

PL-01

PL-01 is a handheld 3D laser measurement system primarily designed for mining users. It integrates advanced multi-line LiDAR and high-precision inertial measurement units, and adopts industrial-grade laser SLAM algorithms. It supports real-time and post-processing mode calculations, operates in GNSS denied environments and performs high-precision 3D scanning in large-scale scenarios. Additionally, PL-01 can be mounted on DJI M300/350 drones, providing active obstacle avoidance during flight to safely capture terrain data in enclosed spaces. PL-01 is dedicated to provide mining users with real-time, simple, flexible, high-accurate, and professional 3D scanning solutions.



Real-time



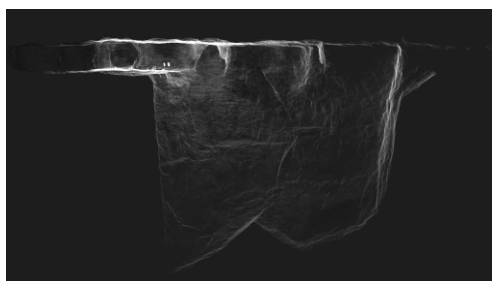
Flexible



Professional



High Accuracy


Weight: 1.8kg(excluding battery)

Dimension: 280×75×11mm (mainbody)

Solution Mode: Supports both real-time and post-processing solutions

Operating Duration: 1.5h (handheld mode)

Scanning Field of View: Horizontal 330°, Vertical 360°

Positioning Method: SLAM technology (no need for GNSS)

Data Processing: Supports both real-time processing and post-processing

Scan Control: Supports both software and hardware control

Laser Class: Class 1 (safe for human eyes)

Power Input: 24V DC

Ranging Capability: 0-100m

Absolute Accuracy : < 5 cm

Data Interface: USB3.0

Internal Storage: 256G SSD

Communication Method: WIFI

Operating Temperature: -15 ~ 45°C

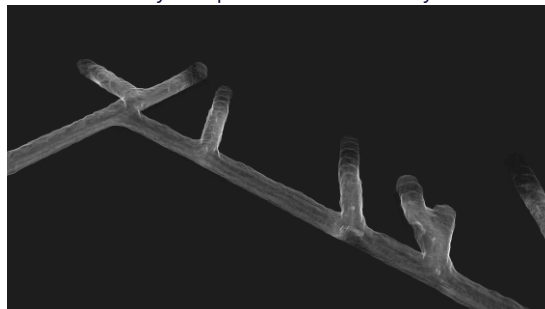
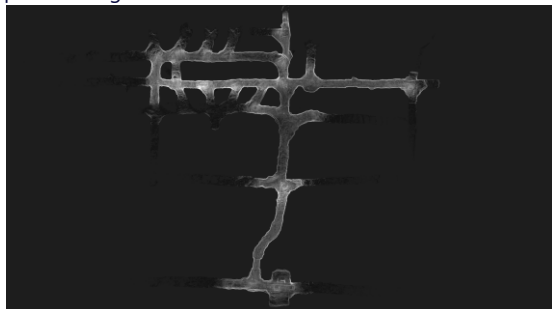
Product Power Consumption: <35W

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Applications

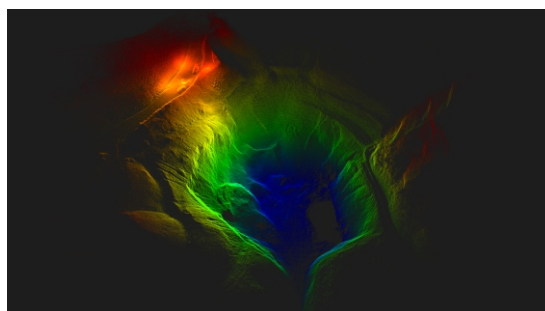
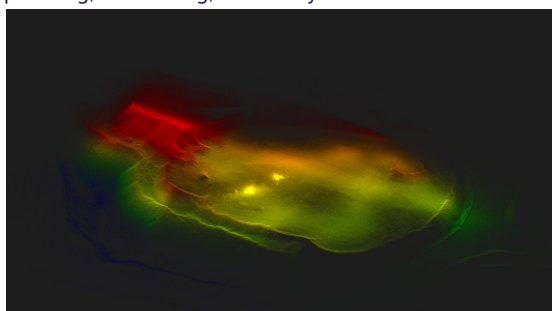
Underground Tunnel

In underground tunnels applications, PL-01 rapidly creates high-precision 3D point cloud models, to enable real-time positioning and extraction of tunnel cross-sections and plans, to improve the mine safety and production efficiency.



Open-Pit mine

In open-pit mine applications, PL-01 efficiently captures topographical data and rapidly generates 3D models to support mine planning, monitoring, and safety assessments.



Stockpile Inventory Management

In stockpile inventory management, PL-01 quickly captures 3D data of material piles, enabling accurate volume calculation and inventory management.

