

BAHAGIAN UKUR & PEMETAAN – SEKSYEN GEODETIK

TECHNOLOGIES UPDATES : MOBILE MAPPING SYSTEM OLEH TRIMBLE SDN.BHD.



Pada 3 Disember 2015 yang lalu, pihak Trimble Sd.Bhd. telah hadir dan memberi taklimat berkenaan *Mobile Mapping System* di PKU(G) dan sesi demo peralatan berkenaan.

Berikut gambar-gambar pada sesi berkenaan.



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TRIMBLE MX2 MOBILE MAPPING SYSTEM

KEY FEATURES

- High performance laser scanner** captures fully synchronized point clouds.
- Precision positioning** using tightly mounted GNSS and inertial referencing system.
- Rugged, reliable and lightweight design** with low power consumption.
- Deploy on all sizes of on- and off-road vehicles.**
- Use with Trimble Trench software** for data capture, extraction and analysis.

VERSATILE MOBILE MAPPING FOR GEOSPATIAL SURVEYS

The Trimble MX2 is a vehicle-mounted mobile mapping system which combines high resolution laser scanning and precise positioning to collect geo-referenced point clouds for a wide range of applications. The system can be rapidly deployed onto on- and off-road vehicles of all sizes, and significantly reduces project field time and operator risk levels compared to traditional techniques. The MX2 is supplied with Trimble proven Trench software to rapidly extract and analyse the raw data to turn it into useful geospatial intelligence.

TRIMBLE MX2 TECHNOLOGY

The system has three main elements:

- Sensor Head**
A compact, lightweight, and rugged sensor package designed to be mounted on vehicles of all sizes. It contains one or two laser heads and a optional Trimble Applanis (GNSS) and inertial georeferencing module for precise positioning. The dual head system uses a 'butterfly' LiDAR configuration to increase scanning. The sensor head can be rapidly installed in minutes and does not need a dedicated vehicle.
- Operator Console**
System control and data recording functions are provided by a ruggedised laptop PC running Trimble's Trench™ Capture software. This presents a clear, intuitive user interface, allowing the operator to rapidly set system parameters and manage data recording.
- ANALYSIS SOFTWARE**
To quickly transform point clouds into geospatial intelligence, the system includes the proven Trimble Trench software suite. Trench Imaging Hub is available with the system and offers robust object positioning, measurement, and data layer creation, and it also has the analysis of mobile laser scanner data and geo-referenced imagery. The advanced Trench Factory software enables high levels of automation and is optimised for more complex projects. For post-processing systems, the powerful Applanis NOVAtx NMEA software is supplied.

HIGH PRODUCTIVITY CAPTURE AND ANALYSIS

Capable of collecting up to 72,000 points per second in its dual scanner configuration, the system offers high levels of accuracy due to the performance of its Trimble Applanis GEOreference reference technology. The highly efficient, and robust workflow is based on Trimble's Collect, Extract, Analyser methodology, and enables detailed 3D infrastructure geometries to be captured in a single pass and rapidly processed. The system is distinguished by operational flexibility, ease-of-use, high productivity and excellent performance – yet it offers a low cost of ownership.

BENEFITS

- Versatile system offers significant operational flexibility.
- Outstanding performance and value with low cost of ownership.
- Optimises staff allocation and lowers job requirements.
- Reduces project timescales through fast deployment, data capture, and analysis.
- Highly efficient, proven analysis workflow.
- Enhances operational capabilities and expands market opportunities.

DATA SHEET

Trimble