

LiMOBILE

Lightweight Mobile Mapping System



LiMobile is designed to be mounted on SUVs at 45 degrees tilted angle. It can be used to acquire high-quality ground and terrain data on both sides of the road as it is equipped with a high-resolution camera. The integrated vehicle mounting system is highly adaptive to various SUV models. A variety of connection ports are reserved for optional modules, such as panoramic cameras, encoders, horizontal lasers, and many others in order to provide a complete mobile surveying solution.

Modularization

A range of optional modules is available to fit customers' specific needs in various of industries.

Integration

The all-new integrated vehicle mounting system, with pullout design. Highly adaptable to various SUV models.

Sensors

The ability to scan and acquire high-precision 3D point cloud data from vertical (-90° to 90°) and horizontal (360°) within the scanning range.

Lightweight Design

Robust aluminum housing and small PCB boards are adopted to reduce the interior space significantly to compact the size and weight of the system.

Power Supply

Powered by a battery compartment containing a maximum of six easy-carry batteries, it lasts all day without needing a recharge.

Control Method

The real-time running condition and the state of the system can be monitored through wireless and wired control.

Specifications

System Specifications

Dimensions ^[1] (mm)	265*270*230 mm	Battery	5700mAh*6
Weight ^[1] (Excl. Battery)	4.7 kg	Battery Life	~6 h / Battery
Storage Capacity	512 GB SSD	Ports	HDMI, USB, Network
System Control and Data Display	Wireless Mode	Smartphone/Tablet Connect via WIFI, Simultaneous Control and Display	
	Wired Mode	Wire Connection between System and Tablet, Control and Data Transmission	
Processor	4 Cores and 8 Threads		

Sensor Specifications

Laser Sensor	XT32
Range Accuracy	±3 cm
Verticle FOV	-16°~ 15°
Horizontal FOV	0°~360°
Maximum Range	120 m

Camera Specification

Camera	Panoramic Camera
Resolution	8.9 MP
Frame Rate	≥3

GNSS Specifications^[1]

Satellite Tracking	GPS: L1 C/A, L1C, L2C, L2P, L5 GLONASS: L1 C/A, L2C, L2P, L3, L5 BeiDou: B1, B2
Positioning Accuracy	1 cm + 1 ppm
Data Output	
Relative Accuracy	≤3cm ^[2]
Absolute Accuracy	≤15cm ^[2]
Point Cloud Data Format	las, laz, ply, LiData

[1] The camera module and GNSS module are optional, the weight and dimension of the system may vary depending on the choice of modules.

[2] May be affected by environmental and route planning factors.

