SHARE

True Colors in Real-Time: Seeing Is Measuring

SHARE SLAM S10

Handheld LiDAR Scanner


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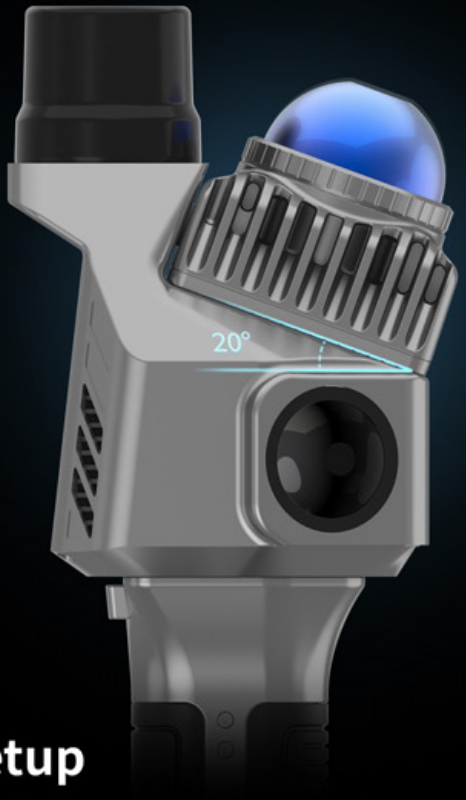
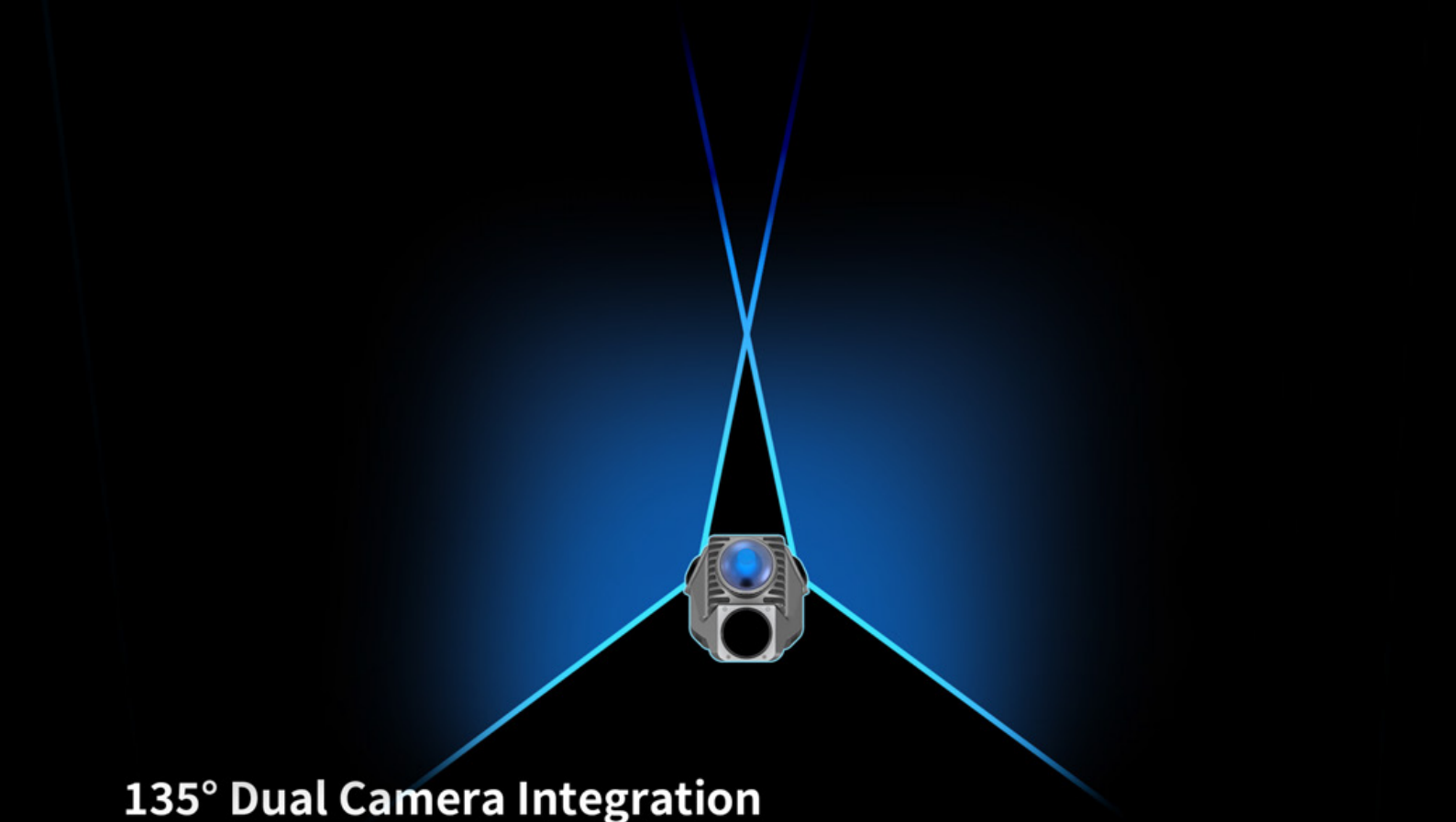


20° Tilted LiDAR Setup

The LiDAR is angeled with a 20° tilt towards the ground, enabling comprehensive coverage of the ground, forward areas, and ceiling without manual repositioning. This setup boosts scanning efficiency, capturing all relevant areas in a single pass.



