

# Leica Pegasus:Two Ultimate

Mobile reality capture



# Leica Pegasus:Two Ultimate – Seamless 360° images calibrated to the point cloud

The Leica Pegasus:Two Ultimate is the updated version of the Pegasus:Two, Leica Geosystem's trusted mobile mapping platform and removes the need for six camera stitching by incorporating two back-to-back cameras creating a 24 MP 360-degree image calibrated to the LiDAR profiler, enabling digital reality captures from car, train, or boat. To enable faster processing at the office, a removable SSD allows to simply eject your data and walk into the office.



## City digitisation

Digitisation of city infrastructures, planning, and resources is the foundation of the Smart City, 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. More sensor expansion ports offer additional means to capture the city in ones and zeros.



## Improved flexibility

Increasing your working day - allowing capture in a variety of lighting conditions and vehicle speeds - a higher dynamic range is enabled by a large sensor to pixel ratio and a dual-light sensors. Photogrammetry and image quality is improved with the increased side camera resolution of twelve mega pixels and onboard JPEG compression.

## INCREASED OF IMAGE QUALITY



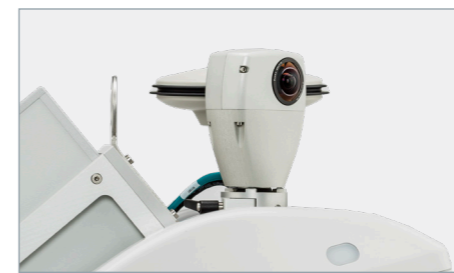
RESOLUTION



PIXEL SIZE



## Improving Smart City applications - bringing higher quality digital reality capture



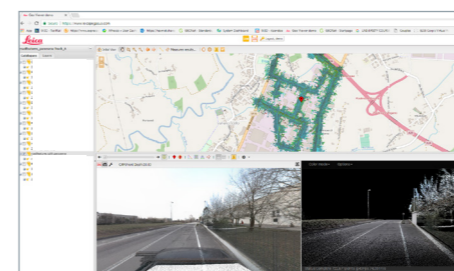
### SEAMLESS IMAGERY WITH 360° CAMERA

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



### INCREASED FLEXIBILITY WITH EASIER DATA TRANSFER

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



### DATA SHARING INDEPENDENT FROM WEB BROWSER

Access and share the 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 need for plug-in
- Images are calibrated to point cloud, can be used to navigate and measure



### HIGHER IMAGE QUALITY WITH NEW SIDE CAMERAS

Thanks to the geometry of the possible stereo pairs, the upgraded systems require less cameras, but offers significant image quality improvement.

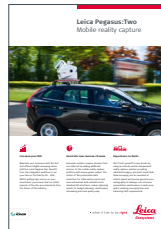
- Side cameras deliver 8.0 FPS at 12 MP at 61° x 47° FOV
- The maximum pixel size at 10 m is 3 mm
- Adjustable pavement camera with 12 mm lense, enables targeted image capture along a road or in a tunnel

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**Leica Pegasus:Two**  
 Mobile reality capture



**Leica Pegasus:Stream**  
 Mobile reality capture



**Leica Pegasus:Backpack**  
 Mobile reality capture



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- when it has to be **right**

