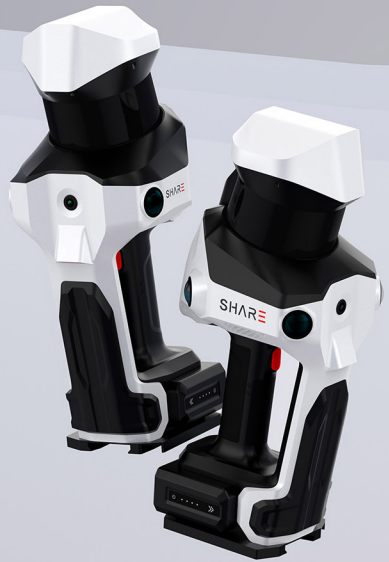
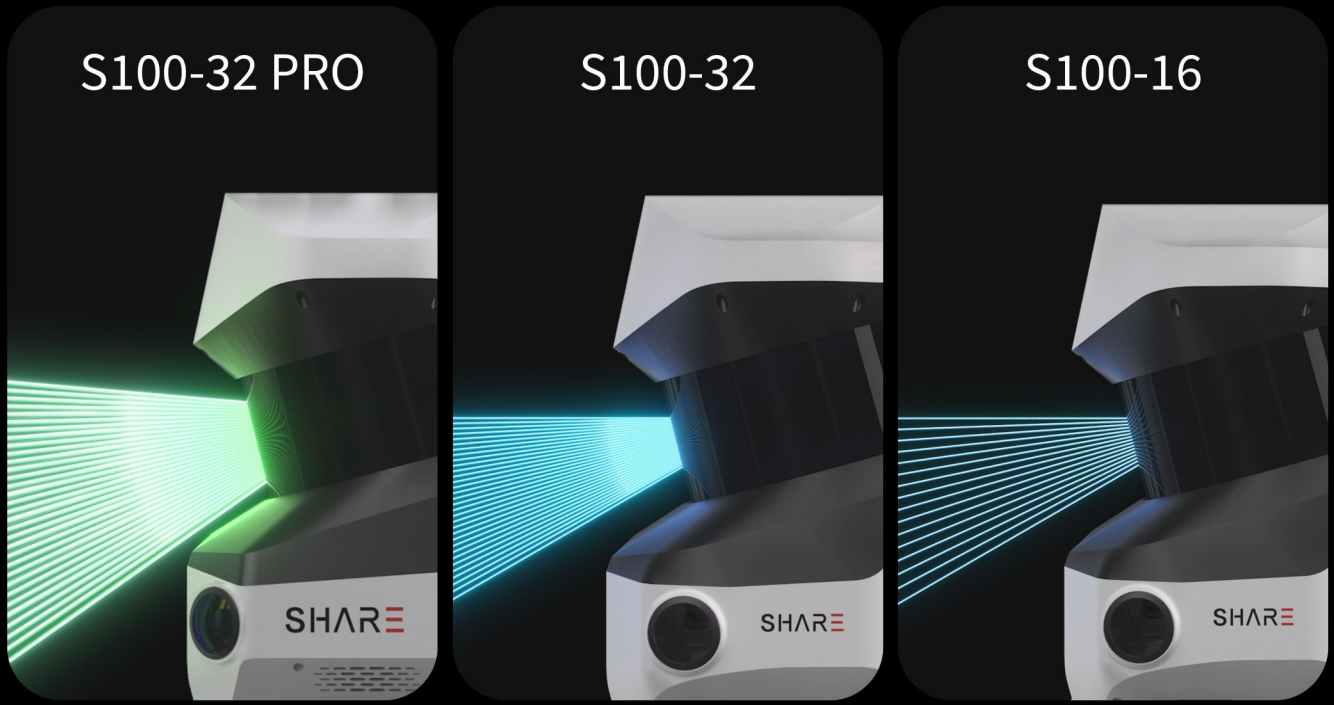