135° Dual Camera Integration

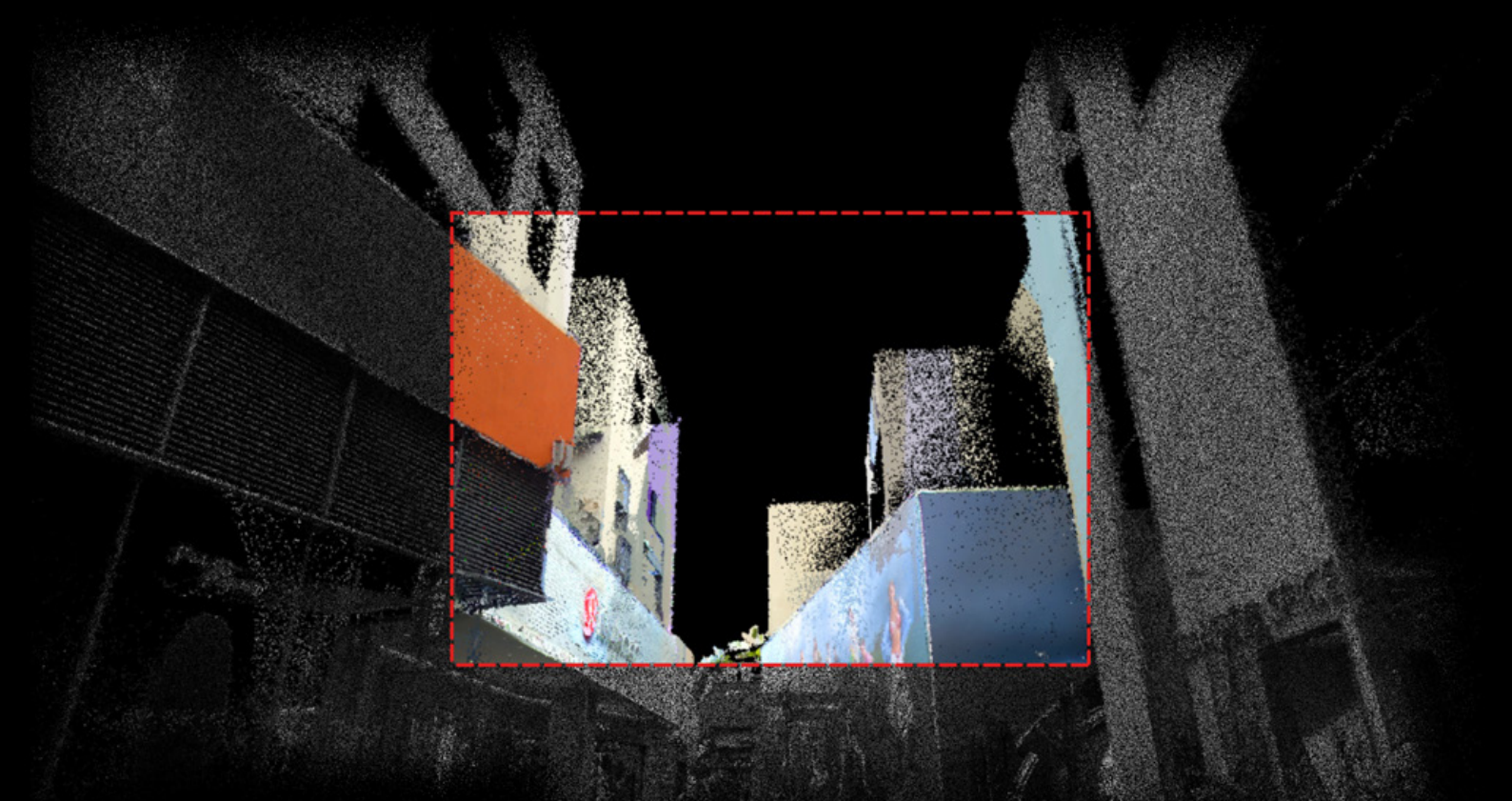
Equipped with two high-resolution wide-angle SHARE cameras arranged at a 135° angle, this configuration expands the image capture range. The integrated design of the cameras in the scanner eliminates assembly discrepancies, ensuring highly precise color rendering.

Integrated RTK Positioning Module

Comes standard with a built-in, ready-to-use RTK module that ensures microsecond-level synchronization between RTK, IMU, cameras, and other core sensors. With support for 7 satellites and 21 channels, it achieves centimeter-level positioning accuracy.

