Wearable Drone Detector
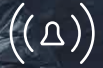
Radio Frequency-based, light-weight and portable drone detection devices for dismounted soldiers.

EXTREME TEMPERATURES

ALARMS PROVIDED

CONTINUOUSLY UPDATED

WATERPROOF IP67

LONG RANGE DETECTION

Scan to see all products

Distinctive advantages

→ **PROVEN RELIABILITY**
Drone detection actively deployed by soldiers on frontlines, e.g. Ukraine.

→ **EASY TO USE**
Enables soldiers in intense combat to focus on primary tasks.

→ **LOW SIZE, WEIGHT AND POWER**
With high performance, minimise soldier load and maximise mobility & agility.

→ **ATAK-COMPATIBLE '(Open Architecture)'**
Enhances operational effectiveness, efficiency, and provides team situational awareness.

Wingman 103

Wingman 105

Wingman 103 & 105 RF Detectors

Wingman is a portable, ruggedised wearable drone detector designed for military, law enforcement, and security professionals. It detects and tracks unauthorised drones, providing early warnings of UAV activity.

We offer two types of drone detectors: the Wingman 103 and the Wingman 105. The Wingman 103 uses an external battery for extended runtime and uninterrupted operation, while the Wingman 105 has an internal battery for a lighter, more portable design.

Both detectors have dual operational modes. In detection mode, they continuously scan for drone signals, providing constant situational awareness. In direction-finding mode, they deliver precise alarms based on signal intensity with up to 30 degrees accuracy.

Visualisation Powered by ATAK
The Wingman seriesis ATAK compatible through an open digital architecture, enhancing situational awareness through real-time communication and alert distribution. Designed for ease of use, rugged reliability, and exceptional performance, the Wingman is trusted by soldiers and security personnel to detect, locate, and respond to drone threats efficiently, maintaining focus and mobility in challenging environments.

DIRECTION FINDING
With accuracy within 30°

PASSIVE DETECTION
Enables operators to remain undetected

DETECT DRONES & CONTROLLERS
For comprehensive awareness of the threat

EXTENSIVE DRONE LIBRARY
Enables accurate classification and low false positives

SOFTWARE FIELD UPGRADES
Enables product evolution without costly hardware upgrades

Specifications

	Wingman 103	Wingman 105
Detection Time / Detection Range	< 10s * / Up to 6 km - 3.73 miles *	
Detection Frequency Bands / Detection Frequency Bands with Wideband Antenna	2.4, 5.2, 5.8 GHz / 350–1300 MHz, 2.4 GHz (2400–2500 MHz), and 5 GHz (5000–6000 MHz)	
Detection Coverage Angle / Detection Coverage Angle with Wideband Antenna	Horizontal 90° - Vertical 90° / Omnidirectional 360°	
Detection Notification	Sound, light, haptic	
Operating Temperature	-30°C to 65°C / -22°F to 149°F	
Dimensions Including Battery	243 x 90 x 75 mm / 9.57 x 3.54 x 2.95 in	
IP Rating	IP67	
Colour	Desert / Black	
Dimensions	244 x 96 x 54 mm / 9.6 x 3.8 x 2.13 in.	154 x 90 x 60 mm / 6,6 x 3,5 x 2,4 in.
Weight	Including battery 1110 g / 39 oz.	840 g / 30 oz.
Power Supply	External battery AN/PRC-148/152	Internal rechargeable battery
Battery Life	14 Hours	7 Hours
Battery Life with Wideband Antenna	10 Hours	6 Hours
Battery Charging Time	1-2 Hours	
Battery Charging Temperature	See specs. from manufacturer	-0° to +45°C / -22° to +113°F
Related Products	MyDefence Pitbull 101 Jammer PN 90100086 / 90100025	

* Depending on the RF environment & line of sight