忆伯科技
E-PRO

Drone Remote ID

Drone Remote ID Recognition Series

—— User Manual

Drone Remote ID

www.eablopilot.com

Drones Remote ID Management Deployment Scheme

——*Drone Remote ID Recognition Series*

Low-altitude Effective Surveillance Management Platform

Objective

This scheme aims to address issues such as the abuse, illegal flights, and unauthorized operations of drones, providing effective clues for the country, the government, and relevant supervisory departments, and achieving comprehensive low-altitude management. When drones with RID capabilities are operating within the controlled area,by deploying Remote ID detectors and linking them with the low-altitude effective surveillance management platform, real-time detection and recording of information such as the electronic license plate, position, altitude, and pilot position of the drone are carried out, enhancing the security of important control application scenarios in the airspace.

Advantage

Precision-positioning drone

When the drone is detected, the platform immediately activates the "pop-up window + alarm sound" alert function, continuously records and updates the drone incident information, quickly locates the position of the drone and the pilot, and ensures that management personnel can promptly grasp the low-altitude traffic situation.

Record the drone event trajectory

The platform is easy to operate and can effectively monitor low-altitude conditions around the clock. It can conduct wide-area surveillance of multiple drone. Through the platform's video playback function, the flight trajectory can be tracked throughout the process, significantly enhancing the timeliness of information sharing among relevant departments.

Improve the efficiency of collaborative management

The platform is applicable to large-scale temporary security scenarios with dense personnel and complex on-site environments. It builds a supervision network of "key deployment - identification and early warning - effective surveillance - rapid response".

Service Support

Personalized customization service

Professional after-Sales support

Executive Standard

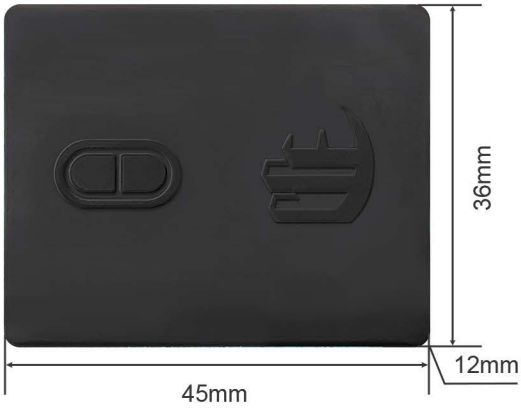
EU:ASD-STAN DIN EN4709-002 USA:ASTM RemoteID Standard ASTM F3411-22a-RID-B/F3586-22

*All the products of this scheme comply with the applicable standards.

Drone Remote ID Broadcast Module

——Drone Remote ID Recognition Series

#Approved by EN#
#Approved by FAA#



External Drone Remote ID Broadcast Module — EabloPilot Tag

Product Background

In response to the regulation that makes it mandatory for professional pilots in the EU and the US to digitize information about their drones, we have developed the Remote ID Broadcast Module "EabloPilot Tag", which has been officially certified by the FAA. This external module allows the drone to be fully compliant with drone flight requirements without the need to purchase a new drone.

Product Introduction

With the Remote ID Broadcast Module "EabloPilot Tag" , your drone will instantly have Remote ID functions. This device broadcasts the drone's position to the surrounding area via Bluetooth radio and WiFi beacons. With a total weight of 26g, the lightweight and compact industrial design allows for a small windward area.

Product Features

Internal Bluetooth & GNSS antennas

For better signal reception, we designed an integrated Bluetooth and WiFi antenna.

Worry-free flight from takeoff to landing

"EabloPilot Tag" informs other nearby flyers of potential hazards during flight, landing or free fall.

Multiple positioning modes

Receive signals from BeiDou, GPS, GLONASS, Galileo to realize stable and reliable positioning.

Battery life

Battery life is in the range of 2.5-6hours (Depends on user configuration).

Installation

"EabloPilot Tag" can be easily attached to the drone with double-sided Velcro.

Drone Remote ID Signal Receiver

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The Drone Remote ID Signal Receiver consists of multiple radio receiving channels, designed to capture Remote ID signals in compliance with international standards.

Drone RID Detector—RR-Vision

Power Consumption	**<20 W**
Power Supply	**12V or 48V DC**
Antenna Gain	**6dBi**
Antenna Type	**Omnidirectional Antenna**
Dimensions	**212×212×55 mm (excluding antenna)**
Operating Temperature	**-35°C to + 85°C**
Protection Rating	**IP68**
Weight	**Approx. 1.6 kg (2.1 kg with mounting bracket)**
Actual Detection Range	**Urban environment: 1–2 km** **Open area: ≥5 km**

Main Specifications

1.Receiver Sensitivity:
2.BLE: -98 dBm
3.BLE-Long Range: -105dBm
4.WiFi Beacon + WiFi NaN: -100dBm

