

Civilian UAV Active Defense System Product Brochure

AUDS-2458/AUDS-2458pro

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1. Product Overview

This series of equipment is designed for active defense of civilian drones and provides two solutions:

- 1.0 Basic Version (AUDS-2458): Full-band suppression interference, fast response and non-inductive deployment
- 1.1 Intelligent version (AUDS-2458 Pro): OFDM signal detection + precise countermeasure to reduce the risk of false interference

Design concept: Through the radio protocol layer cracking technology, the forced landing/return control of mainstream drones (2.4GHz/5.8GHz) can be realized to ensure the low-altitude safety of key areas.

2. Version function comparison

Functional modules	1.0 Basic version	1.1 Smart version
Working Mode	Continuous interference across the entire frequency band	Spectrum monitoring \rightarrow target identification \rightarrow directional interference
Response speed	≤3 seconds	≤1.5 seconds (interference link establishment detected)
OFDM Signal Analysis	Not supported	Support (identify drone communication characteristics)
Multi-target processing capability	Maximum 8 channels	Maximum 16 channels
Typical deployment scenarios	Temporary event security	Long-term deployment in high-density sensitive areas

3. Core technical parameters

General parameters

- Frequency band coverage: 2.400-2.4835GHz / 5.725-5.850GHz
- Interference power: 30W-50W (Complies with FCC Part 15 radiation standards)

Range:

- Open environment: ≤2000m
- Urban Environment: ≤800m (Affected by building occlusion)

Power supply system:

- Input: AC 220V±10% 50/60Hz
- Backup power supply: optional 48V lithium battery module (battery life ≥ 4h)

Environmental adaptability:

- Working temperature: -20°C~+60°C
- Protection level: IP54 (dustproof/splashproof)
- Shock resistance standard: MIL-STD-810G
- 1.1 Intelligent version enhanced parameters
- Spectrum scanning speed: 20MHz/ms
- Signal recognition library: pre-stored 37 drone protocols including DJI, Dotong, Autel, etc.
- Intelligent decision-making algorithm: adaptive adjustment of interference parameters based on deep learning

4. Application scenario description

- 4.1 Privacy Protection Scenarios
- Villa/Manor Defense: 360° coverage radius 1.2km, support for multi-device networking
- Data security scenarios:
- Corporate R&D Center: Blocking aerial photography to steal secrets

- Government agencies: Preventing leakage of sensitive information
- 4.2 Public safety scenarios
- Large event support:
- Concerts/sports events: blocking illegal live broadcast links
- Emergency command site: Establish a clear protection zone
- 4.3 Special industry applications
- Anti-cheating in exam rooms: Directional shielding of suspicious radio signals
- Prison perimeter control: 24/7 automated guard duty

5. System Operation Guide

- 5.1 Quick Start Process
- 1. Safety check: Make sure the antenna is firmly connected and there are no people around.
- 2. Power connection: Connect to a regulated power supply (UPS is recommended)
- 3. Mode Selection:
- Basic version: directly press <Start> to enter full-frequency interference
- Smart version: Select [Auto Protection] mode through the touch screen
- 4. Status monitoring: Observe indicator light (green: ready; red: working)
- 5.2 Advanced function settings (version 1.1 only)

- Whitelist management: authorize specific devices to communicate with exemptions
- Electronic fence settings: Customize 3D protection area
- Log export: record all defense events (time/GPS coordinates/drone type)

6.Safety and Compliance Statement

6.1 Limitation of Use

- It is strictly prohibited to use in special areas such as airport clearance areas and medical institutions
- It is prohibited to modify the transmission power or frequency range without authorization

6.2 Legal Notice

- This device can only be used after obtaining permission from the local radio regulatory agency.
- The user shall bear all legal responsibilities for communication interruption caused by illegal use.

7. Maintenance and after-sales service

- Daily maintenance:
- Clean the heat dissipation holes monthly to ensure adequate ventilation
- Perform system self-tests (built-in diagnostics) quarterly
- Warranty Terms:
- 2-year warranty for the whole device (1-year warranty for antenna module)
- Upgrade Service:
- Provide signal signature library updates every year (exclusive to version 1.1)

8.appendix

- Certification mark: FCC ID CE RoHS
- Electromagnetic compatibility: Comply with GB9254-2008 Class B
- Packing list: host \times 1, omnidirectional antenna \times 2, power cord \times 1, quick quide \times 1

Note: It is recommended to create the following visual elements in conjunction with the professional manual:

- 1. System architecture diagram (showing the entire process of signal detection → analysis → interference)
- 2. Deployment diagram (device placement suggestions in different scenarios)
- 3. Status indicator decoding table (picture and text comparison)
- 4. Safety operation warning icons (international common symbols)