# WARDRAGON - USER GUIDE

## 1 PREPARE FOR SETUP

This guide provides quick steps to get your WarDragon system up and running. For complete documentation, updated instructions, and additional resources, visit the official repository:

https://github.com/alphafox02/WarDragon/tree/main

## 2 WARDRAGON AT A GLANCE

WarDragon is a compact, headless RF sensing appliance that combines dedicated detection radios, software-defined radio (SDR), GPS, and purpose-built software to detect drones across multiple protocols and stream real-time detections to your existing operational systems

Once configured, it operates unattended, continuously publishing system health, alerts, locations, and track information to your operational picture

| Capability | Band | What you get |
|---|---|---|
| DJI DroneID | 2.4 / 5.8 GHz | Detection and decode of drone, pilot, and home-point telemetry |
| WiFi Remote ID (ASTM F3411) | 2.4 / 5 GHz | Standards-based Remote ID broadcasts |
| Bluetooth 5 LR Remote ID | 2.4 GHz | Long-range Bluetooth Remote ID broadcasts |
| Analog FPV video (Elite) | 5 GHz race bands | Detection of analog first-person-view video links |
| RFD900 / MAVLink (Elite) | 900 MHz | Detection and decode of long-range control links |

Analog FPV and RFD900/MAVLink coverage is included on Elite kits. ELRS detection is on the Elite roadmap.

## 3 IN THE BOX

Your kit arrives ready to run, with the WarDragon software pre-loaded. A typical kit includes:

- The WarDragon unit in its case or enclosure
- Power supply
- The matched antenna set specified for your variant -including the dedicated 5 GHz FPV and 900 MHz antennas on Elite kits
- Display and input adapters appropriate to your variant
- Quickstart card

**Note:** Some processor variants require an HDMI adapter to connect an external display

Each kit includes matched antennas selected and tuned for your specific configuration to ensure optimal detection performance

## 4 GETTING STARTED

### FIRST BOOT

1. Connect every antenna before applying power
2. Connect a display
   - Mobile Kits have a built-in maintenance screen.
   - For a Drop-In Kit, connect a monitor, keyboard, and mouse to the unit using the supplied adapters
3. Apply power
   - The system is ready in roughly 60-90 seconds.
4. Log in at the desktop with the default credentials, then change the password

**Username: dragon** **Password: dragon**

### THE WARDRAGON DASHBOARD

WarDragon includes a built-in local dashboard for setup and quick checks. With the unit running, open a web browser on the unit and go to: **http://localhost:4280/**

- System health & status
- Core settings
- Live drone detections

## 5 CONNECTING TO YOUR NETWORK

| Capability | What you get |
|---|---|
| Wired (DHCP) | Default. Plug into a DHCP network and WarDragon is reachable immediately. |
| Wired (Static IP) | Fixed installations that require a known address. |
| Field Hotspot | Deployments with no existing network- WarDragon creates its own WiFi network for nearby devices. |
| Hybrid | Run the hotspot for field devices while using the wired link for backhaul, simultaneously. |

The wired port is DHCP-enabled by default. Connect it to your network and locate it by hostname in your router's device list. A static IP can be configured for fixed installations.

**NOTE**: The internal connection between the compute board and DJI detection radio is factory configured and should not be modified.

*This guide applies to all current WarDragon kits. Pro kits provide the core detection stack, Elite kits add analog FPV (S GHz) and RFO900/MAVLink (800 MI-a) detection. Mobile kits ship in a ruggedized transport case with a built-in maintenance screen. Drop-in kits ship in a DIN-rail integrator enclosure. Setup and operation are the same across all variants except where noted.*


© 2026 Millenium Products. All Rights Reserved. Revised 07.2026

# WARDRAGON - USER GUIDE

## 6 INTEGRATING WITH YOUR OPERATIONAL PICTURE

Detections and system health stream directly into your team's existing operational picture

### WARDRAGON SUPPORTS:

| Capability |
|---|
| **Cursor-on-Target (CoT) over the network**<br>Detections and unit health publish as CoT and appear on TAK-based common operating pictures, including ATAK, WinTAK, and ITAK |
| **Secure Server Delivery**<br>WarDragon can deliver its feed securely to a TAK server for centralized, multi-user operations |
| **MQTT**<br>Publishes to MQTT for integration with dashboards and automation platforms |
| **Command-and-control platforms**<br>Exports to leading command-and-control and common-operating-picture systems for integration into a broader operational picture |

**NOTE**: When connected to the same network, WarDragon automatically publishes system health and drone detections to your operational picture

## 7 DRAGONSCOPE (ELITE KITS)

DragonScope is an optional add-on for Elite kits that extracts and reports DJI drone serial numbers using OcuSync 2, 3, and 4

| With DragonScope | Without DragonScope |
|---|---|
| • Adds serial number extraction via OcuSync 2/3/4<br>• Enhances identification and attribution<br>• Ideal for investigative and advanced operations | • Detects DJI drones (ID, location, track)<br>• Does not report serial numbers<br>• Perfect for general awareness and monitoring |

DragonScope is an annual subscription service. Contact your sales representative for details

## 8 REMOTE OPERATION & BEST PRACTICES

- After setup, WarDragon is intended to run headless - no monitor or keyboard required
- Manage and monitor remotely via your network or integrated systems (TAK, MQTT, server, etc.)
- Ensure the unit has proper ventilation and a stable power source
- Use quality antennas and keep them secure and unobstructed for best performance

### BEST PRACTICES

✔️ Keep firmware up to date
✔️ Monitor system health in your operational picture
✔️ Regularly review logs and detections

## 9 POWER DOWN

Always shut down WarDragon cleanly before removing power

1. In the dashboard, open the **System menu**
2. Select **Shutdown**
3. Wait for the system to power off
4. Once off, it is safe to disconnect power

**Support Line**
(888)901-7430 M-F, 8AM – 5 PM EST


© 2026 Millenium Products. All Rights Reserved. Revised 07.2026