

THIS IS THE FUTURE OF MOBILE MAPPING

Autonomous. Intelligent. Simplified. Leica Pegasus TRK300



SYSTEM OVERVIEW



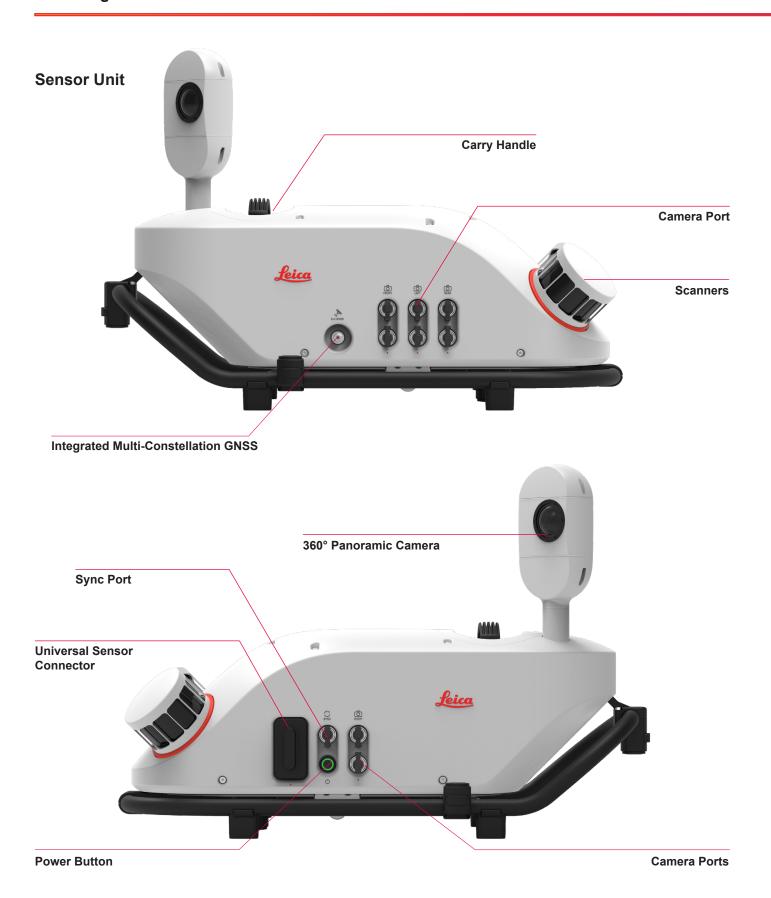
CAPTURE PROCESS DELIVER

The Pegasus TRK300 simplifies data capture for fast, reliable outputs. Its advanced sensing and positioning technologies ensure precise, high-resolution data collection in real time, delivering the detail you need with minimal effort, even in challenging environments.

Seamless integration with Leica Pegasus FIELD and OFFICE streamlines workflows from data collection to final deliverables. RTK positioning enables infield processing and direct data export, reducing turnaround time and improving efficiency.

Turn data into decisions with high-quality, georeferenced outputs. Whether for infrastructure projects, asset documentation, or digital twin creation, the Pegasus TRK300 delivers precise, reliable results, ready to use when you need them.





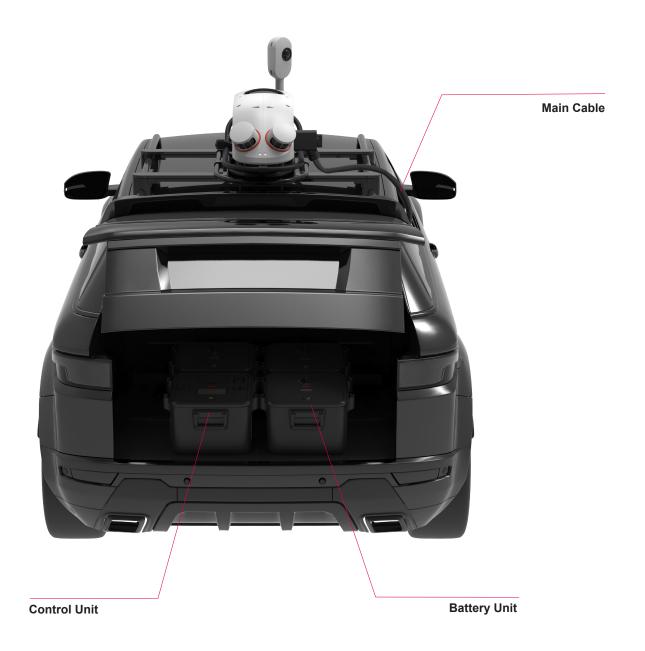
MAP FURTHER, FASTER

CONTROL UNIT WORKS WHILE YOU REST

The powerful control unit with a touch-screen user interface makes the Leica Pegasus TRK300 a powerful and reliable mapping assistant. Sensor data is streamed directly to the removable storage, so no time is lost copying data to external drives.

BATTERY UNIT EXPAND WHEN YOU NEED

With hot-swap batteries, the Leica Pegasus TRK300 simplifies power supply, eliminating complicated vehicle modifications. The Leica Pegasus TRK300 battery unit lasts up to 7h and integrates a transportation mode for easy storage and shipping of Li-lon batteries in line with IATA cargo regulations UN3481.



BUILT TO ADAPT, DESIGNED TO EXCEL

Butterfly Side Cameras*

The butterfly side cameras offer two positions, vertical and horizontal. This enables the capture of vertical arches in high-resolution for texturing and damage analysis, or horizontal features such as traffic signs.

