

FJD Trion Catalogue

Build on Precision
From Vision to Reality

Transforming the World with World Models

FJD Trion

Free Quote: sales@fjdtrion.com

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FJD Trion Essential

FJD Trion Essential is designed for users who need a simple and accessible way to capture real-world spaces and turn them into usable digital data. With easy-to-deploy tools for daily site capture, basic mapping, and online data viewing, Essential helps teams get started quickly without complex setup or special workflows. It is ideal for customers who need reliable digital information for everyday planning, documentation, and communication.

FJD Trion Professional

FJD Trion Professional is built for teams that require advanced reality capture, high-precision data processing, and intelligent field execution within a unified ecosystem. Combining professional-grade hardware with powerful software, it supports end-to-end workflows from data capture and modelling to analysis, collaboration, and on-site execution for complex projects.

FJD Trion V1t

GNSS receiver with extended field range.

Stable GNSS over distance

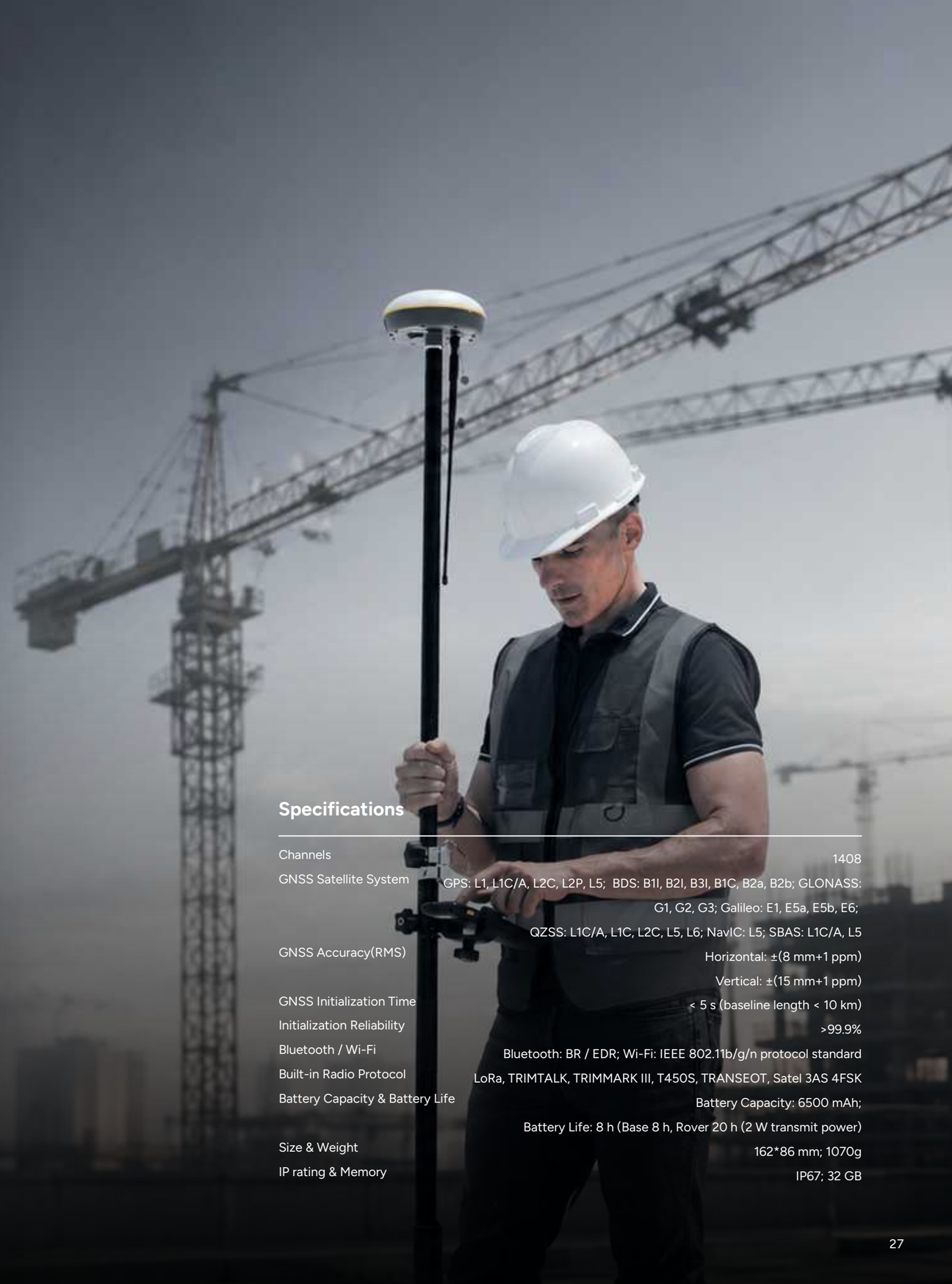
Flexible 2 W / 5 W radio options support reliable long-distance operation across large worksites and open field environments.

Built for tough field work

Rugged performance and strong anti-interference support help maintain positioning stability in demanding survey conditions.

Measure faster with tilt

IMU tilt compensation lets users measure points without constantly leveling the pole, improving speed during everyday field work.



