

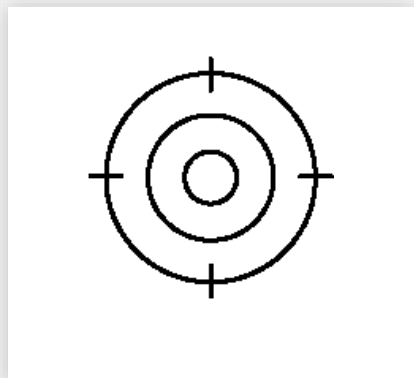
• FJD Trion V4E LiDAR Kit



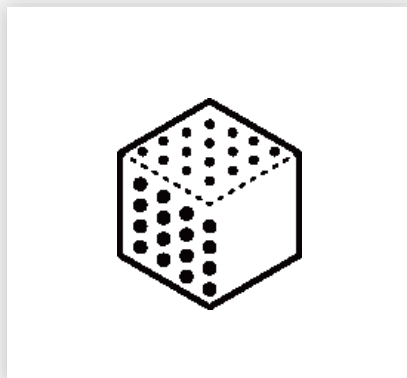
•03



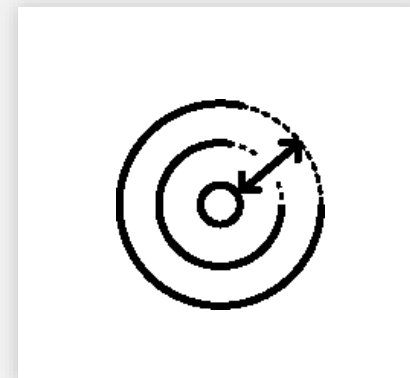
•Features



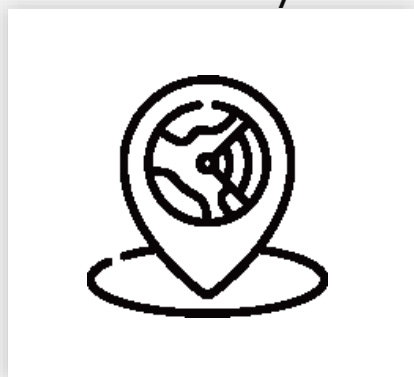
3cm
Post-Processing
Accuracy



154,600
Points per Second



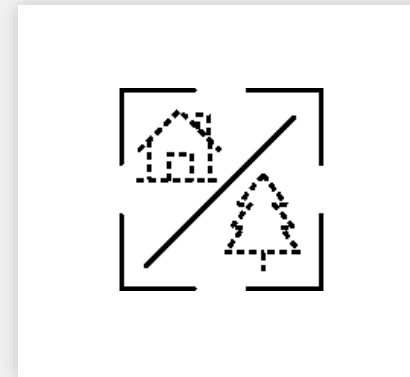
50m Range
@ 90% Reflectivity



Georeferenced
Point Cloud



