

RYDEROO : SD360LR Drone Detector with Direction Finder

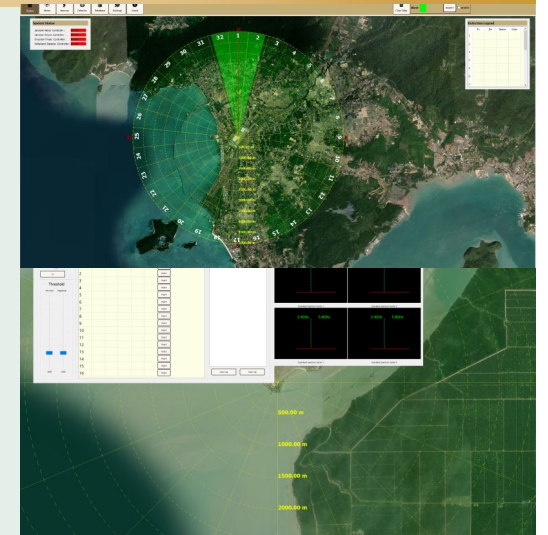
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Ryderoo Ltd.

A pioneer in Radio Frequency Machine Learning (RFML), Ryderoo uses RFML to enable signal detection, estimation, and classification. RFML-based systems outperform conventional signal-processing methods in signal detection and classification. Ryderoo develops innovative products using RFML such as drone detectors, mobile phone(4G,5G) detectors, and systems for RF fingerprinting & spectrum anomaly detection.



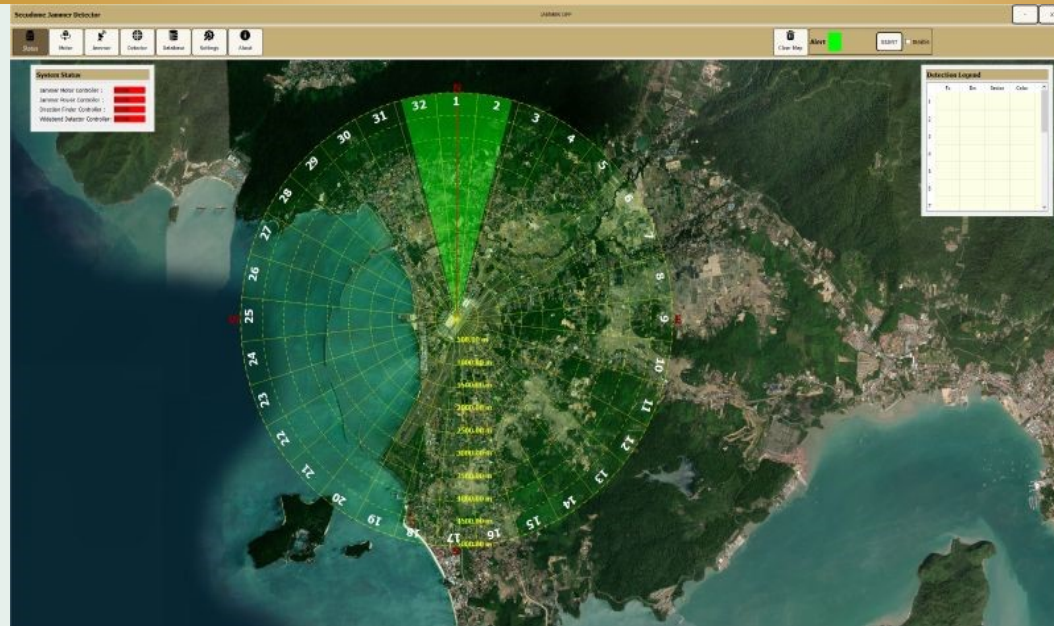


SD360LR

SD360LR offers Long Range Detection of Drones approaching sensitive areas such as Airports, Refineries, and other Critical Infrastructure Facilities. SD360LR is based on Software Defined Radio (SDR) architecture which makes the system “Future Proof” by enabling easy upgrade of drone signatures in future

