

STS-350

PERIMETER SURVEILLANCE RADAR SYSTEM



Applications

- › Detect personnel, vehicles, watercraft, crawlers and swimmers
- › Monitor permanent or temporary installations
- › Guard reservoirs, nuclear facilities and critical infrastructure
- › Protect borders and perimeters
- › Safeguard flight lines
- › Secure villages

Features

- › Continuous wide area surveillance
- › Early warning of intruders
- › Low false alarm rate
- › Camera integration
- › Annunciator integration

Increasingly, security professionals are implementing wide area surveillance systems to meet today's security needs. The key component to these systems is radar, which detects intruders before they enter secured areas.

Responders can then react efficiently, and safely, while the radar continuously tracks the intruders, points a camera and scans for other threats.

The STS-350 is a portable, self-contained perimeter surveillance radar system which can be set up in about 10 minutes. It will operate in virtually any climate, weather or lighting condition to provide 24/7 security. Scanning 350 meters in all directions, one STS-350 covers an area of over 75 football fields. For larger areas, up to 24 units can be connected in an overlapping array. STS-350 is the only radar that detects and tracks crawling intruders.

STS-350 can be installed in a variety of ways, including portable for temporary deployment, permanently mounted in a fixed location, vehicle-mounted for patrol, and trailer mounted for rapid deployment or to secure a critical asset. With such versatility, the STS-350 provides automated perimeter security for encampments, flight lines, valuable equipment, ports, fenced compounds and practically any high value permanent or temporary site, such as crime scenes.

STS-350 users include all branches of the military, homeland security, energy, airports, police departments and port authorities.

Specifications

Operating Range	3.5 – 350m
Range Accuracy	3m
Detection Range	10-300m, Personnel running 10-350m, Personnel Walking 10-125m, Personnel Crawling 10-300m, Personnel Swimming 10-250m, Vehicles (29 m/s) 10-250m, Watercraft
Resolution	0.5 meter range, 3 degrees angle
Frequency	Ka Band
Scan Rate	1 revolution per second (60 rpm)
Antenna Beamwidth Azimuth & Elevation	3 degrees (2-way)
Input Power of Sensor Module	11.5 to 18 VDC, 30 Watts
Communications	RS-485, fiber optic, wireless
False Alarm Rate	Less than 3 per 24 hours
Battery Powered Operating Time	12 – 20 hours, dual battery unit
Transmitter Power	Safe for human exposure
Masking Zone(s)	0° to 360° and 0 to 350m
Dimensions	38.1cm w x 38.1cm d x 88.9cm h (sensor, battery, & support assembly)
Weight	Sensor Unit Stand: 18kg (40 lbs) Battery Unit Stand (1 battery): 15kg (32 lbs) Battery Unit Stand (2 batteries): 22kg (48lbs) Support Assembly: 5.6kg (12lbs)

Environmental

Temperature	-30 to +60°C operating -40 to +100°C storage
Humidity	0 to 95% RH non-condensing (60°C max)
Altitude (feet above sea level)	500 to +14,000, operating 500 to + 40,000, storage
Vibration	10 to 1000 Hz, 4.3g rms, shaped random, one hour per axis
Shock	20g peak for 20ms, half sine
Wind	100kph (60 mph) max



 **zone**
ADVANCED PROTECTION SYSTEMS

Unit 8/10 Gladstone Rd, Castle Hill NSW 2154
PO Box 6421 BHBC NSW 2153
P: +61 2 9634 9700 F: +61 2 9899 2705
E: info@zoneaps.com W: www.zoneaps.com