Specifications

Channels	1408
GNSS Satellite System	GPS: L1, L1C/A, L2C, L2P, L5; BDS: B1I, B2I, B3I, B1C, B2a, B2b; GLONASS: G1, G2, G3; Galileo: E1, E5a, E5b, E6; QZSS: L1C/A, L1C, L2C, L5, L6; NavIC: L5; SBAS: L1C/A, L5
GNSS Accuracy(RMS)	Horizontal: ±(8 mm+1 ppm) Vertical: ±(15 mm+1 ppm)
GNSS Initialization Time	< 5 s (baseline length < 10 km)
Initialization Reliability	>99.9%
Bluetooth / Wi-Fi	Bluetooth: BR / EDR; Wi-Fi: IEEE 802.11b/g/n protocol standard
Built-in Radio Protocol	LoRa, TRIMTALK, TRIMMARK III, T450S, TRANSEOT, Satel 3AS 4FSK
Battery Capacity & Battery Life	Battery Capacity: 6500 mAh; Battery Life: 8 h (Base 8 h, Rover 20 h (2 W transmit power)
Size & Weight	162*86 mm; 1070g
IP rating & Memory	IP67; 32 GB

FJD Trion V10a

GNSS receiver with visual guidance.

Follow visual guidance

Augmented Reality guidance shows the target direction visually, helping users find stakeout points faster and with less guesswork.

See the layout on site

Display CAD drawings in the real scene to preview designs, check alignment, and understand where points belong.

Compact for daily surveying

A smaller, lighter receiver makes everyday surveying and construction tasks easier to handle in the field.

Specifications

GNSS Performance	H: 8 mm + 1 ppm RMS; V: 15 mm + 1 ppm RMS
Initialization Time & Reliability	Initialization time: <5s; Initialization reliability: >99.9%
Camera Sensor Resolution	Forward: 5 MP, downward: 5 MP
Field of View	83°
SIM Card Type	Nano-SIM card
Network Modem	Integrated 4G modem: TDD-LTE, FDD-LTE, WCDMA, EDGE, GPRS, GSM
Wi-Fi / Bluetooth	Wi-Fi: 2.4 and 5 GHz, 802.11a/b/g/n/ac touch pairing; Bluetooth 4.2 & BLE
Ports	7-pin LEMO port (External radio); UHF antenna port; USB Type-C port
Data Storage	32 GB internal memory
Temperature	Operating: -35°C-65°C; Storage: -40°C-70°C
Li-ion Battery Capacity	Built-in battery; 4900 mAh, 7.4 V; 30 W PD Fast Charge
Operating Time	Rover 15 h, Base 10 h; Static: >25 h
Dimensions & Weight	Φ130×68 mm; Approximately 800 g

FJD Trion V10i

GNSS receiver with visual positioning.

Capture points with confidence

GNSS RTK, IMU, and dual cameras work together to help users capture points with visual guidance in complex environments.

Measure from what you see

Visual measurement allows users to collect points from camera-based workflows, reducing the need to stand directly over every target.

Work faster in the field

Visual tools, tilt compensation, and strong connectivity help survey and construction teams complete positioning tasks more efficiently.

Specifications

GNSS Performance	H: 8 mm + 1 ppm RMS; V: 15 mm + 1 ppm RMS
Initialization Time & Reliability	Initialization time: <5s; Initialization reliability: >99.9%
Visual Survey Accuracy	Typically 3 cm, range 2-15 m
Camera Sensor Resolution	Forward: 2 MP, downward: 5 MP
Field of View	83°
Image Group Capture	Method: video photogrammetry; Max. capture time: 30 s with an image group size of approximately 30 MB
SIM Card Type	Nano-SIM card
Network Modem	Integrated 4G modem: TDD-LTE, FDD-LTE, WCDMA, EDGE, GPRS, GSM
Wi-Fi / Bluetooth	Wi-Fi: 2.4 and 5 GHz, 802.11a/b/g/n/ac/touch pairing; Bluetooth 4.2 & BLE
Ports	7-pin LEMO port; UHF antenna port; USB Type-C port
Data Storage	32 GB internal memory
Li-ion Battery Capacity & Operating Time	Built-in battery; 7000 mAh, 7.4 V; 30 W PD Fast Charge; Rover 15 h, Base 10 h; Static: >25 h
Dimensions, Weight & Temperature	Dimensions: Φ130×83 mm; Weight: Approximately 970 g; Temperature: Operating: -35℃-65℃; Storage: -40℃-70℃

FJD Trion V10L

GNSS receiver with laser measurement

Reach inaccesible targets

GNSS positioning and laser measurement allow users to capture points that are unsafe, blocked, or difficult to access.

Survey day or night

Laser-based measurement supports field work in low-light and low-visibility environments, helping teams keep measuring without interruption.

Reach more from one position

Measure distant or inaccessible targets without moving the pole to every point, improving efficiency on complex sites.

