GeoVerra

Geospatial Technologies

Mobile Mapping System

Trimble® MX50 Mobile Mapping System with Applanix AP60 IMU

The Trimble MX50 is a complete field-to-finish mobile mapping solution that combines leading edge hardware with intuitive field software and a powerful, integrated office software workflow. It includes long range LiDAR, spherical imagery and oblique cameras along with best-in-class inertial sensors providing the ultimate in mobile mapping performance. The Trimble MX50 rapidly captures laser scans and images--both panoramic and multi-angle-as you drive.

This high-performance mobile mapping system produces a very dense point cloud and can measure ranges up to 80 metres in typical working conditions. The Trimble MX50 is ideal for undertaking data capture for large survey, engineering projects and asset management.

Dense point cloud, high accuracy, long range for survey and engineering projects

The Trimble MX50 is a practical field-to-finish mobile mapping solution for surveying, engineering, asset management, and mapping.

- Mobile Mapping system combining precise LiDAR data and immersive panoramic imagery
- State-of-the-art Trimble LiDAR technology integrated within a proven and reliable mobile platform
- Accurate point cloud for applications such as road surfaces, highway maintenance, or asset management

Trimble MX9 Mobile Mapping System

Dense point cloud, 4 cameras, high accuracy, long range for survey and engineering

Trimble MX7 Mobile Mapping System

Image Based System for Mapping and Asset Management

Unmanned Aerial Vehicles (UAV)

YellowScan Mapper+

The YellowScan Mapper+ integrates Livox AVIA laser scanner together with high performance GNSS-aided inertial navigation system into a lightweight, standalone and easy-to-use lidar system. With a great point density, this LiDAR sensor allows our LiDAR system to fly easily at 100 m AGL with 3 cm accuracy.

YellowScan Explorer

The YellowScan Explorer is the first LiDAR that can be mounted on a light manned aircraft or helicopter and be switched to a UAV platform like the DJI M300. This versality allows the end user to tackle a wide range of projects with the proven ease-of-use of YellowScan's UAV LiDAR solutions.
With 5 echoes and a range up to 600 m, the Explorer is the most flexible LiDAR unit for high-accuracy mapping and surveying.

DJI M600 with LiDAR USA Snoopy A-Series (Velodyne)

This unit is also configurable but is designed to be an accurate solution for multi-vehicle mounting. The A-Series is light-weight and easy to use. With just a click of a button on your smartphone, you can scan over the edge of a boat, the front of a motorcycle, the belly of a drone, the back of a sedan, the side of a train, on top of a back-pack.

- 700,00 points/sec
- 40 degree vertical FOV
- +/- 3 cm accuracy
- 100 m

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Unmanned Aerial Vehicles (UAV)

Trinity F90Plus Mapping UAV (Fixed Wing)

The Trinity F90+ leverages this platform and improves many aspects to offer professional users even more functionality and great value resulting in a high return on investment:

- 90+ minutes*/ 60 minutes flight time
- Wide range of high precision sensors, e.g., dual RGB & NDVI payload and 42 MP HighRes RGB
- PPK including Quantum-System iBase ground reference station powered by u-blox
- Powerful motors for even more reserves in all situations
- Live Air Traffic (ADS-B) incl. QBase 3D Mission Planning
- 2.4 GHz telemetry with up to 7 km command & control range
- Optional ADS-B Mode-S transponder

Qube 240 LiDAR Sensor for Trinity F90Plus

The Qube 240 by Quantum Systems is a survey-grade LiDAR payload for the Trinity F90+ fixed-wing drone.

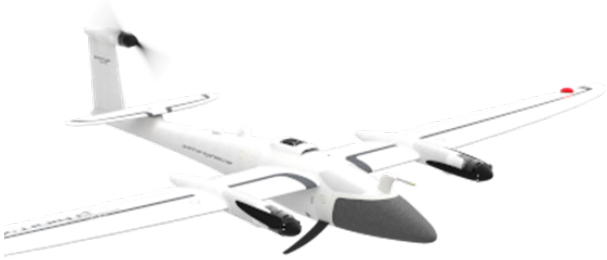
The result was a payload with unique key data:

- Geomatics Grade LiDAR
- Class 1 (Eye Safe)
- Wavelength: 905 nm
- Maximum altitude: 140 m AGL
- Precision: 1.8-2.5 cm
- Accuracy: < 3 cm
- Scanner field of view: 70°
- 240,000 shots per second
- Point density @100 m: 50-100 points/m²
- Multi-echo technology: up to 3 echoes per shot
- Applanix POSPacTM UAV, GNSS, and INS software for PPK
- Qube240 data processing software to generate survey-grade LAS Files.

Unmanned Aerial Vehicles (UAV)

Trinity F90+ - Fixed Wing

Sony RX1R II Payload - 42.4 Megapixel RGB Sensor for the Trinity F90+ UAV



Wingtra - Fixed Wing

The WingtraOne vertical take-off and landing (VTOL) drone allows you to conduct small and large-scale drone surveys with unmatched data quality at a fraction of the time and cost.

Sony RX1R II Payload - 42.4 Megapixel

DJI - M600 and M300

Sony RX1R II Payload - 42.4 Megapixel

Sony RX1R II Payload - 42.4 Megapixel

Rail Trolley

Trimble GEDO Railway Systems

Trimble GEDO systems utilize Trimble GNSS, Trimble Total Stations, inertial measurement and related sensor technologies to capture precise positioning data on railway track and surrounding features. Based on decades of experience in the railway industry, Trimble GEDO systems provide efficient tools and workflows throughout the rail measurement process. By integrating rugged field hardware with customized software and point of work guidance, Trimble GEDO systems reduce rework and increase productivity across the entire enterprise workflow. You can quickly configure your system to support track location, inspection, construction and maintenance as well as planning for improvements, updates and expansion. As client's needs change, Trimble GEDO systems can adapt to new requirements for measurement and data management.

Railway Measurement Solutions

- Track Documentation
- Precise Slab Track Construction
- Railway Tamping Measurements
- Upgrading lines and e-construction projects
- Asset data collection and clearance analysis

For more information, visit our website or get in touch with your local office at geoverra.com/contact