

# Garuda Robotics

## Plex Pilot GCS

### Quick Start Guide

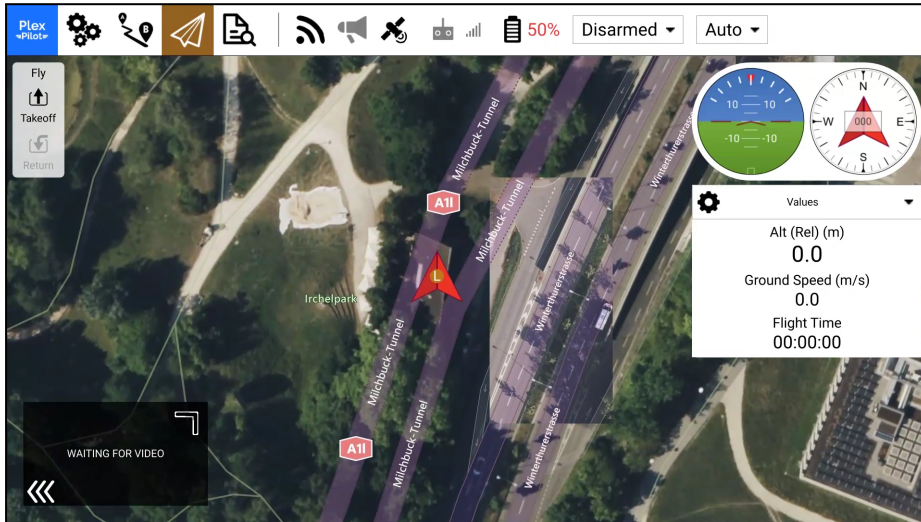


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## Fly View

The Fly view is the default screen upon launching Plex Pilot.

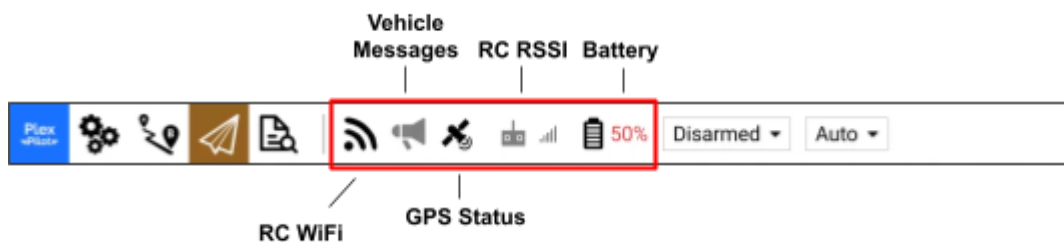


Settings Setup Plan Fly Analyze



The main toolbar consists of 5 tabs:

- **Settings:** Configure the Plex Pilot application.
- **Setup:** Configure and tune the connected UA.
- **Plan:** Create autonomous missions and geofences.
- **Fly:** Monitor the UA while flying.
- **Analyze:** View and download flight logs.

