

# RF-300

RF Classification Sensor  
with Direction Finding



## OVERVIEW

### Detection and Classification of Drone-Based Threats

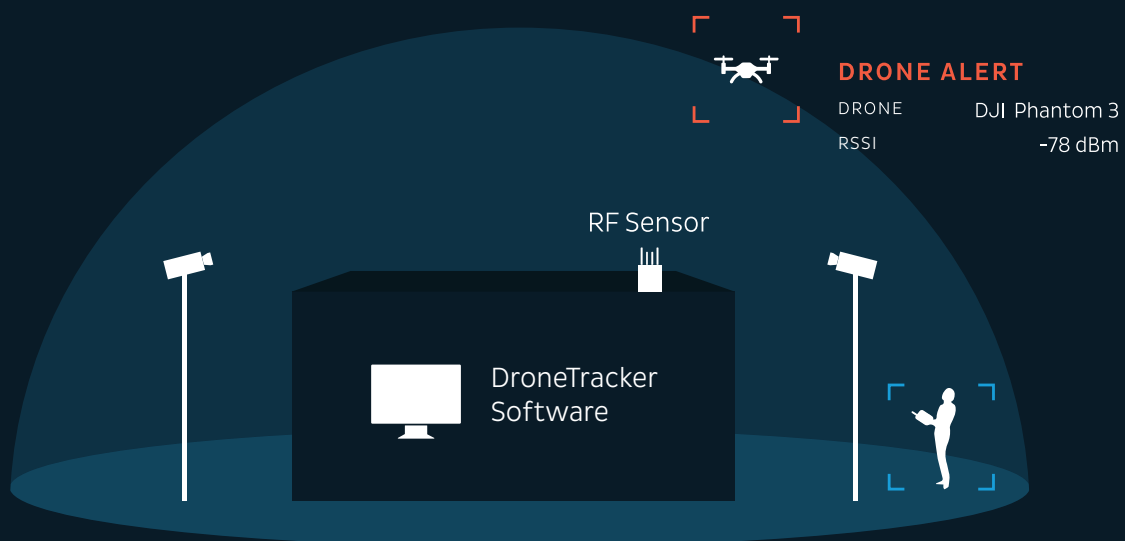
The RF-300 is a passive, network-attached radio sensor for the detection, classification, and direction finding (localization) of drones and their remote controls. The RF Sensor detects consumer, commercial, and hobbyist drones.

### Direction Finding and Localization of Drones and Pilots

Through internal digital signal processing of radio signals, the RF-300 identifies the direction or position of signals from drones and pilots, and sends data to the DroneTracker software.

## HIGHLIGHTS

- Detects RF, WiFi, and non-WiFi drones
- Classifies drones by manufacturer, model, and unique ID
- Direction-finding locates drone and pilot
- Classifies intruders and tracks repeat offender drones
- Broad frequency range with dual-radio design
- Approximate coverage range 1 mile (depends on terrain)
- Ruggedized form factor for extreme environments
- IP65 rating
- Single connection Ethernet and power (PoE+)
- Connects to DroneTracker software (cloud-hosted or on-premise)
- Mounting hardware included



Complete Airspace Security

## FEATURES



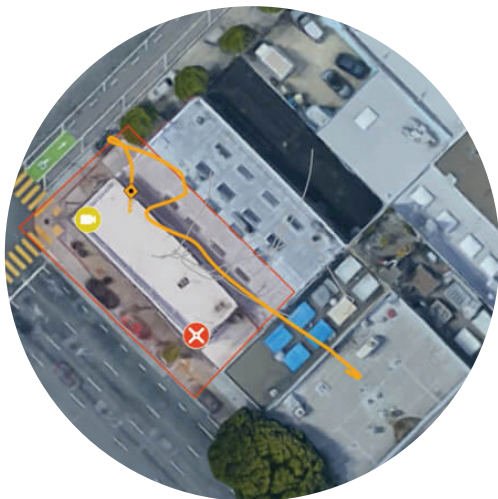
### Broad Coverage for Detection of Drone-Based Threats

Using two radios and leveraging Dedrone's DroneDNA signature library, the RF-300 detects, classifies, and alerts on drones and remote controls.



