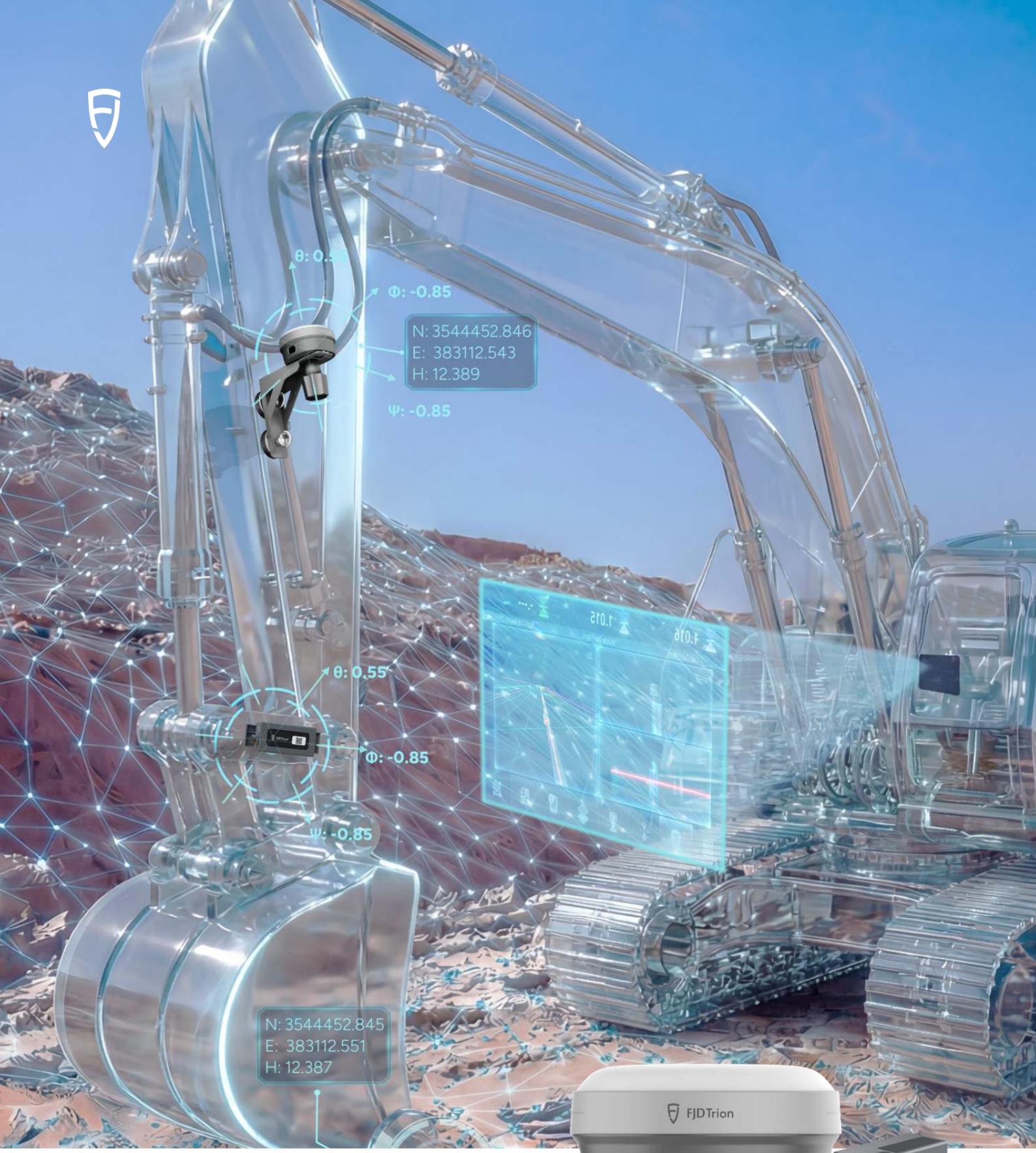



# FJDTrion EG10

## EXCAVATOR GUIDANCE SYSTEM

# EG10 - MAKE YOUR WORK EASIER

EG10 is a wireless excavator guidance system with 3 cm accuracy (angle ≤60°). Designed for simplicity, it allows even beginners to operate with ease. Its modular design enables quick switching between machines.

