

Portable 3D Modeling System

Pocket 3D



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One Device, Four Model Outputs

All-in-one Efficient Modeling for Diverse Scenarios



3DGS Model

An ultra-realistic Gaussian rendering model with photo-level quality and immersive display is the preferred choice for film & TV, cultural tourism, and digital twins.



Point Cloud Model

A centimeter-level precision point cloud fully restores spatial structure and dimensions, revealing every scene detail with vivid clarity for real, measurable data.



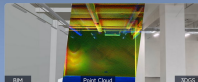
Mesh Model

The lightweight triangular mesh model offers clear topology and remains adaptable to rendering, display, secondary editing, and other needs.



BIM Model

The engineering-grade Building Information Model supports pipelines, structures, and dimension annotations and interfaces directly with construction design.



Note: Mesh models and BIM models require processing with third-party professional software.

Core Advantages

Redefining a New Paradigm for Spatial Data Acquisition

Centimeter-Level Precision Acquisition

Professional laser sensor, T1 real-scene restoration with reliable precision



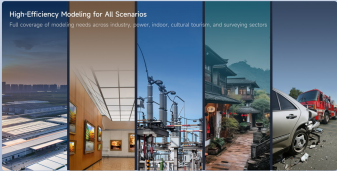
Flexible Expansion

Data formats compatible with various third-party software for processing



High-Efficiency Modeling for All Scenarios

Full coverage of modeling needs across industry, power, indoor, cultural tourism, and surveying sectors



Mainstream Camera Compatibility

Supporting Insta360[®], DJI OSMO[®], and other panoramic cameras out of the box



Ultra-portable Lightweight Design

Compact enough for one-hand grip, enabling efficient work anytime, anywhere, with no venue restrictions



Zero-Experience Friendly

One-click data acquisition, one-click data processing, streamlined workflow, instant results



Disclaimer: Insta360 and DJI OSMO are registered trademarks of their respective owners. References to the aforementioned brands are made solely for the purpose of illustrating product compatibility. This product is independently developed and manufactured by Felma Robotics, and bears no affiliation, partnership, or licensing relationship with Insta360 or DJI.

Full-Scenario Empowerment

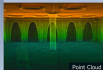
Powering Spatial Digital Transformation Across All Industries

Industrial Renovation Design

High-precision spatial reconstruction boosts industrial design efficiency and ensures smooth construction delivery.



Real-scene Image



Point Cloud



3DGS

Indoor Exhibition Hall Digitalization

Complete modeling for large spaces with full coverage of every corner. Hyper-realistic rendering strengthens the persuasion of design proposals.



3DGS



3DGS



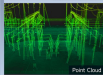
3DGS

Substation Digital Twin

High-precision 3D modeling enables intelligent inspection, fault prediction and safe operation and maintenance.



Real-scene Image



Point Cloud



3DGS

Accident Investigation

Rapid on-site scanning restores scenes in true 1:1 scale, providing accurate digital evidence for liability identification.



Point Cloud



3DGS



Accident Report

Cultural Heritage & Game Scene

High-fidelity reality capture enables effortless heritage conservation and game development.



3DGS



Game Scene



3DGS

Personal Memory Preservation

User-friendly operation reconstructs real scenes of hometowns and residences to eternally preserve precious moments digitally.



3DGS



3DGS

Parameters and Configurations

Complete Unit

Weight	700 g (without Camera)
Dimensions	127 mm x 105 mm x 223 mm
Power	7 W
Storage	32 GB TF
Battery Model	SP20
Battery Capacity	2450 mAh
Endurance	5 hours @ Room Temperature
Operating Temperature	-20 °C ~ 50 °C
Humidity	< 95%

Accuracy¹

Relative Accuracy	2 cm @ 60 m
Absolute Accuracy	5 cm

Notes:

1. Measurement accuracy under typical environment;
2. Test conditions: Normal incidence, ambient illuminance 0 lux ~ 100 lux, detection probability 50%.

Standard Accessories

Pocket 3D Main Body × 1	Base × 1	Memory Card × 1
SP20 Handle Battery × 1	Charging Cable × 1	Card Reader × 1

LiDAR

Range	0.15 m ~ 100 m
Maximum Range ²	30 m (10% Reflectivity)
Laser Channels	16
Horizontal Field of View	360°
Vertical Field of View	40°
Scanning Frequency	10 Hz
Effective Point Frequency	45k pts/s

Interface

Type-C	Battery Charging
WiFi	Supported
Bluetooth	Supported
Base Port	1/4 Inch Threaded Hole

Supporting Software

SLAM GO POST Pro

SLAM GO POST Pro is a professional PC-end data processing software specifically designed for Pocket 3D. It is equipped with its own core data processing algorithm and supports the one-click generation of point cloud, panoramic images, and Gaussian model results. It integrates a full-process tool for result browsing, visualization display, precise measurement, and interest point annotation. At the same time, it can complete the unified management, batch processing, and fusion combination of multiple measurement data, and complete the post-processing of 3D data in one step.

High-Fidelity 3DGS Model Construction

Without relying on the SPM algorithm, it accurately recovers the pose of panoramic images in complex environments and generates high-quality Gaussian model data.

High-Precision Point Cloud Map Construction

Supporting the generation of indoor and outdoor colored point clouds with a relative accuracy of up to 2 cm.

High-Resolution Panoramic Image Stitching

Supporting the processing of original panoramic camera data, stitching high-resolution panoramic images with pose information, and achieving precise matching between panoramic images and point clouds.

Compatibility with Third-Party Modeling Software

It can output each frame of panoramic camera images and calibrated pose elements. It can also output standard Colmap-format data processed by the built-in SPM algorithm, compatible with mainstream or self-developed third-party modeling software such as Hupmap and Postshot.

Result Browsing

Supporting the browsing and editing of point cloud data and 3DGS data results.

Note: Colored point clouds, panoramic images, and 3DGS models require an optional external camera.

