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Mobile Mapping

Leica Pegasus:Two Ultimate Mobile Sensor Platform

High quality digital reality capture

A complete mobile mapping solution incorporating two back-to-back cameras creating a 24-megapixel 360° image that can be calibrated in the LiDAR profiler data, enabling digital reality captures from car, train or boat to enable fast processing at the office.

The **Leica Pegasus:Two Ultimate** captures data in a variety of lighting conditions and vehicle speeds – a high dynamic range is enabled by a large sensor-to-pixel ratio and a dual-light sensor. Photogrammetry and image quality is improved with the increased side camera resolution of 12-megapixel and onboard JPEG compression.

Seamless imagery with the 360° camera

- 360° 24-megapixel camera system providing stitch-free images
- Telescopic pole - enables easy storage to prevent damage
- Point cloud colourised by the 360° camera
- Point cloud and 360° image can be viewed together as an overlay



Increased flexibility with easier data transfer

- Additional sync ports to connect thermal imaging, multibeam sonar and a ground penetrating radar sensor
- Additional camera ports for pavement cameras or additional side cameras engaging target image capture on signs or tunnel walls
- Removable solid-state Hard Disk with integrated USB 3.0 connection

Data sharing independently from web browser

Access and share data at anytime from anywhere from the cloud to enable faster visualisation, data delivery and project invoicing.

- Visualisation of captured data
- Complete storage in the cloud
- Point cloud rendered in any browser without the need for a plug-in
- Images calibrated to point cloud, can be used to navigate and measure

City digitisation

Digitisation of city infrastructures, planning and resources is the foundation of the SmartCity, the **Pegasus:Two Ultimate** will enable your growth and ability to offer the best solution for this market. Seamless 360° imagery calibrated to the digital point cloud will help you to deliver easily realised data assets for a future with autonomous vehicles.

Higher image quality with side cameras

Thanks to the geometry of the possible stereo pairs, the upgraded systems require less cameras, offer significantly improved image quality.

- Side cameras deliver 8.0 FPS at 12-megapixel at 61° x 47° FOV
- The maximum pixel size at 10m is 3mm
- Adjustable pavement camera with 12mm lens, enables targeted image capture along a road or in a tunnel

More data, faster

More sensor expansion ports offer additional means to capture the city in ones and zeros by connecting additional sensors. Time savings are further increased with an industrial yet removable, USB 3.0 hard drive, enabling the user to save the data directly on to the removable drive and connect seamlessly to any PC or server with a USB 3.0 interface.




Mobile Mapping can be used in a vast range of applications, such as;


- Topographical surveys for large road projects
- White line surveys
- Town or city street mapping and modelling
- Railway surveys
- Airport runway and taxiway surveys
- Quarry mapping
- Beach and cliff erosion mapping and monitoring
- Asset and GIS data collection


Advantages of using a Mobile Mapping solution;

- Quickly capture a comprehensive dataset that can be used for multiple purposes
- Reduced delivery times with ability to create higher-value deliverables
- Ability to move decision making into the office
- Vehicle mounted survey grade accuracies
- Increased safety

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