

Lynx Mobile Mapper™

Summary Specification Sheet

The Lynx Mobile Mapper™ defines the state of the art in mobile mapping technology, generating rich survey-grade lidar and image data from a vehicle at highway speeds.

M1!



The Lynx Mobile Mapper's lidar sensors operate at 500 kHz each while maintaining survey-quality precision. The system control software enables you to select the camera image frame size for highly efficient image capture. The result: extremely dense data in a smaller project deliverable.

Lynx Mobile Mapper



Road



Rail*



Water**



The Lynx Mobile Mapper Advantage

Survey-Grade Accuracy

The Lynx Mobile Mapper delivers project data with the highest accuracies commercially available. The sensor collects data at speeds of up to 500 kHz and scan frequencies of up to 200 Hz.

User-Selectable Scanner Speed

To acquire denser data for a specific project, the operator can select the scanner speed.

Sensor Operating Configuration

The command and control unit (with embedded navigation solution) in the vehicle controls up to two Optech lidar sensors and four optional, calibrated, passive imaging cameras. The operator controls the system via laptop.

Camera Operating Configuration

Each camera is individually addressable, with independently scalable frame sizes and areas. Fully integrated by Optech.

The Technology Difference

The Lynx Mobile Mapper is equipped with the latest in lidar innovation. The onboard lidar sensors incorporate Optech's proprietary iFLEX™ technology for unsurpassed system specifications.

Software

Lynx Survey and Optech LMS are a complete software solution that includes best-in-class survey planning, project execution, inertial/positional processing, lidar post-processing and information extraction.

Vehicle Mounting

The sensor array is an integrated rigid platform that maintains alignment and accuracy between the sensors and the navigation equipment.

Support and Warranty

Optech provides a 1-year system warranty with 24/7 telephone and email support, unique in the industry.

Parameter	V200	M1
Number of lidar sensors	1-2	1-2
Camera support	Up to 2 cameras Individually scalable frame areas	Up to 4 cameras Individually scalable frame areas
Maximum range	200 m, 20%	200 m, 20%
Range precision	8 mm, 1 σ^1	8 mm, 1 σ^1
Absolute accuracy	± 5 cm, (1 σ^1)	± 5 cm, (1 σ^1)
Laser measurement rate	75-200 kHz programmable	75-500 kHz programmable
Measurement per laser pulse	Up to 4 simultaneous	Up to 4 simultaneous
Scan frequency	80-200 Hz programmable	80-200 Hz programmable
Scanner field of view	360° without obscurations	360° without obscurations
Power requirements	12 VDC, 30 A max. draw	12 VDC, 30 A max. draw
Operating temperature	-10°C to +40°C (extended range available)	-10°C to +40°C (extended range available)
Storage temperature	-40°C to +60°C	-40°C to +60°C
Relative humidity	0 - 95% non-condensing	0 - 95% non-condensing
Laser classification	IEC/CDRH Class 1 eye-safe	IEC/CDRH Class 1 eye-safe
Vehicle	Fully adaptable to any vehicle	Fully adaptable to any vehicle

¹ Under test conditions. Contact Optech for details.

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