Myriota

HyperPulse™ DeployAssist Mobile App

User Guide

MYRIOTA-TEC-549

Dec 2025

Revision History

Rev	Date	Description of Change
1.0	December 2025	Initial version.

Related Documentation

Find the latest versions of all Myriota documentation at developer.myriota.com

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Introduction

This mobile application helps installers and users to align their HyperPulse devices by visualising the precise location of the HyperPulse Geostationary satellite in the region relative to their current position. The application is designed to be used in the field at the time of installation of HyperPulse devices

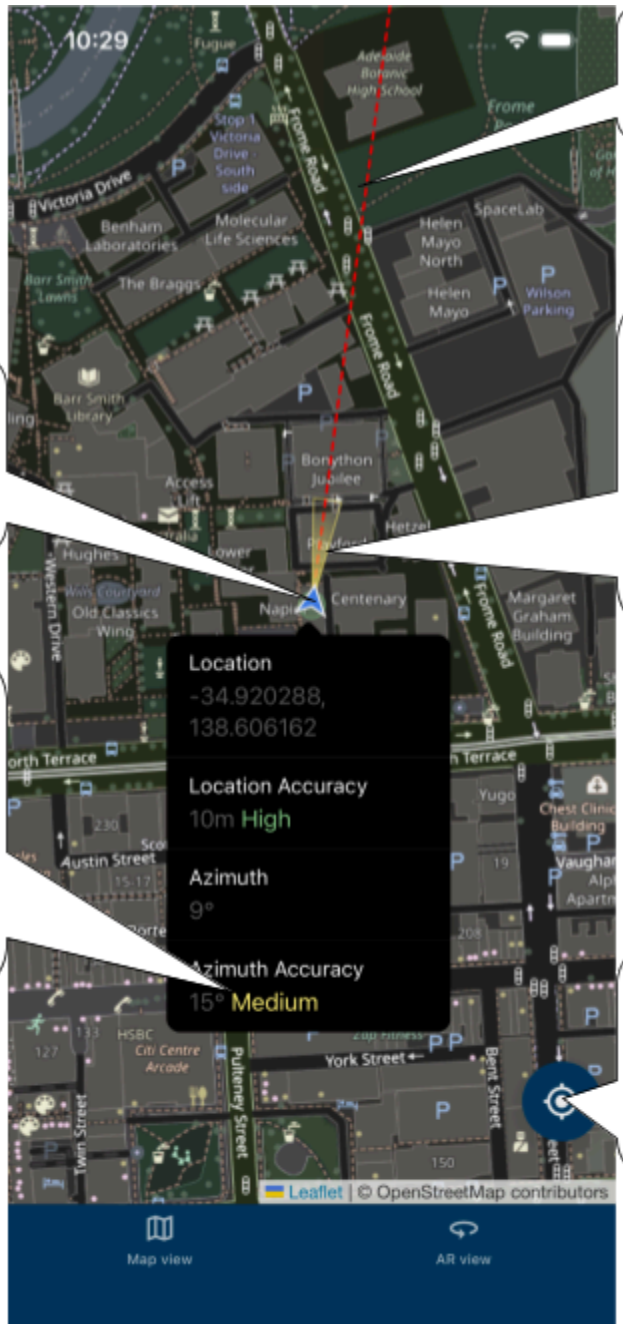
DeployAssist app is available on Android and iOS platforms

The app utilises two primary modes: Map View for rough orientation and AR View for precise visual targeting.

Map View

The Map View is your starting point. It visualises your orientation and location relative to the satellite and helps verify that your device’s sensors (GPS and Compass) are accurate enough for an alignment.Before moving, familiarise yourself with the on-screen indicators.

Visual Guide



This is the direct line of sight from your location to the target satellite.

The coloured beam projecting from the blue chevron represents your compass accuracy (heading error). A narrow cone indicates high precision; a wide cone indicates uncertainty.

This represents your location. The tip of the arrow shows the direction your phone is currently facing.