Professional 3D LiDAR Scanner

SHARE SLAM S100 Series

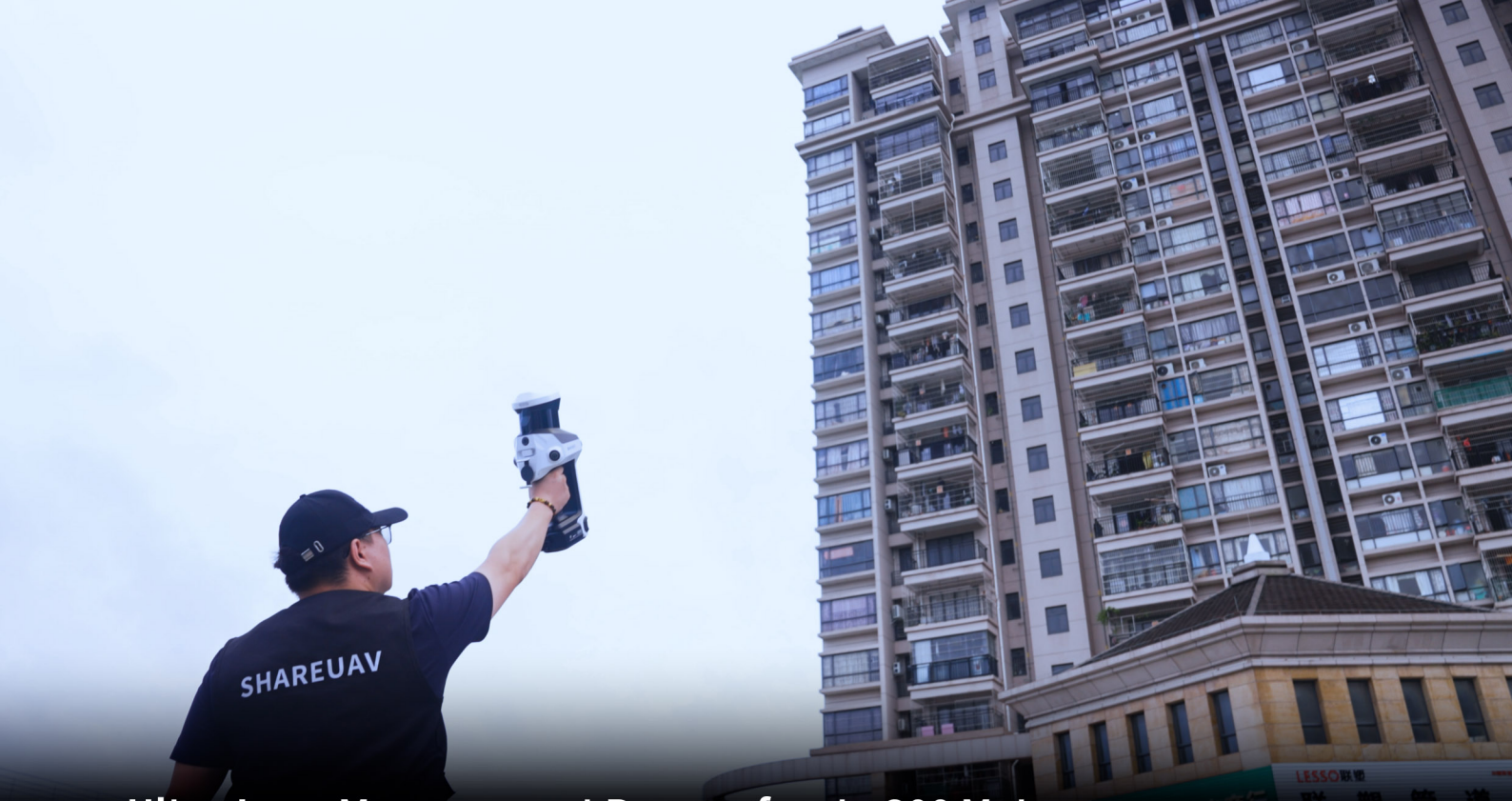
Complex Enviroments, Precise Reconstruction



High-Precision LiDAR

Equipped with a 16-channel or 32-channel mechanical rotating LiDAR, delivering point rates of up to 640,000 points per second①. Powered by SHARE’ s proprietary SLAM algorithms, it generates dense, high-accuracy point-cloud data with thickness under 5mm and relative accuracy better than 1cm.

