MoHAN-D

Mobile Mapping System

REDEFINING MOBILE MAPPING

MoHAN-D delivers cutting-edge mobile mapping technology designed for professionals who demand precision, versatility, and efficiency in spatial data collection.

SCAN ME! »

Inertial Navigation System

INS Model	SBG HORIZON				
IMU Performance	Single Point	RTK	PPK	Land RTK Outage (60 seconds)	PPK Outage (60 seconds)
Roll/Pitch	0.007º	0.007º	0.004º	0.01º	0.005º
Heading (Land)	0.01º	0.01º	0.008º	0.015º	0.01º
Position Horizontal	1m	1cm +0.5ppm	1cm +0.5ppm	0.30m	0.05m

CAMERA

SPHERICAL CAMERA

Camera Model	LADYBUG 6
Full Capture Resolution	12,288 x 6,144 (72 MP)
Maximum Frame Rate	6 FPS
Sensor Type	CMOS
Focal Length	6.94 mm
Trigger Mode	Time / Distance

Applications

Smart City Development
Asset Inventory
Construction Monitoring
Emergency Response Mapping
Urban Digital Twins
Flood Simulation

System Performance

Position Accuracy (2D)	4cm (RMSE)
Position Accuracy (3D)	6cm (RMSE)
Battery Life	10 Hours
Output	Colorized PointCloud, Panorama, Trajectory, Feature Extraction (Tree, Pole, Road Sign, etc.)

LIDAR Sensor

Laser Model	HESAI XT32
Laser Class	1, eye-safe
Wavelength	905nm
Channel	32
Instrument Range	0.05 to 120m
Range Accuracy	± 1 cm (typical)
Range Precision	5 mm (typical, 1σ)
FOV (Horizontal)	360º
FOV (Vertical)	31º (-16º to +15º)
Return Mode	Single/Dual
Data Point Generated	Single Return: 640,000 p/s Dual Return: 1,280,000 p/s

GHOST REMOVAL AND COLOR CORRECTED