

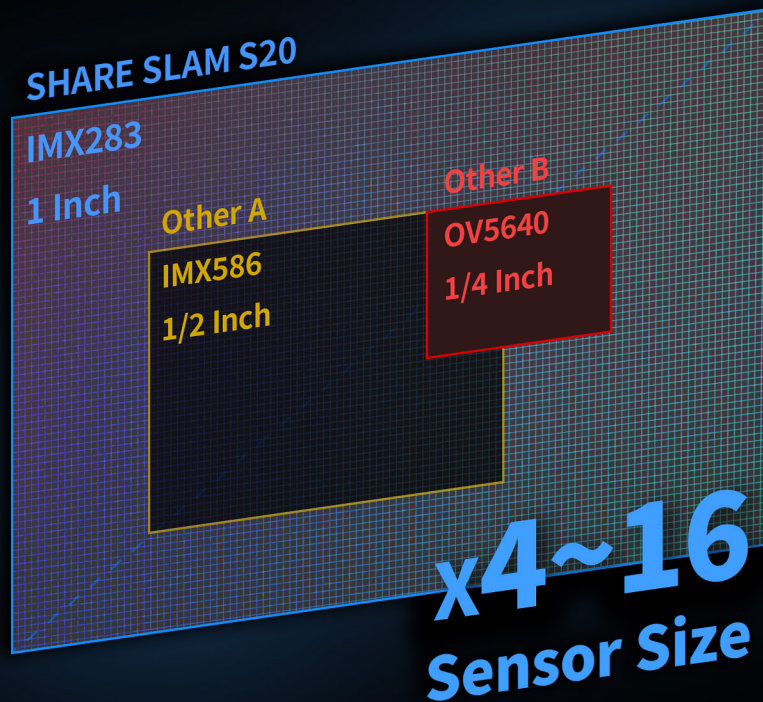
SHARE



3D LiDAR Scanner

SHARE SLAM S20

Larger Sensor, Mechanical Shutter,
Precision in Point Clouds.



One-Inch Large-Format Image Sensor

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



Professional-Grade Mechanical Shutter

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



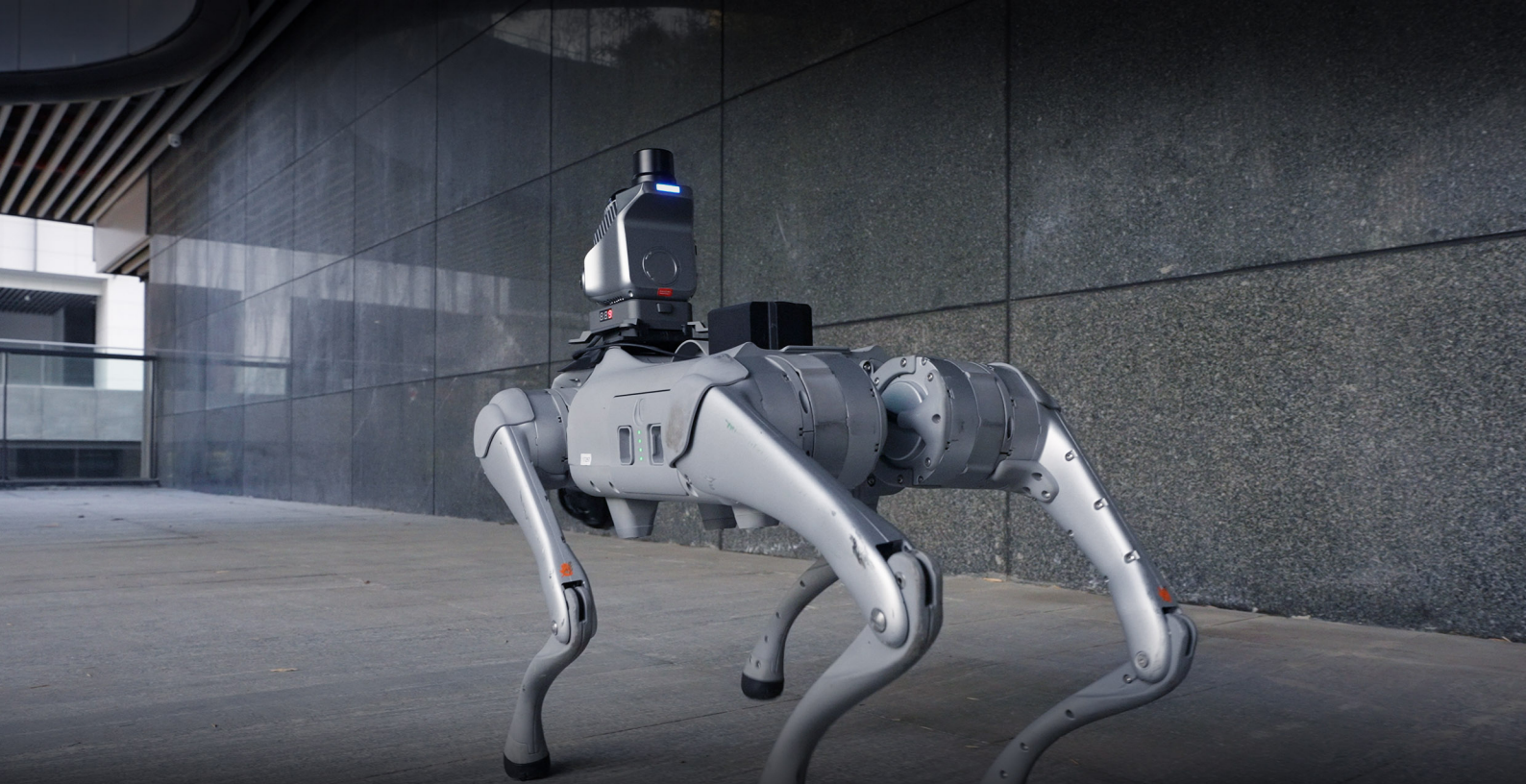
Precise Colorized Point Cloud

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.



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).



Optimized for Post-Processing Workflows

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.



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.

Detailed Overview



Integrated
lightweight body



Type-C fast charging



Bluetooth + WIFI6

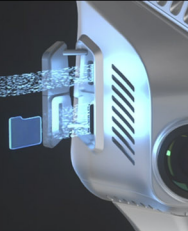
One-touch connection

Aluminum alloy
material



Quick-
dismantle
battery handle

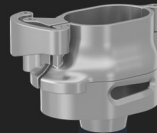
Type-C/TF card
data transmission



Operation time
up to 150 minutes



Newly upgraded
RTK antenna



Centering Rod
new reinforced
connection kit



Standard upgraded
positioning board for GCP

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 (Support 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 Accuracy	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

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