Trimble Mobile Mapping Solutions

A mobile mapping solution for every challenge

Engineered to help you tackle even the biggest challenges, Trimble's mobile mapping portfolio is purpose-built to make mass data capture simple and efficient so you can focus on what matters most; managing, mapping, and maintaining your assets. With a connected suite of hardware, field software and office software, Trimble® Mobile Mapping offers a complete solution empowering you to effortlessly capture massive datasets and seamlessly produce powerful deliverables at scale.

Whether you're mapping urban environments to drive more effective land use planning, looking to streamline asset management at scale, or wanting to better identify critical areas for infrastructure maintenance, Trimble's mobile mapping solutions are there to support you all the way.

Find out more at:
geospatial.trimble.com

®-**Trimble**®

Roads

As the global population grows and the demand for transportation increases, road construction and inspection are essential for developing and maintaining critical infrastructure.

- Capture existing conditions safely and efficiently at scale, ensuring standardised and consistent data collection

- Easily inspect road conditions and identify cracks or anomalies that might impact safety and comfort on the road

- Identify and manage various key assets along the roadway such as signs, markers, utilities, and more.

Cities & urban area asset management

Effective urban planning and management starts with reliable data. With so much ground to cover, Trimble's mobile mapping solutions help you confidently capture data with ease, producing high quality deliverables in a flash.

- Improve urban mobility by analysing traffic patterns and optimizing transportation routes

- Plan routes for emergency vehicles using accurate and up-to-date mapping data

- Regularly assess the condition of existing assets and infrastructure to identify maintenance needs

- Aid in the design of new infrastructure projects such as roads, bridges and public transit systems.

Rail

Mobile mapping helps to map and maintain vast rail networks ensuring that existing lines remain safely in operation and new development doesn't fall off the tracks.

- Inspect rail switches and crossings for wear and tear over time

- Monitor track condition, wheel profiles, signals and communication systems

- Carry out detailed analyses of track side assets without closing down the infrastructure

- Ensure precise alignment and geometry of railway tracks, helping to maintain safe and smooth operation

- Ensure sufficient clearance around tracks, tunnels, and bridges to prevent collisions and maintain safe operations.

Mining

Mines are massive, complex operations where every second counts. Mobile mapping solutions help capture intricate details at scale to help drive mining operations forward in a safe, efficient manner.

- Effortlessly capture stockpiles, compute volumes and track change over time to drive operations and the delivery of unearthed materials

- Capture the ever-changing conditions of the mine for critical site-logistics and planning. Inspect reality against design to analyse cut and fill requirements for high walls and haul roads

- Monitor and detect changes of slopes and preserve safe working conditions.

Utilities & fiber to the home

Growing communities and evolving cities are requiring utility providers to expand their services to match rising demand. Mobile mapping technology enables you to efficiently manage and complete the extensive work required across large areas.

- Maintain accurate inventories of assets and equipment, facilitating efficient management and maintenance

- Conduct regular inspections of infrastructure such as power lines, transformers, and substations to ensure they are in good condition

- Support the planning and installation of new utility lines and infrastructure with accurate topographical data and 3D models

- Aid in upgrading and expanding existing utility networks by providing precise spatial data for integration and alignment.

Tunnels

Tunnel construction is rapidly growing, requiring precise data capture, design and inspection. Mobile mapping solutions enhance safety by reducing time in hazardous environments and providing valuable insights in the office.

- Capture and manage utilities within tunnels, such as lighting, ventilation, and communication systems, using precise mapping data

- Regularly monitor the structural health of tunnels, identifying cracks, shifts, and other potential issues

- Conduct detailed condition assessments to prioritise maintenance activities and ensure safety.

Take control of the way you work

Trimble MX90

For large-scale scanning and mapping missions

Capture fine details with 360° panoramic cameras and high-resolution imagery. Generate dense colourised point clouds for street scenes and 3D models. The MX90 ensures superior data quality in tough GNSS environments with high-end IMU, IN-Fusion™ + technology, and the Trimble ProPoint® engine.

Trimble MX60

Powerful mobile scanning and imaging for asset management

Trimble MX60 Core

The Trimble MX60 Core is an approachable solution, focused on ease of use, setup, and data collection. It is the perfect starting point to begin your journey in mobile mapping. Utilise industry-leading Trimble LiDAR technology to rapidly capture more data, integrating high-quality 360° panoramic imagery with precise point clouds.

Trimble MX60 Pro

Experience exceptional precision and efficiency with the MX60 Pro equipped with a camera system, designed to excel in road infrastructure, visualisation, and crack detection. The advanced rear camera boosts productivity for road inspection applications, enabling automatic crack detection from imagery.

Trimble MX60 Premium

The Trimble MX60 Premium offers enhanced positioning through high-end Applanix® IMU integration. Capture high-quality, accurate data with confidence, ensuring reliable results back at the office. Utilise powerful office software to seamlessly process, extract, and share critical insights and deliverables with your clients.

Find the right solution for you

		Scan Speed	Total Megapixels	Range	Weight
MX90		**500** scans/sec	**108** MP	Up to **475** m	**37** kg
MX60	**PREMIUM**	**240, 400** scans/sec selectable	**84** MP	Up to **150** m	**28** kg
	PRO	**240, 400** scans/sec selectable	**84** MP	Up to **150** m	**26** kg
	CORE	**240, 400** scans/sec selectable	**42** MP	Up to **150** m	**24** kg

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