FJD Trion P2 LiDAR Scanner

Smaller， Smarter， Scan more

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MILESTONES

2022

FJD TRION™ S1
3D LIDAR SCANNER

2023

FJD Trion™ P1
LIDAR SCANNER

2024

FJD Trion™ S2 SERIES
LIDAR SCANNER

80+ COUNTRIES
LEADING SLAM SCANNER IN 2024

Why We Built P2?

LISTENING TO OUR USERS

"Could you share any feedback on our products?"

User 1

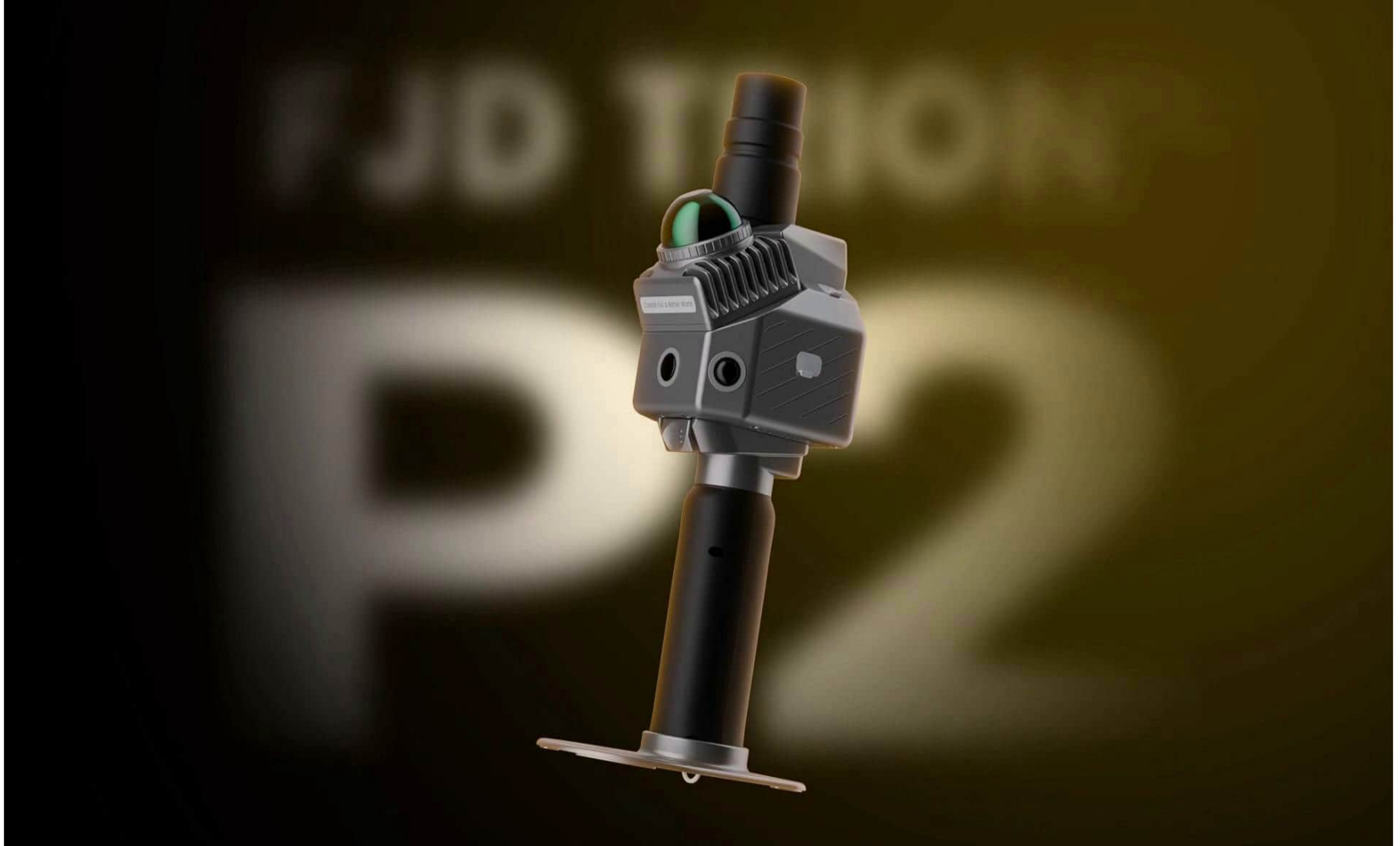
"It would help a lot if the scanner was **lighter,** but still just as accurate."

User 2

"In the field, we really need **real-time feedback** to know right away if scans are good."

User 3

"One device that can handle **all deliverables** would make our work much easier."



COMPLETE HARDWARE UPGRADE

700g Ultra-Lightweight

Triple Data Transfer
(Type-C/Wi-Fi/USB)

Standard RTK Setup

Three Built-In
Cameras

Upgraded CPU

High-Quality
Point Clouds

Wi-Fi

Hotspot

Bluetooth

4-Hour
Runtime

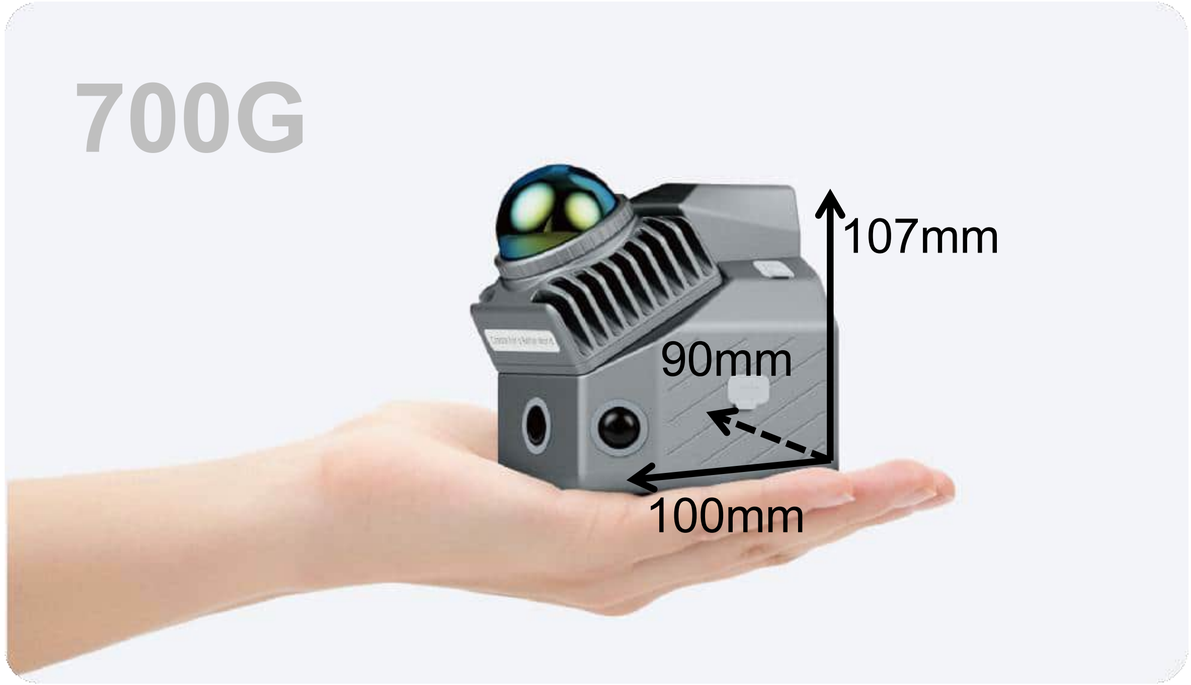
Dual-Battery
System

*Standard 67W Type-C Fast Charging

Metal Base for
Rugged Durability

Seamless Pole
Mounting
5/8" Standard Interface

SMALLER



24%

Dimensions

25%

Weight

SMALLER

3 Built-in Cameras

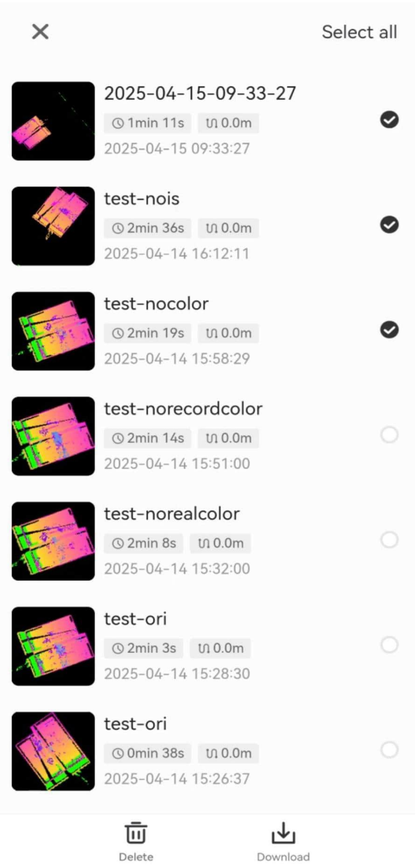
- ✓ 2*12MP, side cameras
- ✓ 1*2MP, front camera