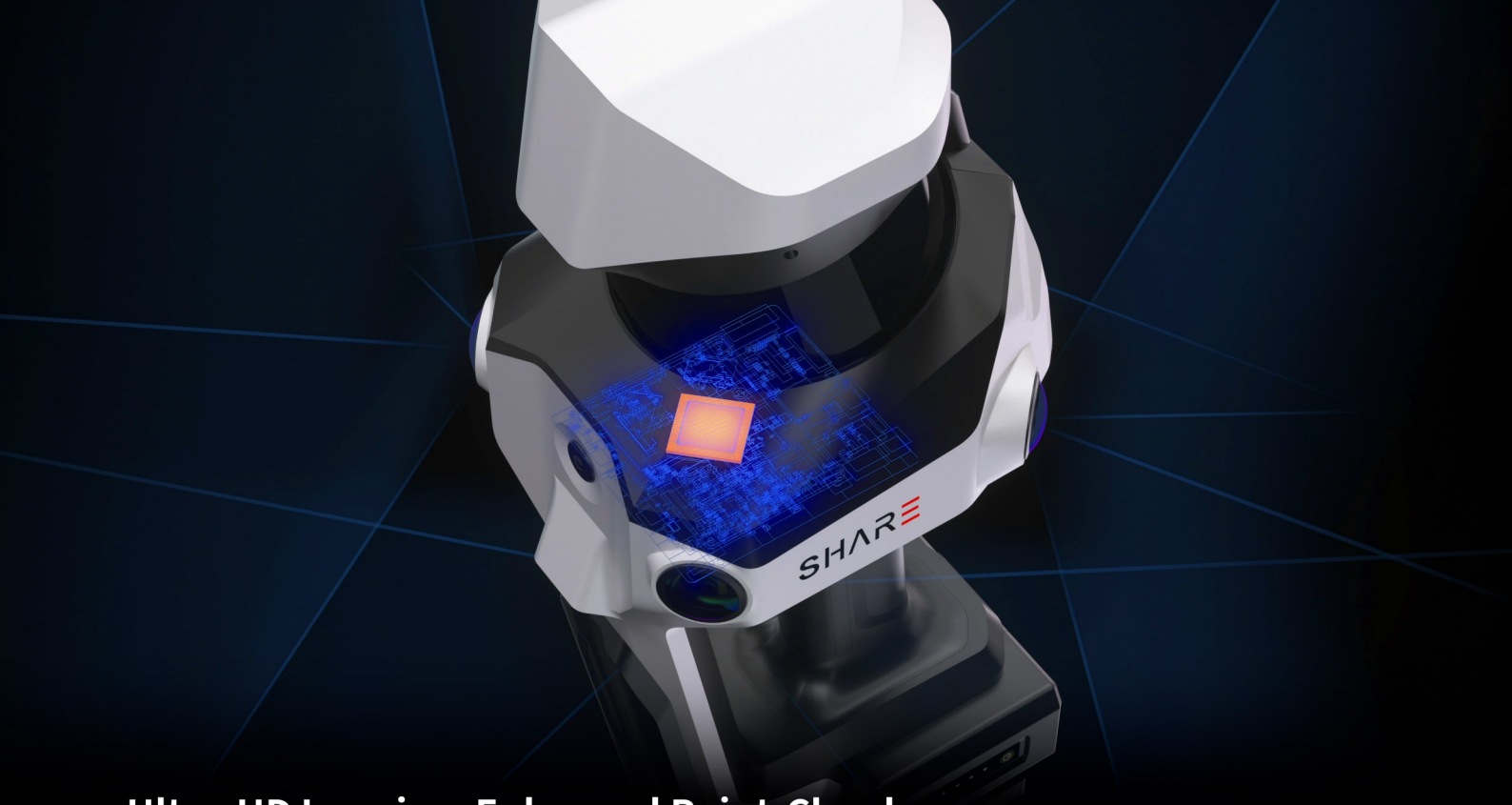
①SHARE SLAM S100-32、SHARE SLAM S100-32 PRO



