



FJD Trion[™] V10i

GNSS SYSTEM WITH VISUAL POSITIONING

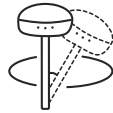
PRECISION REDEFINED: VISION BEYOND COORDINATES

Grab the V10i and get measuring. Integrating GNSS, IMU and 2 cameras, the V10i gives you real-time visual guidance on stakeouts and a next-level productivity boost in operations in hard-to-access locations.



Visual Positioning & AR Stakeout

Dual cameras: Global Shutter, 2 MP Forward, 5 MP Downward



IMU-based Tilt Compensation

Max Tilt 60°
Calibration-free



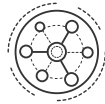
RTK Accuracy

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



Rugged Reliability

IP68, 2 m Drop-proof



Consistent Connectivity

Built-in 4G LTE and UHF, Supports NFC, WiFi & Bluetooth



Global Constellations Supported

1408 channels; GPS, GLONASS, Galileo, Beidou, QZSS, SBAS, IRNSS

CAPTURE MORE, WORRY LESS

Clear vision, precise measurements



The onboard processing software, along with a 2 MP front camera and a 5 MP downward camera equipped with global shutters, seamlessly generate coordinates and measurements directly on the field controller. View and save coordinate information with just a few taps.

Safer missions with more control



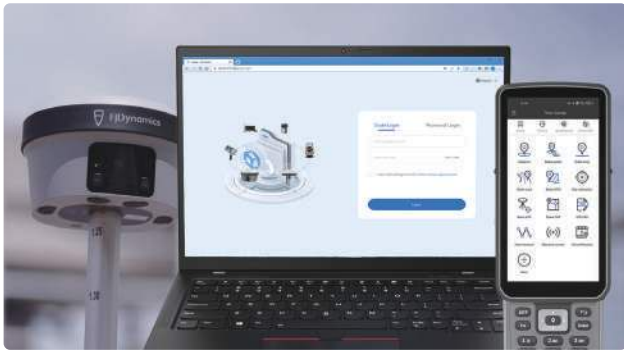
Measure and stake out points by following simple illustrations on screen without losing situational awareness. Measure coordinates at survey-grade accuracy with robust IMU-based tilt compensation that requires no calibration, and no more watching the level bubble.

Stay connected wherever your job takes you



- WiFi
- 4G LTE modem
- Bluetooth
- Nano SIM card
- Built-in UHF radio that transmits receives within a 5-8 km range typically.

Field to Office - Enhance Productivity with Trion Survey Cloud



Seamlessly connect field and office teams. Transmit field data and project updates in real-time, expediting work on both ends. No more waiting, just productivity.

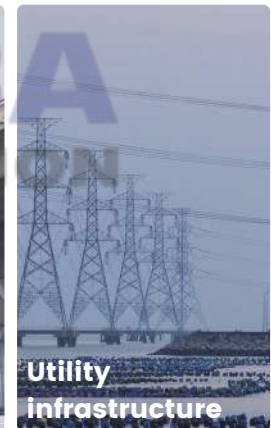
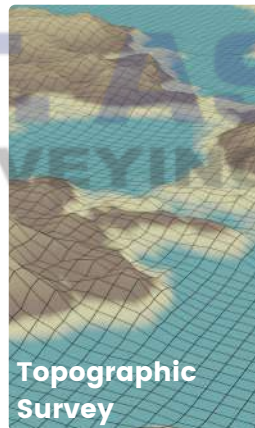
Share system parameters and set up data, including coordinate systems, geoid models, and datum grid files.

Built Tough, Engineered to Perform



The alloy body of the V10i is lightweight and resistant to magnetic interference. The upgraded build enables consistently strong satellite availability even with obstructed sky or less than ideal weather conditions. You can trust the V10i to keep on working even if it's rained on or dropped.

APPLICATION SCENARIOS



ACCESSORIES

FJD Trion Field Controller E600

With Trion Survey app

- 720*1440, 5.5-inch large screen
- 7700mAh, Fast Charge
- CPU: 8 cores 2.0GHz
- Memory 3+32 GB
- 13 MP camera with auto-focus
- 1.5-meter drop-proof & IP67
- BT5.0 (BLE), NFC, WiFi, 2G, 3G & 4G



SPECIFICATIONS



GNSS Performance

Channels	1408 channels
GPS	L1A, L1C, L2C, L2P, L5
GLONASS	L1, L2
Galileo	E1, E5a, E5b, E6*
BeiDou	B1I, B2I, B3I, B1C, B2a, B2b*
QZSS	L1, L2C, L5, L6*
IRNSS	L5*
SBAS	L1*

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	NFC for device touch pairing
Bluetooth®	2.4&5 GHz, 802.11a/b/g/n/ac
Ports	BT4.2&BLE 7-pin LEMO port UHF antenna port
Built-in UHF radio	Rx/Tx: (410-470)MHz / (902-928)MHz Transmit Power: 1W Protocol: TRIMTALK, TRIMMARK III, TT450S, TRANSEOT, Satel 3AS 4FSK Link rate: 9,600 bps to 19,200 bps Range: 5-8 km typically
Data formats	Input&Output: NMEA-1083, RTCM3.X Input: RTCM2.X, CMR
Data storage	16 GB internal memory
Speech recognition accuracy	98%

Positioning Performance

Real time kinematic (RTK)	H: 8 mm + 1 ppm RMS V: 15 mm + 1 ppm RMS Initialization time: < 5 s Initialization reliability: >99.9%
Post-processing static	H: 2.5 mm + 0.5 ppm RMS V: 5 mm + 0.5 ppm RMS
Code differential	H: 0.4 m RMS V: 0.8 m RMS
Autonomous	H: 1.5 m RMS V: 2.5 m RMS
Visual survey accuracy	Typically 3 cm, range 2-15 m
Positioning rate	1 Hz, 5 Hz and 10 Hz
Time to first fix	Cold start: < 20s, Hot start: < 5s Signal re-acquisition: < 1 s
Tilt angle	0-60°
RTK accuracy with tilt-compensation	30°/2.5 cm

Hardware

Temperature	Operating: -30°C - 60°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 30 W 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)	Φ 130 × 83 mm
Weight	Approximately 1 kg
True color OLED Screen	1.41 inches
Sensor resolution	Forward: 2 MP, downward: 5 MP, both with global shutter
Field of view	70°

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