High-precision RTK

- ✓ Full GNSS signal
- ✓ 8000+ coordinate systems

SMARTER

3 Data Download Methods



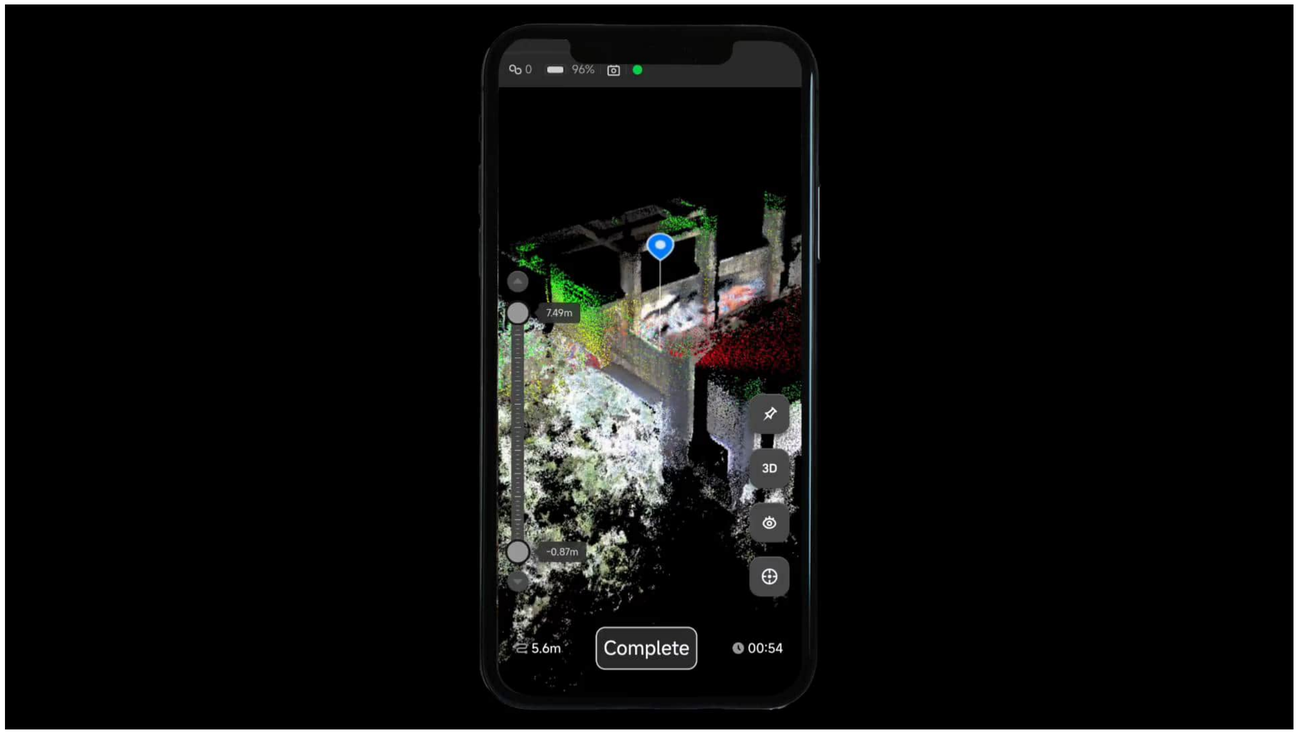
- ✓ WIFI
- ✓ Type-C cable，30-40M/s
- ✓ U flash disk
- ✓ Batch download

