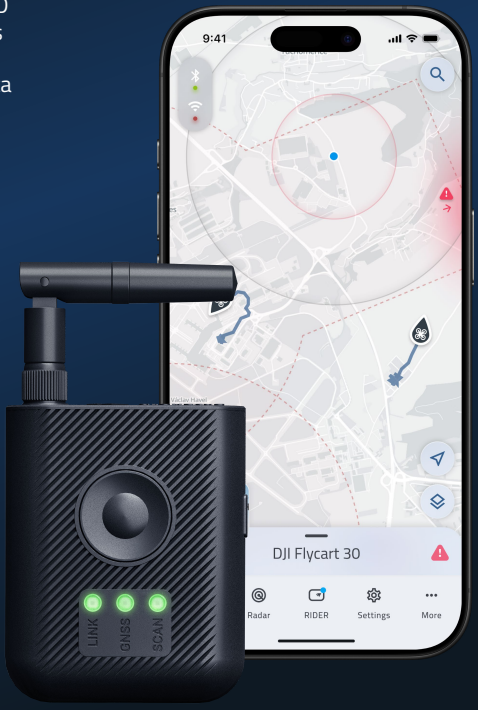
dronetag

Dronetag RIDER

Portable Remote ID Receiver Enhancing Situational Awareness

A compact, wireless, battery-powered Remote ID receiver, designed for public safety organizations and professional pilots. RIDER is drone-agnostic and captures all Broadcast/Direct Remote ID data from modules and aircraft such as DJI, Autel, and Skydio to up to 10 km range. The data is sent in real-time to the Dronetag App for data visualization and airspace alerts.



Flexible Mounting and Various Alerts

Clip RIDER to your backpack, hang it to your radio controller, or slip it into your pocket; it will notify you of nearby drone activity through an integrated buzzer and LEDs.

Multiple Options for Data Transmitting

RIDER has three choices for real-time data sharing: via integrated LTE, Bluetooth, or USB-C, allowing online or offline data transfer for private/sensitive operations.

Cross-Platform App for Airspace Overview

Visualize, store and export real-time aircraft data such as position, height, and speed via our multiplatform app for Android, iOS and web.

Contact us at
sales@dronetag.com
for more information

Key Features

Detection Range

Detects drones up to 3 miles (5 km) with the standard antenna, extendable to 6 miles (10 km) using a high-performance antenna.

Real-Time Alerts

Stay aware with instant audio and LED alerts whenever a drone is detected, no need to constantly watch a screen.

Data Collection

Captures all Remote ID data, including:

- Live drone location including GNSS altitude and height
- Take off point / Pilot's position
- Drone model
- Serial number

Flexible Data Sharing & Integration

Transfer data via LTE, Bluetooth, or USB-C, with support for both online and offline transfers, ideal for sensitive or secure operations. Access real-time and historical detections through Dronetag apps for iOS, Android, or Web, or integrate seamlessly with any existing C-UAS platform.

Pilot Position Access

RIDER helps security teams quickly locate the pilot, sharing exact GPS coordinates or a Google Maps link.

Rapid Deployment

From pocket to operational in seconds. Just press one button to start scanning.

Mesh Effect

Use multiple RIDER units together for extended range and better coverage. All devices sync into one unified dashboard.

Drone-Agnostic

Supports both Bluetooth and Wi-Fi Remote ID signals, making it compatible with Remote ID compliant drone brands. You'll never miss a drone in the area.

Long Battery Life

Up to 10 hours of continuous operation on a single charge. Can also run nonstop when plugged into a vehicle charger or power bank.

Detection History

Automatically logs all detections for review, investigation, or evidence. Export data in various formats as needed.

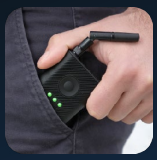
Precision Tracking

RIDER reads Remote ID signals directly from the drone, enabling accurate tracking of both the drone and the pilot, unlike RF systems that only estimate positions.

Usecases

Drone Activity Investigations

Whether carried during patrols or deployed in response to a drone sighting, RIDER gives officers immediate insight into airspace activity. It displays live telemetry and the pilot's location, enabling fast, informed decision-making. All detections are automatically saved, supporting detailed post-incident analysis and digital evidence collection.



Rapid Field Awareness

Designed for rapid field use, RIDER can be carried in a pocket, worn on a vest or duty belt, or mounted in a vehicle. It delivers instant drone visibility without the need for setup or external support, giving officers real-time awareness within seconds.