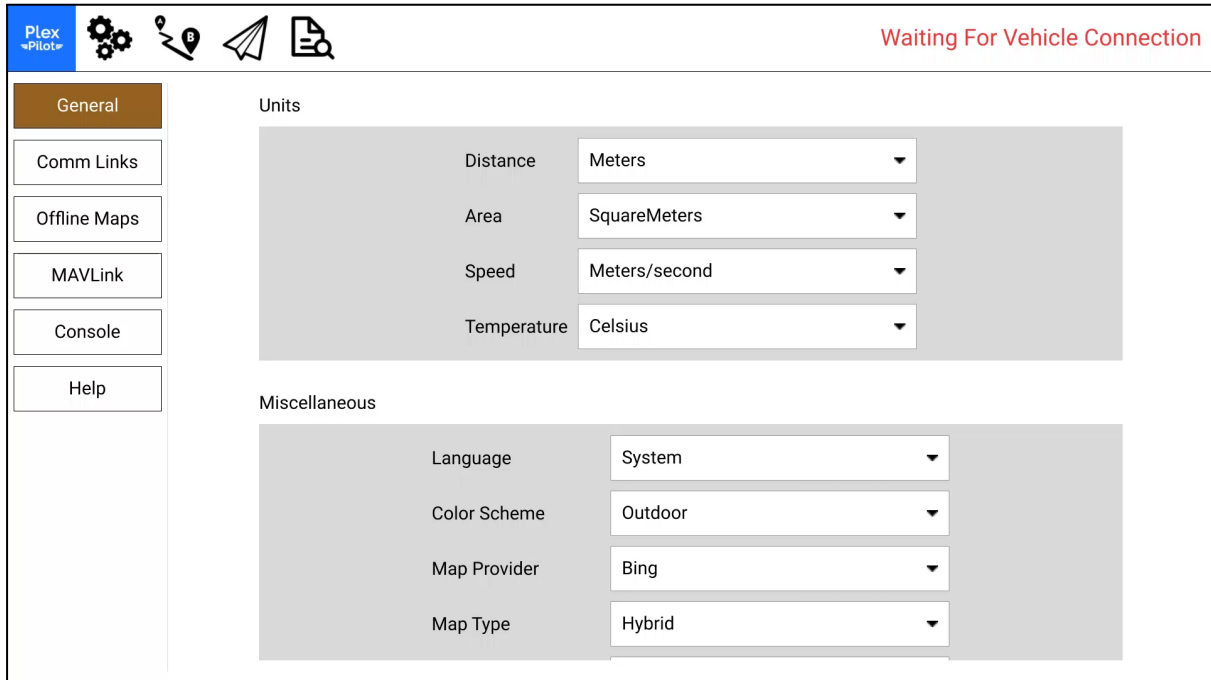


There are 5 main status icons::

- **RC WiFi:** Status of RC connection to drone WiFi AP.
- **Vehicle Messages:** Shows list of messages from UA (check for error messages).
- **GPS Status:** Shows satellite count and current HDOP.
- **RC RSSI:** RC signal strength information.
- **Battery:** Remaining battery percent of UA.

## Settings View

The *Settings View* is used to configure the settings for the Plex Pilot application. Click on the Plex Pilot logo (top left) to access the *Settings View*.




