

Trimble MX60

MOBILE MAPPING SYSTEM

Powerful mobile scanning and
imaging for asset management.



Each project is a journey. Enjoy the ride.

Intuitive

Easy installation of trusted, field proven Trimble® mobile mapping hardware. Connect and get collecting quickly, with familiar single cable connections.

Navigate with ease with Trimble Mobile Imaging field software, allowing anyone to take the driver's seat and capture precise point clouds with immersive imagery for scalable asset management, mapping and maintenance.

Powerful

Leverage the power of improved industry-leading Trimble LiDAR and positioning technology.

Capture high resolution 360 panoramic imagery and extract road details with the new dedicated backdown camera.

Powerful Trimble office software facilitates exporting and sharing deliverables with seamless integration into various applications and cloud-based solutions.

Efficient

Cover large areas with varied terrain without the need for multiple setups, road closures or permits and maximize the value of rich data for your organization.

Streamline your data collection and deliver high quality results effortlessly, with a safer alternative that outpaces traditional methods.



Find out more at:
geospatial.trimble.com/mx60

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SCANNING

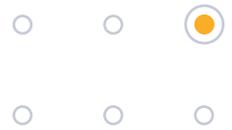
Number of lasers	2
Laser class	1, eye safe
Scan speed	240, 400 selectable
Effective measurement rate ¹	500 kHz, 1000 kHz selectable
Maximum range, target reflectivity > 80% ²	150 m @ 500 kHz and 120 m @ 1000 kHz
Minimum range	0.6 m
Accuracy ³ /Precision ⁴	2 mm, 2.5 mm @ 30 m
Field of view ⁵	Full 360°

CAMERAS

Type	Spherical	Rear / Down facing
Resolution	Pro and Premium: 72 MP Core: 30 MP	12 MP
Mounting	Fixed	Fixed
Focal Length	Pro and Premium: 6.94 mm Core: 4.44 mm	8.0 mm
Capture mode	By distance or by time at 10 fps max	By distance or by time at 9 fps max
Field of view	90% of full sphere	H: 82.0° V: 65.9°

POSITIONING

No GNSS outage	Core / Pro	Premium
X, Y, Z position ⁶	X, Y: <0.01 m Z: 0.01 m	X, Y: <0.01 m Z: 0.01 m
Roll and pitch	0.005°	0.0025°
Heading ⁷	0.015°	0.010°
60 second GNSS outage		
X, Y, Z position ⁶	X, Y: 0.12 m Z: 0.1 m	X, Y: 0.1 m Z: 0.07 m
Roll and pitch	0.005°	0.0025°
Heading ⁷	0.015°	0.015°



SYSTEM COMPONENTS

Sensor unit

Dimensions (Core)	L 0.54 m x W 0.55 m x H 0.58 m
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Dimensions (Pro/Premium)	L 0.57 m x W 0.55 m x H 0.60 m
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Weight (Core)	24 kg
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Weight (Pro)	26 kg
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Weight (Premium)	28 kg
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Control unit

Dimensions	L 0.46 m x W 0.26 m x H 0.41 m
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Cable CU to SU	5 m
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Weight	12.4 kg. Without top cover: 10.2 kg
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Data storage	2 x 4 TB
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Power unit

Dimensions	L 0.41 m x W 0.27 m x H 0.12 m
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Cable Battery to PU	5 m
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Cable PU to CU	3 m
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Weight	9 kg
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Roof rack

Dimensions	L 1.13 m x W 0.60 m x H 0.31 m
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Weight	18 kg
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ENVIRONMENTAL AND ELECTRICAL DATA

Max speed	110 km/h (68 mph)
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Operating temperature ⁸	0 °C to 40 °C (32 °F to 104 °F)
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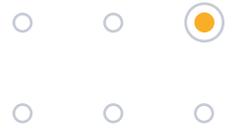
Storage temperature ⁹	-20 °C to +50 °C (-4 °F to +122 °F)
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Storage humidity	20% to 95%
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Operating humidity	20% to 80%
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ENVIRONMENTAL AND ELECTRICAL DATA (CONT.)

Shock and vibration	ISO 16750-3, Third edition 2012-12-15
Input voltage	12 V-DC (12 V-16 V)
Max	320 W
Typical (Core/Pro)	160 W
Typical (Premium)	170 W

ADDITIONAL ACCESSORIES

GAMS	GNSS Azimuth Measurement System (GAMS) adds an additional GNSS antenna, making it faster to initialize the navigation system and eliminate any special driving maneuvers for initialization.
DMI	The DMI (Distance Measuring Indicator) is a mechanical wheel odometer that can improve the measurement accuracy in challenging GNSS conditions, or areas with heavy stop and go traffic.
Add on warranties:	Single and multi-year warranty options available, covering hardware, software and support.

SOFTWARE

Trimble Mobile Imaging	Trimble Mobile Imaging field software lets you control your mobile mapping system on the field, from a web browser, providing real-time access to collection data, live camera feeds, LiDAR and trajectory information. Both powerful and intuitive, you can ensure optimal performance directly from the field, making your surveying tasks more efficient and responsive.
Trimble Business Center	With Trimble Business Center (TBC) mobile mapping office software, combine raw field positions, point cloud scans and multiple camera positions into the highest quality, most actionable information—in a single software.
Trimble MX	Trimble MX software simplifies the sharing of mobile mapping results with project stakeholders. Organize, extract and collaborate on mobile mapping data and utilize plug-ins for streamlined access to mobile mapping data in many popular GIS and CAD environments.

- 1 Rounded values.
- 2 On matte surface with normal angle of incidence.
- 3 Accuracy is the degree of conformity of a measured quantity to its actual (true) value.
- 4 Precision is the degree to which further measurements show the same results.
- 5 Dual head system provides a full 360° field of view. Each laser covers 346°.
- 6 Measured in a controlled test area under Trimble conditions and procedures.
- 7 With GAMS, 2 m baseline.
- 8 Not exposed to direct sun without driving > 10 km/h (6 mph).

Specifications subject to change without notice.



Contact your local Trimble Authorized Distribution Partner for more information

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