Evidence Collection

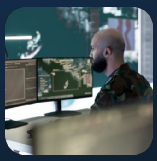
By recording Remote ID data, including drone ID, telemetry, and pilot location, RIDER helps build strong digital evidence for prosecuting unauthorized drone activity. The data is securely stored and readily exportable for use in legal proceedings.

Support for Tactical Operations

Tactical response teams can carry RIDER during missions to monitor for surveillance drones or potential airborne threats. It enhances operational security without adding complexity or delay to field operations.

Training and Simulation Exercises

RIDER can be integrated into police training and emergency response drills to simulate drone threat scenarios. It allows officers to develop and refine rapid detection and response strategies in a safe, controlled environment.



Supplementary Border and Perimeter Monitoring

While not a primary countermeasure for non-compliant drones, RIDER adds a valuable layer of detection at borders, coastlines, or facility perimeters. It identifies compliant drones in the area, complementing traditional surveillance tools and improving overall situational awareness.

Protection of Sensitive or Restricted Locations

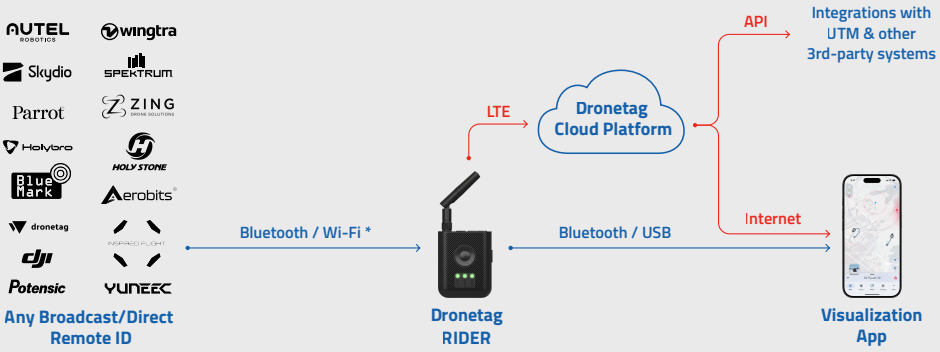
RIDER enables fast drone detection around critical infrastructure, prisons, government buildings, or temporary security zones such as VIP visits. It provides security teams with the ability to monitor restricted areas and respond quickly to potential aerial threats.

Airspace Monitoring at Public Events

At public events, protests, or sports matches, RIDER provides scalable, cost-effective drone detection. Multiple devices can be deployed across the area, creating a network that expands coverage and improves reliability. This makes real-time airspace monitoring accessible to any event security team.

Trusted by

DRONIQ · ALTITUDE ANGEL · YUNEEC · DJI | TELINK · HIGH LANDER · DroneLogbook



* Standardized Remote ID via ASTM F3411-22A and ASD-STAN EN 4709-002

● Online mode ● Offline mode

Technical Specifications

- **Weight:** 64 grams with antenna
- **Dimensions:** 134×53×20 mm with extended antenna
- **Power Supply:** 5V via USB-C
- **Battery:** Li-Po 1000 mAh
- **Average Battery Life:** 6-10 hours (depends on configuration)
- **Operating temperature:** -20 °C to +60 °C (4 °F to 140 °F)
- **Range:** 5 km/3 miles with default antennas
- **IP rating:** IP54
- **Supported LTE bands:** 2, 4, 12 for US, 3, 8, 20 for EU
- **Supported GNSS Frequencies:** GPS L1, GLONASS L1, Galileo E1, BeiDou B1, SBAS
- **Remote ID technologies:** 2.4 GHz Bluetooth, 2.4 GHz Wi-Fi

- Built-in chip SIM with global coverage (LTE-M and NB-IoT)
- Internal Cellular and Bluetooth antenna for data transmission
- Integrated GNSS antenna for positioning & timestamping
- Onboard storage for saving flight data when using without the app
- SMA connector for 2.4 GHz Remote ID antenna

Features

- **Compact and Portable Design**
  Easily attachable anywhere, small, handy, and perfect for on-the-go use.
- **Premium Customer Support**
  Backed by comprehensive warranty and dedicated customer support with firmware over-the-air support.
- **Tailored for Both State Institutions and the Private Sector**
  Whether you're a pilot monitoring nearby drones or in rescue services and law enforcement needing surveillance, RIDER detects every drone.
- **Spoofing Protection**
  Multiple RIDER deployments ensure authenticity of Remote ID messages for validating their trustworthiness.