



DroneGuard 500

Advanced Directional Detection with Extended Endurance

DRONE GUARD

The DroneGuard 500 is a portable, multi-band UAV detection system designed for field deployment or stationary installation, delivering superior situational awareness in real time. Building on the proven success of the original DroneGuard, the 500 model introduces two major enhancements: a built-in high-gain directional antenna for determining the threat direction and extended battery autonomy of up to 16 hours. Compact, rugged, and IP65-sealed, it is engineered to withstand harsh environments and operate day or night, in any weather condition. DroneGuard 500 functions as a real-time scanning and notification system, automatically scanning 0.9 GHz, 1.2 GHz, 2.4 GHz, and 4.9–6.0 GHz bands in under 10 seconds. Key operational alerts are delivered via visual, sound, vibration, or audio cues, with output adaptable to headphones or speaker systems via a 3.5mm audio jack for both discrete and group notifications.

The DroneGuard 500 offers greater detection range and faster signal acquisition than conventional portable spectrum analyzers, and its builtin directional antenna significantly enhances threat localization and engagement response time. Designed for military units, security teams, and critical infrastructure protection, the system is a powerful force multiplier in counter-UAS operations.

When paired with electronic warfare (EW) systems, the DroneGuard 500 enhances jamming efficiency by pinpointing the strongest signal source, triggering automated response actions for maximum protection. Trusted by frontline operators and tested in combat-simulated conditions, this device enables rapid threat detection, direction finding, and coordinated countermeasures—all in one compact unit.

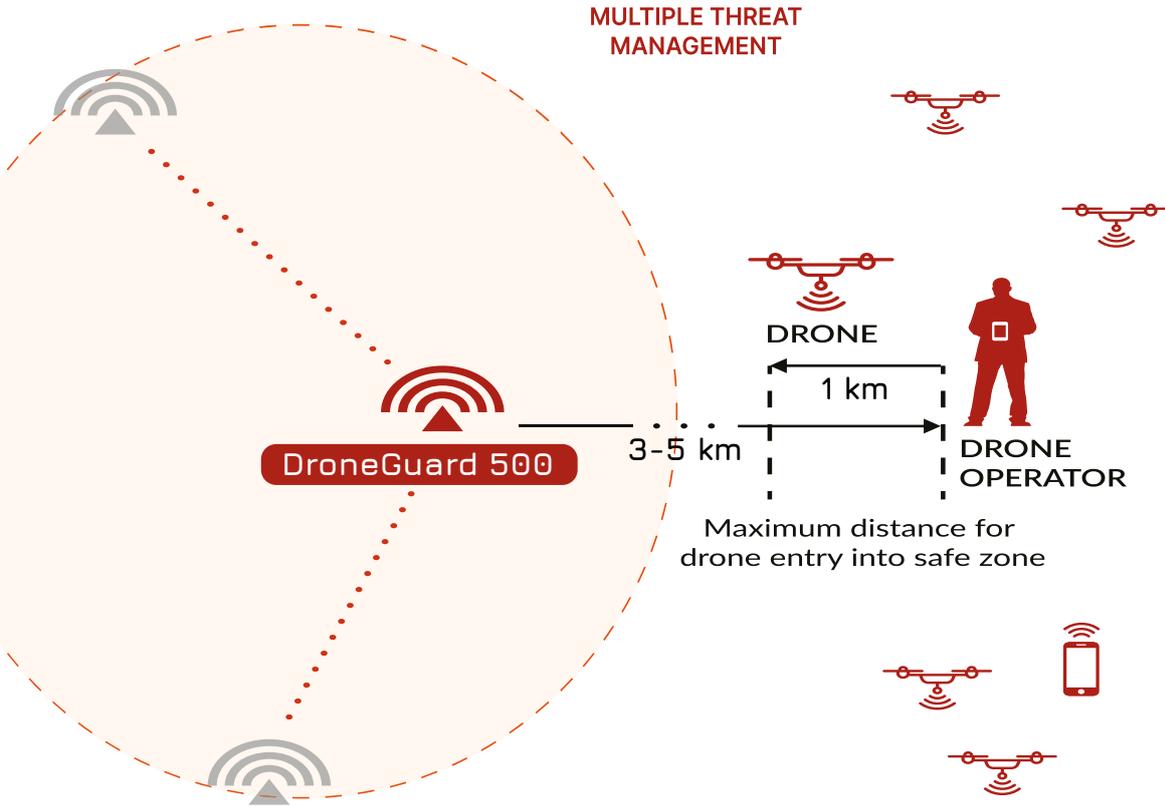


Features and Benefits

- Extended detection range up to 5 km, with effective altitude capture
- Rugged design (IP65) for reliable use in battlefield or static deployments
- High-precision directional antenna for threat vectoring
5-Channel: .9, 1.2, 2.4, 4.9, 5.8 Ghz
- Real-time RF threat alerts, displayed and transmitted via multimodal alerts
- Operates autonomously for up to 16 hours, with USB-C powerbank
- Integration-ready with EW systems and anti-drone guns
- Supports signal triangulation when deployed in networked arrays
- Optimized for signal-dense, contested environments

DroneGuard 500

Advanced Directional Detection



SPECIFICATIONS

PHYSICAL

- » Dimensions (h, w, d) 17.5 cm x 22.5 cm x 8 cm
- » Volume (with battery) 3150 cm³
- » Weight (with battery) 1450 g
- » Color/Finish tan/green

ENVIRONMENTAL

- » Temperature Operating: -22°F to 131°F (-30°C to +55°C)
- » Storage: -40°F to 185°F (-40°C to +85°C)
- » Immersion 20 meters

INTERFACES

- » Data USB 2.0
- » Audio
- » Antenna Ports 0
- » Programming USB 2.0
- » Key Fill DS-101
- » Function Knob FP and 15 Presents
- » Off/Load/Z/Volume/Mechanical Interlock

ALERTS

- » Light, Haptic, Sound

RECEIVER

- » Sensitivity 860-5945 Mhz

POWER

- » Power Input 9.6 to 34.3 VDC
- » Battery Type Rechargeable lithium-ion battery (included)

SECURITY

- » Encryption SAE 256

GENERAL

Frequency Ranges

- » 0.9 Ghz (860-928 Mhz) Zala, Lancet, Orlan
- » 1.2 Ghz (1080-1360 Mhz) FPV, Zala
- » 2.4 Ghz (2400-2520 Mhz) Mavic, Autel
- » 4.9 Ghz (4990-5200 Mhz) FPV, Autel, Zala
- » 5.8 Ghz (5645-5945 Mhz) FPV, Mavic, Autel

AdlerAerospace
sales@adleraerospace.com
Jackson, WY USA 83001-4555
tel.+1 (812) 340-3517

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