

GNSS SYSTEM WITH IMU SURVEY

A NEW WAY TO MEASURE THE WORLD

The FJD Trion VIt receiver uses a next-generation GNSS positioning module to support higher satellite tracking channels and RTK measurement accuracy and reliability in complex environments. The PPP function is added on the basis of the original function unchanged. The VIt receiver supports the PPP differential function derived from Galileo E6b, enabling continuous and stable PPP operation in areas covered by Galileo signals.



FJD TRION FIELD CONTROLLER E600

- 5.5-inch screen
- 7700 mAh, 24h battery life
- CPU 2.2GHz
- Memory 4+64 GB
- USB- Type C, OTG Support
- 1.8-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&Draw Stake Road

Stake DTM

Stake CAD



APPLICATION SCENARIOS













QUICK SPECS

GNSS Singal

GPS L1. L1C/A. L2C. L2P. L5

BDS BII, B2I, B3I, B1I, B3I, B1C, B2a, B2b

GLONASS G1, G2, G3*

Galileo E1, E5a, E5b, E6C*, AltBOC* L1, L2C, L5, L1C*, L1-SALF QZSS

SBAS L1C/A, L5* **IRNSS** L5* HAS-PPP E6

Receiver

Size & Weight Ø162*86 mm; 1070g

IP rating & Memory IP67: 32GB

Battery

6500 m4h **Battery capacity**

Battery life Base 10 h, Rover 15 h typically

Ambient Environment

Operating temperature -30 °C ~ + 60 °C Storage temperature -40 ℃ ~ + 70 ℃ Humidity 100%, condensing

Positioning Performance

Time to first fix < 20 s (cold start)

< 1 s Signal reacquisition Pseudo-range accuracy

≤1mm Carrier phase accuracy RTK initialization time

Initialization reliability

Single positioning (RMS)

Static accuracy RTK accuracy PPP accuracy

Channels

Timing accuracy Update rate

Tilt Survey accuracy

Data format

UHF Antenna port

< 10 s (hot start)

≤ 10 cm

Wi-Fi

Protocol

Internal Radio

Power consumption

Modulation type

Power Supply

Frequency

Protocol

Voltage

Protocol

Type

Bluetooth

Indicator

I/O Ports

Type-C

7pin-Lemo

< 5 s (baseline length < 10 km)

99.9% 1408

Horizontal: ±1.5 m, vertical: ±2.5 m

Horizontal: ±(2.5 mm+0.5 ppm), RMS Vertical: ±(5 mm+0.5 ppm), RMS Horizontal: \pm (8 mm+1 ppm), RMS Vertical: \pm (15 mm+1 ppm),

IEEE 802.11b/g/n protocol standard

(410-470) MHz / (902-928) MHz

Aviation plug support (9-32) V DC

Power, data, satellite and Bluetooth

Support 12 V DC Fast charge

External Radio Port

Support UHF antenna connection

Support 9 - 32 V DC power input

TRIMATLK, TRIMMARK III, TT450S.

TRANSEOT. Satel 3AS 4FSK

USB PD fast charging 30 W

1 W (1.8W Optional)

GMSK or 4FSK

BR / EDR

RMS Horizontal: ±20cm, RMS Vertical: ±40cm, RMS

Raw observation data: 1, 2, 5, 10, 20 Hz Real-time positioning data: 1, 2, 5, 10, 20 Hz

30°/2.5cm (H) ,Max angle 60° Input &output: RTCM3.X, NMEA-0183

Input: CMR, RTCM2.X

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