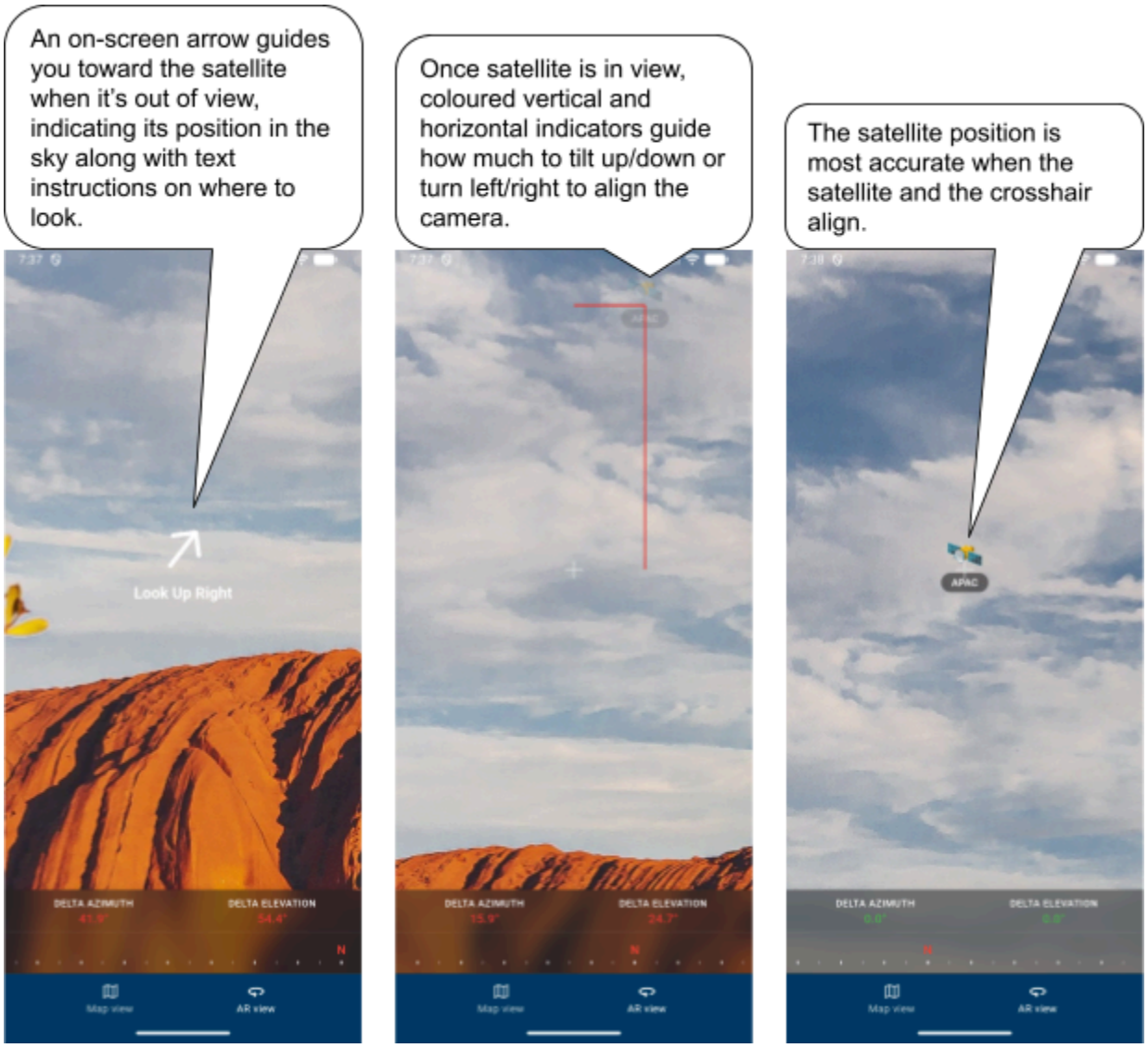
The map view uses a colour system (on the detailed information in the hevron tap)to indicate sensor reliability levels, from green, yellow, orange and red depending on the sensor accuracy.

Tap the FAB (Floating Action Button) icon in the bottom right to instantly re-centre the map on your current location.

