

FJD Trion X1

Pro-grade spatial work made effortless

Start with the job, not the scan

Sending someone onsite is easy. Making sure they capture the right data is harder. With X1, you assign a specific capture task to your team. The operator receives it on the device and follows step-by-step prompts to complete the scan, document issues, and bring everything together in one final report.



Set the rules before the site

Define the area, plan the route, and set priorities in FJD Trion Model Web, then sync the task straight to the operator's X1.





Mark as you scan

Follow onscreen route guidance while scanning, then use the crosshair to link each issue to its exact location in the 3D data.

Give every issue a voice

Record field observations in any language. X1 captures voice notes during scanning, and Model Web transcribes them for review.





From field to result

Bring the scan, route, issue markers, and transcripts together in Model Web, then generate a report ready to review, share, and act on.

Beyond the scan

Instant field readiness

X1 combines GNSS, LiDAR, 360° imaging, an integrated screen, and a microphone in one device, while the factory-assembled base keeps setup to a minimum.





Control without distraction

Keep calls and notifications out of the scanning workflow. X1 shows operators where they are aiming and what they are capturing, directly on its built-in display.

Built for high-value projects



Construction & As-Built

Construction, renovation, MEP, and as-built documentation.



Forensic & Safety Scenes

3D and panoramic records for incidents and investigations.



Urban Trees & Campus Assets

Urban tree, campus road, green belt, and landscape records.



Material Yards & Stockpiles

3D volume records with GNSS-assisted positioning and georeferencing.

Specifications

LiDAR

Point Cloud Output	384,000 pts/s
Scanning Range	40 m @ 10% reflectivity; 70 m @ 80% reflectivity
Post-Processed Point Cloud Accuracy*	Relative: ≤1 cm; Absolute: 3 cm
Field of View	360° × 62°
Laser Safety	Class 1 eye-safe laser
Continue Scanning	Supported

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

Display

Screen	3.9-inch OLED
Screen Resolution	1280 × 1024

General Specifications

Dimensions	114 × 152 × 329 mm
Weight	Main Unit: 900 g Full Setup: 1.3 kg
Storage	512 GB, expandable to 1 TB
Operating Temperature	-20°C to 50°C
Storage Temperature	-40°C to 60°C
Ingress Protection	IP54
Data Export	Wireless network, USB Type-C, USB flash drive
Point Cloud Formats	LAS, PLY, PTS, E57

Built-In Cameras

Front Camera Field of View	80° × 44°
Front Camera Resolution	1280 × 1024
Panoramic Camera Field of View	360° × 360°
Panoramic Camera Resolution	2 × 48 MP
Visual SLAM	Supported
Image Export	Supported
Image Format	JPG

Electrical Specifications

Battery Life	Up to 5 hours with one set of two batteries
Power Supply	DC handheld battery
Power Consumption	Approx. 18 W
Charger	67 W fast charging
Simultaneous Dual-Battery Charging	Supported

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