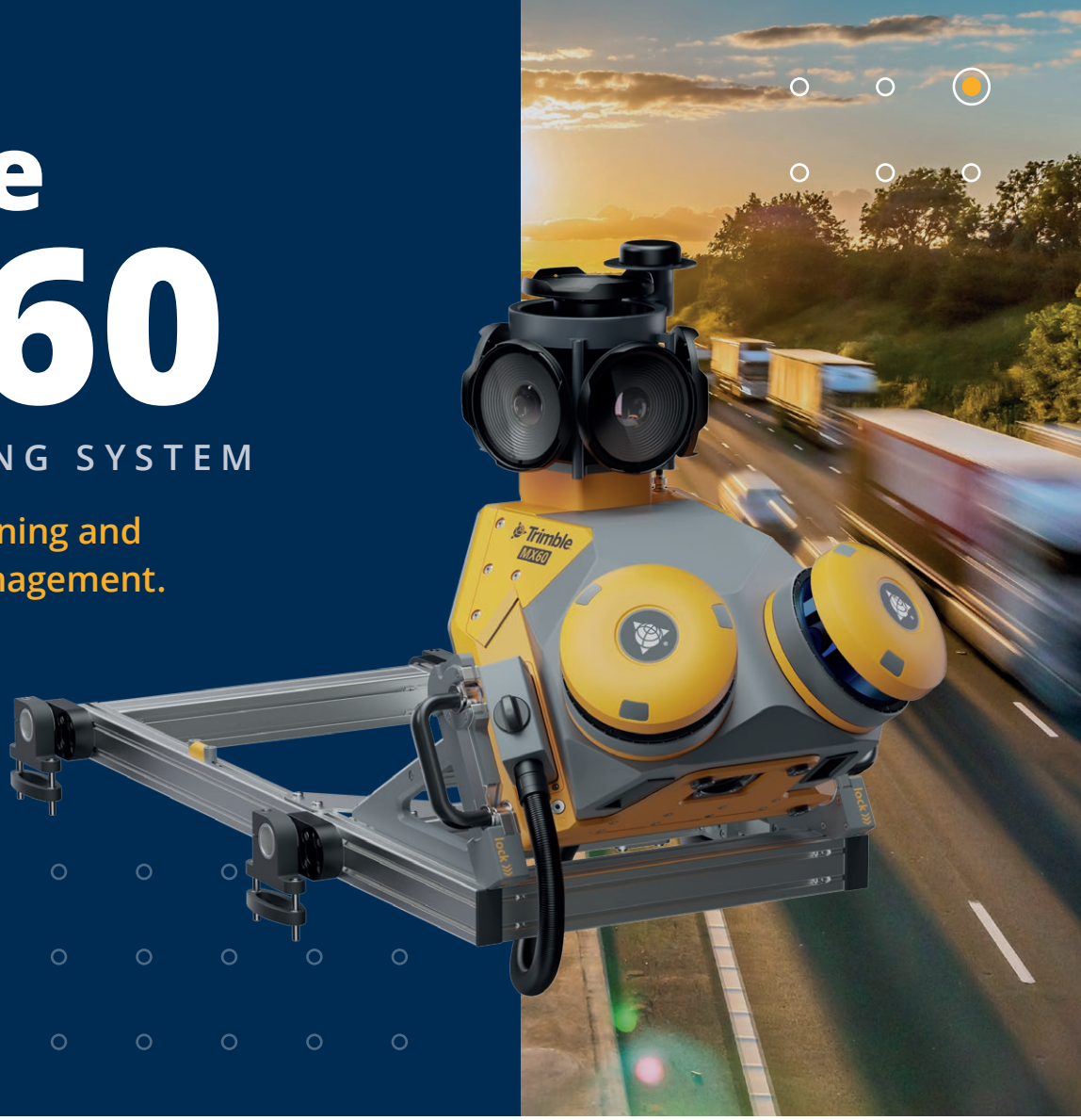
Trimble MX60

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.

Trimble®

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

SPEC SHEET

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Mobile mapping system

The Trimble MX60 mobile mapping system is offered in 3 configurations—**Core**, **Pro** and **Premium.**

SCANNING

Number of lasers	2	**Maximum range, target reflectivity > 80%[2]**	150 m @ 1000 kHz and 120 m @ 2000 kHz
Laser class	1, eye safe	**Minimum range**	0.6 m
Scan speed	240, 400 selectable	**Accuracy[3]/Precision[4]**	2 mm, 2.5 mm @ 30 m
Effective measurement rate[1]	1000 kHz, 2000 kHz selectable	**Field of view**	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[5]	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[6]	0.015°	0.010°
60 second GNSS outage	**Core / Pro**	**Premium**
X, Y, Z position[5]	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[6]	0.015°	0.015°

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SYSTEM COMPONENTS

Sensor unit		Control unit	
Dimensions (Core)	L 0.54 m × W 0.55 m × H 0.58 m	**Dimensions**	L 0.46 m × W 0.26 m × H 0.41 m
Dimensions (Pro/Premium)	L 0.57 m × W 0.55 m × H 0.60 m	**Weight**	12.4 kg
Weight (Core)	24 kg	**Weight without cover**	10.2 kg
Weight (Pro)	26 kg	**Data storage**	2 × 4 TB removable SSD
Weight (Premium)	28 kg		

Power unit		Roof rack	
Dimensions	L 0.41 m × W 0.27 m × H 0.12 m	**Dimensions**	L 1.13 m × W 0.60 m × H 0.31 m
Weight	9 kg	**Weight**	18 kg

ENVIRONMENTAL AND ELECTRICAL DATA

Max speed	110 km/h (68 mph)
Operating temperature	-10 °C to +40 °C (14 °F to 104 °F)
Storage temperature	-20 °C to +50 °C (-4 °F to +122 °F)
Storage humidity	20% to 95%
Operating humidity	20% to 80%
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

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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 in the field, from a web browser, providing real-time access to collection data, live camera feeds, LiDAR and trajectory information.
Trimble Business Center	With the Trimble Business Center (TBC) mobile mapping module, you can conduct trajectory processing, point cloud registration and colorization as well as being able to classify and export features—all in a single software.
Trimble MX	Trimble MX Publisher 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 Measured in a controlled test area under Trimble conditions and procedures.
6 With GAMS, 2 m baseline.

Specifications subject to change without notice.

Contact your local Trimble Authorized Distribution Partner for more information

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