

Mobile SLAM COLOR
3D Laser Scanner



## D8-Augmented Reality · World-Realistic Color · Precision Level (mm)

D8 is a device that can be wearable and vehicle-on which allows to be widely used in various fields, such as cultural relics protection, real 3D, topographic mapping, water conservancy surveys, completion surveys, traffic surveys, mine surveys, facade surveys, underground space mapping, power inspections, and forestry surveys, etc.



Up to 2mm Accuracy



Point Cloud Quality of Stationary Scanner



30km/h Highspeed Scanning



Auto-Modeling 3D of Real Scene Mesh Models

## PARAMETER

Relative Accuracy¹ Up to 2mm (Dyn	amic/Static Scanning)	CORS System/GNSS Receiver	
Absolute Accuracy <sup>2</sup> Horizontal 1.8cm, Vertical 2.5cm		SAOC <sup>6</sup>	
5A Criteria of Surveying and Mappin	g³ √	LIO-PANO <sup>7</sup>	
Repeatability Accuracy <sup>4</sup>	2cm	RTK-SLAM <sup>8</sup>	
Horizontal/Vertical Accuracy Error	0.005°	PPK-SLAM <sup>9</sup>	
Point Cloud Density⁵	250,000 pts/m <sup>2</sup>	LiRF <sup>10</sup>	
Point Cloud Thickness	2mm	3D Mesh Models	
Image Sensor	1inch SONY CMOS*4	3D Thermal Map of Point Cloud Accuracy	
Camera Field of View	360°	Accuracy Report	
Lens	Leica F2.2*4	GCP Inserting Instruction	
Moving Objects Removal	$\sqrt{}$		

MODEL	D8-32	D8-300
Laser Channels	32x2	32x2
Measure Range	120m	300m
Points per Second	1,280,000	1,280,000

1/2/4. Scenes with weak quantity and quality can impact Repeatability Accuracy, Relative Accuracy, and Absolute Accuracy, it's better to acquire the accurate point clouds according to the working methods which are recommended by the manufacturer.

- 3. 5A Criterion of Surveying and Mapping: In the geographial information, anyone, at any time, using any device, following any route, and scanning any scene, can obtain the unique result of point clouds.
- **5. Point Cloud Density:** Products can approach to the maximum density of point clouds.
- 6. SAOC: Self-Adaptive Online Calibration.
- 7. LIO-PANO: Online colorization technology with multi-model fusion of lidar and panoramic camera.
- 8. RTK-SLAM: RTK-SLAM(Real-Time Kinematic), an unique type of Tightly Coupled Complementary Filtering Algorithm.
- 9. PPK-SLAM: PPK-SLAM(Post-Processed Kinematic), an innovative type of Tightly Coupled Complementary Filtering Algorithm.
- 10. LiRF: Lidar Radiance Fields.