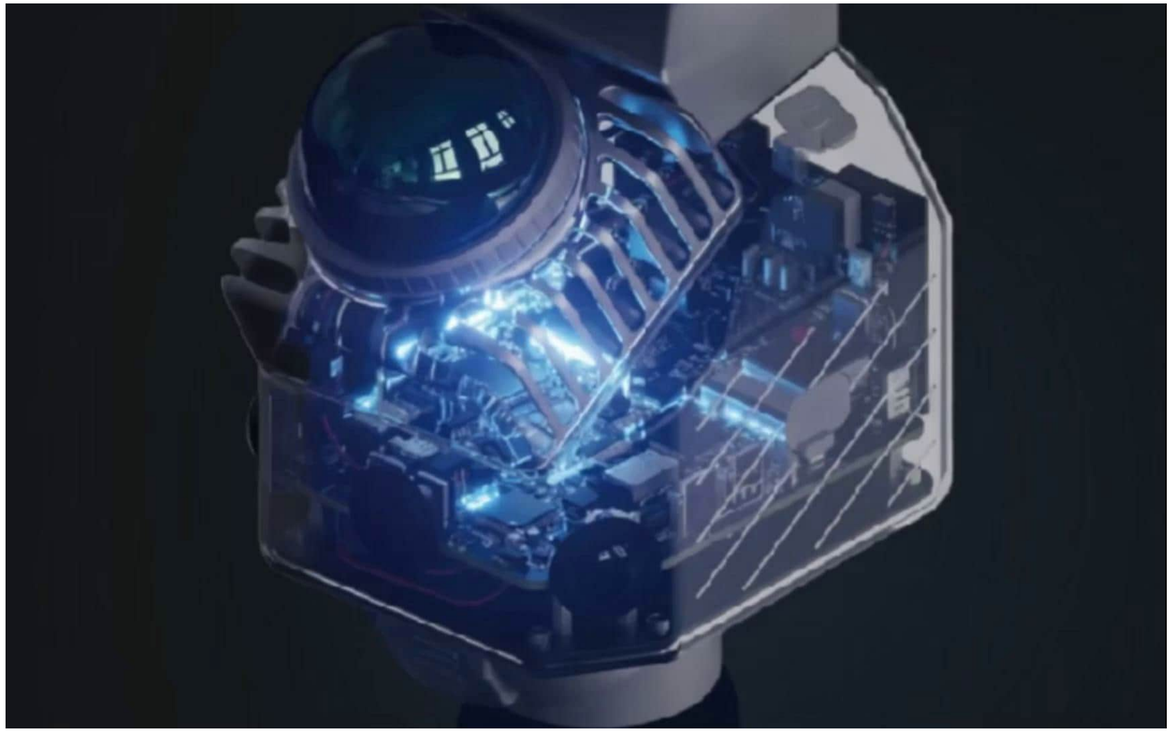
SMARTER

Upgraded CPU

✓ Realtime colorization

✓ Realtime density point cloud generation

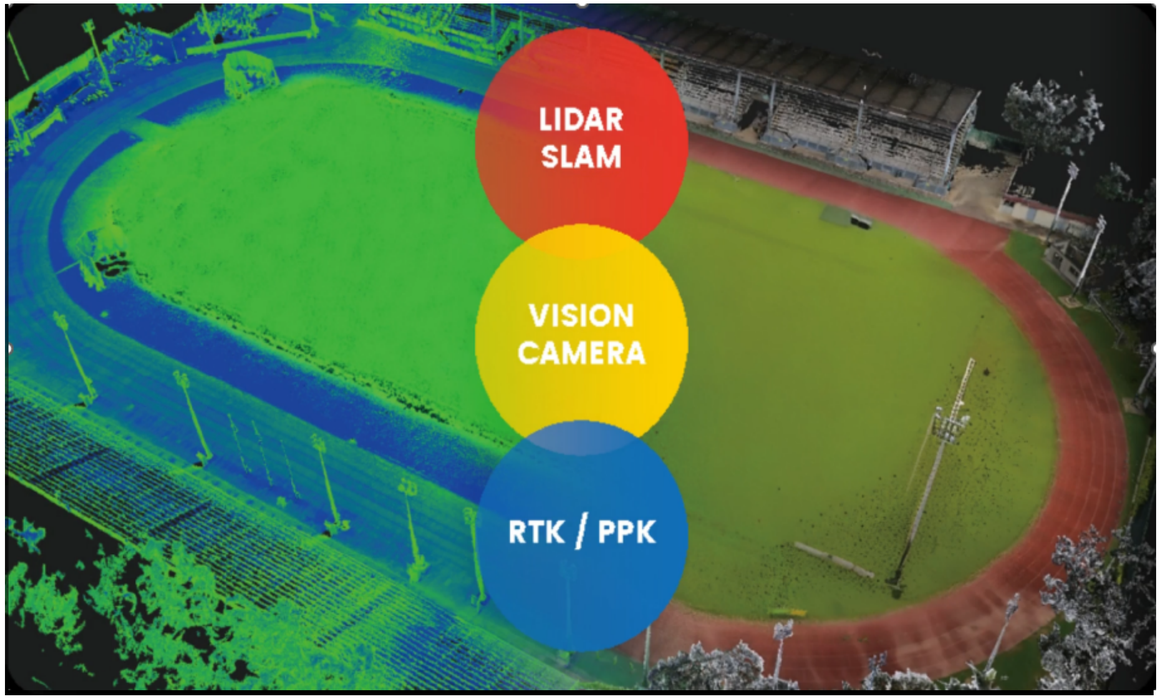


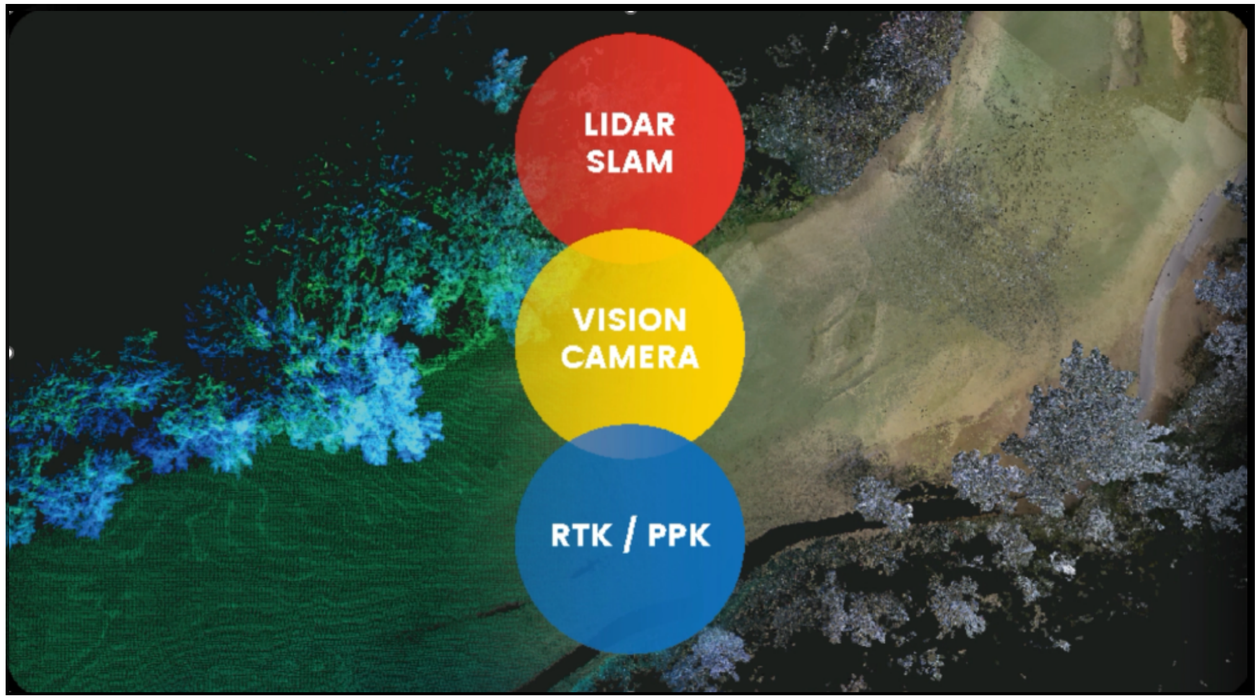


SMARTER

Multi-SLAM Algorithm

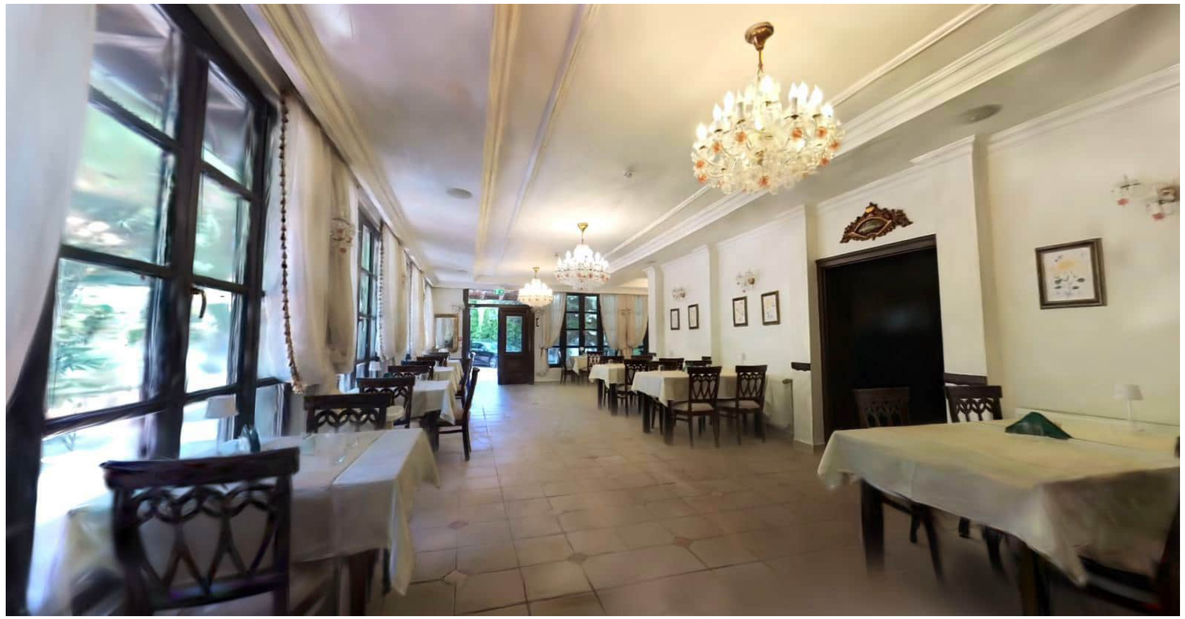
- ✓ LiDAR+Camera+RTK/PPK
- ✓ Robust performance even in challenging environment





SMARTER

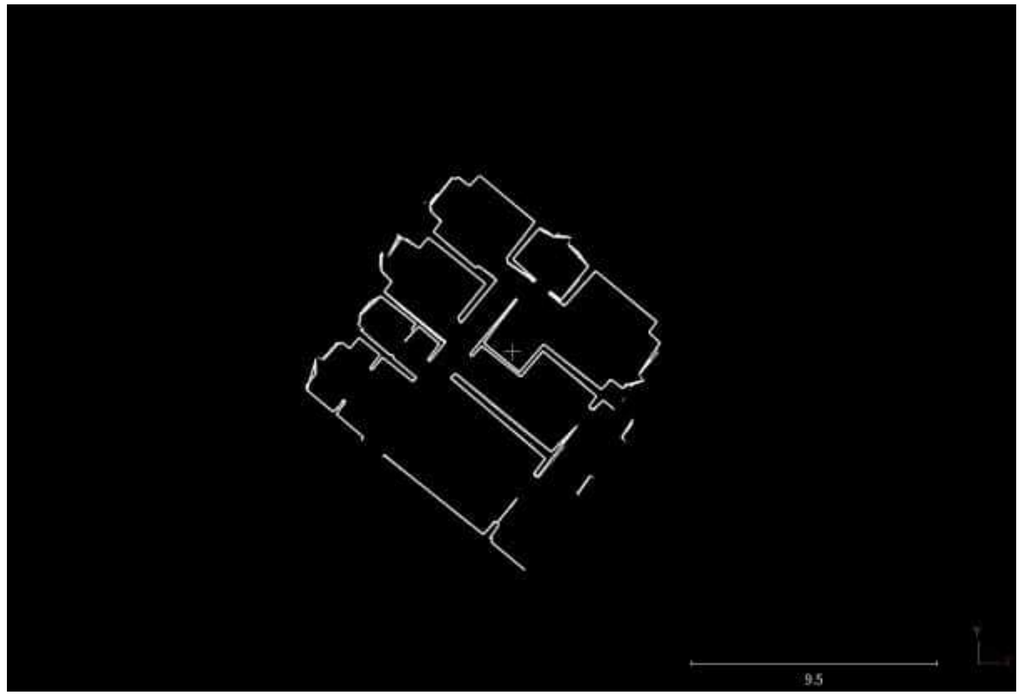
3D Gaussian Splatting



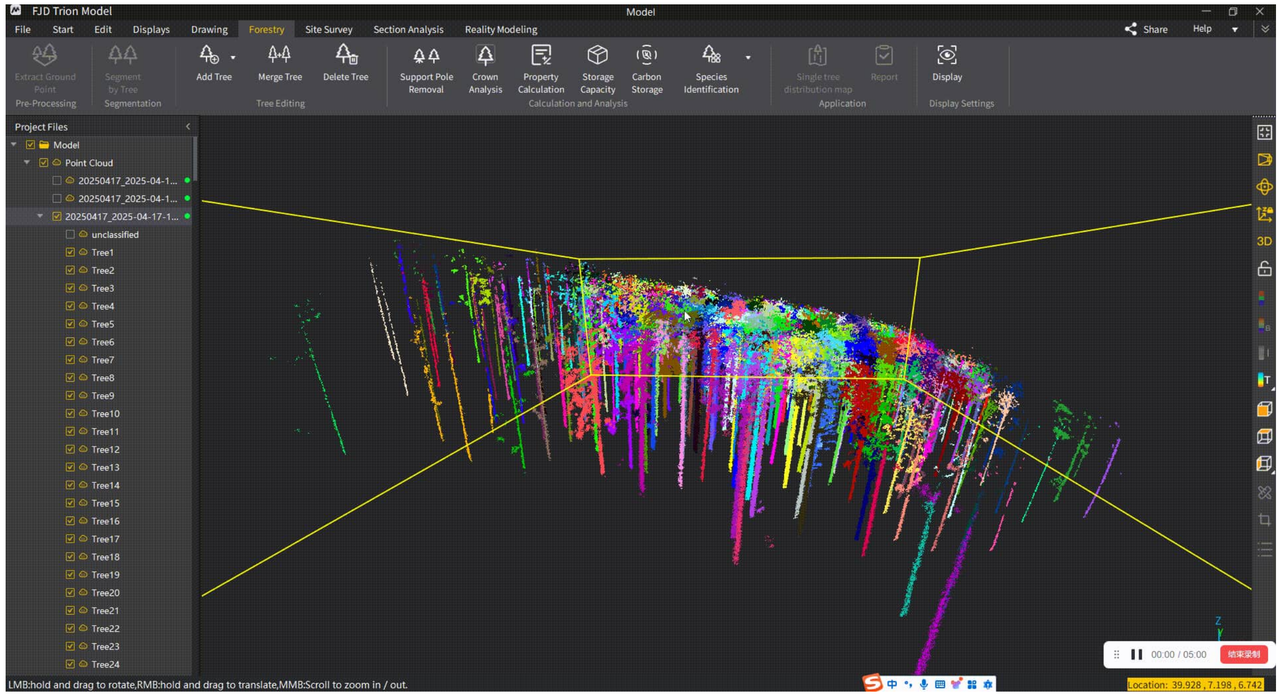
Included in FJD Trion Model Standard version!

