SHARE

The Designer’s Magic Wang-One sweep, One Drawing

SHARE SLAM S20 SE
SHARE SLAM S20 SE RTK

Real-Scene 3D LiDAR Scanner

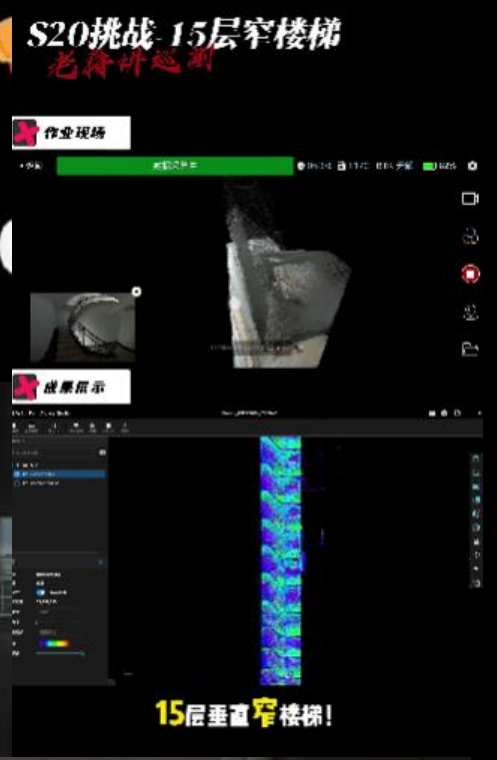
Reporter:

Date: 2025.09

Part 01

Why the S20 SE?

SHARE SLAM S20 Market Response

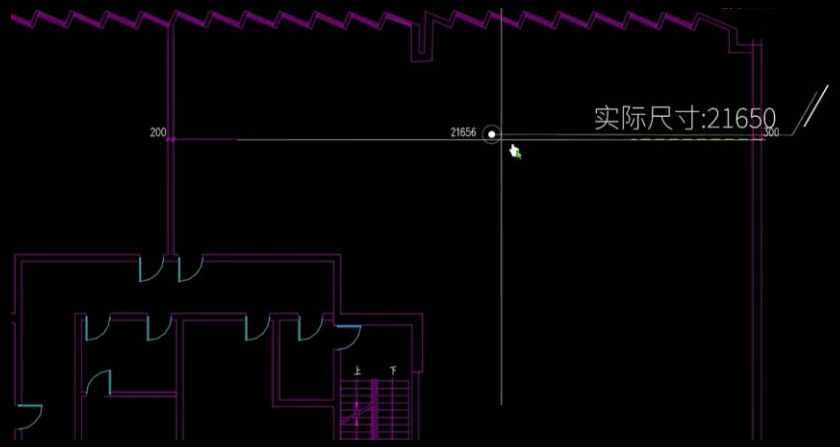


SHARE SLAM S20 Market Response

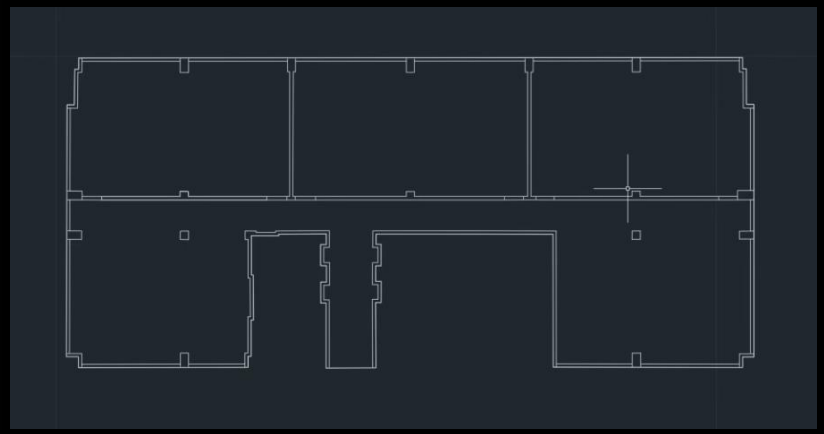
Some industries Do Not Require RTK and High-definition Cameras: AEC

AEC, the acronym for the architecture, engineering, and construction services industry

Primary users: Studios and individual users



Indoor measurement



CAD

BIM

Feedback For S20 From The AEC Sector

Advantages

- Faster, more cost-effective digital construction solutions;
- A scanning partner offering precise, stable and reliable data.

