

FJD Trion[™] V1t

RTK Rover

A NEW WAY TO MEASURE THE WORLD

FJD Trion VIt, a versatile and lightweight GNSS RTK receiver, can fast deliver accurate positions in harsh environments with global signal coverage. VIt is engineered with an Inertial Measurement Unit (IMU) that frees you up from watching and leveling the bubble when measuring.



FJD TRION FIELD CONTROLLER E200

- 5-inch screen
- 7000 mAh, 24h battery life
- CPU 2.4GHz
- Memory 4+64 GB
- USB- Type C, OTG Support
- 1.5-meter drop test survivor



FJD TRION SURVEY

Trion Survey is an app that aids engineers in accurate measurement. It works with FJD Field Controller and FJD tablet for effort-less survey experiences. It supports Measure , Stake points, Stake lines and powerful Stake CAD function. In addition, we support Edit CAD function. The abundant functions can match with different customers requests. The concise interface and easy-to-understand icons make the measurement intuitive more than ever.



Measure



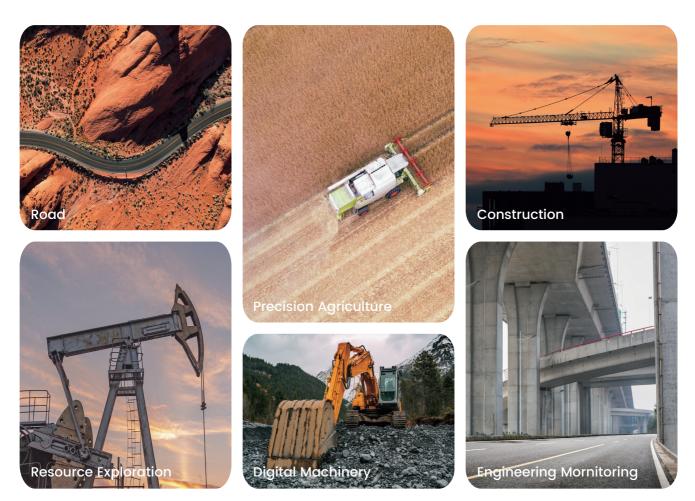
Stake points



Stake CAD



APPLICATION SCENARIOS



QUICK SPECS

GNSS Singal

GPS	l1, l1C/A, l2C, l2P, l5
	B1I, B2I, B3I
BDS-3	B11, B31, B1C, B2a, B2b
GLONASS	G1, G2, G3*
Galileo	E1, E5a, E5b, E6C*, AltBOC*
QZSS	L1, L2C, L5, L1C*, L1-SALF
SBAS	LIC/A, L5*
IRNSS	L5*
L-band*	
Receiver	
Size & Weight	Ø162*86 mm; 1070g
IP rating & Memory	IP67; 32GB
Battery	
Battery capacity	6500 mAh
Battery life	Base 10 h, Rover 15 h typically
Ambient Environment	
Operating temperature	-30 C ~ + 60 C
Storage temperature	-40 C ~ + 70 C
Humidity	100%, condensing

Positioning Performance

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Time to first fix	< 45 s (cold start)
	< 15 s (hot start)
Signal reacquisition	<1s
Pseudo-range accuracy	≤ 10 cm
Carrier phase accuracy	≤1mm
RTK initialization time	< 5 s (baseline length < 10 km)
Initialization reliability	> 99.9%
Channels	965
Single positioning (RMS)	Horizontal 1.5 m, vertical 3 m
Static accuracy	Horizontal: 2.5 mm+0.5 ppm, RMS Vertical: 5 mm+0.5 ppm, RMS
RTK accuracy	Horizontal: ±(8 mm+1 ppm), RMS Vertical: ±(15 mm+1 ppm), RMS
Timing accuracy	20 ns
Update rate	Raw observation data: 1, 2, 5, 10, 20 Hz
	Real-time positioning data: 1, 2, 5, 10, 20 Hz
Tilt Survey accuracy	30°/2.5cm (H) ,Max angle 60°
Data format	Input &output: RTCM3.X, NMEA-0183 Input: CMR, RTCM2.X

Wi-Fi

Protocol	IEEE 802.11b/g/n protocol standard
Internal Radio	
Power consumption	1 W
Modulation type	GMSK or 4FSK
Frequency	(410-470) MHz / (902-928) MHz
Protocol	TRIMATLK, TRIMMARK III, TT450S, TRANSEOT, Satel 3AS 4FSK
Power Supply	
Voltage	USB PD fast charging 30 W;
-	Aviation plug support (9-32) V DC
Bluetooth	
Protocol	BR / EDR
Indicator	
Туре	Power, data, satellite and Bluetooth
I/O Ports	
Туре-С	Support 12 V DC Fast charge
UHF Antenna port	Support UHF antenna connection
7pin-Lemo	Support 9 - 32 V DC power input External Radio Port

Free Quote:sales.global@fjdynamics.com

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