SMARTER

AI Powered to Streamline Your Workflow



2D Plans Automatic Drawing



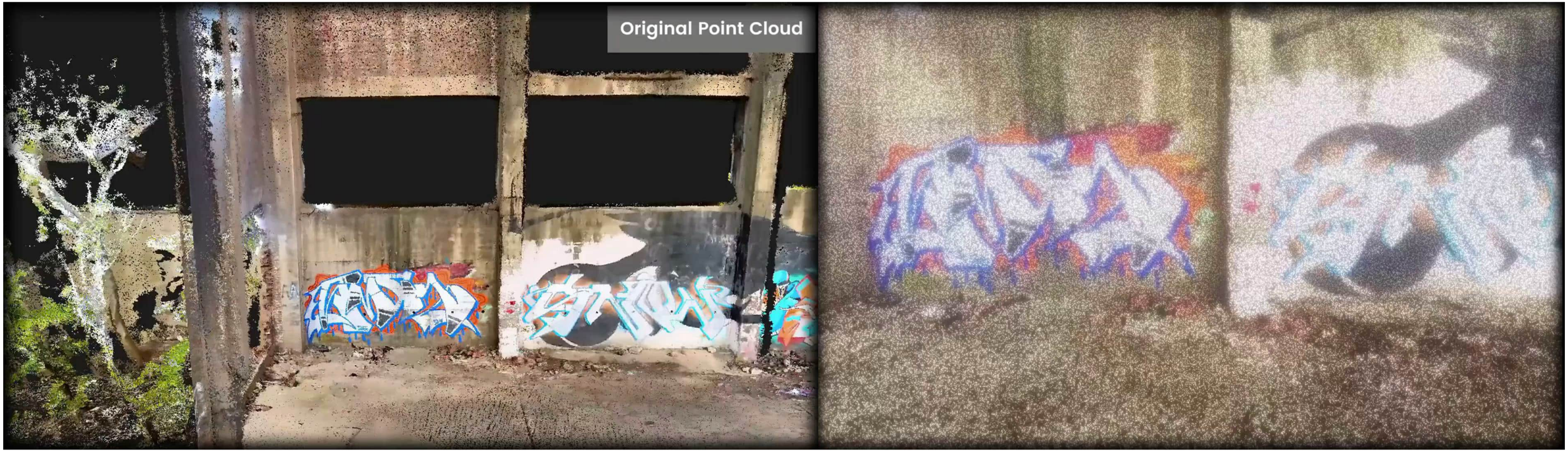
Automatic Tree Species Identification

SCAN MORE

Hyperdense+

✓5-7 times higher density

✓1mm spacing

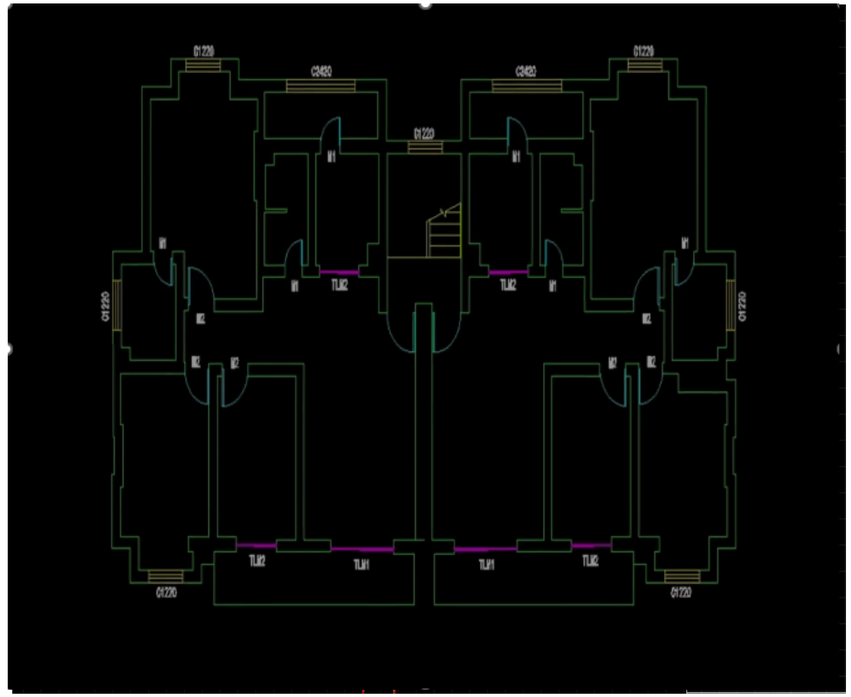


SCAN MORE

One Scan, 5 Deliverables

Point Clouds

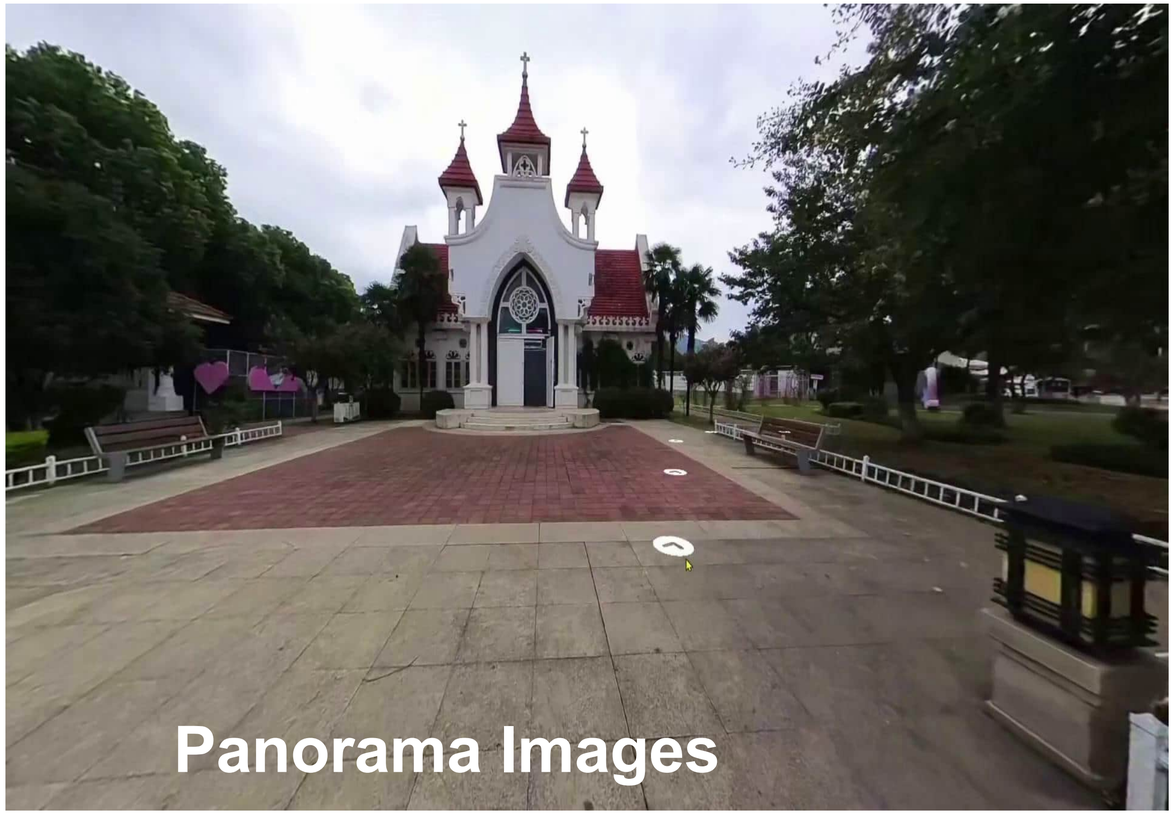
3D Mesh Models



2D Floor Plans

SCAN MORE

One Scan, 5 Deliverables



SCAN MORE

Seamless Access to FJD Trion Software Ecosystem

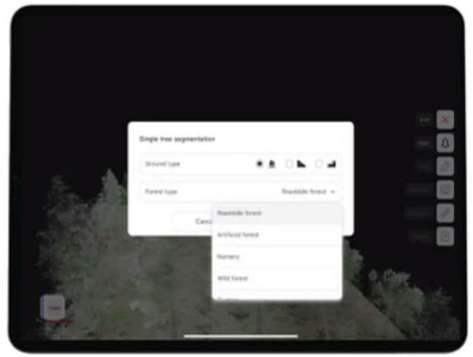
FJD Trion Scan

Data collection
Real-time app control
Scan file management

Download on the App Store GET IT ON Google Play

FJD Trion Model (PC)

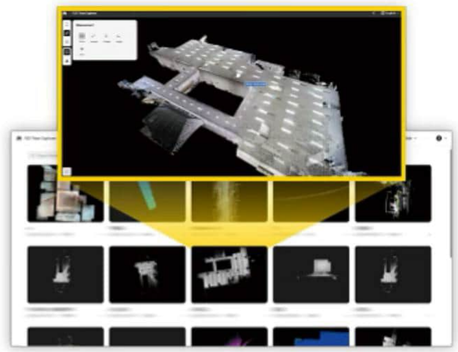
Data processing
Generate construction, forestry, mining reports, and more



FJD Trion Model (Tablets)

Generate Deliverables
iPad and Android support
On-site post-processing and preview

Download on the App Store GET IT ON Google Play



FJD Trion Explorer

Share and collaborate
Share online and support collaboration across teams

FLEXIBLE OPTIONS

P2

- LiDAR body*1
- RTK module*1
- Grip battery*2
- Built-in camera *3
- 67W charger

P2 combo

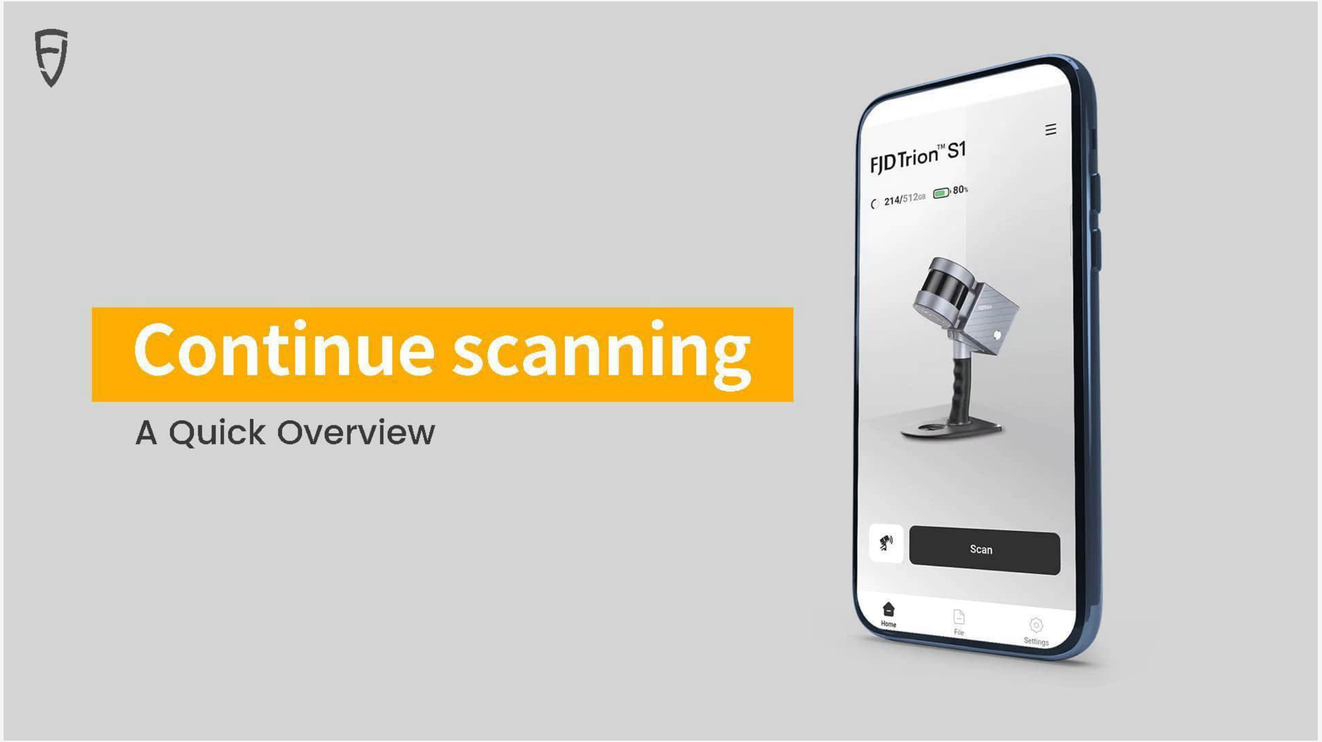
- **Panorama camera**
- LiDAR body*1
- RTK module*1
- Grip battery*2
- Built-in camera*3
- 67W charger