AR View

The AR view overlays digital guides onto your camera feed. Here is what the different elements mean.

Visual Guide

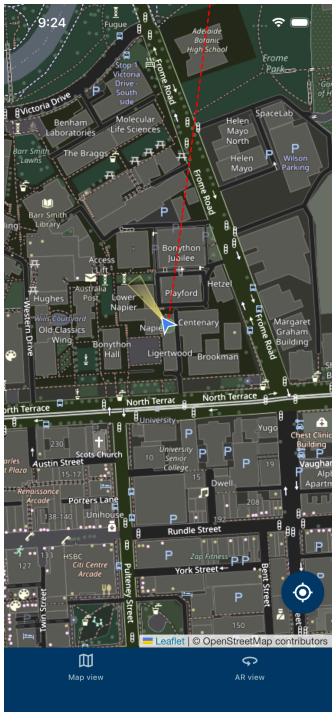


Step-wise Usage Procedure

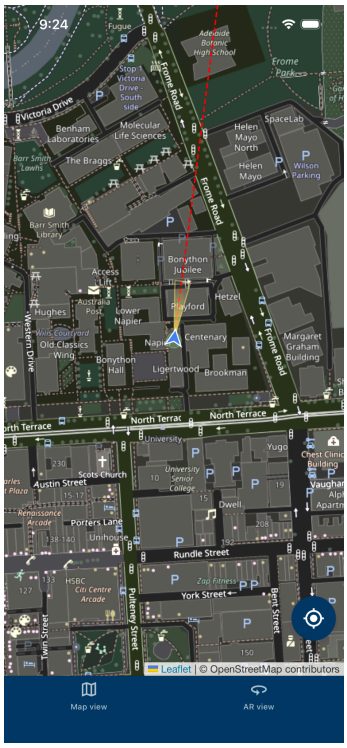
Step 1: Launch and Location Verification

Upon opening the app, you will be presented with a map view.

- **Your Position:** The blue arrow indicates your current physical location and the direction your phone is facing.
- **Target Direction:** The **red dotted line** projects the direct line of sight toward the target satellite.



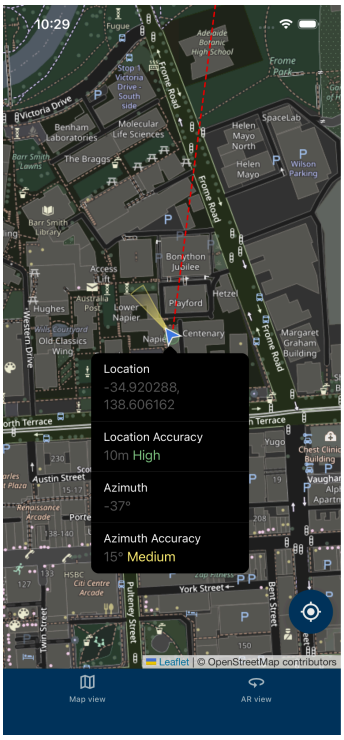
- **Action:** Ensure you are standing as close as possible to the actual installation site. Orient yourself so your phone points along the red line.



Step 2: Check Position Data

Verify your GPS accuracy and target coordinates.

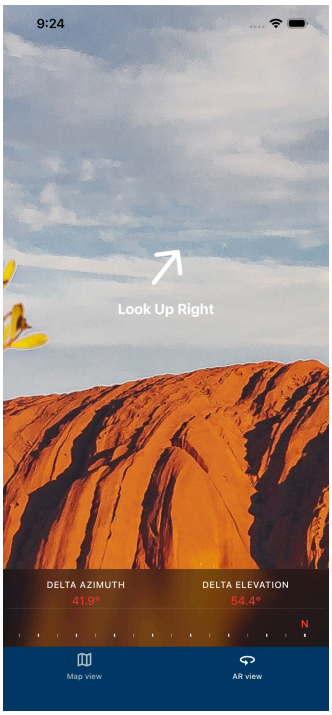
- **View Data:** Tap your location marker to bring up the data card.
- **Verify Accuracy:** Check the **Location Accuracy** (e.g., "19m High") and **Azimuth Accuracy**(e.g., "25° Medium").
    - If the location accuracy displayed is "Low" or red you should relocate to an open area to achieve a better GPS lock.
    - If the orientation accuracy displayed is "Low," or red, you should move your phone in a figure-eight pattern to help improve accuracy.
- **Review Azimuth:** Note the **Azimuth** (compass bearing) required for the satellite.The Azimuth is the horizontal angle measured clockwise from true North (0° or 360°) to the required direction for the satellite. For best performance you must accurately position your HyperPulse device in this precise horizontal direction