Ground Station Connection Interfaces

2 * Bluetooth antenna connectors (N-type)
1 * WiFi antenna connector (N-type)
1 * 4-pin power connector
1 * RJ45 Ethernet port
1 * 4G antenna (4G version only)

Antenna Reception

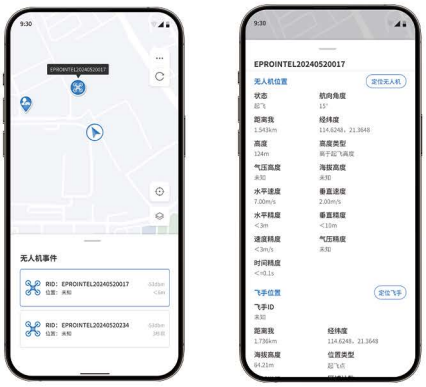
Three independent receiving channels continuously scan for radio signals carrying Remote ID payloads and demodulate the output in real time.

Data Connectivity

1.Supports 4G wireless data transmission or wired Ethernet.
2.The receiver transmits data to a user-specified server via TCP/IP or UDP.
3.Users can configure parameters and manage the device through the built-in web interface.

Firmware Upgrade

Supports remote upgrades via 4G or wired network.



Drone RID APP — "Low Altitude Guard"

Portable Drone-Identification Shoulder Light

The Portable Drone-Identification Shoulder Light is primarily designed to receive drone Remote ID signals, enables security personnel to promptly detect drones during large-scale security events or patrols in critical protection zones.With a detection range of ≤1 kilometer, it can connect with the Low Altitude Guard app and integrate with the Low-altitude Effective Surveillance Management Platform to view real-time drone and flyer locations, achieving effective monitoring of low-altitude airspace.

The Portable Drone-Identification Shoulder Light complies with FAA and EU standards.

Low Altitude Radio Detection and Analysis Ground Station

——Drone Remote ID Recognition Series

RR-Vision PRO

RR-Vision 4PRO

Low Altitude Radio Detection and Analysis Ground Station

Product Introduction

The Low-Altitude Radio Detection and Analysis Ground Station is an integrated ground receiving station that combines Remote ID, flight control link protocol analysis, ADS-B, and AIS.
The drone Remote ID module consists of four radio reception channels for receiving RID signals, and the reception protocol complies with international standards.

*RR-Vision PRO supports DJI O2/3;
RR-Vision 4PRO supports DJI O4.

EU:ASD-STAN DIN-EN 4709-002
US:ASTM Remote ID Standard ASTM F3411-22a-RID-B/F3596-22

Receiver Sensitivity

BLE：-97dBm

BLE-Long Range：-107dBm

WiFi Beacon +WiFi NaN: -104dBm

AIS: -115dBm

ADS-B： -97dBm

DJI O2/3/4：-98dBm

Connection Interface

1 * 4-core power connector
1 * RJ45 network connector

Antenna Rreception

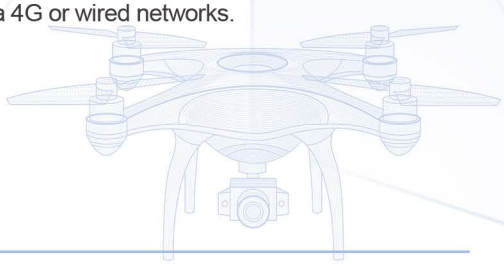
The six independent receiving channels:Remote ID BT4/5、2.4G WiFi、5.8G WiFi、AIS、ADS-B、DJI02/3/4.

Data connection

1.Supports 4G wireless data transmission or wired Ethernet.
2.The receiver transmits data to the user-specified server via TCP/IP or UDP.
3.Users can manage parameters and settings via the receiver's internal web page.

Firmware Upgrade

Supports remote upgrades via 4G or wired networks.



Technical Specifications

Power Consumption	<20 W
Power Supply	12v or 48v DC
Antenna Type	Omnidirectional Antenna
Dimensions	337×263×86mm（No antenna）
Weight	Approx. 4.6kg (No antenna)
Operating Temperature	-35°C ~ +85°C
Protection Rating	IP65
Actual Detection Area	Remote ID：1-5km、ADS-B：30-300km、 AIS: 100km、DJI O2/3/4: 1-5km (The actual detection area size depends on the installation location, such as height and obstruction by large buildings.)

Company Profile

Shanghai Yibo Technology Co., Ltd. was established in 2016, is a company dedicated to innovative technologies. We focus on core areas such as low-altitude airspace management, smart cities, navigation, and aerospace. Providing solutions for airspace management, navigation and urban traffic control to enterprises, research institutions, and management departments across various industries.

Through years of dedicated operation and technical accumulation, we have secured over 50 intellectual property rights and qualifications. Our honors includes: the Joint Innovation Center for Low-altitude Management and Identification Technology, the Joint Laboratory for Smart Cities, the Public Data Application Innovation Center, the Council Member of Shanghai Information Security Industry Association, and the Member Unit of the First Session of Shanghai UAV Safety Management Association.

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