What’s More

FAST LARGE-SCENE SCANNING

Continuous Scanning

- ✓ Eliminate manual point cloud stitching
- ✓ New user friendly

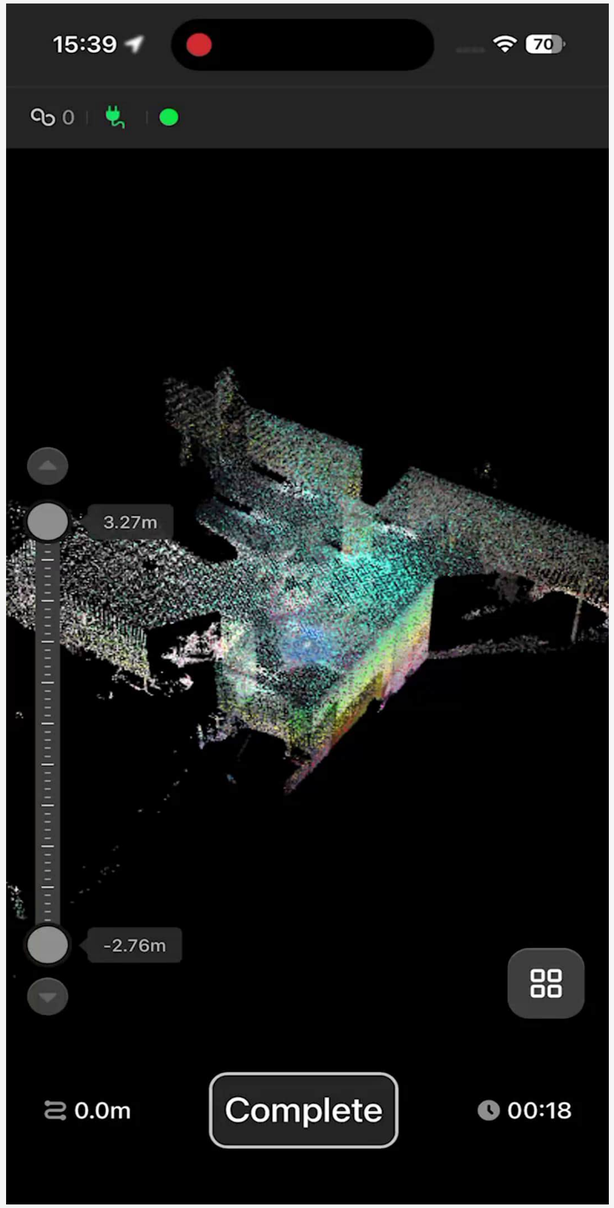


FAST LARGE-SCENE SCANNING

Live Map Overlay

- ✓ KML imported to make clear work zones
- ✓ Realtime map overlay for scanning guidance

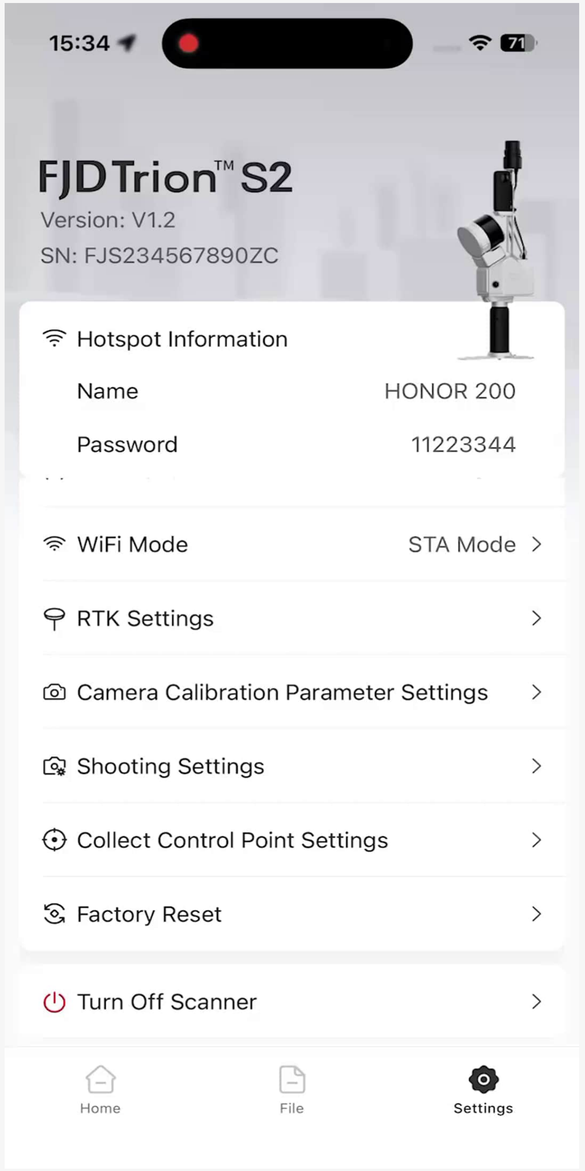
release version：S2 V1.3 firmware



FAST LARGE-SCENE SCANNING

Base-plate Free Marking

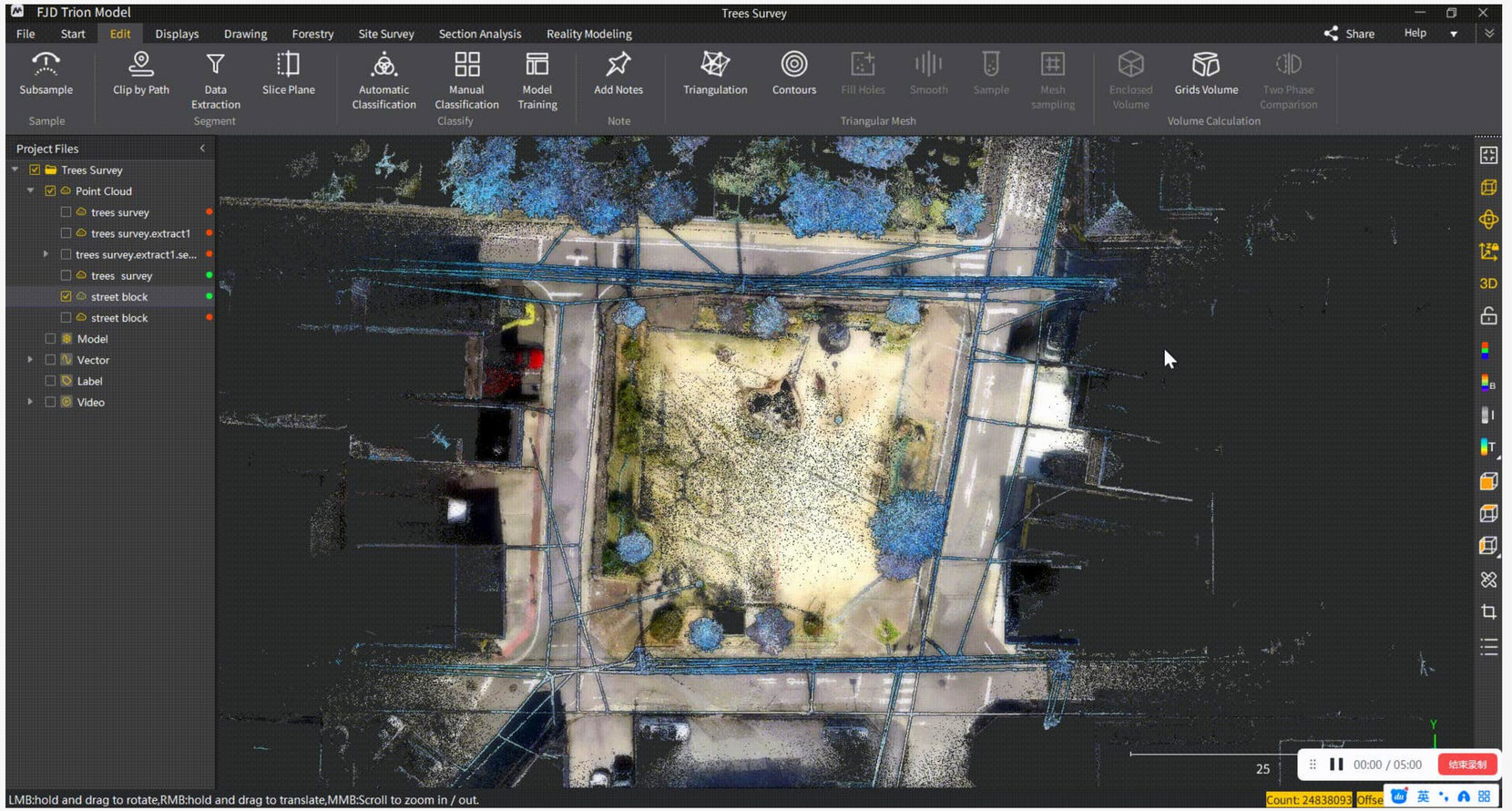
- ✓ Step 1：Enter pole height
- ✓ Step 2：Control points recording