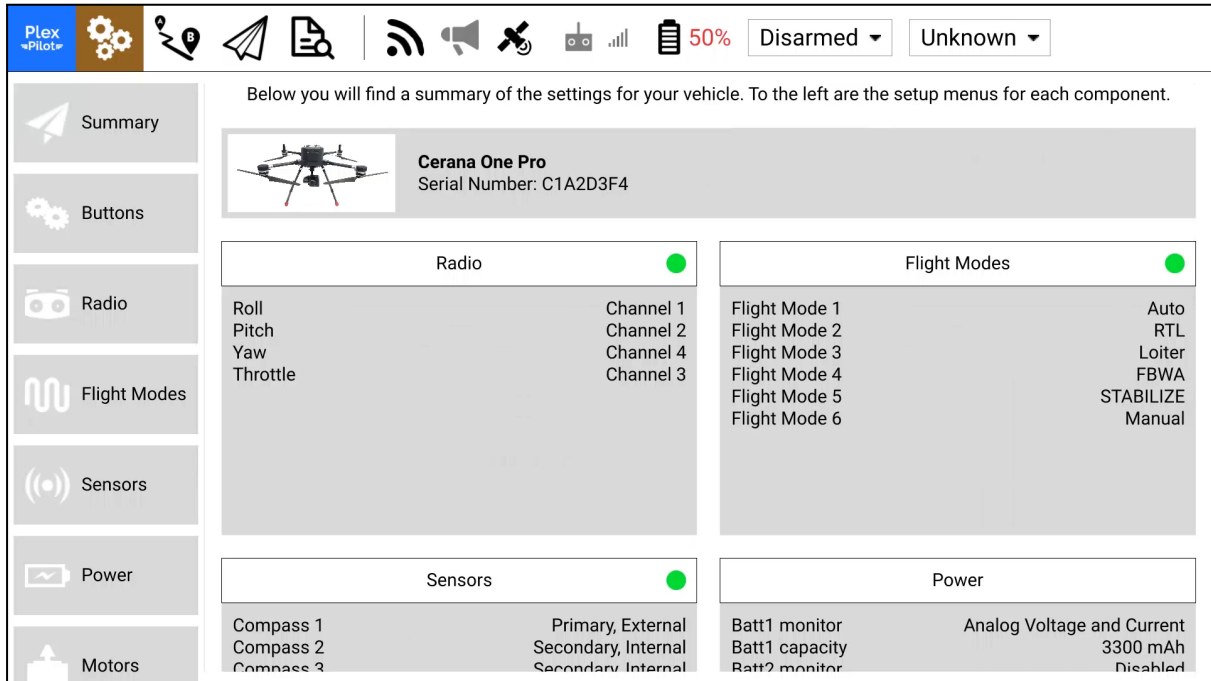
### Configurable settings

Section	Description
General	UI preferences, Device auto connection, RTK GPS, Video Stream etc.
Comm Links	Manually create communication links
Offline Maps	Download maps for offline use
MAVLink	MAVLink and autopilot specific settings
Console	Capture application logs for diagnosing application problems

## Setup View

The *Setup View* is used to configure a vehicle before flight.

Click on the  icon (second from top left) to access the *Setup View*.




The screenshot shows the Plex Pilot GCS interface. At the top, there is a status bar with the Plex Pilot logo, a gear icon for settings, and various system icons (GPS, signal, battery at 50%, Disarmed, Unknown). Below the status bar, a summary block for the 'Cerana One Pro' drone (Serial Number: C1A2D3F4) is displayed. To the left of the main content area is a vertical menu with icons for Summary, Buttons, Radio, Flight Modes, Sensors, Power, and Motors. The main content area contains four sub-sections: Radio, Flight Modes, Sensors, and Power. Each sub-section has a green indicator light in the top right corner, signifying that all settings are configured. The Radio section lists Roll, Pitch, Yaw, and Throttle channels. The Flight Modes section lists Flight Mode 1 through 6 with their respective modes (Auto, RTL, Loiter, FBWA, STABILIZE, Manual). The Sensors section lists Compass 1, 2, and 3 with their locations (Primary, External; Secondary, Internal). The Power section lists Batt1 monitor, Batt1 capacity (3300 mAh), and Batt2 monitor (Disabled).

