OMNIGEO

Xunche X1 is the 3rd-generation SLAM product developed by OMNIGEO. It pioneers a brand-new paradigm of handheld 3D scanning.With fully upgraded hardware configuration and algorithm capability, the device is equipped with two 12MP high-definition cameras and a long-range LiDAR supporting up to 100-meter detection, achieving dual breakthroughs in wide-area coverage and high-precision data acquisition.The LiDAR accurately captures full-space point clouds, while the HD cameras restore real texture details with vivid and natural color mapping, delivering high-fidelity digital replication of physical objects.Focusing on portability, efficiency and survey-grade accuracy, Xunche X1 adapts to geographic information collection across diverse industries and scenarios, providing a full-process solution for real-scene 3D reconstruction and spatial digitization.

Item	Parameters
Scanning Range	0.1~40m (10% reflectivity); 0.1~100m (90% reflectivity)
Field of View	Horizontal: 360°, Vertical: 130°; Optimized viewing angle to reduce data redundancy
Scanning Structure	Hybrid solid-state LiDAR with internally stabilized structure
Mapping Method	Real-time colored point cloud display via SLAM
Solving Mode	On-site real-time solving / post-processing solving
Scanning Speed	200,000 points/sec (non-repetitive scanning & patrol frequency modulation tech, up to 1.2 million points/sec equivalent)
LiDAR Class	Class 1, eye-safe
Camera Pixel	2 × 12 million pixels
Camera Quantity	2 high-definition cameras
Control Terminal	South Go
Processing Terminal	Southlidar Pro Standard Version
Point Cloud Accuracy	Relative accuracy ≤1cm; Point cloud thickness ≤1cm
Coordinate Acquisition	Collect control points via positioning plate to obtain point cloud data under arbitrary coordinate systems
Battery Capacity	45.36Wh / 3150mAh
Operating Power	23W
Working Duration	150 minutes
Data Interface	TF Card / Type-C
Internal Storage	128GB, expandable
Ingress Protection	IP54
Device Weight	1.12kg
Working Temperature	-20℃ ~ +45℃
Storage Temperature	-20℃ ~ +60℃