release version：S2 V1.3 firmware

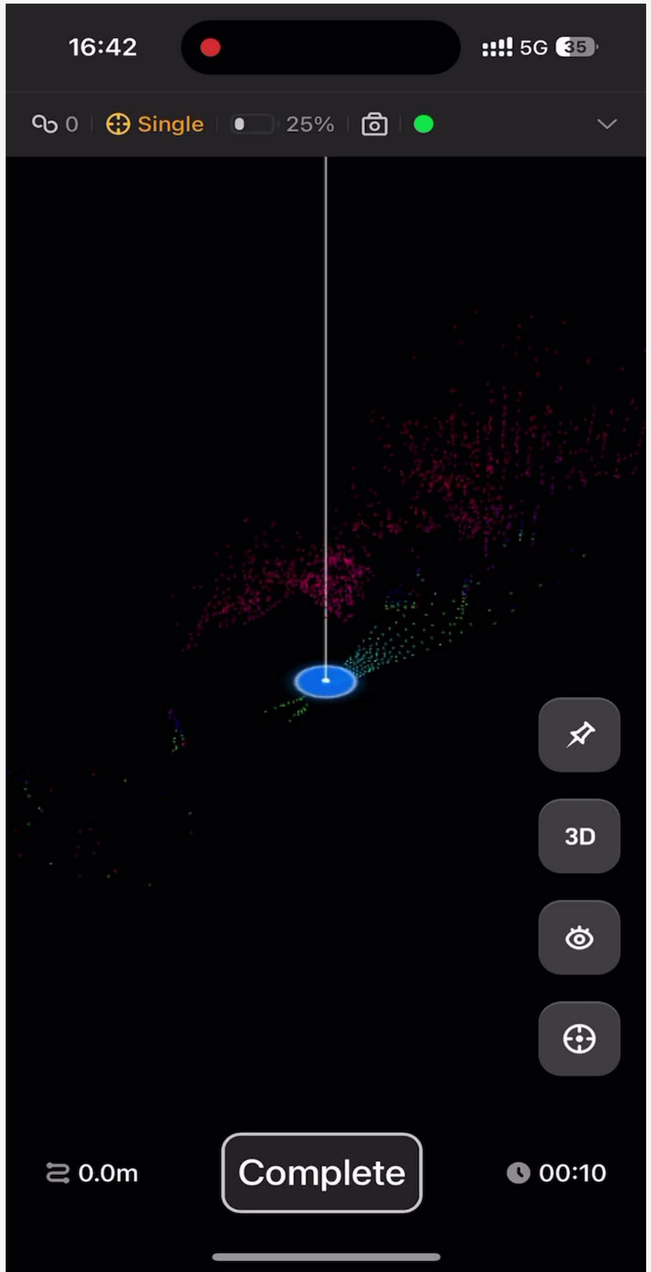
FAST LARGE-SCENE SCANNING

Point Export

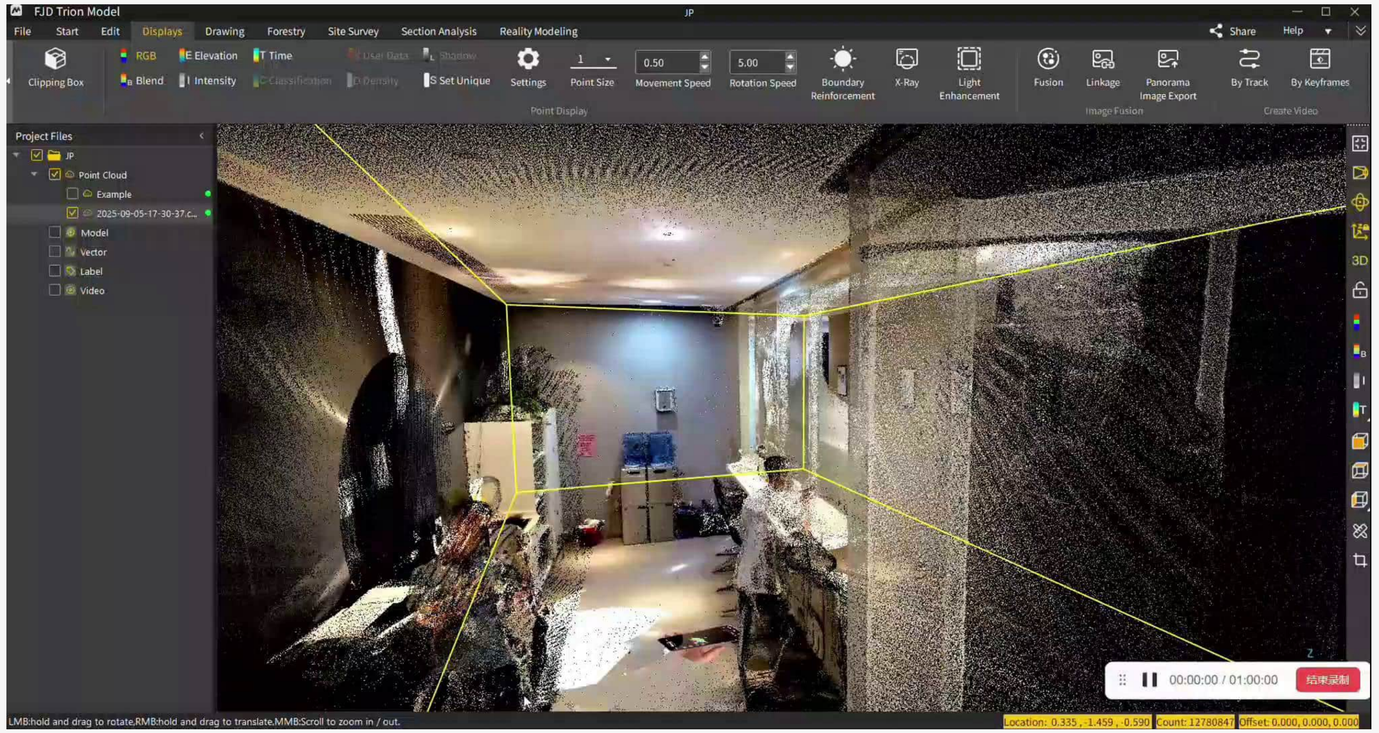


release version： S2 V1.3 firmware

MOTION-FREE IMAGE CAPTURE

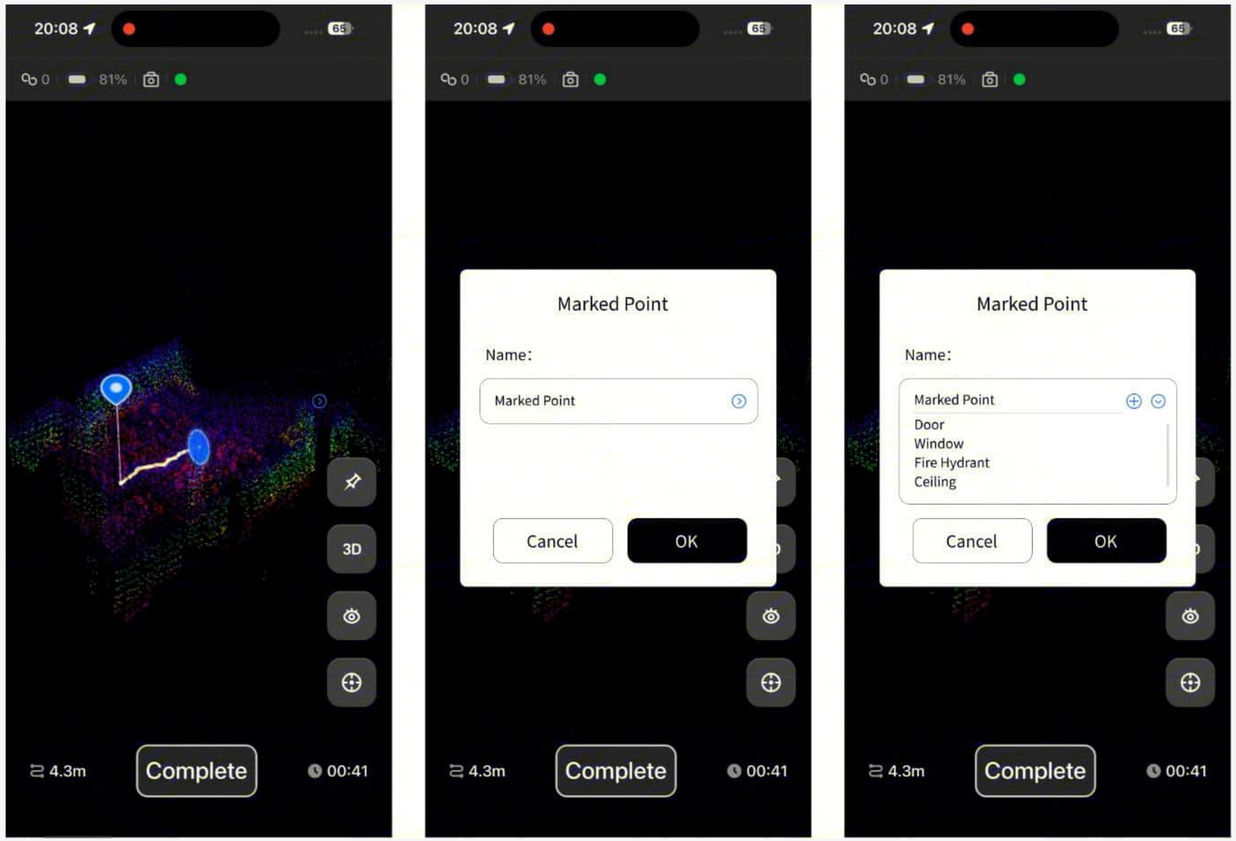


- ✓ Auto-stabilization locks scanner position for 0 motion blur.
- ✓ Quick export and view images of mark point