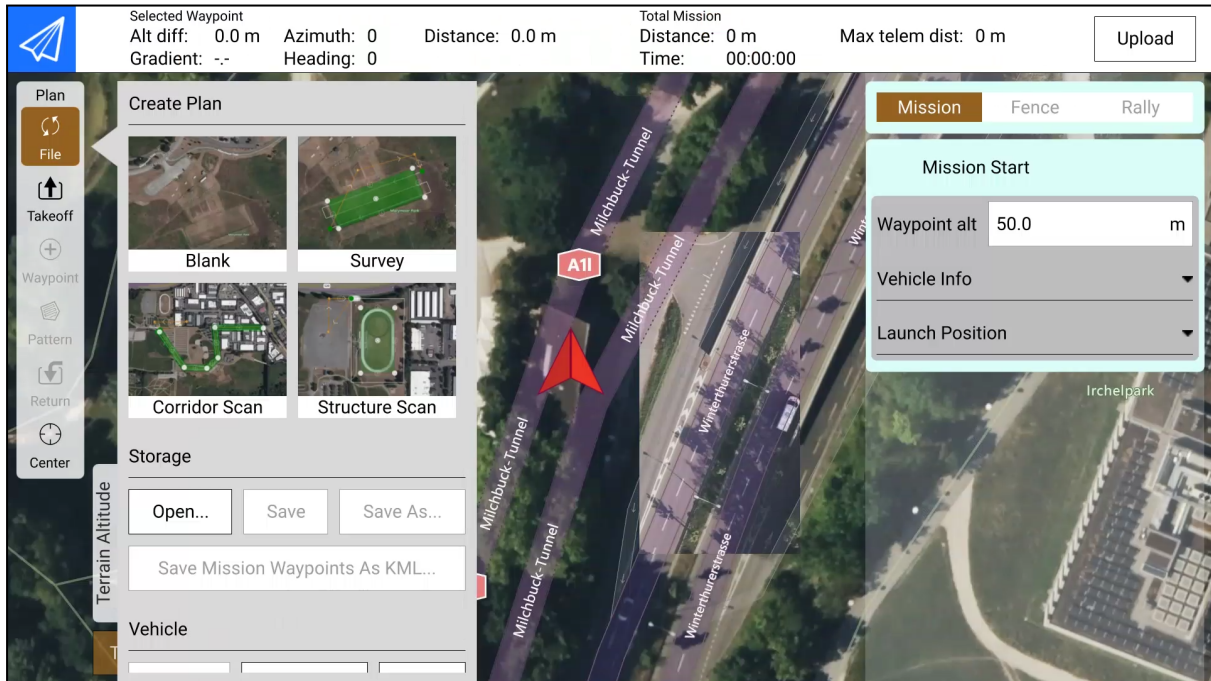
### Summary

An overview of all the important setup options for your vehicle. A summary block is marked with a red indicator if there are still settings needed to be adjusted/specified, and green if ready. You should not fly if any of these indicators are red.


## Plan View

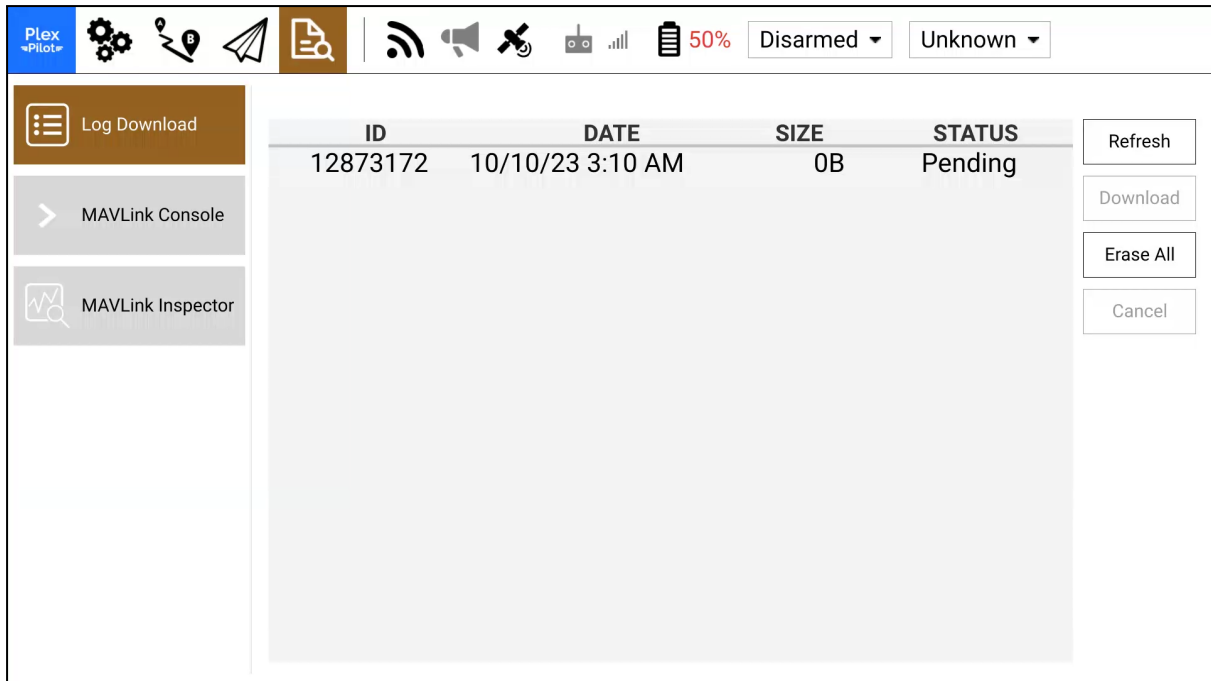
The *Plan View* is used to plan and upload autonomous missions to your vehicle.

Click on the  icon (third from top left) to access the *Plan View*.



## Analyze View

The *Analyze View* provides tools to retrieve and display data from the vehicle. Click on the  icon (fifth from top left) to access the *Analyze View*.



### Log Download

List, download and clear logs on the vehicle.

### MAVLink Console

Access the NSH shell running on the vehicle.

### MAVLink Inspector

Display and chart received MAVLink messages/values.

