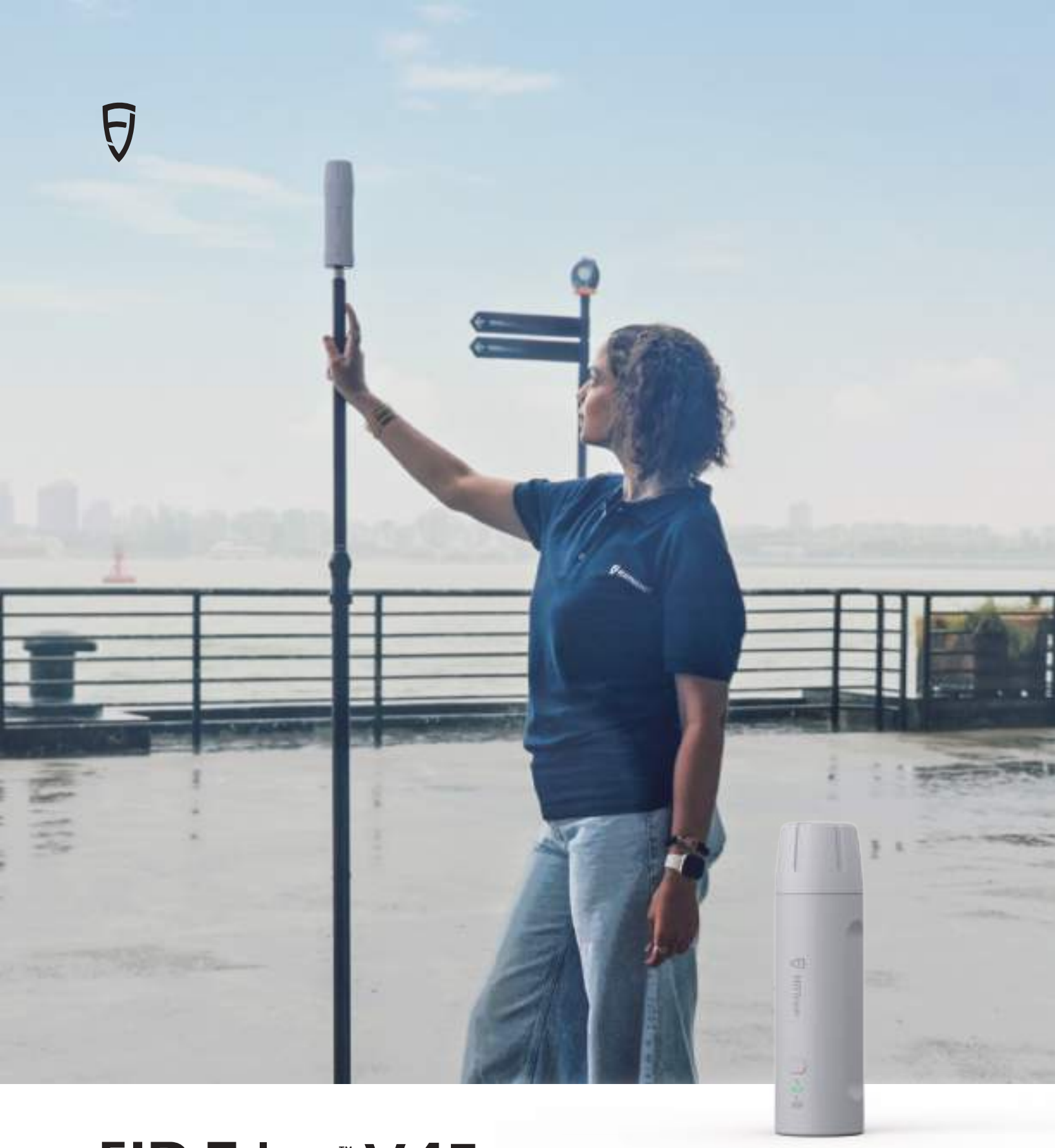


FJD Trion™ V4E
Mini RTK Receiver

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≤0.8 cm+1 ppm
V≤1.5 cm+1 ppm

Built-in IMU
Max 30° Tilt Survey

Laser Measurement
Accuracy @3m≤3cm

Pocket-Sized
Only 320g

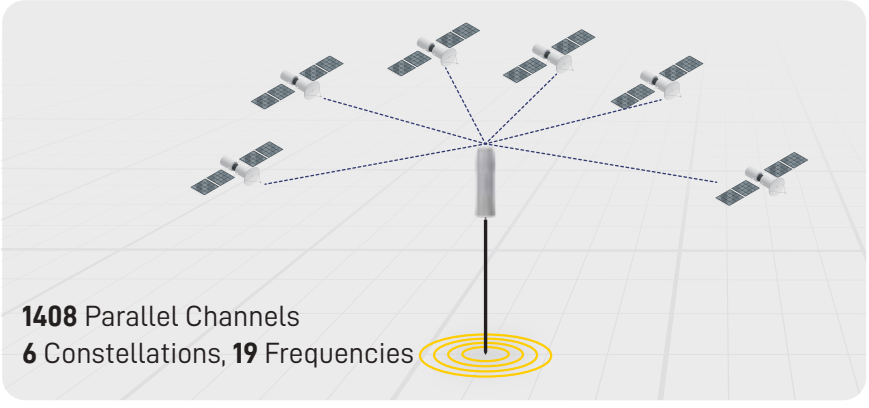
Battery Life ≥12h
Charging Time ≤3h

1.2m
Anti-Drop

Startup Time
Cold: ≤30s, Hot: ≤5s,
RTK Init: <5s

SMALL SIZE, BIG POWER

Deliver centimeter-level accuracy with ±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 ≤3cm accuracy at a 3m distance without a leveling rod. Its onboard LiDAR rangefinder in the Pro version also achieves ±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

Data Types

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

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)

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

Communication

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

Physical Characteristics

Shell Material	PC+ABS
Weight	320g
Buttons	On/Off
Operating Temperature	-20℃ to 60℃
IP Rating	IP67
Dimensions	182×53×53 mm
Mounting Interface	1/4 thread internal interface
Indicator Lights	Fixed disassembly & charging
Charging Temperature	0℃ to 45℃

* Supported by specific firmware

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FJDynamics.com

CREATE FOR A BETTER WORLD