Expectation

- Meet fundamental data collection requirements at a more affordable price;
- Lighter equipment with extended battery life.

For Real-world 3D Scanning, Choose SHARE

SHARE

RTK
1inch Camera
Mechanical Shutter
Photo modelling

RTK
1inch Camera
Mechanical Shutter
V-SLAM
Photo modelling

RTK
Panoramic Camera Module
Laser SLAM
Real-time Colour Point Cloud

RTK
One-inch panoramic camera module
Mechanical shutter
Laser SLAM
Visual SLAM
Real-time colour point cloud
Photo modelling

The Preferred Choice for AEC (Architecture/Engineering/Construction)

Core scanning capabilities

Lightweight design

Extended battery life

Global shutter module

Laser SLAM

Real-time colour point cloud

3DGS modelling

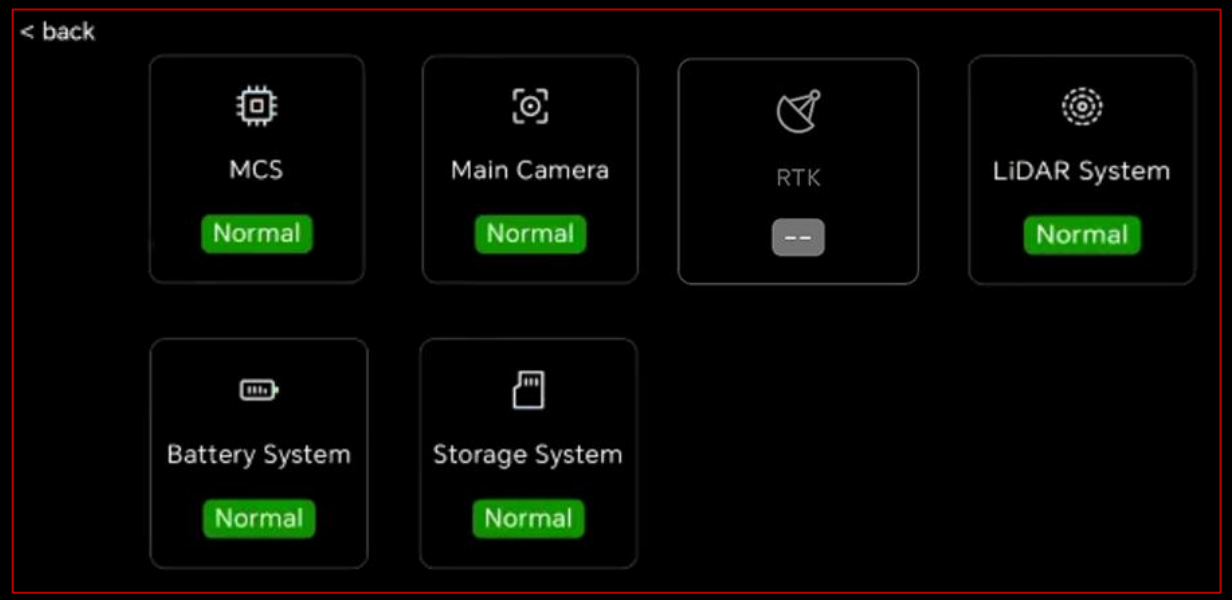
Reserved expansion interfaces

Part 02

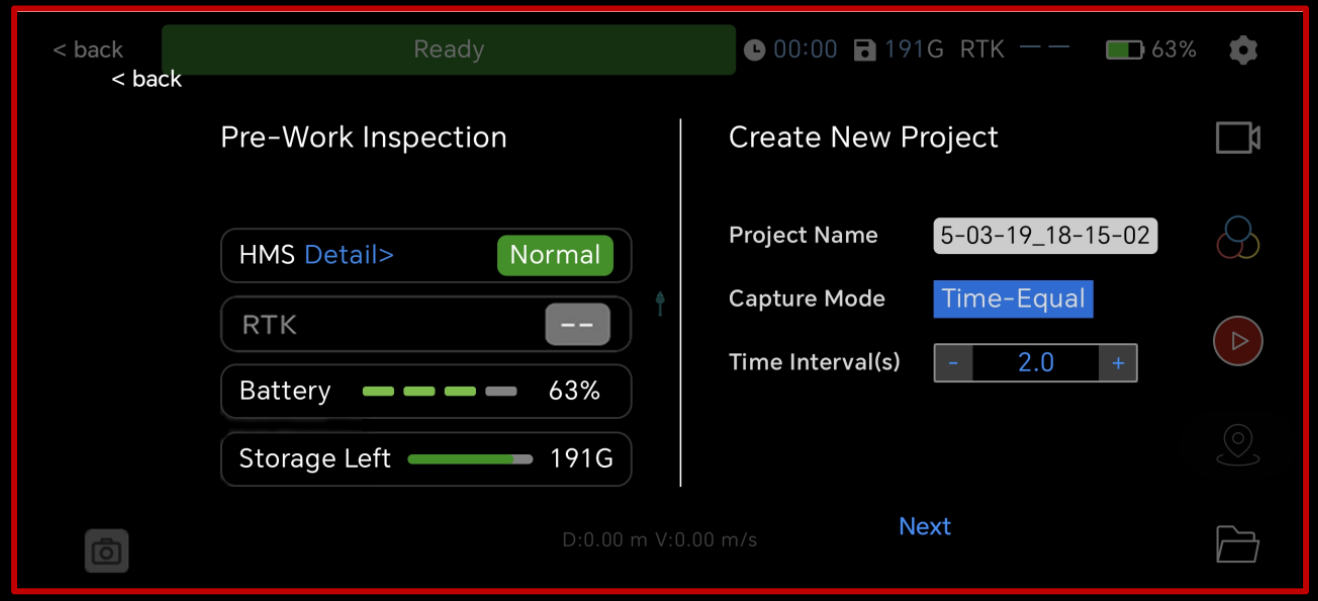
Introduction

S20 SE/S20 SE RTK Introduction

Mobile SHARE Capture



Health Management System

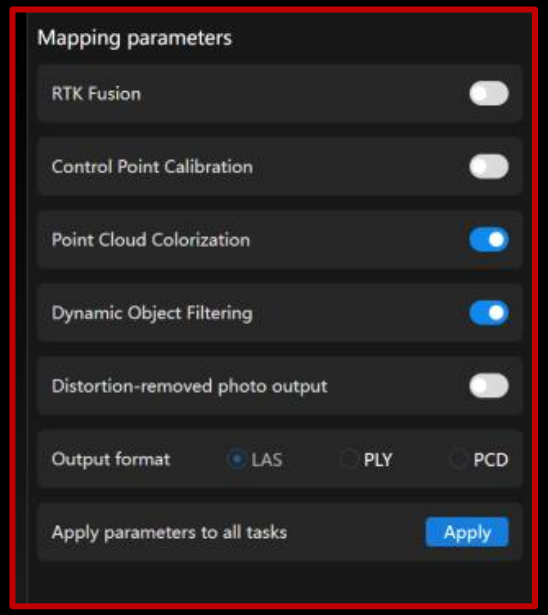


Pre-operation inspection

Core Achievement Data

Point cloud data

- Supports real-time point cloud saving and export for rapid on-site verification;
- Supports generation of multi-format intensity point clouds and color point clouds;
- Provides trajectory information for point cloud data.