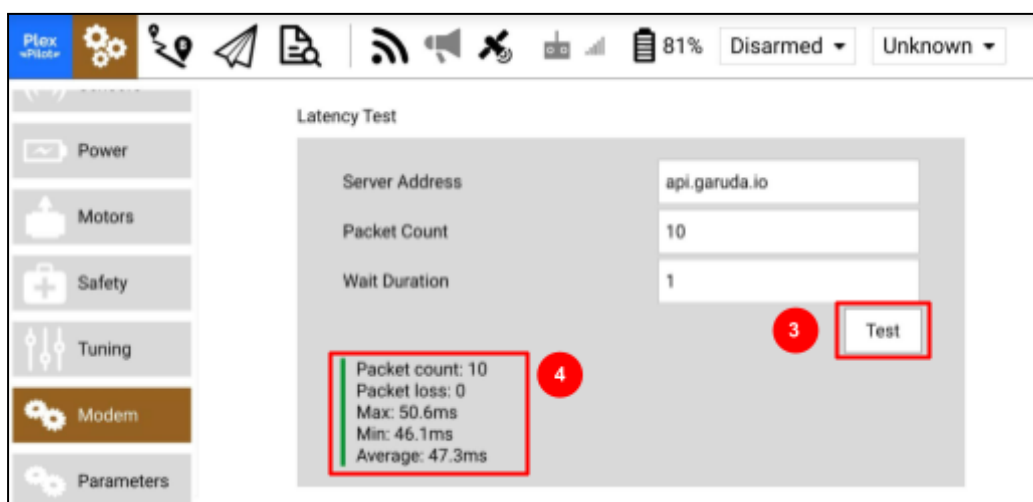
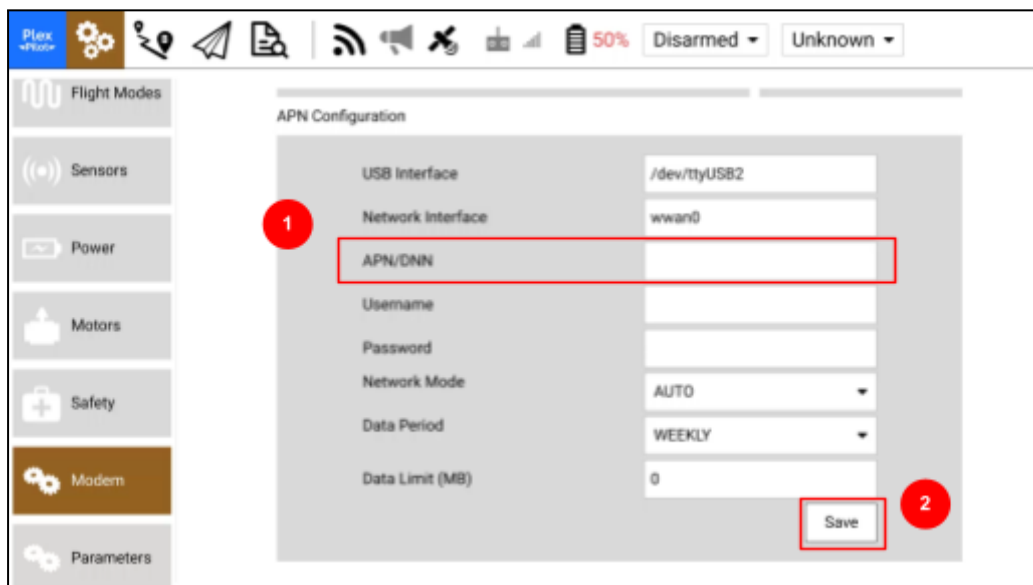
## Operating the drone

failsafe



## Setting up UA internet connection

1. Purchase a 5G SIM Card.
  2. Insert into a mobile device to verify the SIM card is able to access the internet.
  3. Remove and insert the SIM Card into the drone (refer to the drone's User Manual).
  4. Ensure that the drone is powered and connected to Plex Pilot.
  5. Under *Setup View > Modem > APN Configuration*, enter your SIM card's APN. Refer to your telco provider website if you are unsure what your APN is.
  6. Once done click save. To verify internet connectivity, scroll down to *Latency Test* and click on *Test*. Wait for the latency test to complete. The test results should display a green/orange/red indicator.
- Green** - Good connectivity  
**Orange** - Poor connectivity  
**Red** - No connectivity



## Troubleshooting

## Maintenance

[upgrades]