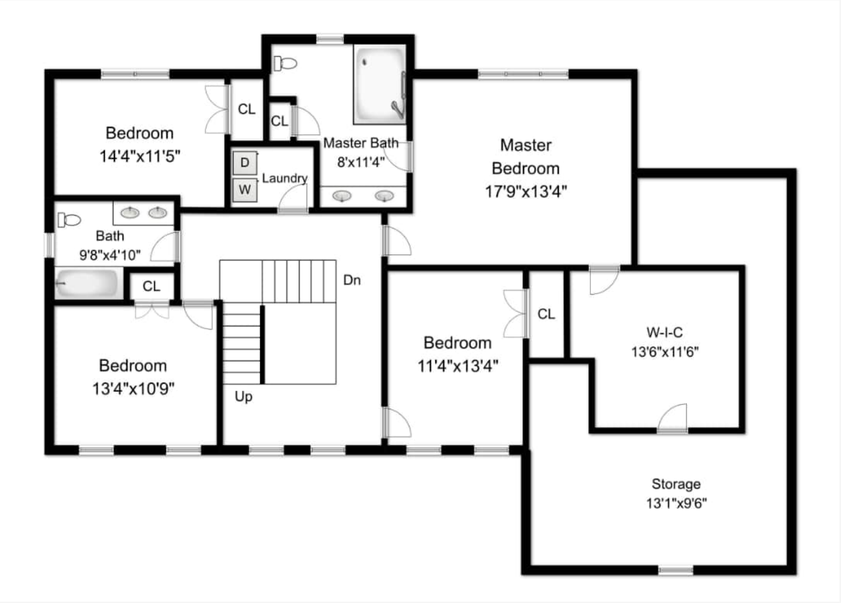


SCAN-TIME ANNOTATION

From field notes to floorplans



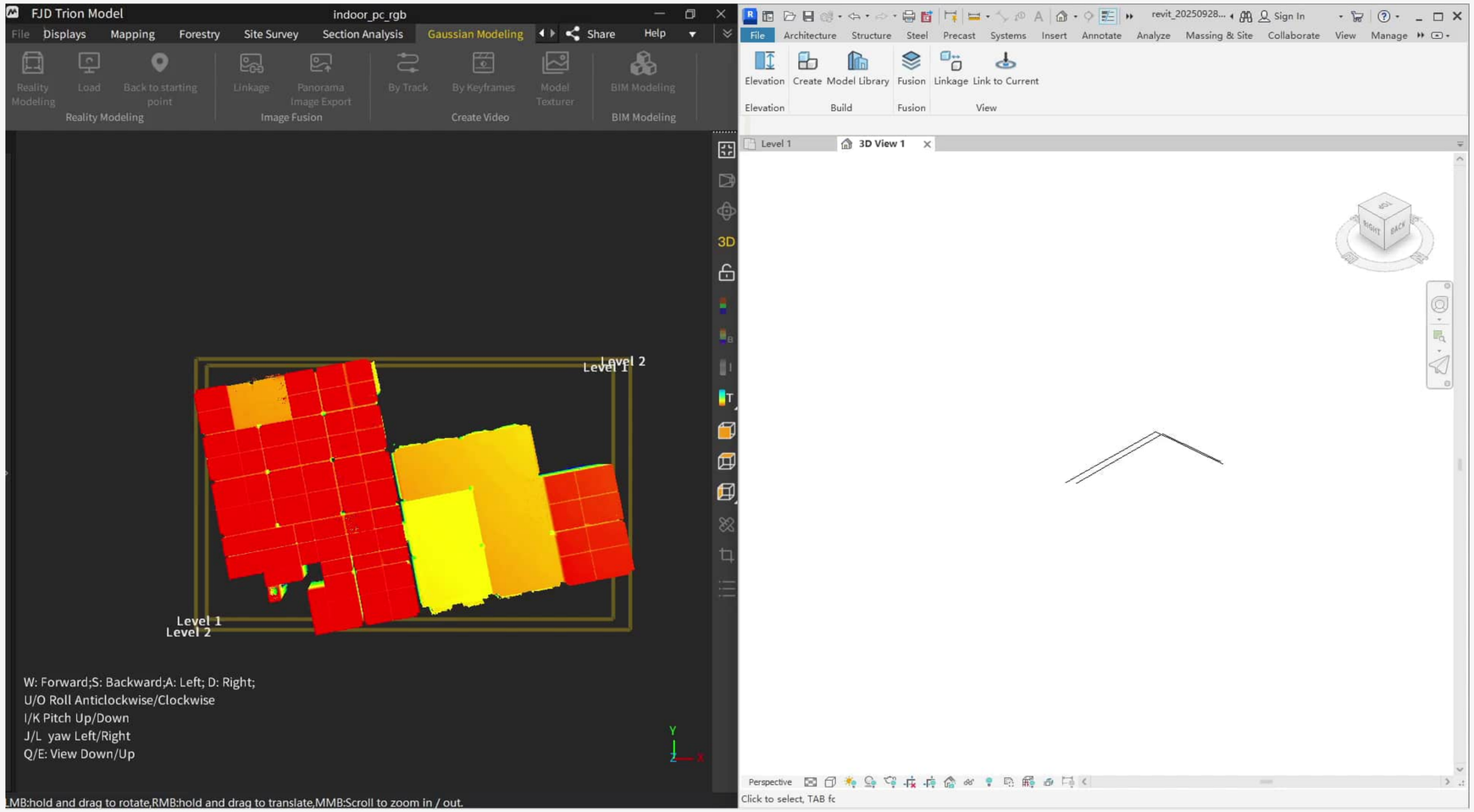
- ✓ Tag room boundaries/asset IDs during scanning
- ✓ Proprietary AI converts annotations to CAD-ready 2D plans



release version： FJD Trion Explorer V2.1

REVIT PLUGIN

Directly sync Model/Revit with point clouds (no Recap conversion)



