



FJD Trion™ V4E Mini RTK Receiver

Standard

Pro

SMALL IN HAND, BOUNDLESS ON LAND

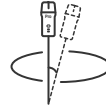
The FJD Trion V4E Mini RTK Receiver breaks the boundaries of traditional GNSS receivers with handheld convenience and portable precision. Weighing only 320g, the V4E delivers centimeter-level positioning without centering rods, making it perfect for individuals, teams, and professionals on the go. Easy to use and budget-friendly, it can instantly unlock the power of high-accuracy surveying.



Global Constellations
Supported 1408 Channels



H \leq 0.8 cm+1 ppm
V \leq 1.5 cm+1 ppm



Built-in IMU
Max 30° Tilt Survey



Laser Measurement
Accuracy @3m \leq 3cm



Pocket-Sized
Only 320g



Battery Life \geq 12h
Charging Time \leq 3h



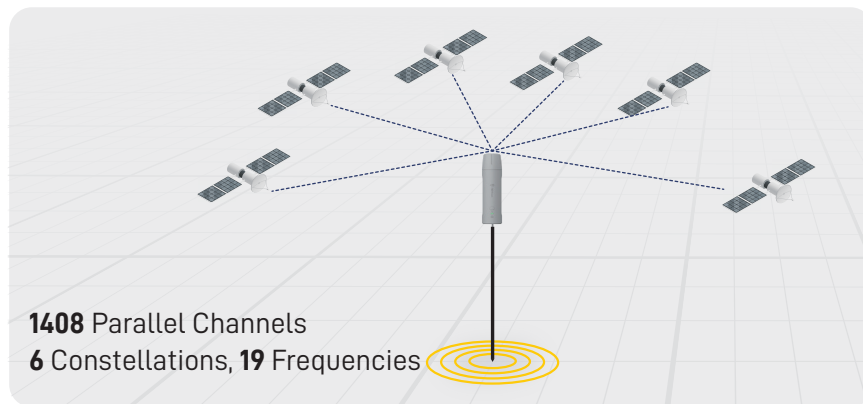
1.2m
Anti-Drop



Startup Time
Cold: \leq 30s, Hot: \leq 5s,
RTK Init: $<$ 5s

SMALL SIZE, BIG POWER

Deliver centimeter-level accuracy with \pm 1.5 cm static precision. It supports 1408 channels and covers all GNSS constellations, including GPS, BDS, GLONASS, Galileo, QZSS, and SBAS. Weighing only 320g, the V4E offers broad compatibility with popular correction services, supporting NTRIP connectivity with RTCM 2.3, RTCM 3.x, and CMR.



NO POLE, NO PROBLEM

Compensate for tilt angles up to 30° (Pro version) with a built-in IMU, so you don't need to hold it perfectly straight. This gives you \leq 3cm accuracy at a 3m distance without a leveling rod. Its onboard LiDAR rangefinder in the Pro version also achieves \pm 3mm precision at a 10m distance for precise point targeting.

BUILT TOUGH FOR ALL-DAY EFFICIENCY

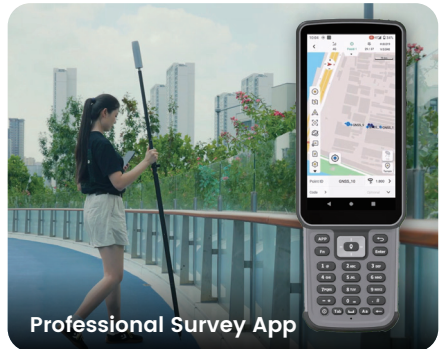
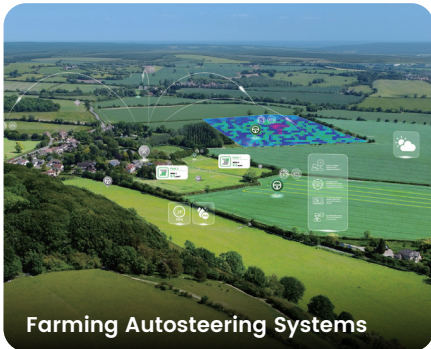
Stay powered up for the entire workday. It can run for over 12 hours and takes less than 3 hours to charge. You can even keep the V4E working while charging it with a power bank, so your work is never interrupted. With IP67-rated protection against water and dust, and resistance to drops from 1.2 meters, it's built to withstand tough environments.



EASIER ACCESS TO FJD TECH ECOSYSTEM

Access the FJD ecosystem quickly for a smooth workflow from field to machine. The GNSS data you collect with the V4E in the field can be directly used by FJD's farming autosteering systems, robotic mowers, and other smart devices for automated tasks. You don't have to convert the data, allowing you to work faster and reduce mistakes.

* Beyond the FJD ecosystem, its open design also supports customization to fit your unique needs.



APPLICATION SCENARIOS



SPECIFICATIONS

Galaxy System

BDS	B1I, B2I, B3I, B1C, B2a, B2b*
GPS	L1C/A, L2P, L5
GLONASS	G1, G2
Galileo	E1, E5b, E5a, E6*
QZSS	L1, L2, L5
SBAS	L1C/A

Channel

Parallel Channels	1408
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Data Types

Differential Data	RTCM2.3, RTCM 3.x, CMR
Data Format	NMEA-0183

Electrical and Interface Parameters

Charging Specs	5V/2A
Power Consumption	≤1.5W
Electrical Interface	USB 2.0 Type-C
Charging Time	≤3h
Battery Life	≥12h

Physical Characteristics

Shell Material	PC+ABS
Weight	320g
Buttons	On/Off
Operating Temperature	-20°C to 60°C
IP Rating	IP67

* Supported by specific firmware

Precision and Reliability

Signal Reacquisition	≤1s
Time to First Fix	Cold start≤30s; Hot start≤5s
RTK Initialization Time	< 5s
Initialization Data Reliability	< 99.9%
Data Update Rate	Measurement & Positioning: 1Hz, 2Hz, 5Hz, 10Hz, 15Hz, 20Hz
Single Point Solution Accuracy (RMS)	H≤1.5 m, V≤2.5 m
DGPS (RMS)	H≤0.4 m, V≤0.8 m
RTK (RMS)	H≤0.8 cm+1 ppm, V≤1.5 cm+1 ppm
Time Accuracy (RMS)	20 ns
Speed Accuracy (RMS)	0.03 m/s
Laser Tilt Measurement	3D error at 3m distance measurement ≤3cm (tilt angle ≤30°) (V4E Pro)

Communication

Bluetooth 4.0	Dual-mode Bluetooth Working distance: 5m
Wi-Fi (Base Station Mode)	2.4G Working distance: 300m (base station protocol)

Dimensions	182×53×53 mm
Mounting Interface	1/4 thread internal interface
Indicator Lights	Fixed disassembly & charging
Charging Temperature	0°C to 45°C

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