

FJD Trion EG10

Wireless excavator guidance system for fast deployment

Get more done with less setup

EG10 brings precise excavation guidance to every operator. The wireless system delivers ±3 cm accuracy at tilt angles of up to 60° from vertical, while its intuitive design helps even first-time users work with confidence. A modular setup also makes it quick and easy to move between machines.

Multi-GNSS Support

±3 cm Accuracy
(Tilt ≤ 60° from vertical)

AR Camera Guidance
Real-time 3D Mapping

All in One
Surveying & Construction in One System

Wireless Connectivity
BT, Wi-Fi

Integrated 4G Modem
LTE-FDD, LTE-TDD, WCDMA GSM/EDGE

AIoT Connectivity
Seamless Data Sync

Quick Setup
10 min Installation
25 min Calibration

Levelling

Set a unified elevation for precise levelling, ensuring a consistent surface. Ideal for land levelling, factory site grading, or sludge cleanup.



Line Guidance

Define a straight alignment and target elevation in software for trench or channel excavation.



Slope Formation

Software-defined longitudinal and cross-slopes enable one-pass slope forming for embankments, riverbanks, and roadbeds.



AR Guidance

Uses a camera to overlay bucket paths, design lines, and measurements for precise operation.



Optional Features

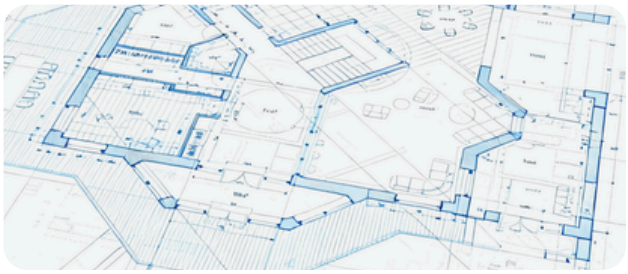
Global Coordinate Systems

6,000+ predefined coordinate systems worldwide. Grid and geoid models are downloaded online for instant use and fast configuration in new work areas.



Multi-Layer Support

Supports DWG, DXF, SHP, KML, and XML data formats, with efficient layer management and rendering for smooth multi-layer workflows.



FJD Trion TerraMind

Bringing clarity to your worksite management



Device Management

Real-time machine locations, status, and utilisation allow on-site dispatchers to coordinate efficiently and improve equipment use.

Project Management

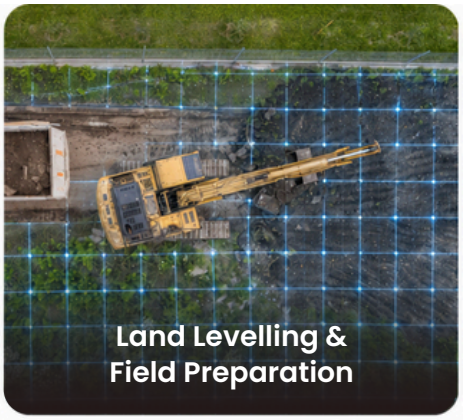
Centralised project progress and resource data help managers track construction progress while giving leadership visibility into risks.

Cross-Team Collaboration

Cloud-synced design and field data support more efficient task execution in the field, reducing communication gaps and streamlining workflows.

Helps you get it right, anywhere

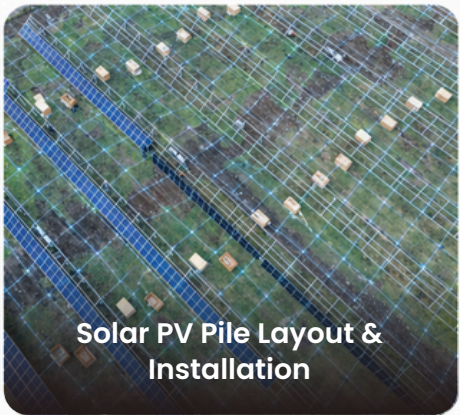












Specifications

Receiver

GNSS

Channels	1408 channels
GPS	L1C/A, L1C, L2C, L2P(Y), L5
GLONASS	L1, L2, L3
BeiDou	B1I, B3I, B1C, B2a, B2b
Galileo	E1, E5a, E5b, E6
QZSS	L1C/A, L1C, L2C, L5, L6
NavIC	L5
SBAS	L1 C/A
HAS-PPP	E6

Camera

Sensor resolution	Forward: 5 MP, Downward: 5 MP
Field of view	83°

Hardware

Temperature	Operating: -35°C to +60°C; Storage: -40°C to +70°C
Ingress protection	IP68-rated: dust-tight and protected against continuous immersion in water up to 1 m
Li-ion battery capacity	Built-in battery 7.4 V/ 4,900 mAh & 30 W PD fast charging

Communications and Data Storage

SIM card type	Nano-SIM card
Network modem	TDD-LTE, FDD-LTE, WCDMA, EDGE, GPRS, GSM
Wi-Fi	2.4 GHz, 802.11 b/g/n
Wireless connection	NFC device pairing
BT	BT4.2 & BLE
Ports	7-pin LEMO port (External radio) UHF antenna port USB Type-C port
Built-in UHF radio	Rx/Tx: 410-470 MHz/ 902-928 MHz Protocol: TRIMTALK, TRIMMARK III, TT450S TRANSEOT, Satel 3AS 4FSK, LoRa Link rate: 9,600 bps to 19,200 bps
Data storage	32 GB internal memory

Operating time on internal battery	Rover 15 h, Base 10 h Static: > 25 h
External power input	9-32 V DC
Dimensions (D x H)	130×68 mm
Weight	Approximately 800 g

IMU

Base Dimensions	139×40×12 mm (L×W×H)
IMU Dimensions	110×52×52 mm (L×W×H)
Battery	3.7 V/ 6,400 mAh & 12 W PD Fast Charging
Operating Time	84 hours of continuous operation
Operating Temperature	-40°C to +60°C
Storage Temperature	-40°C to +70°C
Ingress protection	IP67
Gyroscope Resolution	0.0076 °/s
Accelerometer Resolution	0.0916 mg
Bluetooth Protocol	BLE 5.1

T10 Tablet

Product size	251×170×17 mm
Weight	<700 g
System	Android 15
RAM	4 GB
Flash	64 GB
BT	Supported
Wi-Fi	Supported

Note: Battery life may vary depending on operating conditions, including environment, temperature, and usage patterns.

RTK Magnetic Holder

Dimensions	216×203×80 mm (L×W×H)
Weight	800 g

Free Quote: sales@fjdtrion.com

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Build on Precision, From Vision to Reality

FJDTrion