**Multi-GNSS Support**

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

**AR Camera Guidance**
Real-time 3D Mapping

**Multi-Purpose**
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 Install
25 min Calibration

## Leveling

Set a unified elevation for precise leveling, ensuring a consistent surface — ideal for land leveling, factory site grading, or sludge cleanup



## Line Guidance

Set straight-line elevation in software for trenching or channel excavation, ideal for drainage pipeline installation and trench excavation.



## Slope Construction

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

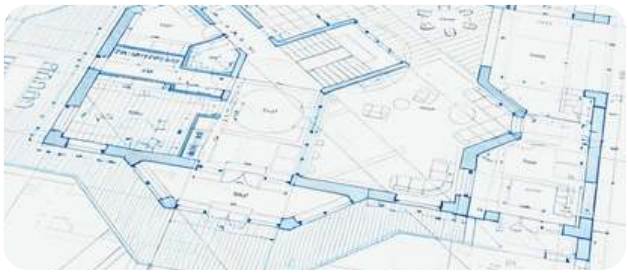
### Global Coordinate Systems

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




### Multi-Layer Support

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



# DIGITAL CONSTRUCTION — BRINGING CLARITY TO YOUR JOBSITE MANAGEMENT



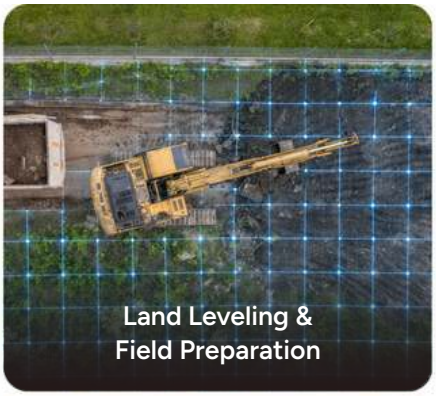

### Device Management
Real-time machine locations, status, and utilization allow on-site dispatchers to coordinate efficiently and improve equipment use.

### Project Management
Centralized project progress and resource data help managers track construction pace and allow leadership to monitor risks.

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

# APPLICATION SCENARIOS















# SPECIFICATIONS

## Receiver

### GNSS

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

*Supported by a firmware upgrade.

### 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, dustproof, protected from continuous immersion to a depth of 1 m |
| Li-ion battery capacity | Built-in battery 7.4V/4900mAh & 30W PD Fast Charge |

### 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, 802.11b/g/n |
| Wireless connection | NFC for device |
| BT | BT4.2 & BLE |
| Ports | 7-pin LEMO port (External radio)<br>UHF antenna port<br>USB Type-C port |
| Built-in UHF radio | Rx/tX:(410-470)MHz/(902-928MHz)<br>Protocol: TRIMTALK, TRIMMARK III, TT450S, TRANSEOT, Satel 3AS 4FSK, Lora<br>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<br>Static: > 25 h |
| External power input | 9-32V DC |
| Dimensions (DxH) | 130×68 mm |
| Weight | Approximately 800g |

## IMU

| | |
|---|---|
| Base Dimensions | 139×40×12mm (L×W×H) |
| IMU Dimensions | 110×52×52mm (L×W×H) |
| Battery | 3.7V/6400mAh & 12W PD Fast Charge |
| Operating Time | 84 hours continuous operation |
| Operating Temperature | -40°C to +60°C |
| Storage Temperature | -40°C to +70°C |
| Ingress protection | IP 67 |
| Gyroscope Resolution | 0.0076 °/s |
| Accelerometer Resolution | 0.0916 mg |
| BT Protocol | BLE 5.1 |

## T10 Tablet

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

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

## RTK Magnetic Holder

| | |
|---|---|
| Dimensions | 216×203×80mm(L×W×H) |
| Weight | 0.8Kg |

Free Quote: sales.global@fjdynamics.com
Address: 15 SCOTTS ROAD #03-12, Singapore

FJDynamics.com

**CREATE FOR A BETTER WORLD**

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