

Maverick

Mobile Mapping System



Portable

Weighing under 9 kilograms, Maverick can be both installed and removed by a single individual. Maverick is easily mounted on a variety of platforms, including vehicles, ATVs/UTVs, Segways, trains, and backpacks. The portable system is able to operate in a wide range of conditions and can be utilized for projects of any size and scope. The portable system is able to operate in a wide range of conditions including indoor GNSS-deprived environments and can be utilized for projects of any size and scope.

Powerful

Combining high-resolution 360° imaging, high-definition lidar, and an integrated position and orientation system, the Maverick delivers impressive and accurate mobile data. Maverick collects up to 700,000 data points per second, and captures high-resolution images using six high-quality 5-MP sensors. The Maverick comes packaged with real-time data display and feedback, along with Distillery software to provide imaging, lidar, and GNSS post-processing.

Proven

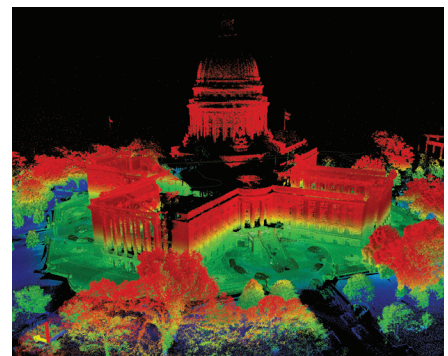
Maverick was developed to fill the need in the industry for a portable and powerful mobile mapping unit. Maverick provides a robust and multi-functional dataset that can be utilized for a wide range of projects and applications. To date, Maverick has collected data in the industries of transportation safety, construction, asset management, rail, utilities, and 3D modeling.



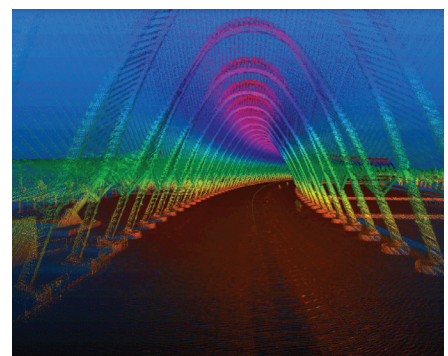
- » Transportation Safety
- » Construction
- » Roadway Assets
- » Railway
- » Utilities
- » 3D Modeling
- » Indoor Mapping



Multiple mount options



Dense urban data capture



Operation in GNSS-deprived areas

Specifications

System			
Operating Temperature	0° to 43°C (32° to 110°F)	Power Supply	12 V - 36 V DC
Dimensions	34.4 cm × 21.6 cm × 36.3 cm (13.60" × 8.50" × 14.28")	Weight	8.85 kg
Mount	Mount bolts to existing roof racks (four 1/4" screws) or quick release installation; specific vehicle mount options available		

Laser Components			
Laser/Detector Pairs	32	Horizontal Field-of-View	360°
Vertical Field-of-View	+10° to -30°	Output	Up to 700,000 points/second
Range Precision	±2 cm (one sigma at 25 m)	Safety	Class 1, eye-safe

Imaging Components			
Type	Ladybug 5	Megapixels	30 MP (5 MP × 6 sensors)
Imaging Sensor	Sony ICX655 CCD × 6, 2/3"	Optics	6 high-quality 4.4-mm focal length lenses
Field-of-View	90% of full sphere	Spherical Distance	Calibrated from 2 m to infinity
Focal Distance	≈200 cm. Objects have an acceptable sharpness from ≈60 cm to infinity		

Integrated Software	
Collection & Viewing	Real-time web-based data display and feedback; moving map display; accessible by any device with a Wi-Fi connection
Distillery	Image, lidar, and GPS post-processing software; flexible data format output that can be imported into third-party cloud and asset management software

Shipping Case			
Type	Durable, custom-designed shipping case	Dimensions	55.9 cm × 45.7 cm × 25.4 cm (22" × 18" × 10")
Shipping Weight	18.14 kg		

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