



WATCHDOG

Ruggedized, direction finding RF drone detector for networked installations.

WATCHDOG 250 (WD250) is a networked RF sensor capable of detecting control- and video signals from UAVs (drones) and controllers for a broad range of commercial and do-it-yourself (DIY) drones. It provides alarms and bearing (direction) to the drone as well as information on drone model, protocol, and vendor.

Parameter	Specification	Condition
Coverage angle - Azimuth	90°	With bearing estimation
Coverage angle - Elevation	90°	3dB beamwidth
Accuracy of direction finding	5° RMS	Line of sight
Sensor installation elevation	Typically 10-25°	
Frequency ranges*	2.4 GHz, 5.2 GHz 5.8 GHz	
Operating temperature	-40°C to +60°C	Natural convection
Surface	Black CARC-type paint	
Time & location sync.	Internal GPS antenna	
Connection	Gigabit ethernet	Custom connector
Mil Specification	MIL-STD-810G	Qualification in progress
EMC Specification	MIL-STD-461F	Qualification in progress
Size	180mm x 180mm x 75 mm	Including vibration mount
Weight	1900g	Including vibration mount
Power Supply	Power Over Ethernet (PoE) < 15W	
IP rating	IP68	2 meters, 6 hours

*For extended frequency range: Add a WD150 to cover also 410-470 MHz and 850-1300 MHz.

When combining multiple sensors, the bearing information can be used to triangulate the geolocation of the drone or controller. WD250 is functionally similar to Watchdog WD200 but ruggedized for use on military and civilian vehicles. The Watchdog WD250 is designed to withstand vibration and shock of military vehicles along with a range of harsh environmental conditions including dust, salt, and solar radiation. MIL-STD-810G qualification is currently ongoing.

Watchdog WD250 employs enhanced electromagnetically shielding to avoid radio frequency emission and complies with MIL-STD-461. WD250 has external grounding connection point for enhanced safety.

WD250 is powered by PoE and is fitted with the vibration dampening mount, which makes it easy to install. It can be operated from MyDefence Iris or integrated into existing C2 systems through MyDefence Argos.

WD250 is functionally similar to our original Watchdog, but ruggedized for use on military and civilian vehicles. The WD250 is designed to withstand vibration and shock of military vehicles along with a range of harsh environmental conditions including dust, salt and solar radiation.

With our constant focus on reducing SWaP (Size, Weight and Power consumption), the WD250 is developed to be small, light, and power-efficient at a cost-effective price.

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