

FR3 Drone RID Reader

Overview

FR3 is a drone supervision device specifically designed and developed to meet the monitoring requirements of cooperative drones. The device monitors Remote ID (RID) signals actively broadcast by drones and decodes the embedded identity and status information, such as unique serial number, location coordinates, flight speed, and course angle. This information is then displayed on an electronic map, enabling users to maintain real-time awareness of drone activities within the airspace.

The product supports mainstream RID standards worldwide, including Chinese, European Union, and United States. It supports both fixed and tower-mounted deployment options, making it suitable for integration into city-level low-altitude security governance infrastructure.



Specifications

Work mode	Remote ID receiving and decoding
Detection radius ^[1]	1~3km(Varies depending on environment and drone model)
Work frequency	2.4GHz、5.8GHz
Scan rate ^[2]	1~2 s/scan
Dimension	L*W*H(217mm*217mm*68mm)±5mm
Weight	~2.5kg
Protection rating	IP66
Work temperature	-40~70℃

Features

Drone and Pilot Localization

Real-time display of the current positions and flight trajectories of drones and pilots

Multi-Device Networking

Supports multi-device networking deployments to meet the monitoring requirements of wide-area airspace

RID Protocols

Bluetooth 4, Bluetooth 5, WIFI BEACON WIFI NAN, etc

RID Standards

GB 42590-2023, ASTM F3411 REMOTE ID, ASD-STAN PREN 4709-002, etc

Urban Adaptability

Supports effective operation in complex electromagnetic environments in cities

Flexible Deployment Options

Allows adaptable installation based on the environment, with support for mounting on traffic poles, telecom poles, perimeter fences, and towers

Note:[1][2] are model-dependent and only applicable to drones that actively broadcast Remote Identification (RID) information.

Scenarios



Applicable to the supervision of cooperative drones, such as city-level wide-area low-altitude security management and air route monitoring in low-altitude economy scenarios.