Ultra-Long Measurement Range of up to 300 Meters

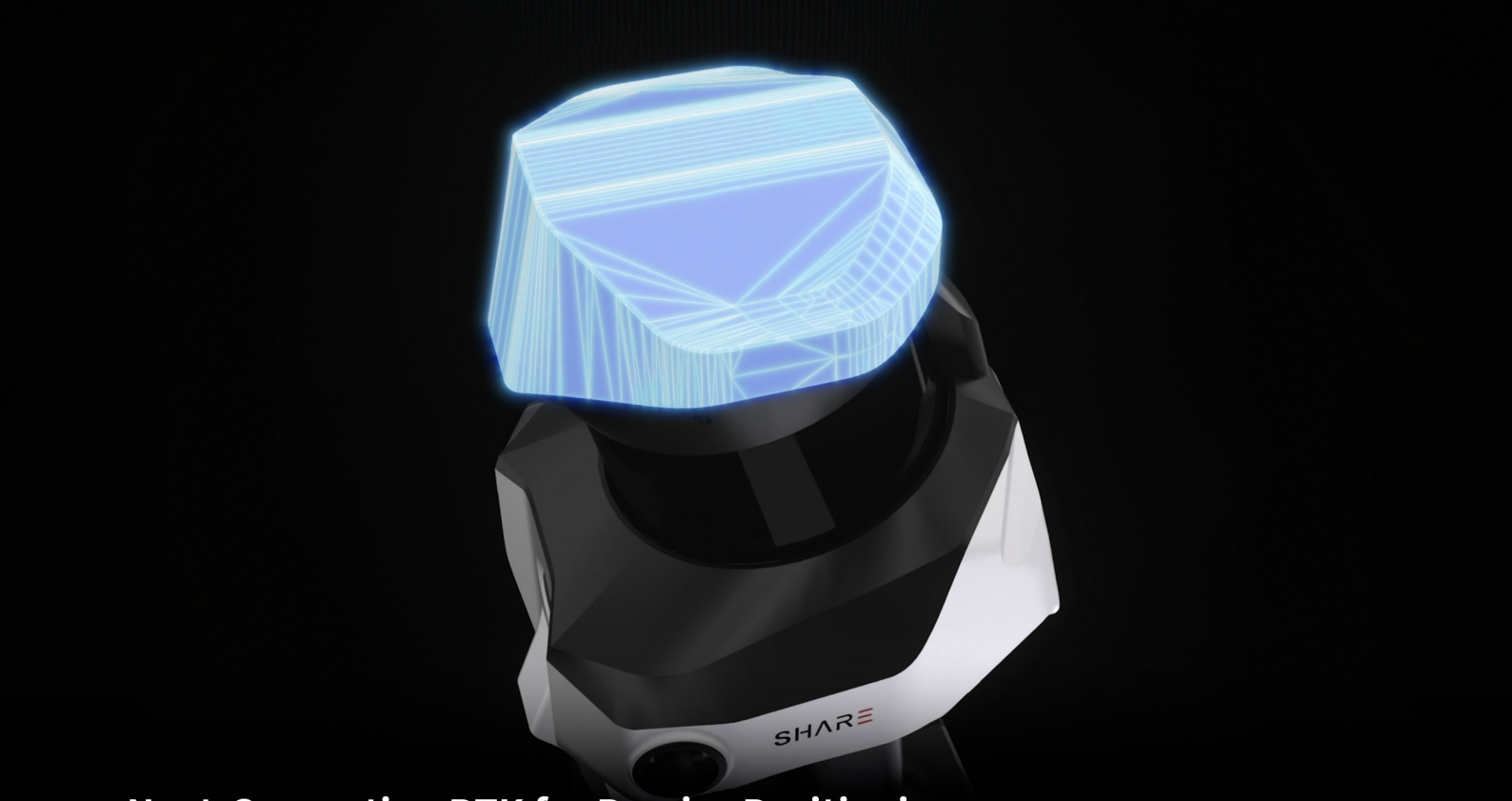
With exceptional long-distance sensing capability, it supports an ultra-long measurement range of up to 300 meters②, delivering detailed point clouds for both nearby details and distant structures, thereby enhancing both scanning efficiency and model quality.

