

FYNAV

UAVIONIX FYXNAV QUICK START GUIDE

Quick Start Guide

The uAvionix FYXNav provides a high integrity position source. FYXNav can be programmed with a static ICAO and call sign using the Ping App.

- 1. Install
- 2. Connect
- 3. Join
- 4. Configure ping2020/ping1090
- **5.** Configure ping200S
- 6. Commit



Install the uAvionix Ping App from either the Apple App Store or Google Play. Search for **uAvionix Ping installer** or use the QR codes below.









Connect the **ping programmer** to **FYXnav** using the provided **JST ZHR-5 cable**.

Connect **ping programmer** to a power source using a **Micro-USB cable**.

Join your mobile device to the wireless network named **Ping-XXXX**, where XXXX is a random string i.e. Ping-6AFB.

The WPA passphrase is **uavionix**.

ping2020/ping1090 proceed to step 3.

ping200S proceed to step 4.

Ping2020/Ping1090 launch the **uAvionix Ping** application and complete the fields as required for your device/aircraft.

Selected Device Type: Choose the device FYXNav will be connected to.

Control: This setting controls device transmit functions. The selections available will depend on the device type selected.

Transceiver selections include:

TX enabled: Transmit ADS-B message at one second intervals, receive is also enabled.

Receive: Receive only, transmit disabled.

Standby: ADS-B in/out disabled.

ICAO: Enter your ICAO Number in Hexadecimal format. If your identifier is in octal (eight digits) format you must convert it prior to entry.

Call Sign: Enter the tail number of the aircraft. (A-Z 0-9)

Emitter: This should be set to your aircraft type. UAV is the selection for unmanned vehicles.

V_{so}: Enter airspeed in knots that the aircraft typically flies at after takeoff. Default value (1)

Aircraft Length: Select the length value in meters that matches your aircraft.

Aircraft Width: Select the width value in meters that matches your aircraft.

GPS Antenna Offsets: Choose the lateral and longitudinal offset in meters from GPS to the nose of your aircraft.

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Ping200s launch the **uAvionix Ping** application and complete the fields as required for your device/aircraft.

Selected Device Type: Choose ping200s.

Control: Select transmit a transmit type.

Standby: Transponder will not respond to interrogation.

Mode A: Replies to interrogation with 4 digit squawk code.

Mode C: Replies to interrogation with altitude information.

Mode S: Provides multiple information formats to a selective interrogation.

1090ES: ADS-B transmit enabled.

Combinations of the reply types are also available.

ICAO: Enter your ICAO Number in Hexadecimal format. If your identifier is in octal (eight digits) format you must convert it prior to entry.

Call Sign: Enter the tail number of the aircraft. (A-Z 0-9)

Emitter: This should be set to your aircraft type. UAV is the selection for unmanned vehicles.

VFR Code: Enter the default VFR code for your country. The United States code is 1200.

Maximum aircraft speed: Select your aircraft maximum speed.

ADS-B In Capability: Select aircraft ADS-B receive capability.

Aircraft Length: Select the length value in meters that matches your aircraft.

After completing all data fields tap the **Update** button.

You should receive the **Device Configured** message, tap **OK**.

Tap Monitor.

Verify all fields are correct for your aircraft.

The monitor fields will only populate when FYXNav has a GPS fix. A GPS fix is indicated by a flashing red LED.

A fix is not necessary for programming but is required to monitor the current configuration.

Disconnect power from **ping programmer**.

Disconnect FYXnav from ping programmer.

DING CONNECTED TO DEVICE		
Configu	Configuration Monitor	
Add	Iress	A00000
Cal	lsign	AVI001
Emitter Category		Unmanned Aerial Vehicle
Lati	tude	48° 5' 29.76"
Longi	tude	-114° 6' 17.27"
Altitude, Pres	sure	3075
Altitude, GPS		3150
	NIC	11
N	IACp	11
Emerg	ency	None

Mount FYXNav using the provided double-sided adhesive.

Remove both top and bottom backing from provided double sided tape. Adhere double sided tape to the underside of FYXnav in the correct orientation so 5-pin connector is not blocked by the adhesive.

Connect one end of provided **JST ZHR-5 cable** to **FYXnav**. Route cable through channel in adhesive. **Mount FYXnav** to a clean, smooth surface. The Ping logo on the top of the FYXnav should have an unobstructed view of the sky.