Counter Fi

WiFi sensor for Counter UAS

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Counter Fi by Gradiant is a sensor ready to detect, classify and track WiFi controlled UAS, neutralizing effectively non-allowed UAS under multiple scenarios.

Neutralize non-allowed UAS
- 100% passive sensor
- Compatible with WiFi controlled drones based on 2.4 and 5.8 GHz, particularly: Parrot Family and DJI based on WiFi
- Applicable in multiple different scenarios and conditions
- Neutralization based on cyberattacks
- Supported counter measurements: land, shutdown, take the control away from the controller, block video and telemetry
- Two modes of operation: “Stand alone” and “Operation managed”.

Integration requirements
Depending on the operation mode:
- Stand alone: CounterFi performs the neutralization of the drone autonomously. Optionally, the client can implement a program to display system’s data. A developer’s manual will be provided.
- Operation managed: The client needs to implement its own program to interact with the system. A developer’s manual will be provided.

Technical details
- **Hardware**
  - Odroid C2 Single Board Computer with Linux SO
  - 3 USB WiFi adapters
  - Hub
  - Selectable power supply: AC, DC or battery
  - In the detection stage
  - 2.4 and 5.8 GHz supported
  - Detection range: up to 1500 meters (under Line of Sight conditions)
- **Time to detection**: < 2”
- **Provision of drone and controller MAC address, brand and model**
- **In the neutralization stage**
  - Different counter measurements: land, shutdown, take the control away from the controller, block video and telemetry, send fake orders
  - **Time to neutralize**: <3 seconds (after pressing “neutralize”)

Our solution can be used in several scenarios and conditions: airports, prisons, power plants, critical infrastructures, film sets, entertainment venues, sport stadia, government buildings or events.