Specifications

GNSS Performance	H: 8 mm + 1 ppm RMS; V: 15 mm + 1 ppm RMS
Initialization Time & Reliability	Initialization time: <5 s; Initialization reliability: >99.9%
Laser Measurement Accuracy	≤3 cm within 5 m; ≤4 cm within 10 m; ≤5 cm within 15 m
Laser Type	Class 2M GREEN; Laser Wavelength: 520 nm±20 nm
Measuring Range	0~80 m
Ranging Accuracy	±(5 + 100×10^-6×D*) mm; *D is the measuring distance (unit: mm)
SIM Card Type	Nano-SIM card
Network Modem	Integrated 4G modem: TDD-LTE, FDD-LTE, WCDMA, EDGE, GPRS, GSM
Wi-Fi / Bluetooth	Wi-Fi: 2.4 and 5 GHz, 802.11a/b/g/n/ac; Bluetooth: 2.1 EDR/3.0 HS/4.2 LE/5.0 LE
Ports	7-pin LEMO port; UHF antenna port; USB Type-C port
Data Storage	32 GB internal memory
Li-ion Battery Capacity & Operating Time	Built-in battery; 7000 mAh, 7.4 V; 30 W PD Fast Charge; Rover 15 h, Base 10 h; Static: >25 h
Dimensions, Weight & Temperature	Dimensions: Φ130×83 mm; Weight: Approximately 980 g; Temperature: Operating: -35℃-65℃; Storage: -40℃-70℃

FJD Trion V100F

Surveying without limits.



Integrated field capture

Combine GNSS surveying, 3D scanning, and on-site image capture in one device to improve efficiency across complex surveying workflows.

Reliable measurement in challenging sites

Capture accurate data in weak, obstructed, or unavailable GNSS environments, including bridges, culverts, tunnels, and other challenging areas.

Connected survey workflows

Combine GNSS positioning and scan data in one coordinate system, enabling seamless processing, modelling, and verification from field capture to final deliverables.

Specifications

GNSS performance	H: 8 mm + 1 ppm RMS V: 15 mm + 1 ppm RMS
LiDAR survey	Typical accuracy ±5 cm @20 m
SureFix survey	Typical accuracy ±5 cm @20 m radius
Wireless Communication	Supports UHF radio, 4G, Wi-Fi, Bluetooth, and NFC.
Surveying Camera*1	12MP; 73°(H) × 58°(V) × 87°(D)
Colour Camera *2	12MP; 240°(H) × 240°(V) × 240°(D)
Bottom camera*1	2MP; 77°(H) × 62°(V) × 92°(D)
LiDAR	Range: 30 m @ 10% reflectivity
Ports	7-pin LEMO port; UHF antenna port; USB Type-C port
Dimensions (L×D×H)	215 mm × 130 mm × 120 mm (8.46 in × 5.12 in × 4.72 in)
Weight	1.75 kg

*Lab-tested accuracy. Actual results may vary depending on environment, workflow, and operating conditions.

FJD Trion V1

Position every point with confidence.

Reliable GNSS positioning

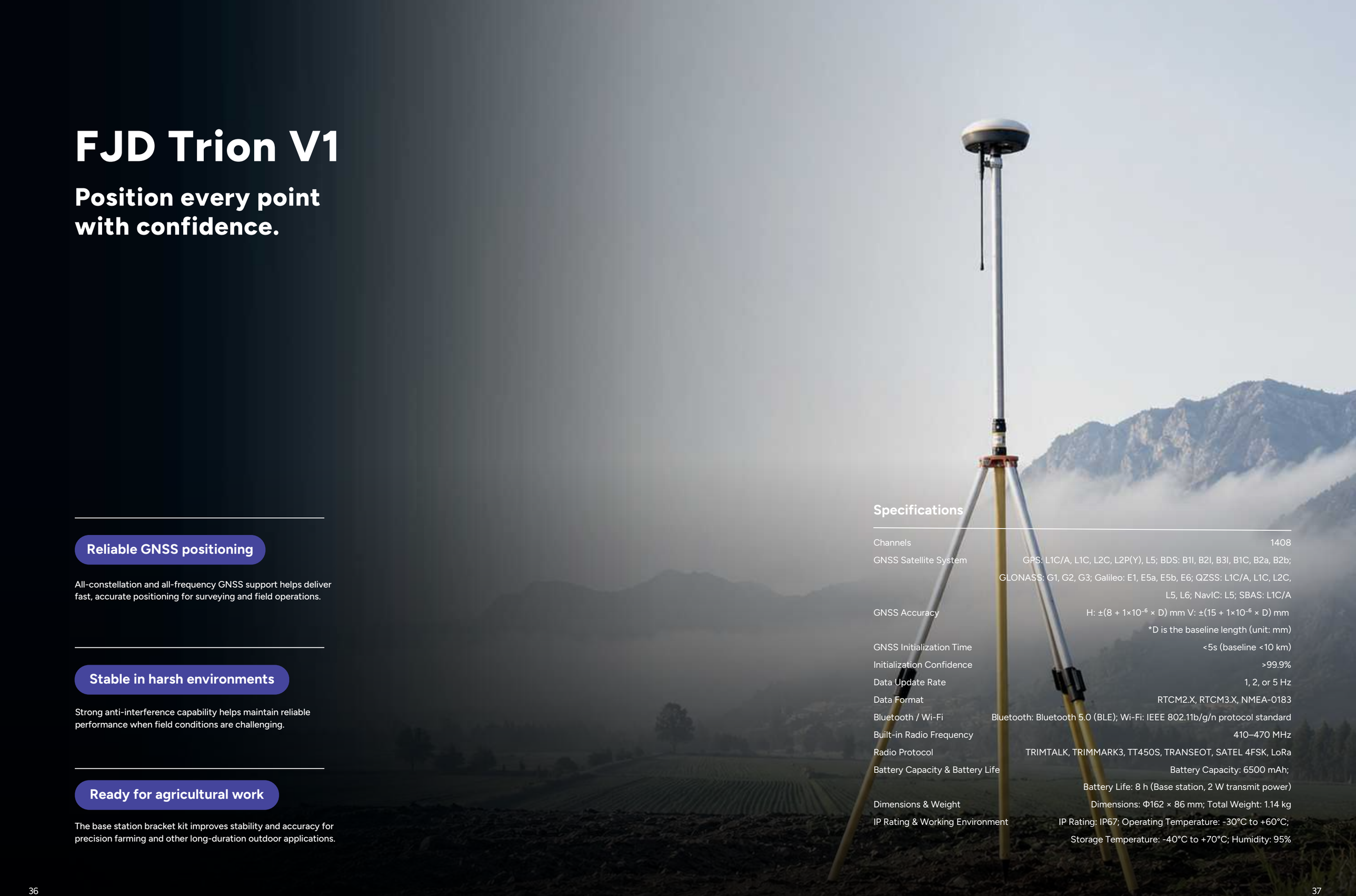
All-constellation and all-frequency GNSS support helps deliver fast, accurate positioning for surveying and field operations.