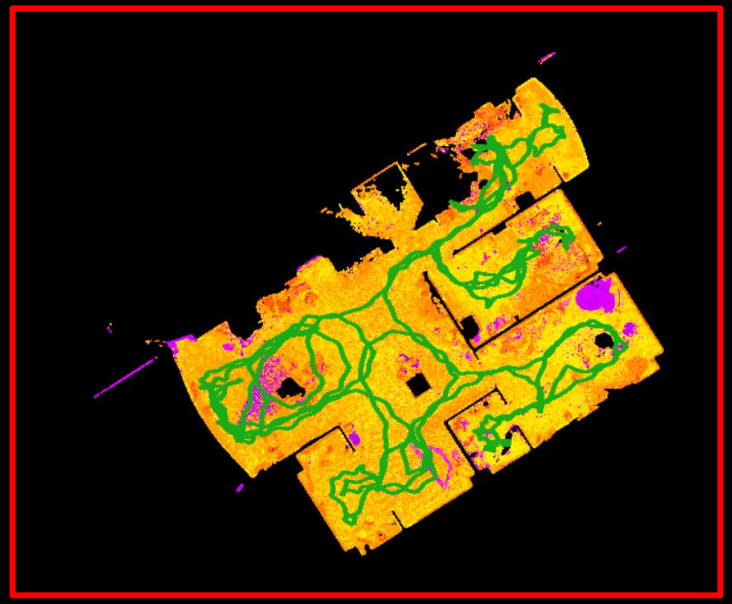
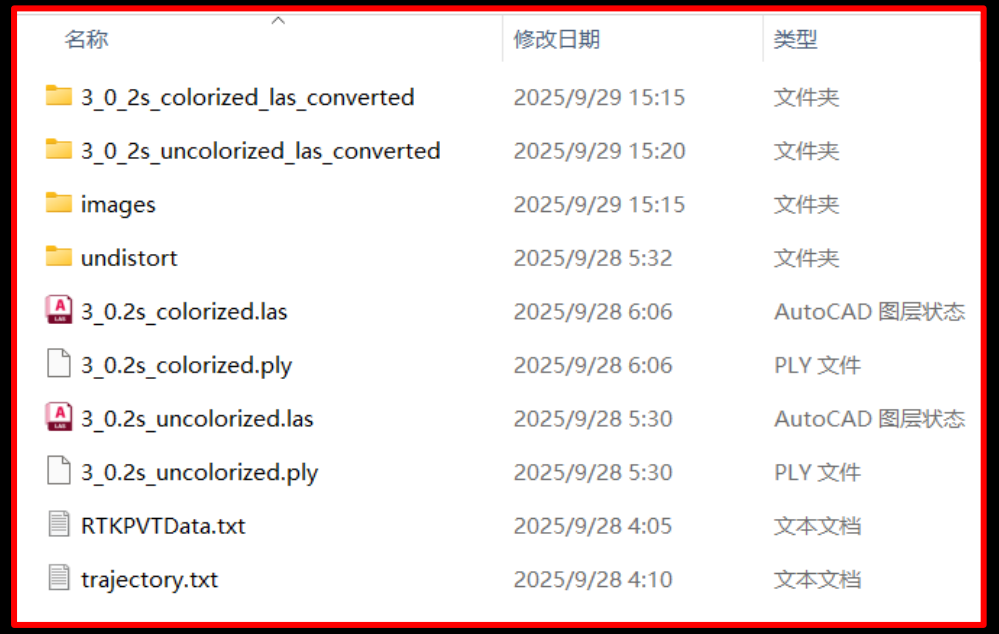


Photo Data

- Supports outputting original photos and distortion-corrected photos;
- Supports outputting photo pose information.



