

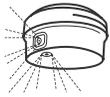


FJD Trion V10i

GNSS Receiver with Visual Measure

Grab the V10i and Start Measuring

Integrating an OLED screen, IMU, and dual cameras, V10i brings a new level of productivity to field surveying. AR Stakeout provides real-time visual guidance for faster stakeouts, while Visual Measure enables accurate measurement of hard-to-reach locations.



Visual Measure & AR Stakeout
Dual cameras: 2 MP Forward, 5 MP Downward



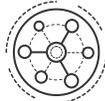
IMU-based Tilt Compensation
Support Visual Measure Tilt 60° Calibration-free



RTK Accuracy
H: 8 mm + 1 ppm RMS
V: 15 mm + 1 ppm RMS



Rugged Reliability
2 m Drop-proof



Communication Diversity
SIM Card and UHF radio, Supports NFC, WiFi & Bluetooth



Global Constellations Supported
1408 channels: GPS, GLONASS, GALLIEO, BeiDou, QZSS, SBAS

CAPTURE MORE, WORRY LESS



Use AR guidance and visual measurement to work on site

With built-in IMU support, V10i lets you capture points and build measurement models using only the receiver. Visual guidance makes stakeout easier to follow, even on complex sites.

Tilt Surveying for High Efficiency

Supporting the tilt survey of 60 degrees, the V10i automatically compensates the tilted position to deliver accurate results, eliminating the need to hold the survey pole upright while measuring. This allows you to focus on more mission-critical tasks.



Multi-communication Channels

Connect the V10i through Wi-Fi, Bluetooth, or NFC on site. UHF radio and SIM card support help keep data flowing across different network and site conditions.

Clear On-Device Status, Simple Control

Check device status on the built-in OLED screen, even in bright sunlight. Use buttons to switch working modes, and audio feedback to stay aware of system status while you work.

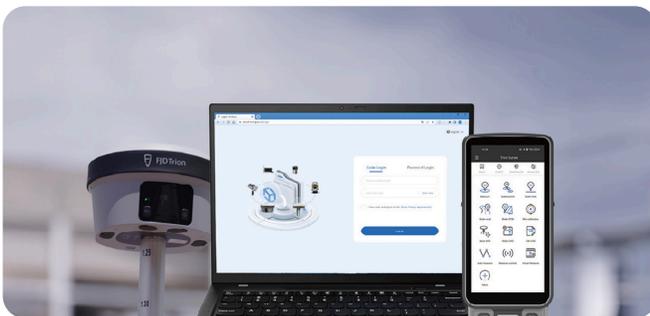


Choose Your Controller

V10i supports multiple controller options, including a keyboard controller, an 8-inch tablet, and a 10-inch tablet. Each option is designed to suit different workflows.

From Field to Office

Use FJDynamics Business Center (FBC) to send field data back to the office and update projects. Share settings and key project data so field and office teams stay in sync.

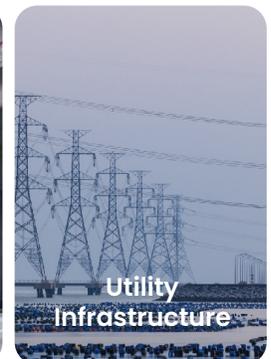
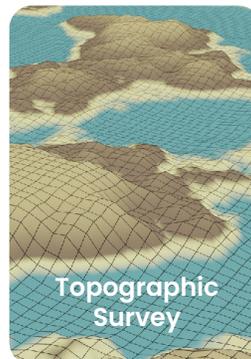
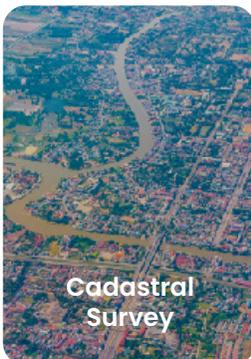


Built Tough for Real-World Conditions

V10i is designed for everyday outdoor work—handling rain, rough handling, and long hours on site without disrupting measurement tasks.



