

Features

- ✓ Real-time detection of drone RF transmissions
- ✓ Also detects the remote controller of the drone
- ✓ Detection range similar to the usable distance from the operator to the drone
 - ✓ Drone type identification (e.g. DJI Mavic)
 - ✓ High tracking accuracy of up to 10°
- ✓ Early detection (as soon as drone turned on)
- ✓ Low false positive rate (e.g., doesn't detect birds nor balloons)
- ✓ Covers the 2.4 GHz & 5 GHz frequency ranges
 - ✓ Works in an urban area
 - ✓ Up-to-date database of drones
- ✓ Addition of custom drones per clients request
 - ✓ Built-in GNSS and compass modules
- ✓ Geolocation with multiple detector systems
 - ✓ Integrated ADS-B receiver
 - ✓ Integration with jammer systems



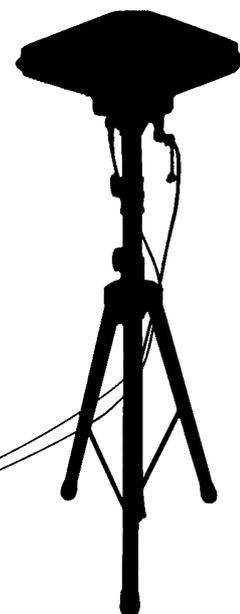
REAL TIME DATA
ANALYSIS SOFTWARE



RADIO
FRONT-END



RF TRACKING ANTENNA



Overview

Rantelon's drone detection system DTS-2458 is based on directional real-time measurement of the RF emissions of the drone and its remote control. It warns the operator when drones are in the vicinity. The system has no limitation regarding the detection range but it is usually comparable to the maximum distance between the drone and the remote controller, i.e. the detection range is dependent on the transmitter power of the drone. The system detects the RF emissions as soon as the emitting device is turned on, allowing to detect the drone before it has taken off. Furthermore, because the system is based on detecting electromagnetic emissions, it is not affected by other flying objects such as birds or balloons. In addition to detecting the direction and presence of the drone, the system is also capable of detecting the direction of the remote controller. The system consists of a tracking antenna, radio front-end and analysis software. Multiple detector systems can be connected together for accurate geolocation of drones and remotes. The system can also be integrated with other Rantelon jammers.

System Specification

Mechanical and Environmental	
Antenna dim. (w/o stand)	230 x 230 x 150 mm
Case dimensions	56 x 46 x 26.5 cm
Antenna weight	1.5 kg
Case weight	14 kg
Storage temperature	-30 to +50°C
Operating temperature	-20 to +40°C

RF and Electrical	
Frequency bands	2.4 GHz 5.8 GHz
Tracking accuracy (LOS)	5° to 10°