Stable in harsh environments

Strong anti-interference capability helps maintain reliable performance when field conditions are challenging.

Ready for agricultural work

The base station bracket kit improves stability and accuracy for precision farming and other long-duration outdoor applications.



Specifications

Channels	1408
GNSS Satellite System	GPS: L1C/A, L1C, L2C, L2P(Y), L5; BDS: B1I, B2I, B3I, B1C, B2a, B2b; GLONASS: G1, G2, G3; Galileo: E1, E5a, E5b, E6; QZSS: L1C/A, L1C, L2C, L5, L6; NavIC: L5; SBAS: L1C/A
GNSS Accuracy	H: $\pm(8 + 1\times10^{-6} \times D)$ mm V: $\pm(15 + 1\times10^{-6} \times D)$ mm *D is the baseline length (unit: mm)
GNSS Initialization Time	<5s (baseline <10 km)
Initialization Confidence	>99.9%
Data Update Rate	1, 2, or 5 Hz
Data Format	RTCM2.X, RTCM3.X, NMEA-0183
Bluetooth / Wi-Fi	Bluetooth: Bluetooth 5.0 (BLE); Wi-Fi: IEEE 802.11b/g/n protocol standard
Built-in Radio Frequency	410–470 MHz
Radio Protocol	TRIMTALK, TRIMMARK3, TT450S, TRANSEOT, SATEL 4FSK, LoRa
Battery Capacity & Battery Life	Battery Capacity: 6500 mAh; Battery Life: 8 h (Base station, 2 W transmit power)
Dimensions & Weight	Dimensions: Φ162 × 86 mm; Total Weight: 1.14 kg
IP Rating & Working Environment	IP Rating: IP67; Operating Temperature: -30°C to +60°C; Storage Temperature: -40°C to +70°C; Humidity: 95%

FJD Trion N10 CORS System

Keep every rover on point.



Continuous GNSS corrections

Provide continuous correction data to multiple users, helping rovers maintain high-precision positioning across large working areas.

Stable correction services

Multi-satellite and multi-frequency support helps deliver accurate, reliable positioning with strong anti-interference performance.

Manage stations with ease

FLBS platform supports base station and user management for easier CORS network operation.

Specifications

Channels	1408
Frequencies	BDS: B1I, B3I, B1C, B2a, B2b; GPS: L1C/A, L2C/L2P, L5; GLO: G1, G2; GAL: E1, E5a, E5b; QZSS: L1C/A, L2C, L5, L1S, L1C/B
Single point RMS	Horizontal 1.5 m; Vertical 2.5 m
GNSS RMS	Horizontal 0.8 cm + 1 ppm; Vertical 1.5 cm + 1 ppm
Static differential RMS	Horizontal 2.5 mm + 1 ppm; Vertical 5.0 mm + 1 ppm
Wi-Fi client	For receiver networking (connect to a 2.4 GHz Wi-Fi network)
USB port (USB)	Max. transmission speed: 480 Mb/s
Battery life	>24 h

Pick Your Fit









	V4e Pro	V1t	V10a	V10i
Measurement Capability	Handheld laser GNSS receiver	GNSS rover with IMU tilt compensation	Compact visual GNSS receiver with AR guidance	Visual GNSS receiver with image-based point capture
Workflow Output	Pole-free point measurement and stakeout	GNSS positioning and base-rover workflows	AR stakeout and CAD layout preview	Visual measurement and AR stakeout
Measurement Accuracy	GNSS H: 8 mm + 1 ppm V: 15 mm + 1 ppm	GNSS H: 8 mm + 1 ppm V: 15 mm + 1 ppm	GNSS H: 8 mm + 1 ppm V: 15 mm + 1 ppm	GNSS H: 8 mm + 1 ppm V: 15 mm + 1 ppm Visual measurement: typically 3 cm at 2–15 m
Tilt / IMU	60° tilt, calibration-free IMU Laser tilt measurement: Up to 3 m; 3D error ≤3 cm at 30°	60° tilt, calibration-free IMU	60° tilt, calibration-free IMU	60° tilt, calibration-free IMU
Weight / Battery	320 g; up to 12 h operating time	1,070 g; up to 20 h operating time	800 g; up to 15 h operating time	970 g; up to 15 h operating time
Best For	Quick handheld measurements and hard-to-reach points	Routine GNSS fieldwork and standard point, line, and polygon collection	Lightweight AR stakeout	Visual surveying and image-assisted measurement