release version： FJD Trion Model V207

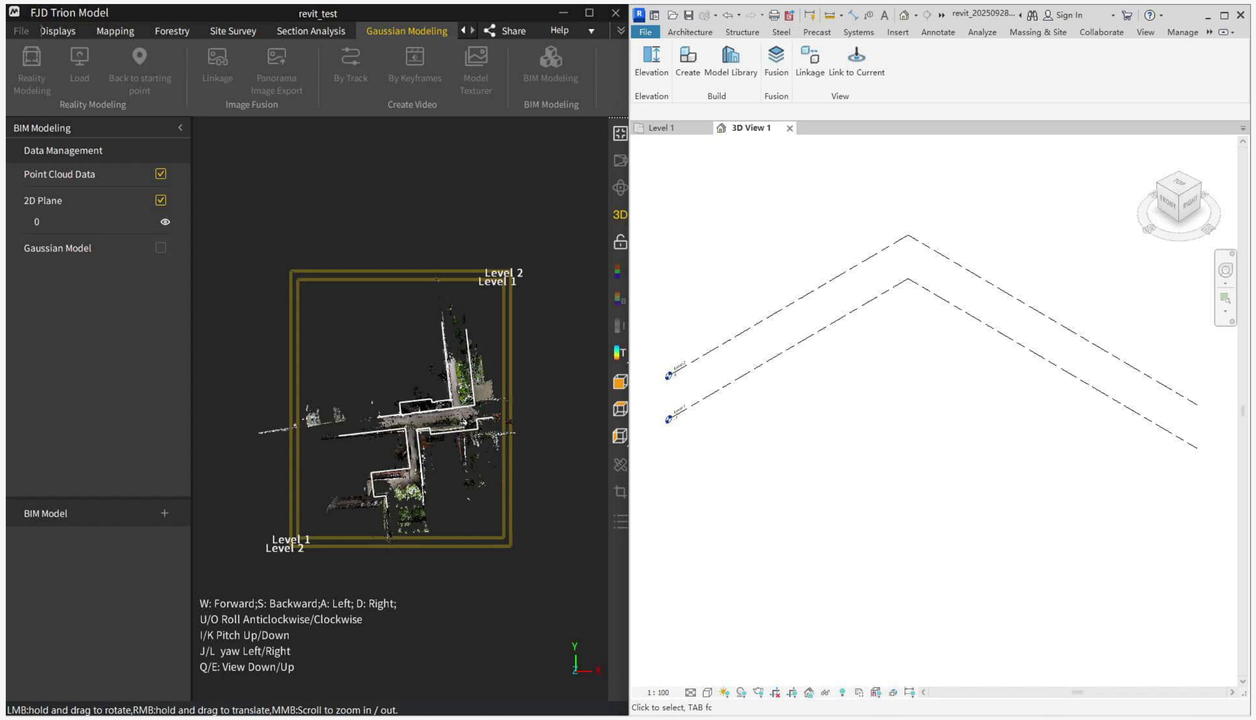
REVIT PLUGIN

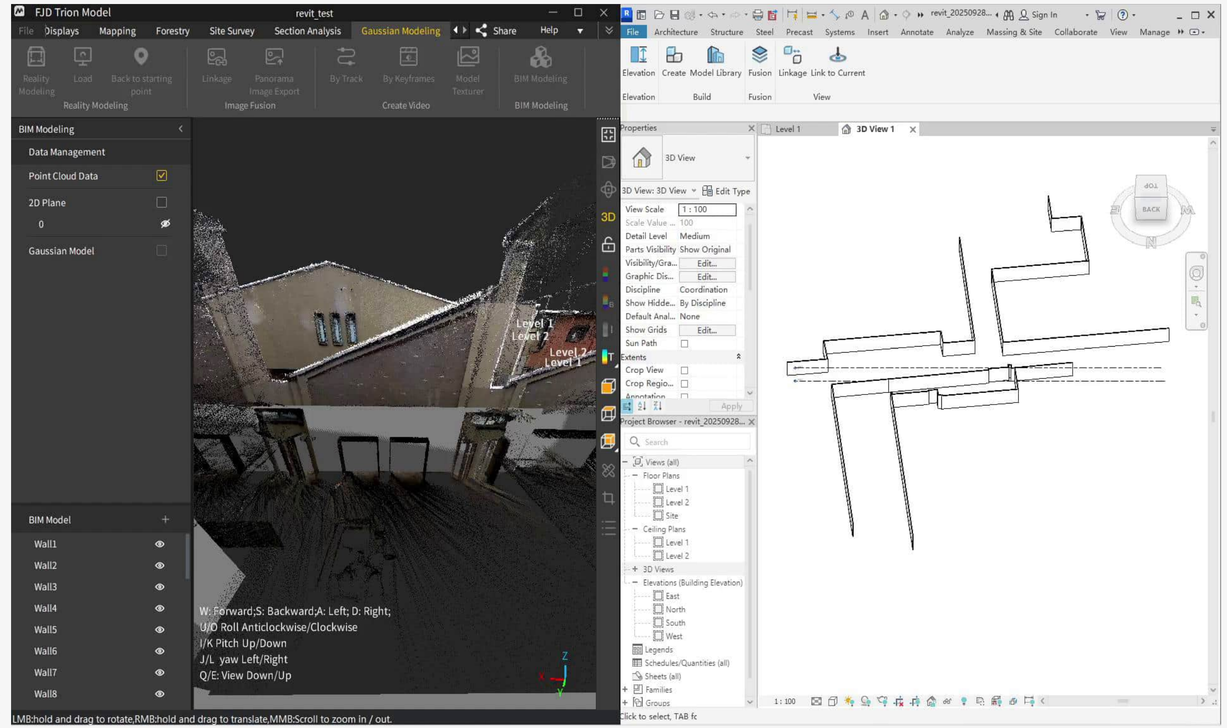
Tri-Mode Modeling

① Manual selection (CTRL+click elements)

② Vector-assisted

③ AI-Predict (machine learning recognizes standard structural components)



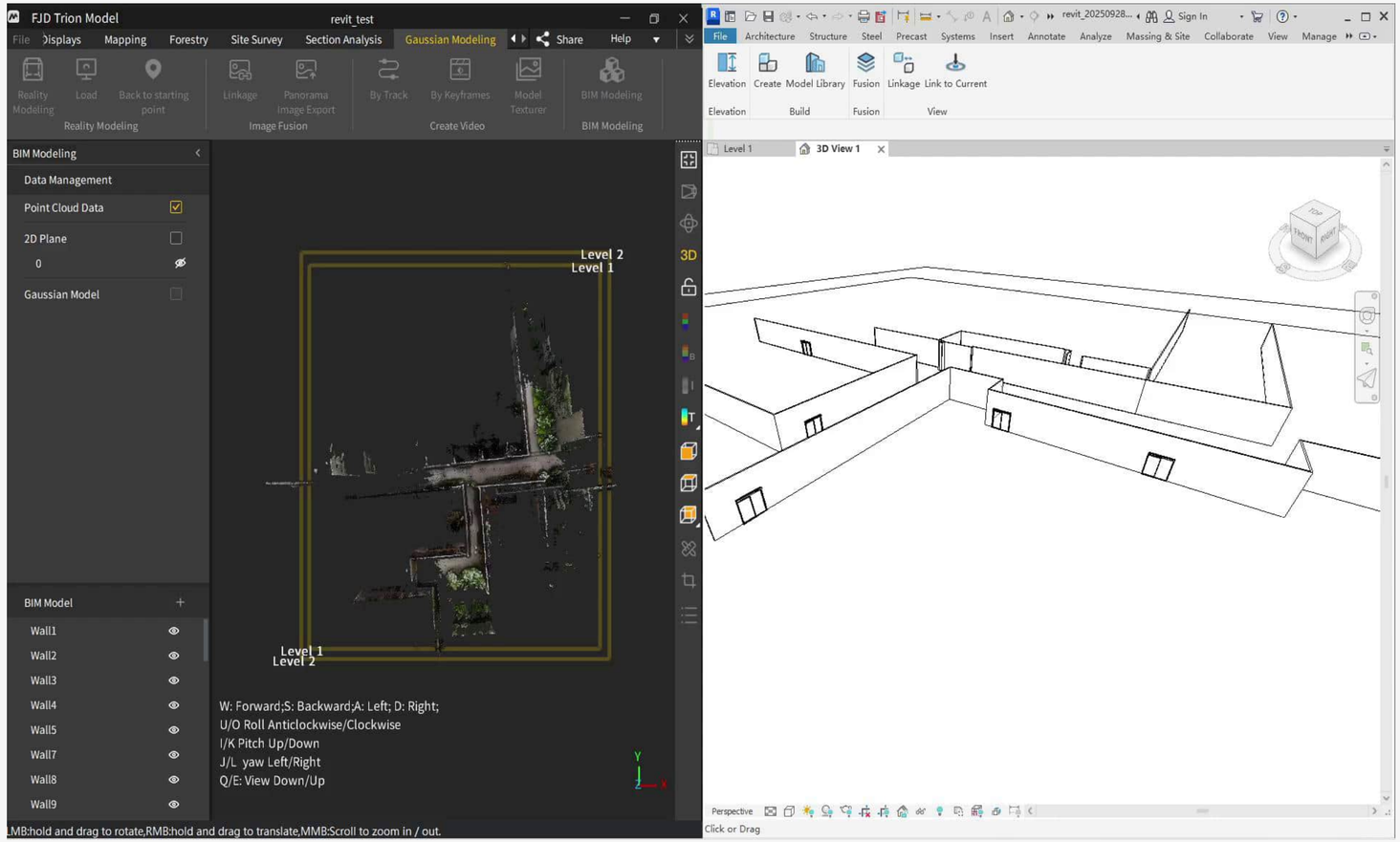


release version： FJD Trion Model V207

REVIT PLUGIN

Component Library

- ✓ Drag-drop reality checks for layouts
- ✓ Test-fit before construction



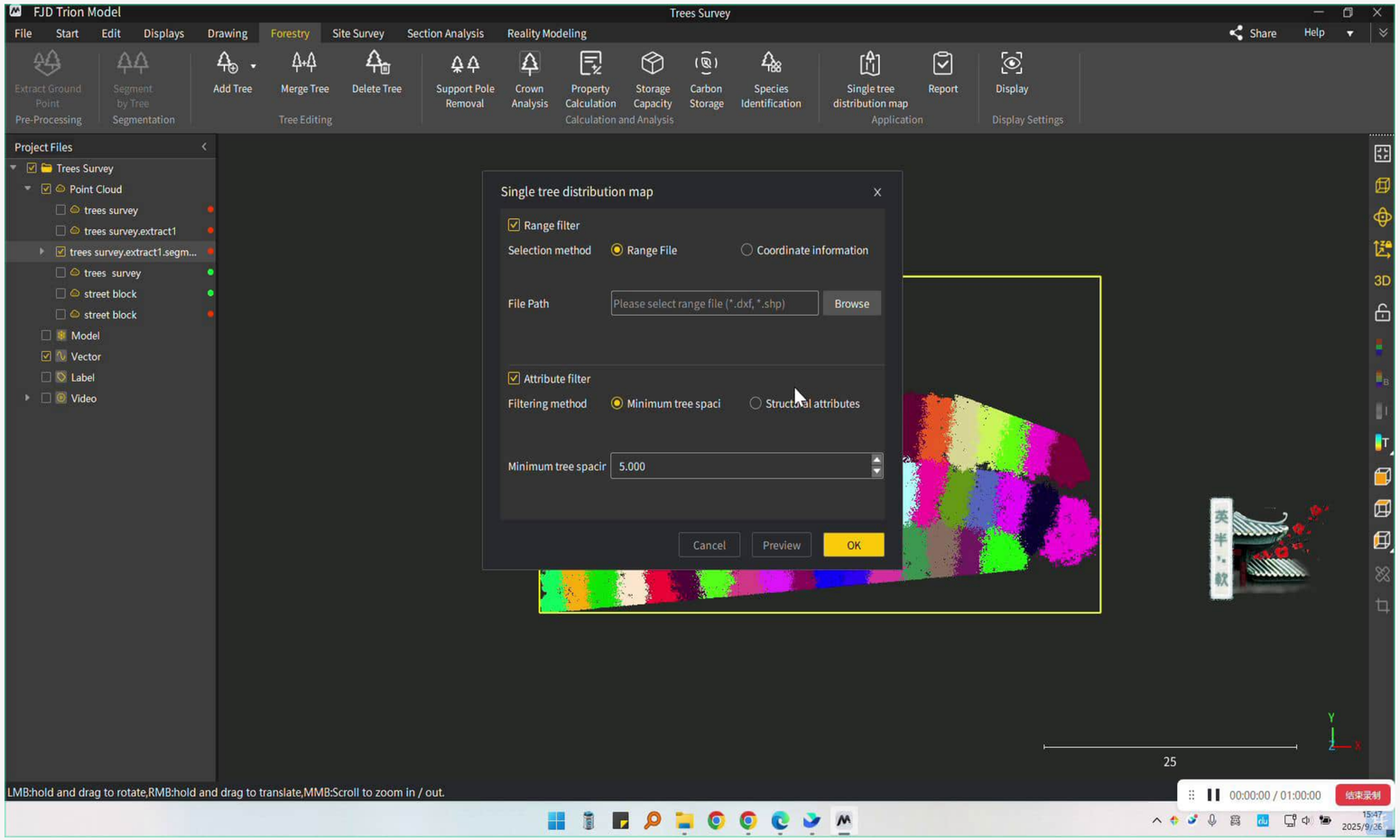
release version：FJD Trion Model V207

CANOPY IMPACT ANALYSIS

Vegetation Management with Centimeter Foresight

Generate georeferenced crown projection maps showing:

- ✓ Daily shadow trajectories (sun position simulation)
- ✓ Wind sway collision zones
- ✓ Assess tree impacts on structures/roads
- ✓ Optimize pruning/removal decisions



3DGS

DJI Pocket-3

500 pics

1h training

DJI Pocket-3

600 pics

1h training

release version： FJD Trion Model V207

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