②SHARE SLAM S100-32 PRO



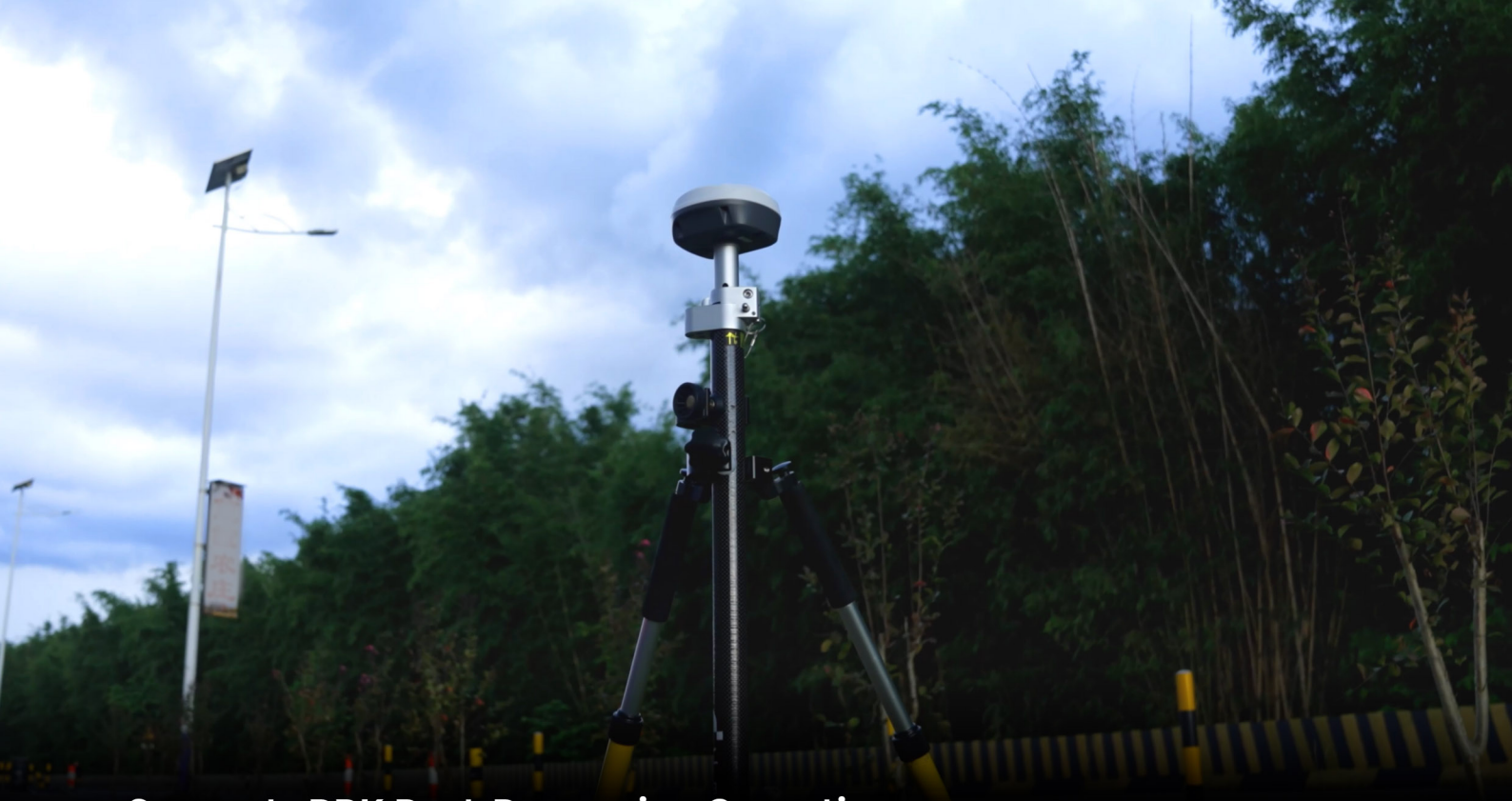
Ultra-HD Imaging, Enhanced Point-Clouds

Featuring a built-in 1-inch mechanical-shutter mapping wide-angle camera, it rapidly captures ultra-high-definition true-color images for precise point cloud colorization. The S100-32PRO further enhances