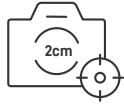


# FJD Trion™ P1

LiDAR SCANNER

# NEW DIMENSIONS UNFOLD

Whether you are a seasoned pro or just 3D-curious, a walk around the site with the PI lets you digitize your environment quickly and accurately.



**Relative Accuracy**  
Up to 2 cm



**Scanning Range**  
40 m @ 10% reflectivity  
70 m @ 80% reflectivity



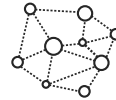
**LiDAR FOV**  
360° × 59°



**Points Per Second**  
200,000



**Lightweight and Portable**  
1 kg / 2.2 lbs



**Real-time Point Cloud**  
Visualize as you scan

## EASY REALITY CAPTURE

### Indoor, outdoor, underground, all day long

Powerful SLAM technology enables the PI to work in direct sunlight or even at night, in locations that may be inaccessible with traditional methods.



### Compact yet mighty

Weighing in at only 1 kg or slightly over 2 lbs, the PI fits in a messenger bag and can work all day with easy battery swaps, recreating your environment in minutes.



# REBUILD WHAT YOU SEE

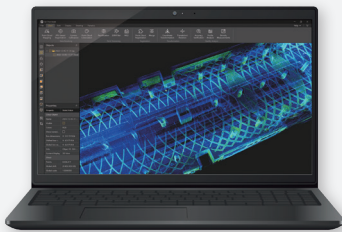
Advanced SLAM technology does not have to cost a fortune. No more complicated instrument calibration or lengthy workflows processing point cloud data. The plug-and-play design and accessible price point of the P1 empowers you to explore boundless creativity, streamline data processing, and digitize assets with ease.

## Workflow



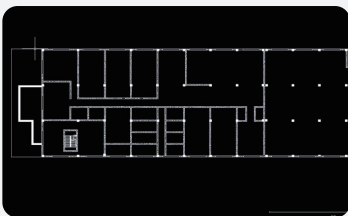
### Capture

Walk, scan, and view point cloud data in real-time.



### Analyze

Process point cloud data in las, pcd, pts, ply using Trion Model. Scan to post-processing time ratio is about 3:1.



### Deliver

Calculate distance, area, and volume. Create contours, floor plans, forest analyses, and 3D models like BIM.

## CONFIGURATIONS

### Camera

Capture RGB videos with camera.

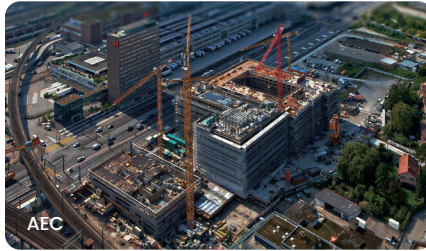


### RTK

Generate georeferenced point cloud data.



# APPLICATION SCENARIOS



## QUICK SPECS

<b>Weight</b>	1 kg (excluding camera & baseplate)	<b>Power Source</b>	Rechargeable Grip Battery
<b>Dimensions</b>	160 × 120 × 270 mm (excluding camera)	<b>Power Supply</b>	10.8 V, 3 A
<b>Relative Accuracy</b>	Up to 2 cm* <small>*Tested in experimental conditions</small>	<b>Power Supply Interface</b>	Type-C
<b>Scanning Range</b>	40 m @10% reflectivity 70 m @80% reflectivity	<b>Data Transmission</b>	USB-3.0
<b>Laser Wavelength</b>	905 nm	<b>Power Consumption</b>	12 W (Scanner only)
<b>Laser Rating</b>	Eye-safety Class I	<b>Battery Life</b>	2 h (Grip Battery, Room Temperature, Scanner only)
<b>Field of View</b>	360° x 59°	<b>Wi-Fi</b>	2.4 GHz
<b>Number of Laser Heads</b>	1	<b>Internal Memory</b>	512 GB
<b>Point Rate</b>	200,000 points/second	<b>Operating Temperature</b>	-10 C ~ 45 C
<b>Point Cloud Processing</b>	Real-time processing	<b>Camera Resolution</b>	5760 × 2880 @ 30 fps
<b>Point Cloud Display</b>	Real-time point cloud preview	<b>Camera Field of View (FOV)</b>	360°

Contact your local FJDynamics Authorized Distribution Partner for more information.

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