DelGeo



FJD V1
Base Station



MAKE NAVIGATION MORE ACCURATE

The FJD V1 Base Station is a lightweight GNSS RTK receiver that supports all constellations and frequencies. With strong anti-interference capabilities, it provides fast and accurate positioning even in harsh environments. Its portable feature allows the product to be easily applied to and customized for various fields such as agricultural navigation, engineering surveys, and more. Our FJD V1 Base Station Bracket Kit, which comes with the station, offers extra stability and accuracy for agricultural operations.

Global Constellation Coverage

Wide Work Range

CM-level Accuracy

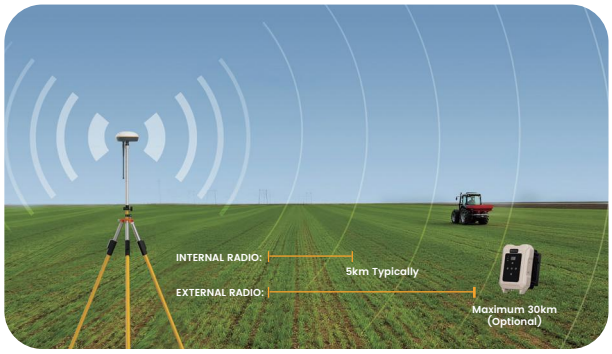
Long Battery Life

IP67 Rating

Lightweight & Durable

WIDE WORK RANGE

The product supports TRIMTALK, TRIMARK III, TT450S,TRANSEOT, and Satel 3AS 4FSK. Under normal conditions, V1 Base Station's work range is 5km, but it can vary from 3km to 8km, depending on interference in the working environment. With an FJD external radio, the working range can reach up to 30km in optimal conditions.



LONG BATTERY LIFE

Powered by a high-capacity battery, this device offers up to 10 hours of battery life when used in base station mode. For extended use, you can pair it with an external energy storage device or power it continuously through utility power.



LIGHTWEIGHT & DURABLE

Weighing only 1kg and constructed by Elektron materials for maximum portability, this product has undergone IP67 testing and a 1.5-meter drop test. Its long-lasting durability and corrosion resistance make it a perfect choice for your work.



EFFORTLESS CONNEC-TIVITY WITH APP

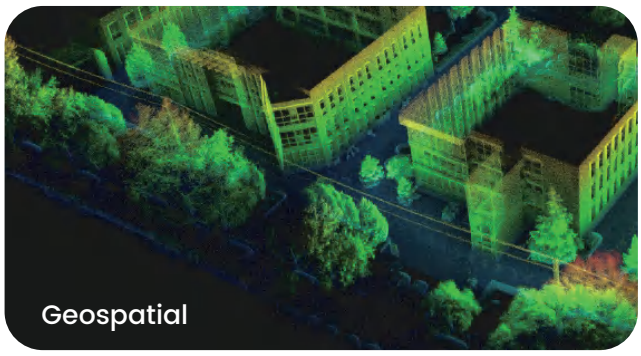
This app is specifically designed to assist users in rapidly configuring their base stations on both Android and iOS devices. Boasting a sleek interface and an exceptionally user-friendly experience, the setup process has never been more streamlined and efficient.



APPLICATION SCENARIOS

FJD V1 Base Station is widely used in the fields of agriculture and surveying. It provides stable differential positioning services for various mobile devices and effectively complements FJD's existing product lines, such as FJD AT1 Autosteering Kit, FJD AT2 Auto Steer System, FJD AL01 Land Leveling System, FJD G31 Excavator Guidance System, and FJD Vidar Z42P Smart Lawn Mower.









QUICK SPECS

GNSS

Satellite Constellation

GPS	L1, L1C/A, L2C, L2P, L5
BDS-2	B1I, B2I, B3I
BDS-3	B1I, B3I, B1C, B2a, B2b
GLONASS	G1, G2, G3*
Galileo	E1, E5a, E5b, E6C*, AltBOC*
QZSS	L1, L2C, L5, L1C*, L1-SALF
SBAS	L1C/A, L5*
IRNSS	L5*
L-band*	

* Firmware upgrade needed.

Channels

1408

GNSS positioning accuracy

Single positioning (RMS)	horizontal 1.5 m, vertical 2.5 m;
RTK	
Horizontal	8 mm+1 ppm, RMS
Vertical	15 mm+1 ppm, RMS

Data format

RTCM2.X、RTCM3.X、NMEA-0183

Built-in Radio

Power consumption	0.5 W/1 W
Frequency	410 MHz-470 MHz/ 840.5 MHz-845 MHz& 902 MHz-928 MHz
Protocol	TRIMATLK, TRIMMARK3, TT450S, TRANSEOT, Satel 3AS 4FSK
Work range	5 km in ordinary condition*

* Work range might be influenced by the real working enviroment.

Battery

Battery capacity	6500 mAh
Battery life	10 hrs typically*

* Bettery life might be influenced by the real working environment.

Power Supply

Voltage	USB PD fast charging 30 W
	Aviation plug support (9-32) V DC

Receiver

Size	ø162*86 mm
Weight	1.07 kg
IP rating	IP67

Ambient Environment

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

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