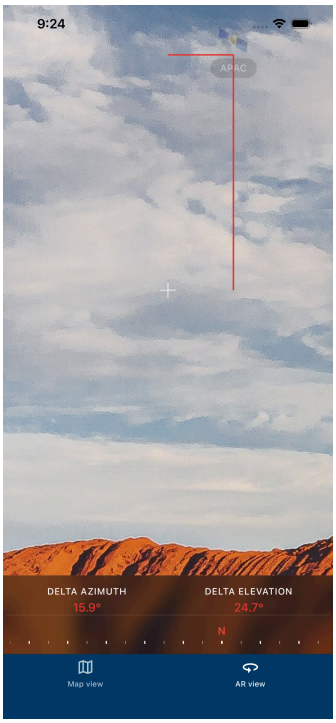
Step 3: AR Guidance (Rough Alignment)

Switch to the AR (Augmented Reality) camera view to visually scan for the satellite.

- **Follow the Arrows:** The screen will overlay directional prompts such as **"Look Up Left"** or **"Look Up"** to guide you to move the phone in the correct direction to accurately position it in the direction of the satellite



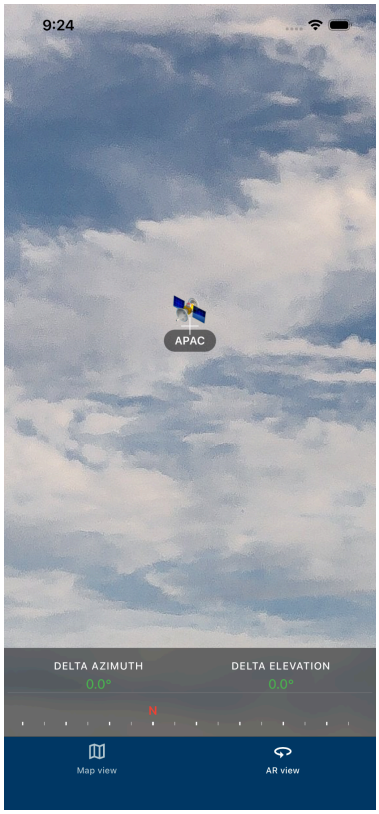
- **Monitor Delta Values:** Watch the numbers at the bottom of the screen:
    - **Delta Azimuth:** How far left or right you are from the target.
    - **Delta Elevation:** How far up or down you need to tilt.
- **Action:** Move your phone physically following the white arrows until the "Delta" numbers start to decrease.



Step 4: Fine Tuning and Target Lock

As you get closer to the correct angle, a digital graphic of the satellite (labeled **APAC in the example screenshot below**) will appear on your screen superimposed over the real world.

- **Align the Crosshair:** Move the phone until the center crosshair aligns with the satellite icon. The satellite position is accurate the most when the satellite and the crosshair align.
- **Indicators:** When the satellite and the crosshair are perfectly aligned:
    - The vertical guide line will turn **Green**.
    - The **Delta Azimuth** and **Delta Elevation** numbers will turn **Green** and approach **0.0°**.
    - The satellite icon will become brighter



- **Result: The position of the satellite icon on your screen represents the exact point in the sky where your device antenna needs to face.**

Troubleshooting Tips

- **Magnetic Interference:** If the Azimuth Accuracy stays low or the compass jumps around, move away from large metal objects (like cars or metal roofing) while calibrating.
- **Obstructions:** Use the AR view to check if trees or buildings are blocking the line of sight to the satellite icon.