capabilities with four 20-megapixel wide-angle cameras and an independent 5 nm ISP imaging platform, delivering a broader field of view and finer texture details—faithfully reproducing the real world down to the millimeter.



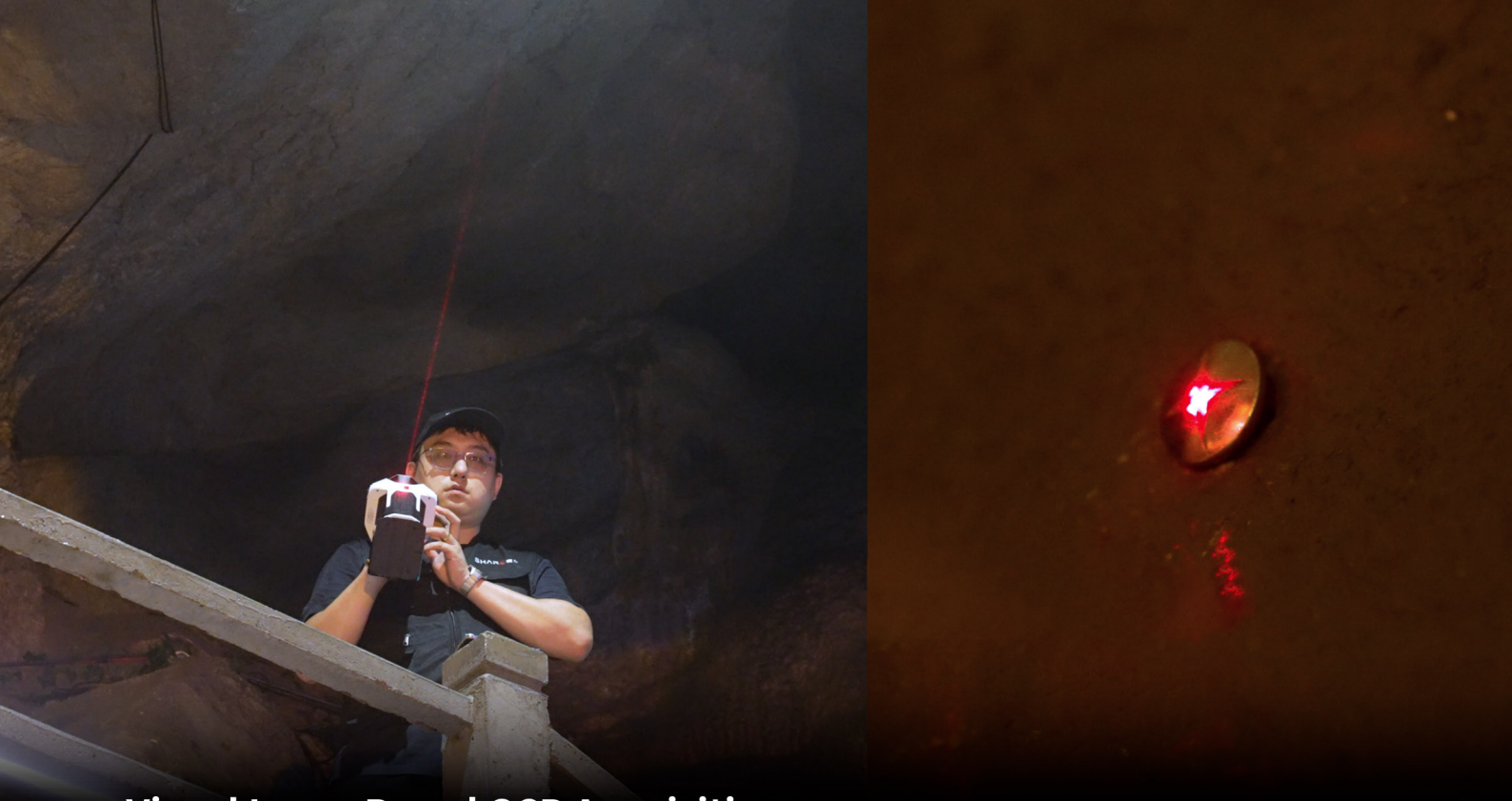
Next-Generation RTK for Precise Positioning