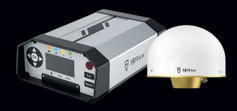
Pick Your Fit





	V10L	V100F
Measurement Capability	Laser GNSS receiver for non-contact measurement	GNSS, LiDAR and image measurement
Workflow Output	Laser measurement, laser stakeout, and AR guidance	GNSS surveying with LiDAR capture, cross-section verification and volume calculation
Measurement Accuracy	Laser measurement ≤3 cm at 0–5 m ≤4 cm at 5–10 m ≤5 cm at 10–15 m Range: 0–80 m	H: 8 mm + 1 ppm V: 15 mm + 1 ppm
Tilt / IMU	60° tilt, calibration-free IMU	60° tilt, calibration-free IMU
Weight / Battery	980 g; up to 15 h operating time	1,750 g; Up to 5 h scanning / 22 h rover operating time
Best For	Long-range non-contact measurement	Reliable surveying where GNSS is limited





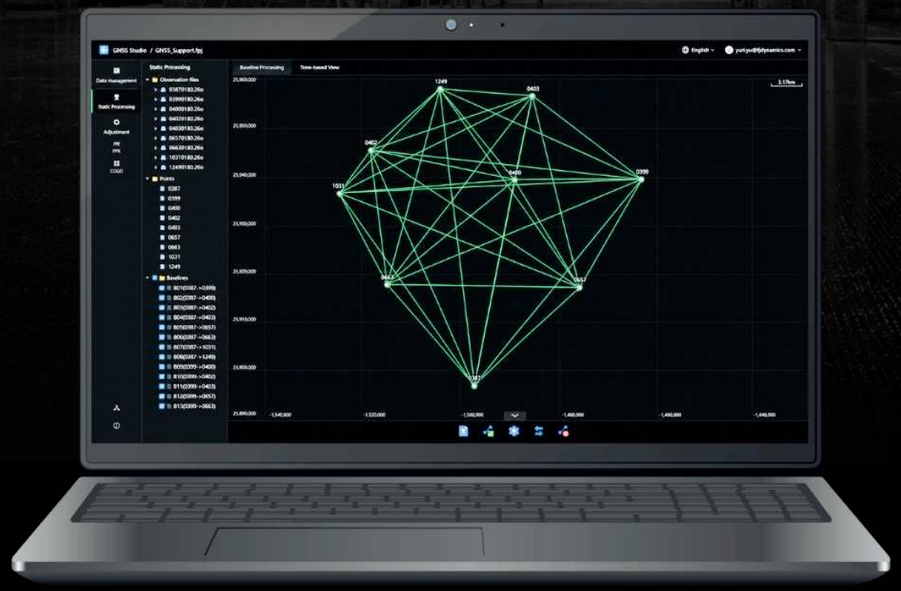
	V1	N10
Role	Long-range GNSS base station for field GNSS operations	GNSS CORS system for continuous correction services
Coverage	Long-distance communication; built-in 2 W radio module, optional 5 W; external radio supported	Full network coverage; up to 30 km outside network
Positioning Accuracy	GNSS accuracy H: ±8 mm + 1 ppm V: ±15 mm + 1 ppm	Network GNSS accuracy H: ≤ 20 mm V: ≤ 50 mm
Operational Strength	Fast setup, portable, suitable for temporary field deployment	Centralized station/user management via FLBS platform
Reliability	IP67; up to 8 h operating time in base mode at 2 W transmit power	IP67; over 24 h operating time; 99.9% service availability
Best For	Temporary field base stations, surveying, and precision agriculture	Regional correction networks, surveying, machine control, and precision agriculture

FJD Trion GNSS Studio

From observation to output, precisely.

Process GNSS observation data into accurate control points that serve as the foundation for construction workflows. By connecting field data with on-site execution, GNSS Studio helps ensure positioning accuracy before work begins.

One platform, precise positioning.



01 Core Capabilities

Project Management
Organise GNSS observation files and point data before processing begins.

Static Processing
Produce high-accuracy control points for construction projects.

Network Adjustment
Deliver a consistent and reliable control point framework across the project.

PPK Dynamic Processing
Refine positioning results from moving survey data.

COGO Calculation
Verify results before handing data over to construction.

Image-Based Surveying
Calculate coordinates from measurable models generated from site photos.

Raw Data Preparation
Clean, merge, split, and preprocess GNSS observation files.

Coordinate System Setup
Configure projects using 6,000+ predefined local coordinate systems.

02 Platform Features

- **Web-based Platform**
  Access GNSS Studio through a web-based platform.
- **Multi-GNSS Support**
  Support multiple GNSS constellations.
- **Connect Field and Office**
  Connect office processing with field operations.
- **Digital Reports**
  Generate digital processing reports.
- **Use Across Devices**
  Work across multiple devices.
- **Easy-to-Use Interface**
  Simplified workflow for professional users.

03 Typical Applications

Control Networks
Establish accurate site control networks.