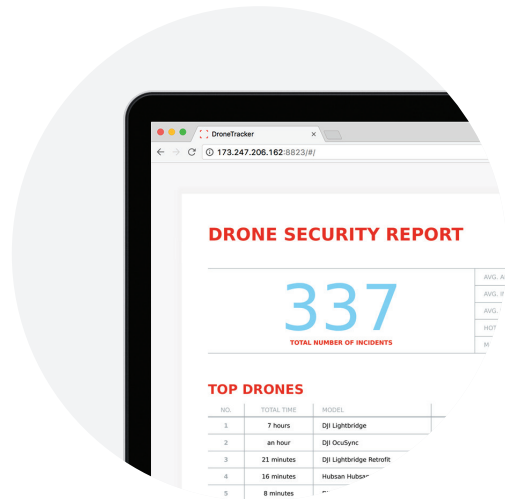
### Drone and Pilot Localization

Using technology previously only available in military-grade solutions, the RF-300 makes sensitive measurements of radio signals to determine their source. With two or more RF-300s, the location of drones and pilots can be pinpointed in real-time, providing immediate risk assessment.



### Cornerstone of Airspace Security

Like Dedrone's RF-100, the RF-300 collects essential data on drone activity, including the frequency and time of incidents and classifications such as manufacturer and model. Following Dedrone's layered approach to security, the RF-300 augments the RF-100, video-based detection, and other sensors.



### Works with DroneTracker Software

The RF-300 connects to Dedrone's DroneTracker, a software platform that analyzes data from multiple sensors, sends alerts, generates reports, and triggers countermeasures. DroneTracker includes Dedrone's DroneDNA, a library of drone signatures that is frequently updated to detect the latest drones.

## SPECIFICATIONS

RANGE (LINE OF SIGHT)	Up to 0.65 mi (1.0 km) In ideal conditions up to 1.0 mi (1.5 km)
ACCURACY OF DIRECTION FINDING*	±5° (mean error)
DEVICE TYPE	Sensor
RADIO FREQUENCY	Omnidirectional passive detection, classification, and direction finding
DIMENSIONS (L X W X H)	7.7" x 3.7" x 14.4" (195 mm x 95 mm x 365 mm)
WEIGHT	6.8 lb (3.1 kg)
INGRESS PROTECTION RATING	IP65
OPERATING TEMPERATURE	-4 °F to +131 °F (-20 °C to +55 °C)
POWER SUPPLY	PoE+ (IEEE 802.3at)
POWER CONSUMPTION	18 W (typical)
CONNECTIVITY	Via LAN to existing IT infrastructure
CONFIGURATION, OPERATION, AND ALARMS	Via DroneTracker software (requires software version 3.1 or greater)
SOFTWARE UPDATES	Firmware and DroneDNA updates via cloud-based connection

\* Direction finding available only in the 2.4 GHz band.

## ORDERING INFORMATION

RF-300 RF SENSOR	RF-300-HW	RF-300 RF and WiFi classification sensor with direction finding
RF SENSOR LICENSE (1YR), RF-300	RF-300-1YR-SW	Includes DroneTracker software, on-going feature enhancements, DroneDNA updates, and support for 1 RF-300 RF Sensor
RF SENSOR LICENSE (3YR), RF-300	RF-300-3YR-SW	Includes DroneTracker software, on-going feature enhancements, DroneDNA updates, and support for 1 RF-300 RF Sensor
RF SENSOR LICENSE (5YR), RF-300	RF-300-5YR-SW	Includes DroneTracker software, on-going feature enhancements, DroneDNA updates, and support for 1 RF-300 RF Sensor