High-Precision Scanning in GPS-Denied Environments

The SHARE-SLAM-RTK algorithm continues to provide precise geographic coordinates for indoor scanning in GPS-denied environments. When returning to an area with stable RTK signals, it automatically corrects any system errors, enhancing data accuracy.



Color Point Cloud Processing and Preview in Real-Time

Featuring built-in cemara, the system integrates point clouds with images captured in real time. With a high-performance processor, it efficiently manages vast amounts of data, enabling industry-leading real-time data processing and preview.

Open-loop Scanning Capability

With stable RTK signals, the self-developed fusion algorithm generates point cloud data embedded with geographic coordinates, eliminating the need for closed-loop scanning. This enables the consistent delivery of point cloud data with absolute precision less than 5 cm.

SHARE Mapper App

Designed for handheld devices, this mobile software supports both Android and iOS. It enables real-time, smooth previewing point clouds during operations and direct download for on-device playback.

Integrated MagSafe for Single-Handed Operation

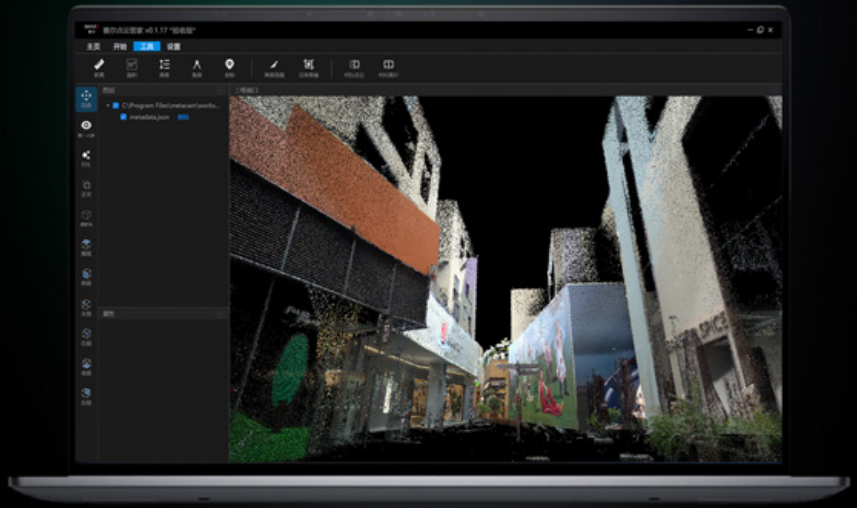
Featuring a built-in MagSafe, the device enables single-handed operation with just a simple touch. This eliminates the need to switch hands, simplifying the user experience and maintaining a poised and elegant workflow.

Microsecond-Level Time Synchronization Technology

Empowered by SHARE's imaging algorithms, point cloud-image fusion algorithms, and multi-sensor microsecond-level time synchronization technology, the system achieves superior color accuracy and more authentic color reproduction in point clouds, ensuring relative accuracy up to 1 cm.

Compatible with Apple Vision Pro for Enhanced Operations

Supporting the use of Apple Vision Pro for scanning, the system merges cutting-edge concepts with advanced measurement technologies, and opens up innovative ways to explore and interact with the metaverse.



SHARE Point Cloud Manager

SHARE’s one-stop point cloud management platform streamlines the generation of color point clouds. A single click produces outcomes with processing time proportional to scan duration, supported by multiple tools and panoramic overlay.

Features Overview

All-in-One Compact Design

Quick-Release Battery Handle

Rapid Type-C Charging

Durable Aluminum Alloy Body

Center Pole Compatibility

GCP Plate Included

Parameters

Dimensions	Overall: 297.7*103.7*104.8mm	Scan Rate	200,000 pts/s
	Main Unit: 133.1*104.8*103.7mm	Scan Distance	40m@10% reflectivity
Protection Level	IP54		70m@80% reflectivity
Weight	1010g	Point Cloud Thickness	⩽ 1cm
Voltage	14.4v	LiDAR FOV	Horizontal 360°; Vertical -7° to 52°
Battery Capacity	3150mAh	Absolute Accuracy	⩽ 5cm
Charging Port	TYPE-C; PD30W fast charging	Relative Accuracy	⩽ 1cm
Storage Capacity	256G (expandable)	LiDAR Class	Class 1
Operating Temperature	-20°C-55°C	Wavelength	905 nm

Camera Resolution	12 megapixels×2	Point Cloud Format	.las, .pcd, .ply, etc.
Camera FOV	360°*270°	Processing Method	Real-time pre-processing; post-processing
RTK	Built-in	Mobile App	Supports preview of color point clouds, iOS and Android compatibility
RTK Accuracy	H: 0.8cm + 1ppm; V: 1.5cm + 1ppm	Processing Software	Supports one-click output of color point clouds, and panoramic overlay viewing of point clouds and images.

SHARE

Ideal for 3D mapping

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