5-Hour
Runtime



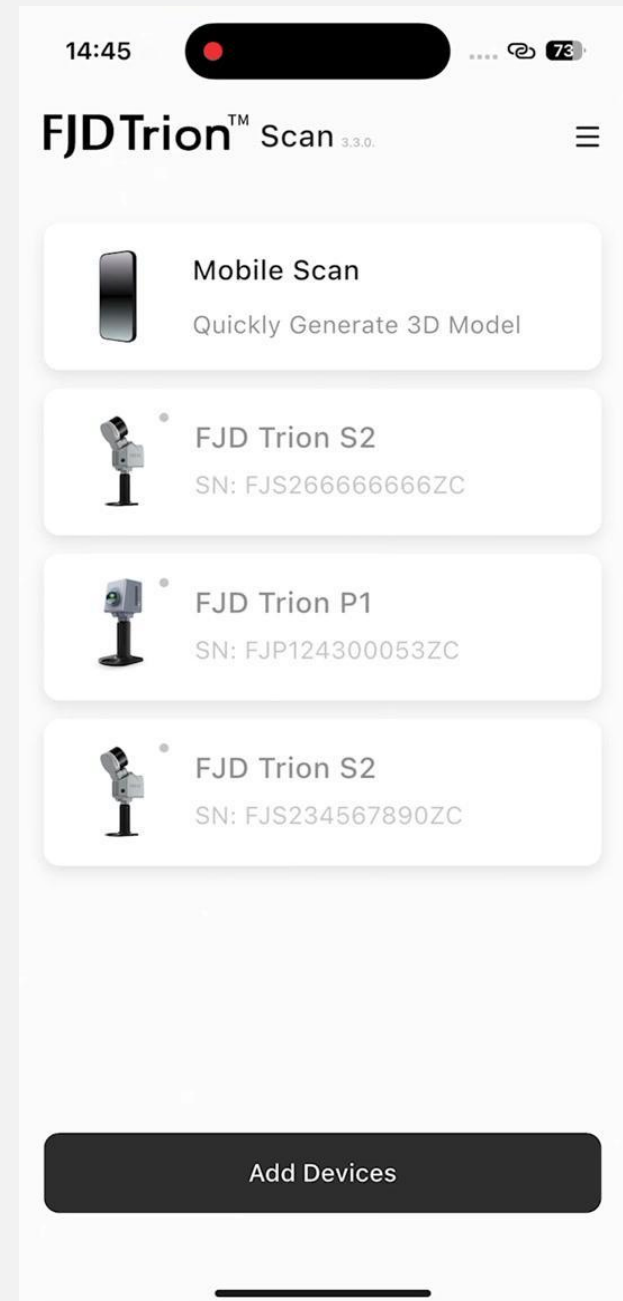
Indoor & Outdoor
Scanning



All-in-One Seamless Workflow

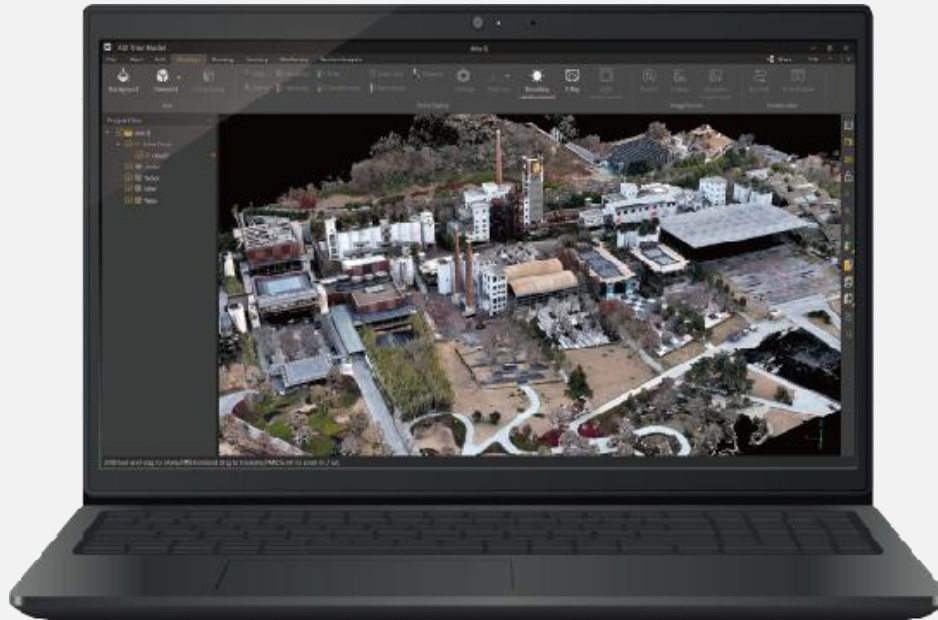
Step 1 : Scan & Preview

Walk around while capturing dense point clouds. You can monitor your progress in real time with the Scan App, ensuring complete coverage through real-time point cloud visualization.





