settings quickly tailor the sensor for optimal performance and detection of multiple threat scenarios including vehicles, slow moving, fast moving or low crawler intruders. Suitable for all weather/climate conditions, QUPID also monitors its performance and provides a high measure of tamper resistance. QUPID is the only low cost perimeter detection system of this type that detects low/belly crawlers out to 70m.

Specifications

- Four 2.0 to 2.4GHz S band microwave RADAR
- Low variable output of 5mW avg.
- Variable range gate selection at 30, 70 or 100 meters
- Over 7,800 sq-m coverage area
- Self calibrating, no moving parts
- 12VDC battery operation or 110/220VAC (with external PSU)
- Very low power (240 mA @ 12VDC)
 - Over 200+ hrs continuous operation on 12V battery
- All weather capability
- Operating conditions:
 - -30°C to $+60^\circ\text{C}$ (-22°F to $+144^\circ\text{F}$)
 - 100% Humidity
 - Unaffected by fog or rain up to 1 in/hr (2.54 cm/hr)

Low level microwave outputs are intrinsically and environmentally safe, well below FCC mandated typical exposure SAR (Specific Absorption Rate) guidelines. Typical applications include primary and supplemental perimeter fence monitoring and intrusion protection of fixed or mobile air- and ground-vehicle assets, law enforcement, nuclear reactor facilities, airports and remote water treatment facilities.

By Curtiss Wright Controls

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