

Lynx Mobile Mapper™

Summary Specification Sheet



WELCOME TO THE
REVOLUTION



Supported by decades of advanced lidar development and a service infrastructure that protects your investment, the Lynx Mobile Mapper is the definitive answer to your large-area engineering and survey work.



 Road



 Rail



 Water



The Lynx Mobile Mapper Advantage

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.

Operational Configuration

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

Vehicle Mounting

The sensor array is an integrated, rigidly mounted platform that can be used with standard vehicle roof racks or custom installation. The standard mounting apparatus has adjustable orientation mounts for two lidar sensors, two cameras, and the IMU and GPS antennas. The rigid mount structure maintains alignment and accuracy between the sensors and the navigation equipment.

Software

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

Power

The Lynx Mobile Mapper is powered directly from the vehicle battery/alternator system. No auxiliary power unit is required.

Eye Safety

The Lynx Mobile Mapper is eye-safe under all operating conditions (IEC/CDRH Class 1). The laser beam is invisible to the naked eye.

Support and Warranty

Optech provides a 1-year system warranty with 24/7 telephone and email support.

Lynx Mobile Mapper	V100	V200
Parameter		
Number of lidar sensors	1-2	1-2
Camera support	Yes, 2 x 2 Mpixel	Yes, 2 x 2 Mpixel
Maximum range	100 m, 20%	100 m, 20%
Range precision	±8 mm, 1 σ	±8 mm, 1 σ
Absolute accuracy	±5 cm, (1 σ) ^{1,2}	±5 cm, (1 σ) ^{1,2}
Laser measurement rate	100 kHz	200 kHz programmable
Measurement per laser pulse	Up to 4 simultaneous	Up to 4 simultaneous
Scan frequency	150 Hz	200 kHz 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) ³	-10°C to +40°C (extended range available) ³
Storage temperature	-40°C to + 80°C	-40°C to + 80°C
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 Assumes good GPS quality.

2 Accuracy may be improved via post-processing techniques.

3 Without cameras.

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