All-in-One Seamless Workflow

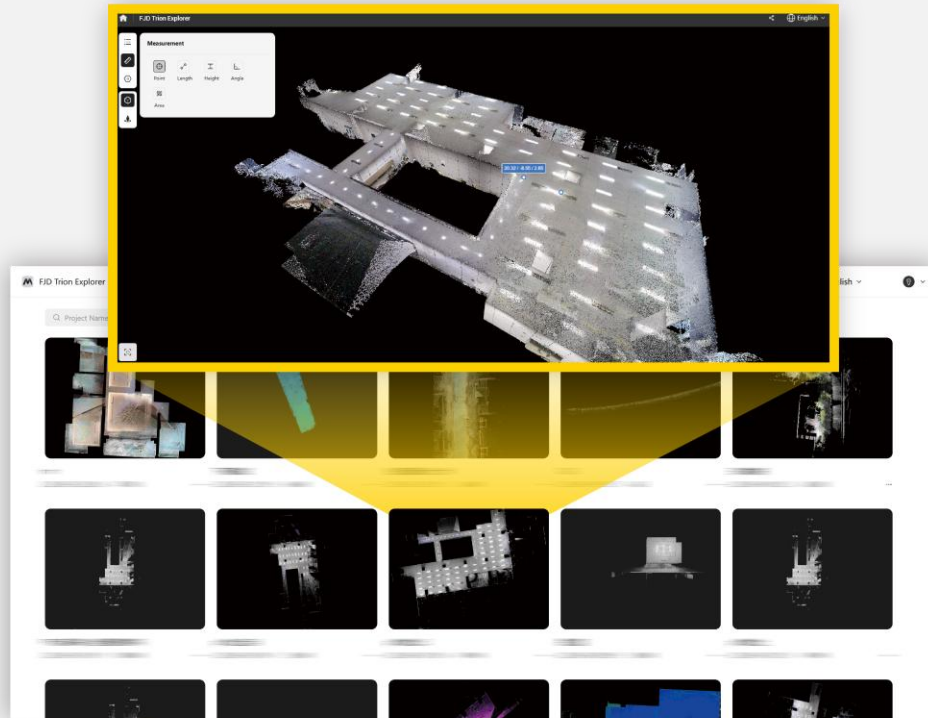


Step 2: Data Processing with FJD Trion Model

Import data into FJD Trion Model for advanced processing. You can leverage multi-industry application modules such as construction, utilities, forestry, and BIM—to analyze, model, and generate actionable outputs.



All-in-One Seamless Workflow



Step 3: Share and Collaboration

Upload point clouds to the TPM cloud platform for collaborative editing, data management, and secure sharing. This lets you work seamlessly with your team anytime, anywhere.



Flexible Setups, Multiple Scenarios

1. Smartphone x V4E RTK Receiver x LiDAR Kit

Ideal for: building facades, utility mapping, and outdoor BIM projects.

With RTK providing centimeter-level accuracy and the LiDAR Kit delivering dense point clouds, this setup achieves professional-grade, georeferenced 3D models.





Flexible Setups, Multiple Scenarios

2. Smartphone x LiDAR Kit

Ideal for: facility mapping, warehouses, underground spaces, and industrial plants.

When RTK signals are unavailable indoors, the LiDAR Kit still enables accurate indoor point cloud capture on your smartphone, ensuring precise layouts and reliable documentation.





•SPECS

LiDAR

Laser Wavelength	905nm±15n
Eye Safety Rating	CLASS 1 (IEC 60825-1:2014)
Detection Range	0.05-50m (90% reflectivity) 0.1-25m (10% reflectivity)
Minimum Detection Distance	0.05m
Field of View(FOV)	H: 360° V: -10°~60°
Real-Time Point Cloud Accuracy	5cm
Post-Processed Point Cloud Accuracy	3cm
Sampling Rate	≥200kHz
Point Cloud Output	154,600 pts/s @ 70° vertical FOV

Mobile Compatibility

iOS	iPhone 15 and later models
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Electrical & Interface specifications

Charging Specs	5V/2A
Lithium Battery	3.6V/6700mA
Power Consumption	<5W (25°C)
Charging Time	≤3H
Operating Time	≥5H
Data Port	USB 3.0
Charging Port	Charging / USB 2.0
Firmware Upgrade	OTA

Physical Characteristics

Dimensions	137mm*155mm*250mm
Weight	Approx. 860g
Mounting Interface	5/8-inch internal threaded interface
Operating Temperature	-10°C~+60°C
Charging Temperature	0°C~+45°C

•V4E LiDAR kit VS P2, S2



	V4E LiDAR KIT	P2	S2
LiDAR range	50m(90% reflectivity) 25m (10% reflectivity)	70m(80% reflectivity) 40m(10% reflectivity)	120m(90% reflectivity) 90m(10% reflectivity)
Points/s	154,600	200,000	320,000
LiDAR FOV	H:360° V:-10°~60°	H:360° V:-2°~57°	360*270
Mobile device	iPhone 15 and later models	IOS, Android	IOS, Android
Realtime accuracy	5cm	3cm	3cm
Post processing accuracy	3cm	1.2cm	1.2cm
Realtime procesing	√	√	√
Built-in camera	×	√	√
Built-in IMU and CPU	×	√	√
Operation time	5H	2H	1.5H