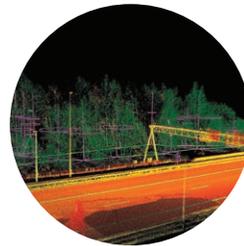


TRIMBLE MX9 MOBILE MAPPING SYSTEM

The Trimble MX9 is a complete field-to-finish mobile mapping solution that combines state-of-the-art hardware with intuitive field software and a reliable, efficient office software workflow. This durable, easy-to-use system mounts on top of a vehicle and rapidly captures dense point clouds and images—both panoramic and multi-angle—as you drive. Following data capture, powerful and integrated office software tools allow the processing of the data and the generation of information-rich deliverables that can be published and shared to an audience within or outside of your organization.

Road and Rail Infrastructure



Construction

The Trimble® MX9 efficiently captures high precision survey data that can underpin the design of road and rail infrastructure along with corridor features to build a comprehensive asset database. Avoid expensive road and rail closures and minimize the risk associated with pedestrian site access. Deliver a wide range of products from as-built topographic surveys and digital terrain models to rich GIS asset databases. Get complete as-built information after a construction project and utilize this information in your GIS or BIM throughout the lifecycle of the asset.

Maintenance

The Trimble MX9, along with complimentary software, allows engineers to generate dense point clouds and terrain models from which designs or re-designs can be derived. Using Trimble Business Center™ software, existing surfaces can be combined with constructable design models to support automated onsite operations enabled by Trimble machine control systems. For existing infrastructure, additional benefits include the remote inspection of road surface defects and maintenance verification of essential infrastructure. Following construction, there is no faster way to deliver an as-built survey than with a Trimble MX9!

Asset Management

The Trimble MX9 allows GIS deliverables for transportation infrastructure to be generated more safely, easily and cost effectively. Costly road and lane closures can be avoided with data captured rapidly from the safety of a vehicle. Technicians collect data, including all road or rail infrastructure and street furniture in the immediate vicinity of the project corridor, as they drive. The MX9 captures high density, colored point clouds and precise panoramic and multi-orientation views of the area. This rich geospatial data is a solid foundation for a full range of transportation asset management and topographic mapping applications.

Tunnels & Bridges

As transportation infrastructure becomes older there is significant pressure to allocate maintenance budgets wisely, with optimal return and risk mitigation. The Trimble MX9 captures large amounts of rich and accurate data quickly and precisely even in obstructed areas. Through a combination of immersive imagery and dense point clouds the MX9 provides solutions for determining obvious high risk defects, clearance assessment, clash detection, corridor encroachment and planning for extreme transportation loads.

Urban Infrastructure



Cities & Urban Areas

For city planners, the Trimble MX9 is a powerful, practical tool. It quickly collects the highly precise, detailed data necessary for accurate city modeling and high density point clouds enable confident detailed data extraction. That data is simple to work with and allows for an efficient generation of GIS layers as well as CAD linework. Whilst the MX9 fits seamlessly into the Trimble ecosystem, it also provides the ability to publish and share data over the internet with connection to third party CAD and GIS applications.

Digital Twin & Smart Cities

Trimble MX9 data serves as a basis for 3D CAD and BIM models of existing structures, which can be derived from the dense point cloud data. As the owners of an MX9 system control the frequency of data capture, multiple time series of data for the same geographical location can be acquired and stored. The availability of this data reduces and often eliminates the need for expensive site visits.

Utilities & Telecommunications

Public and private utilities of many kinds can be captured and extracted from Trimble MX9 data. Large new network environments can be recorded quickly and provide a unique, immersive project planning environment, providing the basis for both, qualitative and quantitative analysis and decision making. Existing assets can be inspected and updated by linking new data to existing databases and data schemas. By sharing published data the need for expensive site visits can often be reduced or eliminated.

Cadastral & Taxation

In many developing parts of the world the Trimble MX9 is providing a rapid method of data capture for property boundary surveys. Physical boundaries can be simply verified and land parcel areas determined for government taxation, cadastral value estimation or agricultural subsidies. Published data can be shared across all organizational stakeholders.

Other Applications

Autonomous Driving

Increasingly important for this fast growing industry is the need to build a vast, contemporary, digital representation of reality. The Trimble MX9 provides high fidelity data for this sector to generate HD maps serving as a data source for autonomous vehicles.

Security

Security applications from international boundary surveys and inspections, to planning of important or large public events as well as post-event damage assessment require up-to-date, rich 3D spatial data as provided by the Trimble MX9.

Insurance & Disaster Relief

Natural disasters often require timely mapping and inspection of large areas. Trimble MX9 data enables 3D mapping and provides the opportunity to validate what is happening on the ground whilst allowing to connect this information to a GIS for fast analysis.

Transportation Management

The planning for transportation of unusual or oversized goods requires up-to-date 3D environmental data for planning purposes to ensure horizontal and vertical clearance to objects along the transportation route. The Trimble MX9 can provide the data and analysis tools for assisting in this planning process.

Airports

The Trimble MX9 can contribute significantly to airport operations - providing rapid mapping capabilities to update an airport's operational GIS and security databases and providing tools for measuring airport pavement surfaces and defect inspections.

Oil & Gas

Oil & Gas operators need access to accurate survey and mapping data about their infrastructure, often in remote areas and operating in extreme conditions. The Trimble MX9 can be used for a wide range of applications from mapping and inspecting complex utilities to the measurement and construction of haul roads.

Contact your local Trimble Authorized Distribution Partner for more information

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