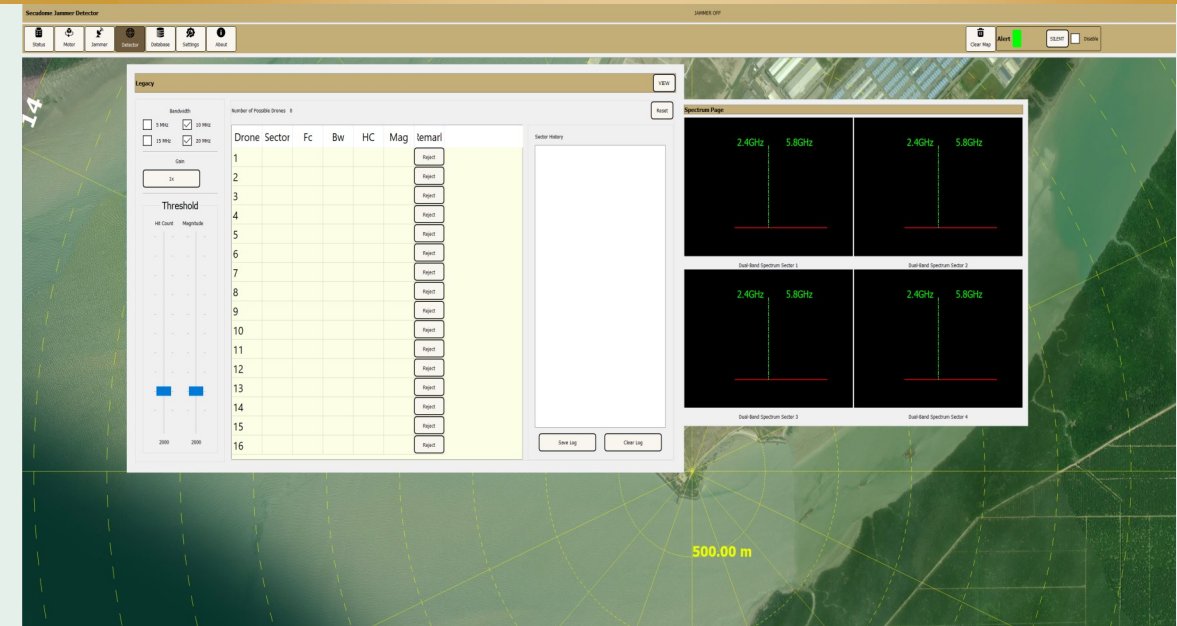
Features

- 4000m-500m detection radius
- Azimuth location of 32 sectors or more
- Provides real-time tracking of drones
- Simultaneous detection of multiple drones
- Easy integration with Radar, Camera & Jammer
- 70 MHz– 6000 MHz detection frequency range
- SDR based architecture for easy upgrade in future
- AI based detection algorithm for very low false alarm
- Low power consumption, AC/DC supply for 24/7 operation
- Multiple drone detection & accurate direction finding
- Rugged IP65 dust and rain proof casing