Land & Parcel Surveys
Process parcel point observations into coordinates.

Structural Monitoring
Monitor structural movement using static or PPK data.

Ground Control Points
Prepare GCPs for aerial surveying and mapping.

04 Device Compatibility

Desktop

Laptop

Tablet

Mobile

FJD Trion Professional

Retrofit Automation

Turn your machines into smart, automated systems.

- FJD Trion EG10
- FJD Trion EC100 L/ EC100
- FJD Trion GC100 L / GC100
- FJD Trion DC100 L / DC100
- FJD Trion SG10



FJD Trion EG10 Excavator Guidance System

Get more done with less setup.



Easy start

Simple interface reduces operator training time.

Cost-effective

Professional guidance for entry-level project budgets.

Real-time guidance

3D guidance reduces manual grade checking.

Specifications

Accuracy	±3 cm, tilt ≤60° from vertical
GNSS channels	1408 channels
GNSS constellations	GPS, GLONASS, BeiDou, Galileo, QZSS, NavIC , SBAS, HAS-PPP
Camera	Forward: 5 MP; Downward: 5 MP
Camera field of view	83°
Network modem	TDD-LTE, FDD-LTE, WCDMA, EDGE, GPRS, GSM
Wireless connection	Wi-Fi; BT 4.2 & BLE
Built-in UHF radio	Rx/tX:(410-470)MHz/(902-928MHz)
Data storage	32 GB internal memory
Operating time	Rover: 15 h; Base: 10 h; Static: >25 h
Receiver ingress protection	IP68
Receiver operating temperature	-35°C to +60°C
IMU ingress protection	IP67
IMU operating time	84 h continuous operation
T10 tablet	10-inch display; Android 14; 4 GB RAM; 64 GB flash

FJD Trion EC100 Excavator Guidance System

Less rework, more control.



Precision control

Perform complex excavation with precise design guidance.

Safer excavation

Real-time alerts help prevent costly over-excavation.

Global compatibility

Built-in coordinate systems enable fast regional deployment.

Specifications

Positioning accuracy	Horizontal: 0.8 cm + 1 ppm; Vertical: 1.5 cm + 1 ppm
GNSS channels	1408 channels
GNSS constellations	BDS, GPS, GLONASS, Galileo, QZSS
GNSS connection	NTRIP, Base Station RTK, PPP
Radio	410 MHz to 470 MHz; 902 MHz to 928 MHz
Control module size	200 × 155 × 63 mm
Control module communication	Wi-Fi, BT, Ethernet
Control module power supply	9-36 V
Control module IP rating	IP67
IMU resolution	<0.05°
IMU output frequency	Up to 100 Hz
Central display	10.1", 1920 × 1200, 750 cd/m²
Central display performance	Octa-core 2.2 GHz; 8 GB RAM; 128 GB ROM
Central display IP rating	IP68
Interface	Type-C, USB 2.0, TF card slot, SIM card slot, DC power, RJ45, RS232, POGO PIN

FJD Trion GC100 3D Motor Grader Control System

Achieve accurate grading in one go.



Auto-control

The blade automatically maintains the design elevation.

Faster completion

Fewer passes shorten construction schedules.

Less rework

Avoid overcutting and undercutting across jobsites.

Specifications

Positioning solutions	Dual GNSS, Single GNSS, TPS, Laser, IMU
Control box dimensions	200 × 155 × 63 mm
Control box communication	Wi-Fi / Bluetooth / Ethernet
Control box power supply	DC 9-36 V
Control box ingress protection	IP67
Central display	10.1", 1920 × 1200, 750 cd/m²
Central display performance	Octa-core 2.2 GHz; 8 GB RAM; 128 GB ROM
Central display IP rating	IP68
GNSS antenna frequency range	Multi-constellation, full-band GNSS
GNSS antenna gain	≥5.5 dBi
IMU resolution	<0.01°
IMU output frequency	Up to 100 Hz
Laser receiver accuracy	±2 mm
Electrical proportional valve group	24 V DC; 300 bar; 64 L/min
Relay	IP68; supports 4-channel PWM signal switching

FJD Trion DC100 3D Dozer Control System

Smarter cuts, smoother execution.



Specifications

Accuracy	±3 cm
GNSS antenna frequency range	Multi-constellation, full-band GNSS
GNSS antenna gain	≥5.5 dBi
GNSS antenna horizontal coverage	360°
GNSS antenna operating temperature	-45°C to +85°C
IMU resolution	<0.01°
IMU output frequency	Up to 100 Hz
IMU ingress protection	IP67
Hydraulic valve	24 V DC; 50 bar; 20 L/min
Relay	IP68; supports 4-channel PWM signal switching
Central display	10.1-inch high-brightness display; 1920 × 1200; 750 cd/m²
Central display performance	Octa-core 2.2 GHz; 8 GB RAM; 128 GB ROM
Central display IP rating	IP68
Control box dimensions	200 × 155 × 63 mm
Control box communication	Wi-Fi / Bluetooth / Ethernet

Precise grading

Automatic blade control achieves design-grade accuracy.

Higher productivity

Finishes grading faster with less material waste.

Easy operation

Simplifies precision grading and reduces the learning curve for operators.

FJD Trion SG10 Snow Removal Guidance System

Snow removal, clearly guided.