The new RTK module features an integrated professional-grade surveying antenna design, delivering enhanced phase-center stability, superior anti-interference and anti-multipath capabilities, along with improved satellite signal tracking—providing more reliable centimeter-level accuracy.



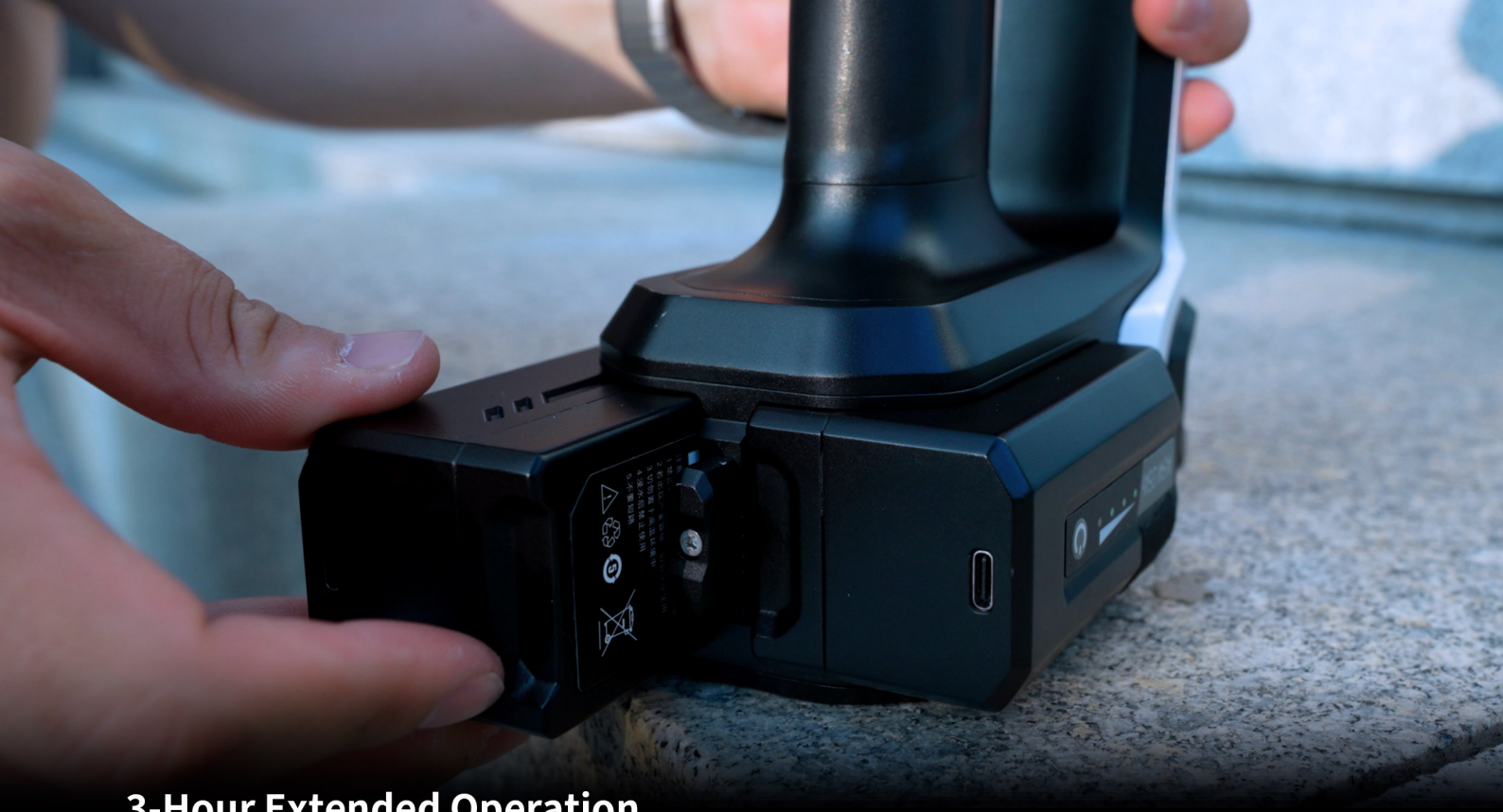
Supports PPK Post-Processing Operations

The device supports PPK post-processing mode, compatible with both self-built base stations and cloud-based PPK. Even in RTK-denied environments such as mountains or deserts, it reliably delivers results with precise geospatial information.



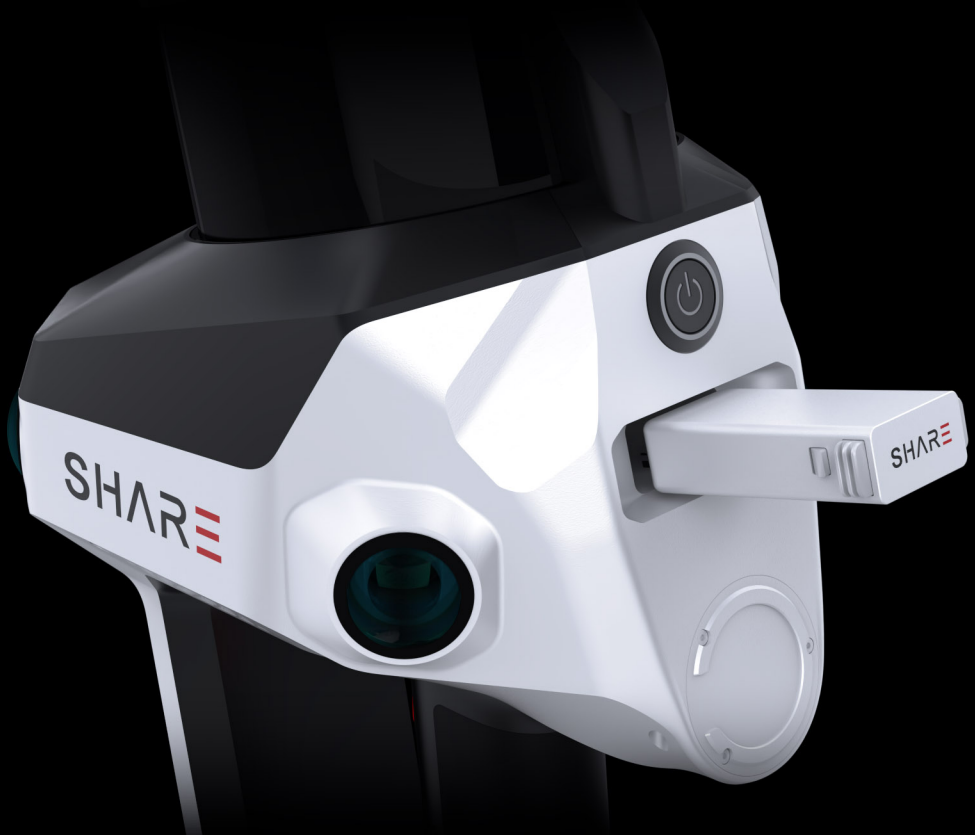
Visual Laser-Based GCP Acquisition

The S100 Series innovatively adopts a visual laser-based Ground Control Point (GCP) acquisition method. Even in challenging, uneven terrains such as mining areas and caves, it enables precise and convenient control point placement.



