



FJD V1 BASE STATION

FJD V1

The FJD V1 Base Station is a lightweight, portable GNSS RTK receiver supporting all satellite constellations and frequencies. Featuring strong anti-interference and long communication range, it delivers centimeter-level accuracy even in harsh environments. Easy to set up, the V1 offers low-latency reliability ideal for precision farming and surveying. Its included bracket kit ensures stable, worry-free operation for consistent performance in the field.



CM-level Accuracy



Compact & Portable



Wide Work Range



Quick Deployment



Multi-Device Operation Support



Extended Long-Distance Communication



Global Constellation Coverage



IP67 Rating

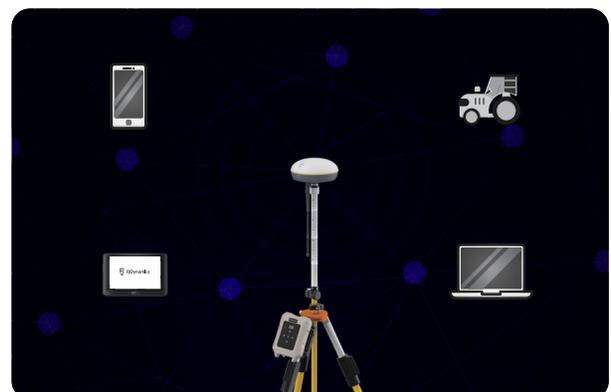
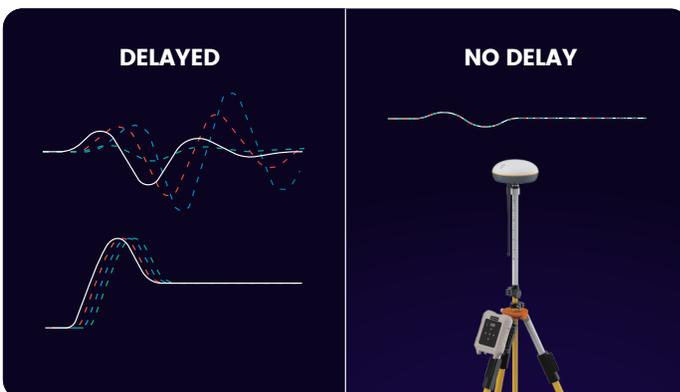
CENTIMETER-LEVEL PRECISION

Deliver high-precision positioning down to the centimeter. With an upgraded design for tough conditions, it can work with more types of farm machines, even on sloped or uneven terrain.



HIGH-QUALITY TRANSMISSION

Transfer data smoothly with almost no delay over a long communication range. It offers real-time data exchange for remote work, giving you the quick response you need for important jobs.



BUILT-TO-LAST DESIGN

Feature an industrial-grade dustproof and waterproof design. It works reliably in dust, wind, rain, and on rough fields. No matter where you work, you can trust it to last for years.



Dustproof



30 Min Underwater
1 Meter Depth

IMPROVED APP INTERACTION

Control your equipment easily with a simple, user-friendly app. The improved iOS connectivity and overall performance provide you with a more stable and convenient experience in the field.



iOS



Google Play



Download on the
App Store



GET IT ON
Google Play



APPLICABLE ACCESSORIES

P30 Cylindrical Battery

An all-in-one pole-mounted power source. It keeps your VI receiver running longer and makes setting up in the field much faster and easier.



FJ-HPR 400A

A high-power, long-range external radio transceiver designed for reliable GNSS data transmission in large-scale surveying and mapping projects.

QUICK SPECS

GNSS

GNSS Satellite System

Number of Channels	1408
GPS	L1C/A, L1C, L2C, L2P(Y), L5
BDS	B1I, B2I, B3I, B1C, B2a, B2b
GLONASS	G1, G2, G3
Galileo	E1, E5a, E5b, E6
QZSS	L1C/A, L1C, L2C, L5, L6
NavIC	L5
SBAS	L1C/A

Time To First Fix

Cold Start	<12s
Hot Start	<4s

RTK Initialization Time	<5s (baseline <10 km)
Initialization Confidence	>99.9%
Timing Accuracy	20 ns

Data Update Rate	1, 2, 5, Hz
Data Format	RTCM2.X, RTCM3.X, NMEA-0183

GNSS System Positioning Accuracy

Single-Point Positioning Accuracy (RMS)	Horizontal 1.5m Vertical 2.5m
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RTK Accuracy (RMS)	H: $\pm(8+1 \times 10^{-6} \times D)$ mm V: $\pm(15+1 \times 10^{-6} \times D)$ mm D is the baseline length (unit: mm)
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Communication Protocols

Bluetooth	Bluetooth 5.0 (BLE)
Wi-Fi	IEEE 802.11b/g/n protocol standard

Built-in Radio Module

Power Consumption	2W
*Optional	5W
Modulation Method	GMSK or 4FSK
Frequency	410–470 MHz
Protocol	TRIMTALK, TRIMMARK3, TT450S, TRANSEOT, SATEL 4FSK, LoRa

Battery

Battery Capacity	6500 mAh
Battery Life	8 hours (Base station, 2W transmit power)

External Power Supply

Voltage	Voltage: USB PD fast charging 30W Aviation plug support 9–32V DC
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Entire Unit

Dimensions	Ø162 × 86 mm
Total Weight	1.14 kg
IP Rating	IP67

Working Environment

Operating Temperature	-30°C to +60°C
Storage Temperature	-40°C to +70°C
Humidity	95%

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CREATE FOR A BETTER WORLD

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