SHARE 3DCAM

3D LiDAR Scanner

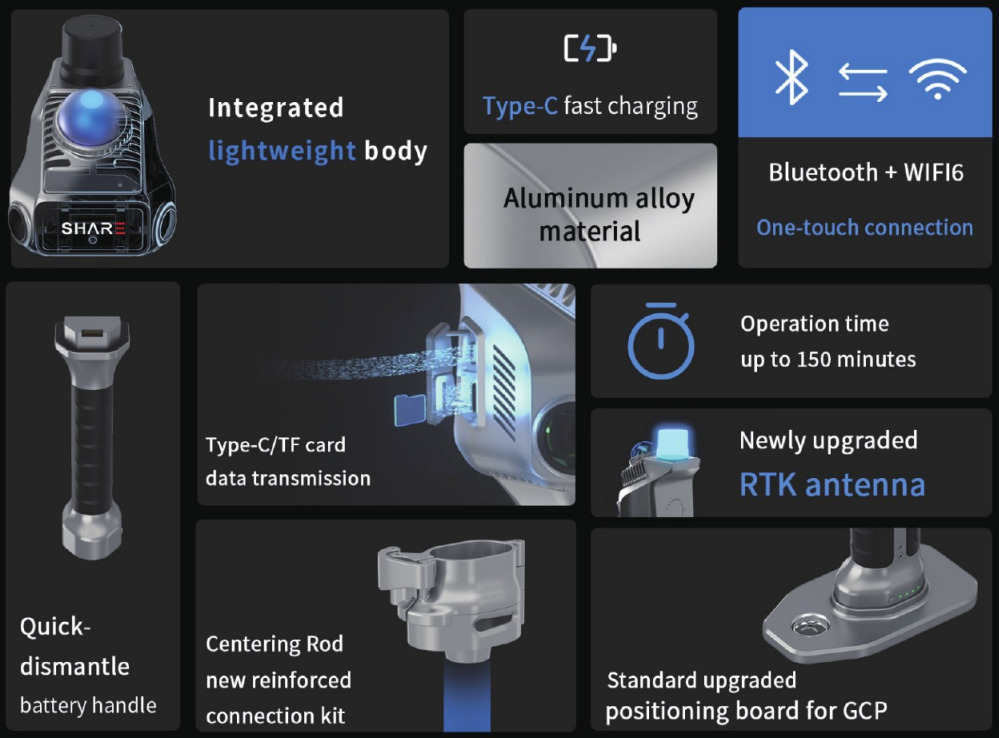
SHARE SLAM S20

Larger Sensor, Mechanical Shutter,
Precision in Point Clouds.



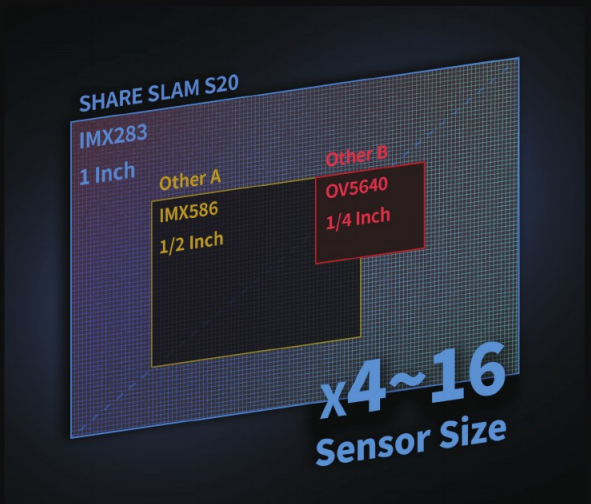
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Detailed Overview