Real-time coverage

Reduce missed areas and overlapping passes.

Clear boundaries

Clearly see work boundaries in low-light conditions and snowfall.

Safer navigation

Detect hidden risks with clear operator alerts.

Specifications

Accuracy	±3 cm
GNSS channels	1408
GNSS constellations	GPS, GLONASS, BeiDou, Galileo, QZSS, SBAS
Camera	Forward: 5 MP; Downward: 5 MP
Camera field of view	83°
Network modem	TDD-LTE, FDD-LTE, WCDMA, EDGE, GPRS, GSM
Wireless connection	Wi-Fi; BT 4.2 & BLE
Built-in UHF radio range	Typical 6-12 km; up to 16 km with optimal conditions
Data formats	NMEA-0183, RTCM3.X, RTCM2.X, CMR
Data storage	32 GB internal memory
Operating time	Rover: 15 h; Base: 10 h
Receiver ingress protection	IP68
Receiver operating temperature	-35°C to +65°C
T10 tablet	10-inch display; Android 15; 4 GB + 64 GB
T10 tablet ingress protection	IP66

Pick Your Fit

3D Excavator Guidance Systems







	EG10	EC100L (Lite)	EC100
Role	Wireless excavator guidance for fast deployment	Lite version of EC100 for fast setup	Full-machine attitude awareness for complex excavation
Accuracy	±3 cm, ≤60° tilt from vertical	±3 cm	±3 cm
Connection Method	Wireless	Wired	Wired
GNSS Channel	1408	1408	1408
Compatible Boom Types	Mono / Swing / Two-piece / Offset	Mono / Swing	Mono / Swing / Two-piece
Compatible Attachment Types	Standard bucket	Standard bucket / Tilt bucket	Standard bucket / Tilt bucket / Tilt rotator
Application Scenarios	Land leveling, trenching, drainage works, slope construction, farmland preparation	Utility trenching, channel excavation, land leveling, slope trimming, solar PV pile layout	Road construction, bridge substructure work, dredging, mining, slope grading, water conservancy projects
Terramind Project Management	✓	✓	✓

Pick Your Fit

Automatic Grader Control Systems



	GC100L (Lite)	GC100
Role	Visual guidance system for grading	Automatic grader control for high-precision grading
Automatic Blade Control	×	✓
3D Design Model Import	✓	✓
Real-Time Grading Guidance	✓	✓
Grading / Earthwork Accuracy	±3 cm (manual control)	±3 cm
Terramind Cloud Platform	✓	✓
Application Scenarios	Road construction, site leveling, subgrade preparation, small-to-medium grading projects	Road construction, airport runways, mining roads, large-scale grading, industrial site preparation
Terramind Project Management	✓	✓

Automatic Dozer Control Systems



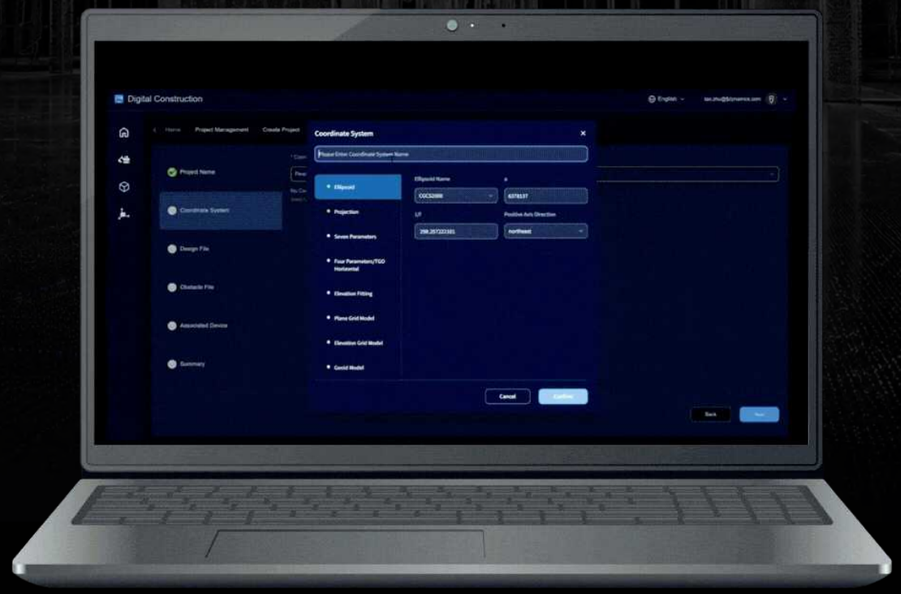
	DC100L (Lite)	DC100
Role	Visual guidance system for dozing	Automatic dozer control for large-scale earthwork
Automatic Blade Control	×	✓
3D Design Model Import	✓	✓
Real-Time Grading Guidance	✓	✓
Grading Accuracy	±3 cm (manual control)	±3 cm
Terramind Cloud Platform	✓	✓
Application Scenarios	Small site grading, contractor projects, road subgrade work, parks, campuses, industrial sites	Large-scale earthwork, mining sites, road base preparation, airport and port construction, industrial land development
Terramind Project Management	✓	✓

FJD Trion TerraMind

The digital bridge to your jobsite.

Connect office planning with field execution, giving teams real-time visibility into project data, equipment activity and results, all in one place.

One platform, connected construction.