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images	2025/9/29 15:15	文件夹
undistort	2025/9/28 5:32	文件夹
3_0.2s_colorized.las	2025/9/28 6:06	AutoCAD 图层状态
3_0.2s_colorized.ply	2025/9/28 6:06	PLY 文件
3_0.2s_uncolorized.las	2025/9/28 5:30	AutoCAD 图层状态
3_0.2s_uncolorized.ply	2025/9/28 5:30	PLY 文件
RTKPVTData.txt	2025/9/28 4:05	文本文档
trajectory.txt	2025/9/28 4:10	文本文档

Part 03

Lightweight and Precise
Focused on Construction

Streamlined Design, Longer Battery Life

Retain core scanning functionality

Integrated lightweight design:

- The main body weighs approximately 200 grams less, requires no complicated setup, and can be comfortably held in one hand for easy access to tight spaces like stairwells.

180-minute extended battery life:

- Battery life exceeds 3 hours, effortlessly handling large-area/multi-story inspection tasks to ensure seamless, large-scale data collection and provide solid support for project progress.

Real Color Point Cloud of the Project

Global shutter cameras and LiDAR systems

High-precision true-color point clouds

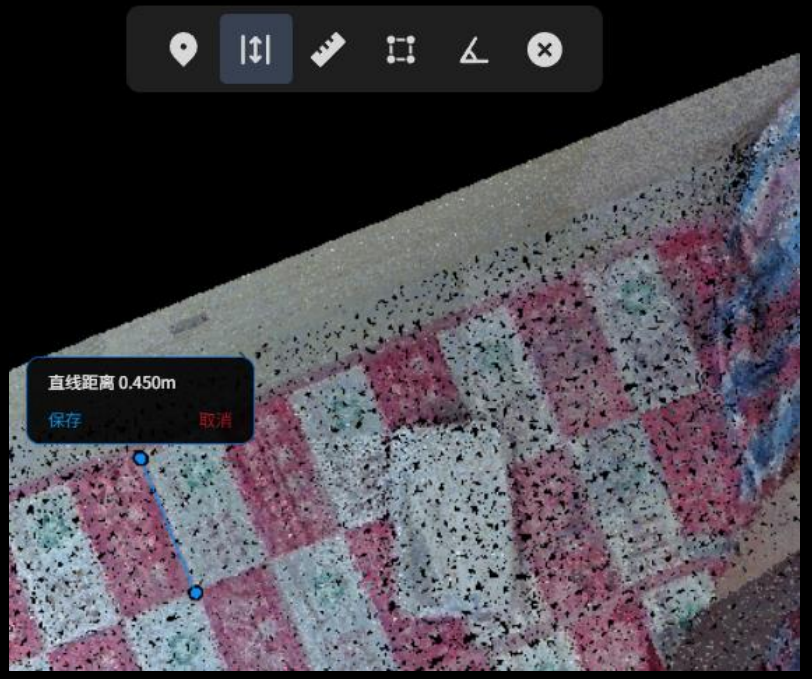
- Construction sites are replicated 1:1 in the digital world, making project progress reports crystal clear at a glance.
- Combining one-touch measurement of distance, area, and other functions, you can verify designs and make quick decisions on-site, elevating project management to a whole new level.
- 1.9mm focal length effortlessly captures narrow spaces and complex structures in architecture, better meeting the demands of indoor construction sites.
- Supports shutter speeds from 1/30s to 1/48000s, offering superior adaptability in challenging lighting conditions.