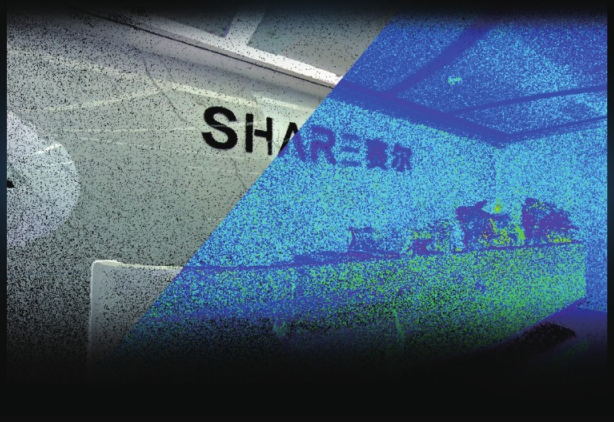
Product Parameters

Dimensions	110.5 * 140 * 313.3 mm
Weight	1079 g
Battery Capacity	45.36 wh (3150 mAh)
Working Time	150 min
Charging Port	TYPE-C; PD 30 W fast charging
Working Temperature	-20 °C ~ +50 °C
Storage Temperature	-20 °C ~ +60 °C
Storage Capacity	256 G (Sopport memory expansion)
WIFI	WIFI6, support 2.4G/5G; 20 m
Interface	TF Card / Type-C
Camera Effective Pixels	16 MP × 2
Camera Sensor	13.13 * 8.76 mm; 1 inch
Shutter Type	Mechanical shutter/Electronic shutter
LiDAR Installation	Tilt 25° to the ground
Point Cloud Number	200,000 point/s
Point Cloud Frequency	10 Hz (Typical Value)
Scanning Range	0.1~40m@ 10% reflectivity; 0.1m~70m@ 80% reflectivity
RTK Configuration	Built-in standard configuration
RTK Acurracy	Horizontal 0.8cm+1ppm; Vertical 1.5cm+1ppm
Point Cloud Thickness	⩽ 1 cm
Processing Method	Real-time calculation/Post-processing
Absolute Accuracy	⩽ 5cm
Relative Accuracy	⩽ 1 cm



One-Inch Large-Format Image Sensor

Equipped with dual one-inch large-format CMOS sensors, featuring 2.4μm pixel size and 16 effective megapixels per lens. This configuration delivers enhanced photo clarity and more accurate and clear point cloud colorization.



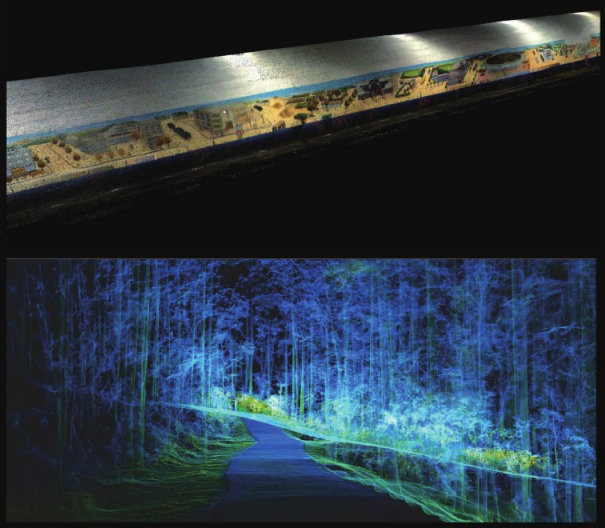
Precise Point Cloud Colorization

Featuring microsecond-level system-wide hardware time synchronization, this results in highly accurate point cloud data. It ensures seamless integration of color and intensity point clouds.



Professional-Grade Mechanical Shutter

The mechanical shutter enables global exposure without jelly effect. This ensures more color point cloud colorization and makes the photos highly suitable for nap-of-the-object photogrammetry modeling.



Powered by SHARE's Proprietary Algorithms

The system delivers robust performance with SHARE's proprietary LiDAR SLAM and Visual SLAM algorithms . This enhances real-time point cloud density and colorization effects, making it adaptable to diverse complex scenarios.



Open Hardware Interfaces

Open hardware interfaces enable cross-platform collaboration. Open SDK supports device communication, data transfer and operational control, ideal for new surveying equipment (e.g.,embodied intelligence systems).



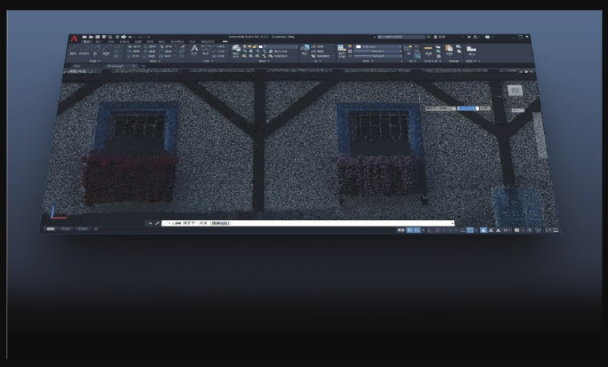
Supports Mesh Model Generation

Raw data is fully accessible to software developers, allowing them to process the data using their own SLAM algorithms. The photos can be used for Mesh models, meeting the data processing needs across various industries.



Photos Support 3DGS Modeling

Benefiting from the one-inch large-format camera and combined with image pose metadata technology, the photos are clear with uniform color. This makes them better suited for 3D Gaussian Splatting model generation.



Optimized for Post-Processing Workflows

Point cloud data integrates seamlessly into BIM/CAD workflows. Leveraging high-accuracy point cloud data enables efficient mapping and modeling.