01 Core Capabilities

Dashboard
Centralised view of projects, machines, jobsites and alerts.

Device Management
Monitor machine status, location, and operating condition in real time.

Project Management
Manage project data, design files, coordinate systems, members and construction records.

Remote Project Deployment
Deploy coordinate systems, design files and avoidance data directly to machines.

Coordinate System Management
Manage project-specific coordinate systems using 6,000+ predefined systems.

As-Built & Surface Comparison
Compare original, design, as-built and resurveyed surfaces in one 3D view.

Project Sharing
Role-based collaboration across contractors, supervisors and owners.

Earthwork Volume Analysis
Track completed, remaining and total earthwork quantities.

Alert Centre
Review design deviation, obstacle avoidance, battery and machine alerts.

02 Platform Features

- **Access Anywhere**
  Browser-based access with no software installation required.
- **Manage in One Place**
  Manage projects, devices and related data from one platform.
- **Clear Visibility**
  Monitor machine locations, work progress and construction results.
- **Remote Project Setup**
  Create projects remotely and transfer data directly to machines.
- **Keep Teams Aligned**
  Share project data across office teams, contractors and owners.
- **Generate As-Built Documents**
  Produce standardised as-built reports for review and handover.

03 Typical Applications

- Civil Construction Site Management
- Road Construction Management
- Municipal Pipeline Construction
- Large-scale Earthwork & Site Grading
- Quarry & Mining Operations
- Land Development & Industrial Park Construction

04 Device Compatibility

- **Desktop**
- **Laptop**
- **Tablet**
- **Mobile**

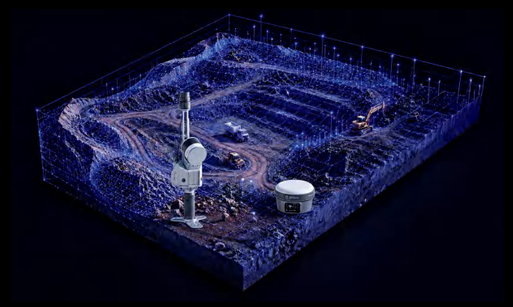
An All-in-One Ecosystem

A complete workflow from reality capture to world models, physical execution, and verified results.

FJD Trion connects every stage of the jobsite workflow in one ecosystem. Capture the real site, turn it into a usable digital model, use that model to guide field work, then verify the final result against the original design. From the first scan to final handover, teams can move from data collection to decision-making and execution without switching between disconnected systems.

01

Capture and position the site



Capture the real conditions of a site with measurable, position-based data. Scan spaces, map terrain, record structures, locate points, and collect the information needed to understand what is actually happening on site.

02

Turn the data into decisions



Turn captured data into a digital environment that teams can use for planning, analysis, and reporting. Review site conditions, compare datasets, measure progress, prepare deliverables, and create actionable information that can be handed over or shared across teams.

03

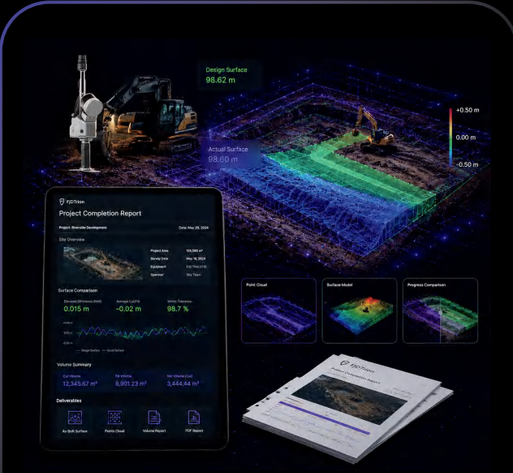
Execute with precision



Use digital project information to guide real work on site. Operators can follow designs more accurately, reduce manual checking, avoid unnecessary rework, and complete construction, grading, excavation, layout, or snow-removal tasks with greater control.

04

Verify and deliver results



Capture the completed work, compare actual results with the design, and confirm that execution meets project requirements. Create updated records, as-built documentation, and final deliverables for review, acceptance, and handover.

Built for Every Field of Work

From construction sites to city infrastructure, forests, mines, utilities, and public spaces, FJD Trion helps teams capture real-world conditions, build usable digital models, and turn site data into accurate field execution.

Utilities & Energy



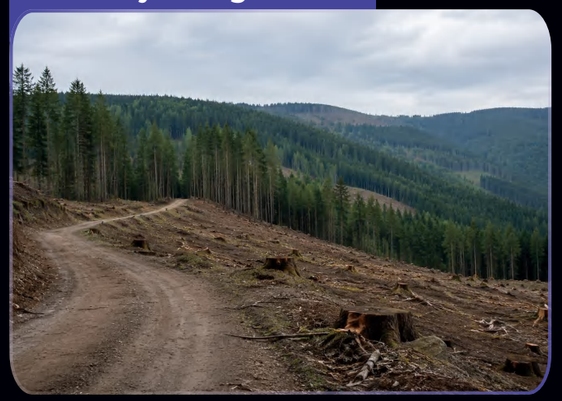
Facility Management



Construction & Engineering



Forestry & Vegetation



Public Safety



Agriculture & Dairy



Mining & Quarrying



Surveying & Mapping



Urban & Municipal



Landscaping & Golf Courses