Helps You Get It Right, Anywhere



SPECIFICATIONS

GNSS

Channels	1408 channels
GPS	L1A, L1C, L2C, L2P, L5
GLONASS	L1, L2, L3
Beidou	B1I, B2I, B3I, B1C, B2a, B2b
Galileo	E1, E5a, E5b, E6
QZSS	L1, L2C, L5, L6*
IRNSS	L5*
SBAS	L1 C/A
HAS-PPP	E6

*Support by a firmware upgrade.

Communications and Data Storage

SIM card type	Nano-SIM card
Network modem	Integrated 4G modem: TDD-LTE, FDD-LTE, WCDMA, EDGE, GPRS, GSM
Wi-Fi	2.4&5 GHz, 802.11a/b/g/n/actouch pairing
Wireless connection	NFC for device
Bluetooth®	BT4.2&BLE
Ports	7-pin LEMO port UHF antenna port USB Type-C port
Built-in UHF radio	Rx/tX: (410-470)MHz / (902-928)MHz Transmit Power: 2W Protocol: TRIMTALK, TRIMMARK III, TT450S, TRANSEOT, Satel 3AS 4FSK, Lora Link rate: 9,600 bps to 19,200 bps Range: typical 6-12 km, up to 16km with optimal conditions ⁶
Data formats	Input&Output: NMEA-1083, RTCM3.X Input: RTCM2.X, CMR
Data storage	32 GB internal memory

Camera

Sensor resolution	Forward: 2 MP, downward: 5 MP
Field of view	83°
Image group capture	Method: video photogrammetry Max. capture time: 30s with an image group size of appr. 30MB
Illumination	Starlight-grade camera with global shutter Large Format Sensor (3µm*3µm) Maintain full color at illumination levels

¹ Open sky conditions ⁴ No information available (no almanac, no approx position)
² RMS levels ⁵ Ephemeris and approx. position known
³ Baseline < 40 km ⁶ Ideal environment

Positioning

RTK performance ^{1,2,3}	H: 8 mm + 1 ppm RMS V: 15 mm + 1 ppm RMS Initialization time: < 5s Initialization reliability: > 99.9%
Post-processing static	H: 2.5 mm + 0.5 ppm RMS V: 5 mm + 0.5 ppm RMS
High-precision static	H: 2.5 mm + 0.1 ppm RMS V: 3.5 mm + 0.4 ppm RMS
PPK accuracy	H: 3 mm + 1 ppm RMS V: 5 mm + 1 ppm RMS
PPP accuracy	RMS Horizontal: ±20 cm, RMS Vertical: ±40 cm
Code differential	H: 0.4 m RMS V: 0.8 m RMS
Autonomous	H: 1.5 m RMS V: 2.5 m RMS
SBAS	60 cm
Positioning Rate	1 Hz, 2 Hz, 5 Hz, 10 Hz and 20 Hz
Visual survey accuracy	Typically 3 cm, range 2-15 m
Tilt angle	0-60°
RTK accuracy with tilt-compensation	RMS: 8 mm + 0.6 mm/° tilt Cold start ⁴ : < 20s Warm start ⁵ : < 5s Signal re-acquisition: < 1s
Time to First Fix	

Hardware

Temperature	Operating: -35 C - 65 C Storage: -40 C - 70 C
Humidity	95% non-condensation
Ingress protection	IP68, dustproof, protected from continuous immersion to depth of 1 m
Drop	Designed to survive a 2-meter pole-drop
Li-ion battery capacity	Built-in battery 7000 mAh, 7.4 V 30W PD Fast Charge
Operating time on internal battery	Rover 15 h, Base 10 h Static: > 25 h
External power input	9-28 V DC
Dimensions (D×H)	Φ130×83 mm
Weight	Approximately 970 g
True color OLED Screen	1.41 inches (320*360, 274ppi)
Power consumption	UHF/4G RTK Rover w/o camera: Typical 3W Visual stakeout/Visual Survey: Typical 4.5W
Waterproof and breathable membran	prevent water vapor from entering under harsh environments
Front panel	1.41" OLED True Color Display (274ppi, 350nit) 4 LED, 2 physical buttons
Tilt Sensor	Immune to magnetic disturbances E-bubble leveling

Note: The battery life is subject to the operation environment, working temperature, and working mode. It has a standard lifespan in normal operating conditions.

Free Quote: sales.global@fjdynamics.com

Address: 15 SCOTTS ROAD #03-12, Singapore