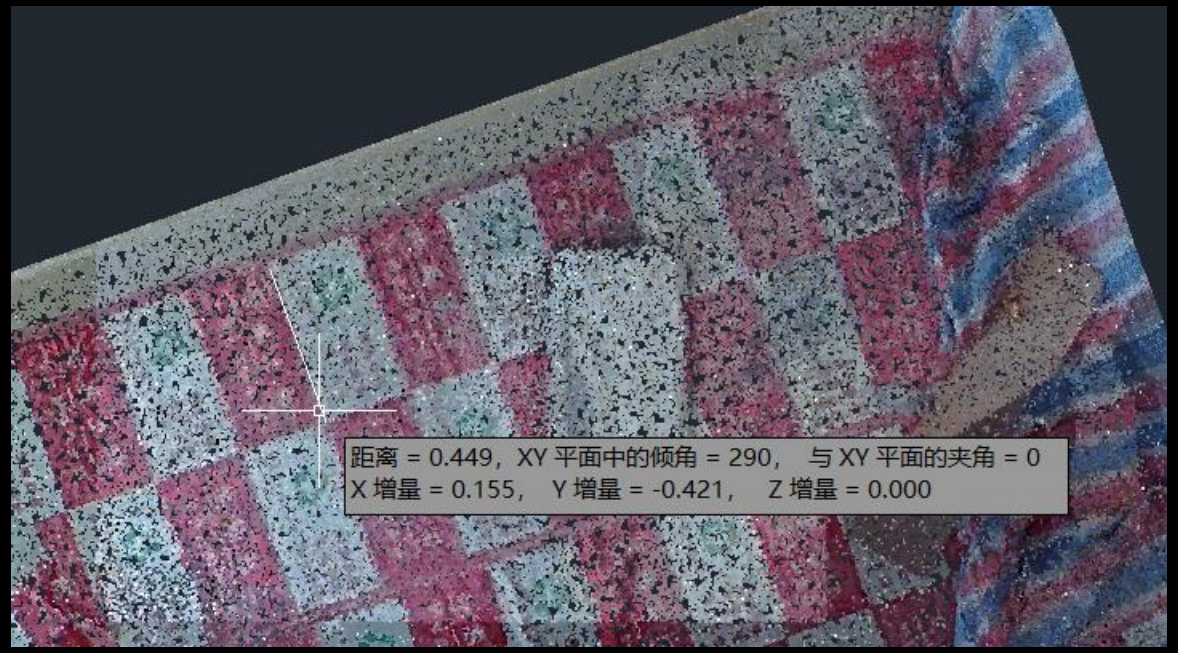
High Precision, Accurate Measurement

Point cloud measurement support

Post-processing point cloud measurement relative accuracy: 1 cm

Point cloud accuracy reaches centimeter-level precision, precisely meeting the application requirements of the AEC industry; It can rapidly generates CAD drawings, providing a comprehensive digital foundation that spans the entire lifecycle of building design, construction, and operations.





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Compatible With 3DGS Data Processing

SHARE

Data compatible with the SHARE 3DGS solver delivers a more realistic digital experience

Compact Photos Short Shooting Intervals

SHARE

Global electronic shutter implementation, Optimal Selection of AEC

Device	SHARE SLAM S20 SE	SHARE SLAM S20 SE RTK	SHARE SLAM S20
Weight	955g	1002g	1079g
Single Battery Working Time	about 180min		about 150min
Effective Pixels	2.3MP×2		16MP×2
Sensor Size	6.96*4.96mm; 1/2.6" inch		13.13 * 8.76 mm; 1 inch
Minimum shooting interval	0.1s		Mechanical Shutter:0.5s Electronic Shutter:0.3s
Focal Length	1.9mm		3.5mm
Shutter Speed Shutter Type	Auto:1/30-1/48000		Mechanical Shutter:auto 1/100-1/2000 Electronic Shutter:auto1/100-1/4000
Shutter Speed Shutter Type	Electronic Shutter		Mechanical Shutter; Electronic Shutter
RTK	/	External	Build-in
RTK Accuracy	/	Horizontal 0.8 cm + 1 ppm； Vertical 1.5 cm + 1 ppm	

Compact Photos Short Shooting Intervals

Global electronic shutter implementation, Optimal Selection of AEC

S20 SE: Lightweight, long battery life, smaller photos, faster storage and transfer, easier post-processing.

S20: High-quality, high-resolution imaging delivers ultimate clarity with more accurate color reproduction.

Device	SHARE SLAM S20 SE	SHARE SLAM S20 SE RTK	SHARE SLAM S20
Image Size	The average photo size is less than 1MB. Photos do not utilize all available pixels. Photos are in landscape orientation. 		The average photo size exceeds 2MB.

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