



FJDTrion V4e Pro

HANDHELD RTK ROVER WITH LASER

POLE-FREE, WORRY-FREE

The FJD Trion V4e Pro is a lightweight handheld RTK rover weighing only 320 g, making it comfortable to use all day without fatigue. Its smart IMU sensors maintain an accuracy of ± 3.5 cm even at a 60° tilt, allowing you to measure targets from up to 3m away. The bright green laser is clearly visible even in direct sunlight, helping you find stakeout points quickly. With over 12 hours of battery life and a fast 3-hour recharge time, it makes field surveying faster, easier, and more flexible.



Global Constellations
1408 Channels



CM-Level Positioning
Accuracy @3m ≤ 3.5 cm



Visible Green Laser



Pocket-Sized
Weighing 320g



Laser Tilt Measurement
Max IMU $\pm 60^\circ$



12-Hour Runtime
Charging Time ≤ 3 h



1.2m Anti-Drop



Press to Measure

FEATURE HIGHLIGHT

Non-contact Measurement

Measure any point with just one click—no need to touch the target. Within a 3m range and even at a 60° tilt, the V4e Pro stays accurate to ± 3.5 cm thanks to its smart IMU sensors and high-precision positioning. You'll get steady, reliable results every time, even when holding it by hand without a pole.



Laser-guided Stakeout

Enable the laser tool in the Trion Survey app and follow the green laser to find your stakeout point fast. With just one click, the laser guides your survey easily and with high accuracy.



No Corners Left Unmeasured

Work at up to a 60-degree tilt and automatically fix the angle to give you accurate results. You no longer need to keep the receiver perfectly straight while measuring.



Visible Green Laser Under Sunlight

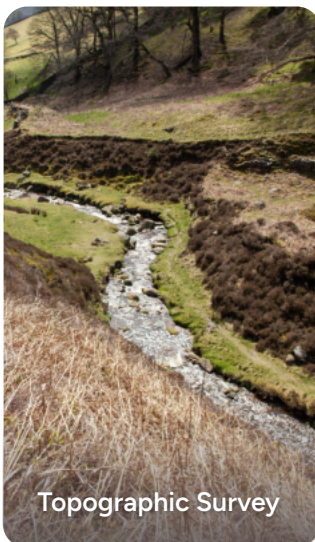
Utilize a bright green laser that is easy to see, even in direct sunlight. This eye-safe laser allows you to aim at targets quickly and clearly, helping you get outdoor projects done faster and more accurately.

Lightweight & Durable for Daily Use

Weigh just 320g with a 1.2m drop-resistant design. It runs for 12 hours on a single charge and takes less than 3 hours to recharge. You can hold it in your hand or place it directly on the ground without a pole. This makes measuring faster and easier, especially in tight or hard-to-reach spots.



APPLICATION SCENARIOS



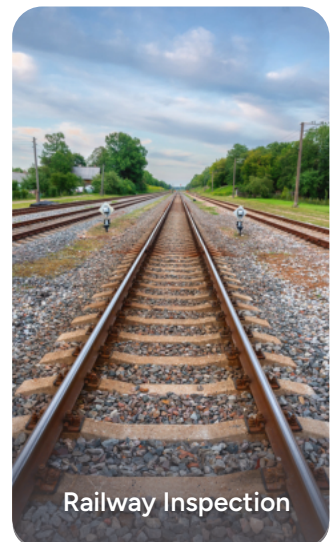
Topographic Survey



Utility Mapping



Boundary Marking



Railway Inspection

SPECIFICATIONS

GNSS

Channels	1408
BeiDou	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

Positioning

RTK Performance (RMS)	H: 0.8 cm+1 ppm, V: 1.5 cm+1 ppm
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, 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 Accuracy with Tilt Compensation	3.5cm/60°, 2.5cm/30°
Time Accuracy (RMS)	20 ns
Speed Accuracy (RMS)	0.03 m/s
Tilt Angle	0- 60°
Laser Measurement	3.5 cm (60°) within 3m,
Accuracy	2.5 cm (30°) within 3m

Communications and Data Storage

Differential Data	RTCM2.3, RTCM 3.x, CMR
Data Format	NMEA-0183
Bluetooth 4.2	Dual-mode Bluetooth Working distance: 5m

Hardware

Shell Material	PC+ABS
Dimensions	182 x 53 x 53 mm
Weight	320g
Li-ion Battery Capacity	5000 mAh
Laser	Laser Type: Class 2M GREEN Laser Wavelength: 510nm~550nm Measuring Range: 0.03m~60m Ranging Accuracy: ±3mm
Charging Parameters	5V/2A
Power Consumption	1.5W
Electrical Interface	USB 2.0 Type-C
Charging Time	≤ 3h
Battery Life	12h (1)
Mounting Interface	1/4 thread internal interface
Button	On/Off key
Indicators	Fixed disassembly indicator & charging indicator
Operating Temperature	-20°C– 60°C
Charging Temperature	0°C– 45°C
IP Rating	IP67

*: This requires specific firmware support.

1: Using tilt measurement and the laser tool all the time will make the battery run out faster.

Free Quote: sales.global@fjdynamics.com

Address: 15 SCOTTS ROAD #03-12, Singapore

FJDynamics.com



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