

DroneGuard 500

ADLER AEROSPACE



Advanced Directional Detection with Extended Endurance

5-Channel Fully Automatic Detecting



Built in Direction Finder

Features and Benefits

• 5-Channel: .9, 1.2, 2.4, 4.9, 5.8 Ghz

• Real-time RF threat alerts, displayed and transmitted via multimodal alerts

• Integration-ready with EW systems and anti-drone guns

• Supports signal triangulation when deployed in networked arrays

• Optimized for signal-dense, contested environments

• 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.

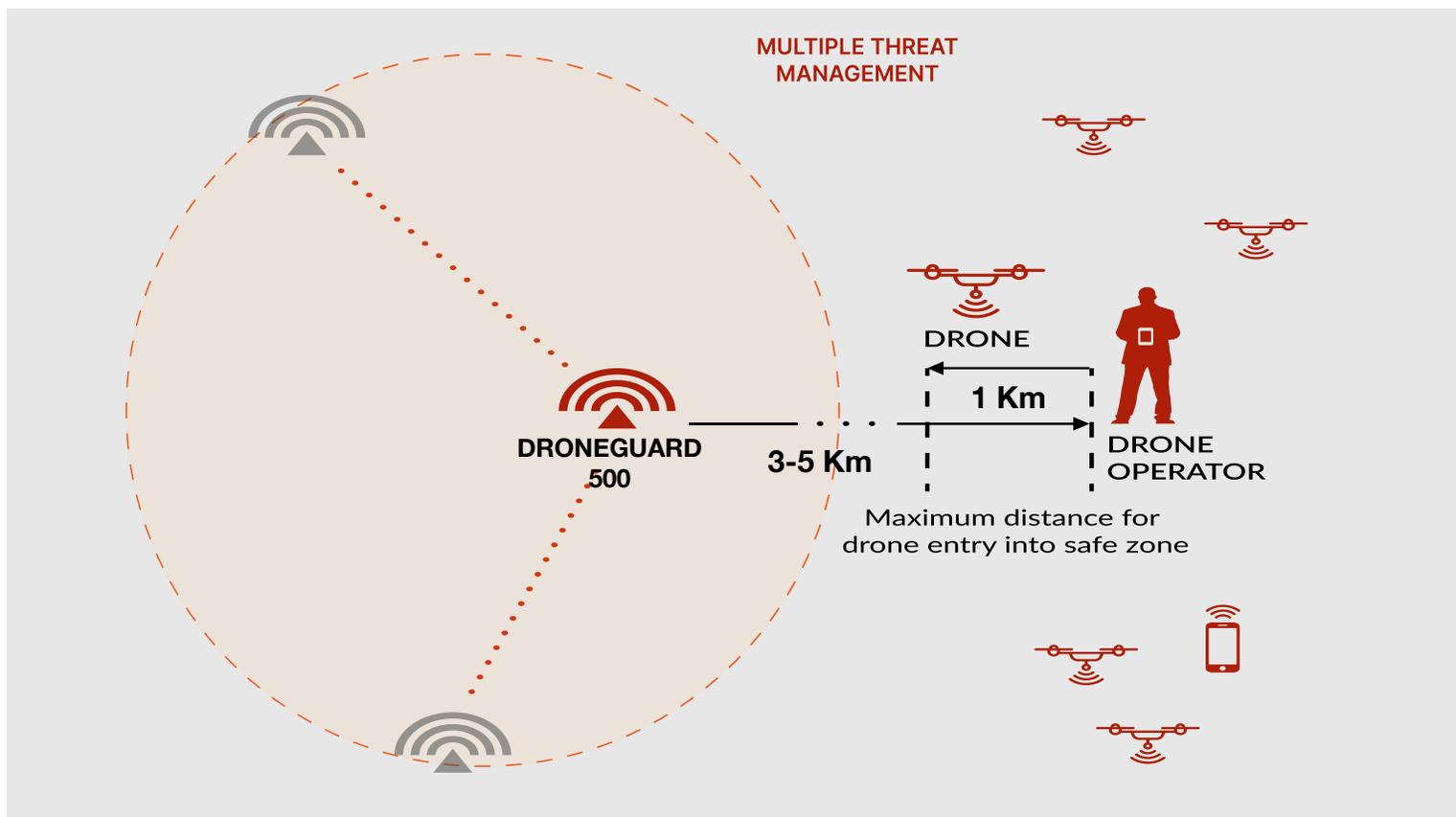
The DroneGuard 500 is a portable, multi-band UAV detection system designed for field deployment or stationary installation, delivering superior situational awareness in real time. Building on the proven success of the original DroneGuard, the 500 model introduces two major enhancements: a built-in high-gain 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 built-in 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. Tested 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.

DroneGuard 500

Detecting Threats - Saving Lives



PHYSICAL

Dimensions	17.5 cm (h) x 22.5 cm (w) x 8 cm (d)
Volume (with battery)	3150 cm ³
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

GENERAL

Frequency Ranges	Ghz	Mhz	UAV Type
	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

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

POWER

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

SECURITY

Encryption	SAE 256
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ALERTS

Type	Light, Haptic, Sound
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RECEIVER

Sensitivity	860-5945 Mhz
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