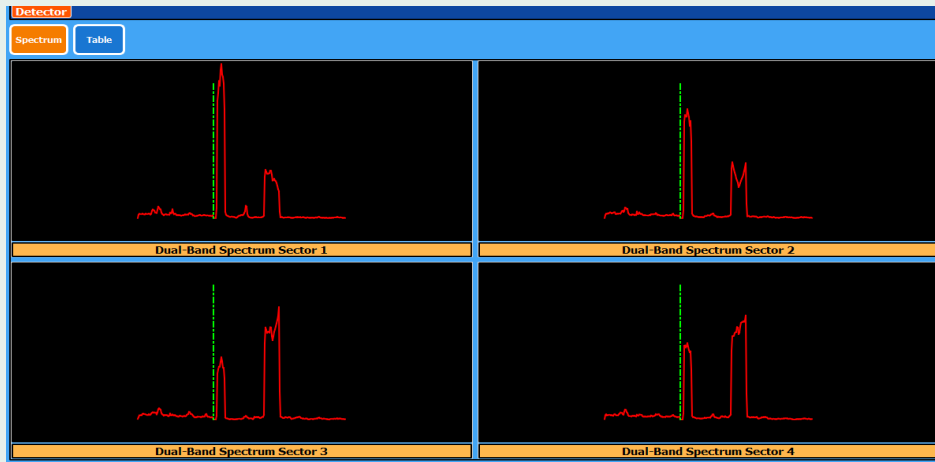
GIS Enabled Detection & DF

- The GUI of the detector is GIS enabled with the map of the location
- There are 32 sectors to indicate the direction of arrival.
- If there are multiple drones, the sectors will be color coded to distinguish between various drones

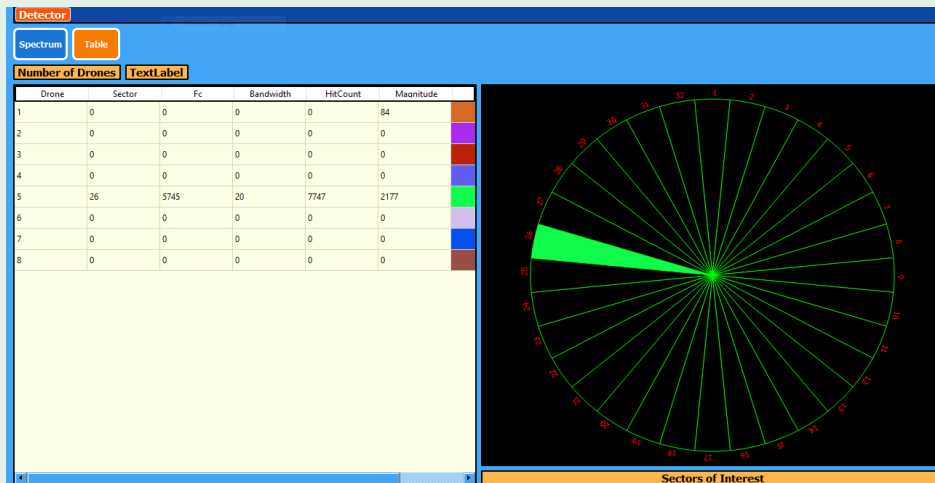


Multiple Drone Detection

- The detection window shows the important parameters such as center frequency, bandwidth and the direction of arrival of the detected drones
- All the detected drones will be color coded for identification
- The RF spectrum will be shown for visual identification and confirmation of the presence of drone



**GUI Display for Drone RF signal
(RF signal analysis)**



**GUI Drone Tracking Display
(Drone tracking &
Multi-drone detection)**

Technical Specifications

Parameter	Specifications
Frequency Bands	70 MHz– 6000 MHz
Detection Range	4000m-5000m (range may vary depending upon the ambient noise level at the side)
Antennas	High Gain Multi Band Sectoral Antennas (customisation is available)
Power Supply	DC 12V/AC Mains
Detection Method	Passive RF Detection
Network Interference	RG 45, IP based interface with fixed IP number for the detector board
Casing & Environmental	Rain and Dust proof, IP65 casing Temperature: -00C to 65C
Other features	<ul style="list-style-type: none"> • Audio visual alarm upon drone detection • Able to interface easily with Jammer. Jammer will follow the DF by detector • Supports stand alone & networked mode of operation • Suited for outdoor fixed site operation • Rugged laptop for software and GUI • Customizable GUI and alarm • AI based signal identification for low false alarm rate
Warranty & Technical Support	2 years Comprehensive
Training	<ul style="list-style-type: none"> • 1 day training for installation and operation • 1 day operators training