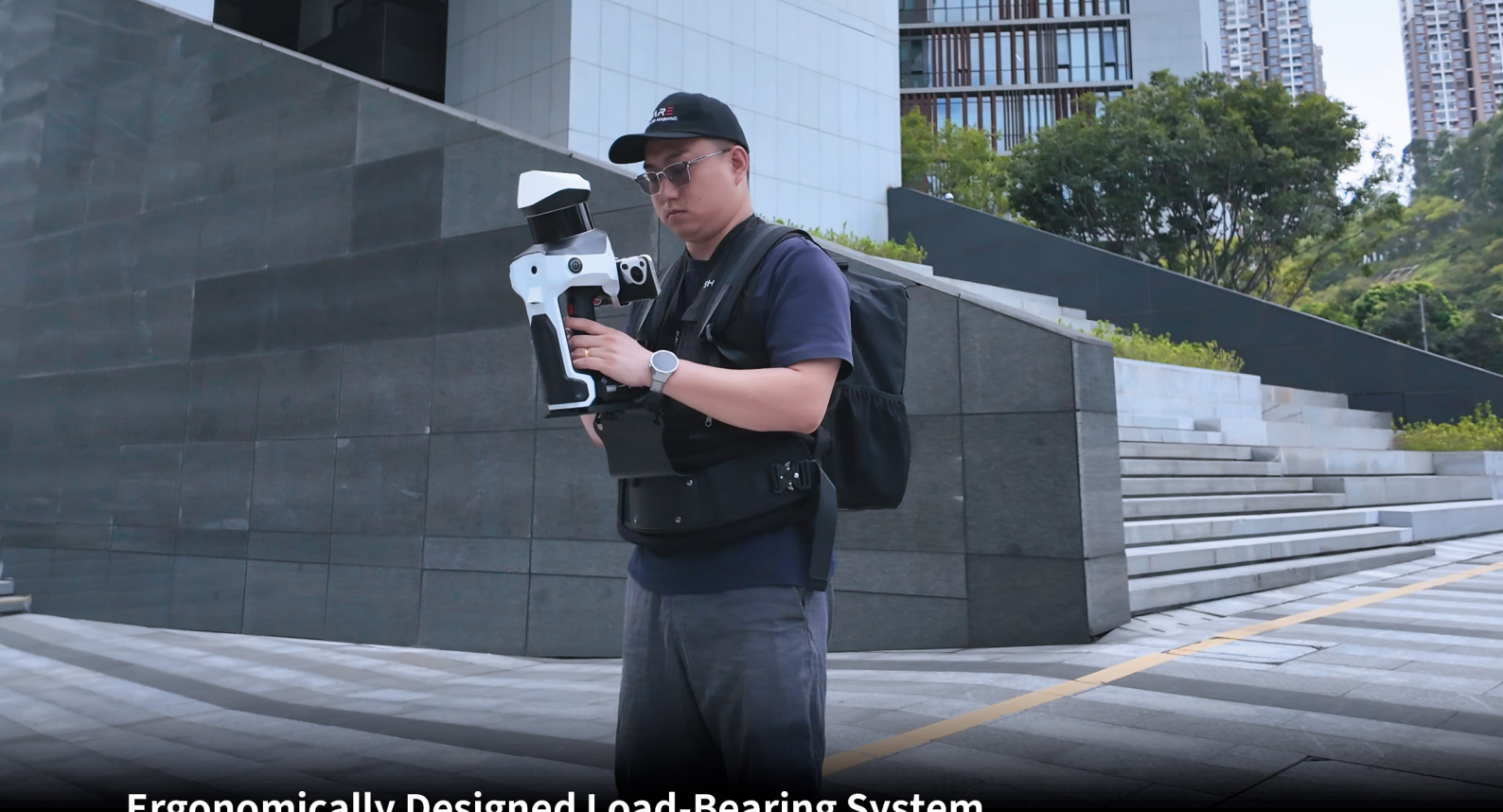
3-Hour Extended Operation

To meet the demands of continuous data capture in large-scale environments, the S100 Series adopts a dual-battery redundant design, delivering up to 3hours of runtime. The batteries support hot-swap functionality, enabling uninterrupted operation.



Massive Data, Effortlessly Managed

Equipped with a standard 1TB high-capacity, high-speed SSD, it meets the storage demands of large-scale operations. With data transfer speeds exceeding 1GB/s, it streamlines post-processing for greater efficiency.



Ergonomically Designed Load-Bearing System

The S100 Series features an ergonomically designed load-bearing system that significantly enhances operational comfort and mobility. It reduces physical strain during long-term operation, making fieldwork more efficient and effortless.

Product	 SHARE SLAM S100-16	 SHARE SLAM S100-32	 SHARE SLAM S100-32 PRO
LiDAR Channel	16	32	32
Point Cloud Number	320,000 points/s	640,000 points/s	640,000 points/s
Scanning Range	0.05 ~ 120 m	0.05 ~ 120 m	0.5 ~ 300 m
Number of Camera	2		4
Sensor Size	1-inch (13.13 × 8.76 mm); Pixel Size: 2.4 μm		
Effective Pixels	16 MP		20 MP
Dimensions	386.8mm*152.7mm*174.4mm		
Weight	2438g		2328g
Wi-Fi	Wi-Fi 6, supports 2.4 GHz / 5 GHz,20m		
Storage Capacity	1TB SSD		
RTK Accuracy	Horizontal: 0.8 cm + 1 ppm; Vertical: 1.5 cm + 1 ppm		
Load-Bearing System	Standard Multi-Functional Ergonomic Load-Bearing System		
Battery Capacity	49.436wh（3400mAh）* 2pcs		
Runtime	Approx. 180 minutes		
Point Cloud Thickness	⩽ 5 mm		
Relative Accuracy	⩽1 cm		
Absolute Accuracy	⩽ 5 cm		