Modular Camera System*

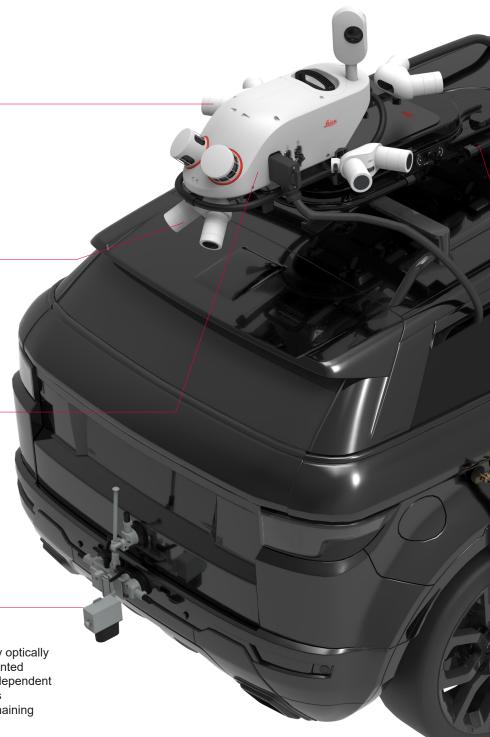
Seamlessly integrate up to four additional 24MP pairs of cameras - to capture front, side, and pavement angles for texture analysis and intrinsic calibration for stitch-free panorama imagery.

LOC8 Theft Deterrence & Location Solution

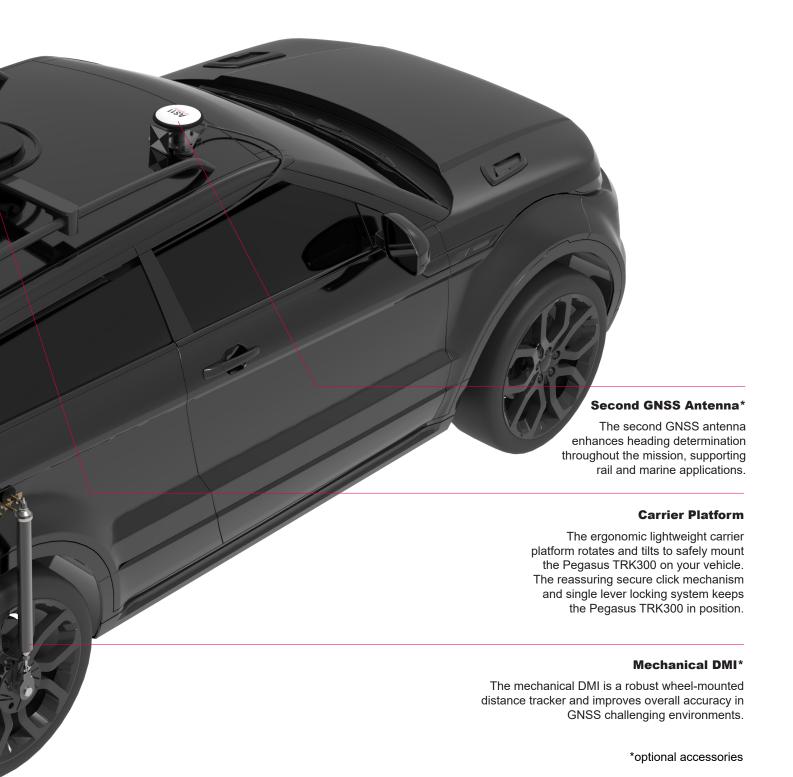
Keep your Pegasus TRK300 safe with LOC8, Leica Geosystems' theft deterrence feature and GPS tracker. Use LOC8 as a fleet management tool to keep track of your assets when they are out on the road to make sure your system is secure wherever and whenever you are mapping.

Optical DMI*

The Optical DMI measures travelled distance by optically tracking road surfaces. Designed as a rear-mounted device, it provides precise distance readings independent of wheel rotation. Its compact mounting ensures compliance with traffic safety regulations by remaining within the vehicle's silhouette.



The Leica Pegasus TRK300 is a versatile and compact mobile mapping system designed for fast, reliable data capture. Its intelligent, streamlined workflows make it easy to digitise large-scale assets with precision and confidence. Weighing just 14kg, it can be installed and operated by a single person, ensuring efficient data collection in any environment.



SOFTWARE

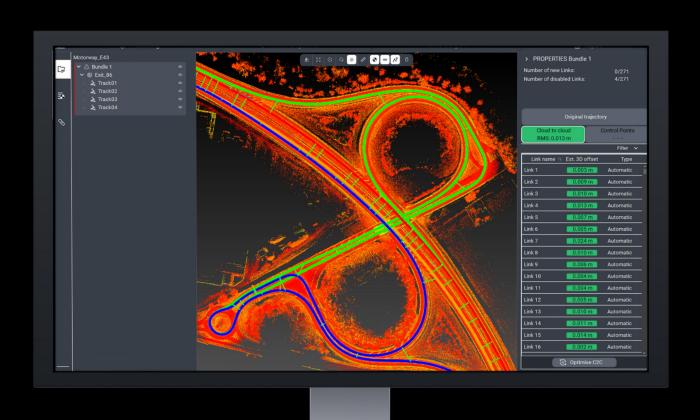
Leica Pegasus FIELD

The Leica Pegasus FIELD software empowers autonomous data collection in the field. Plan routes and set specific goals for each project directly on-site. With edge computing and real-time processing, data is processed in real time during data collection, so it's ready by the time you're back in the office. This powerful software guides you through project setup and adapts project plans based on accuracy requirements and environmental conditions, whether you're on city streets or railways. Use predefined profiles to achieve optimal results every time.



Leica Pegasus OFFICE

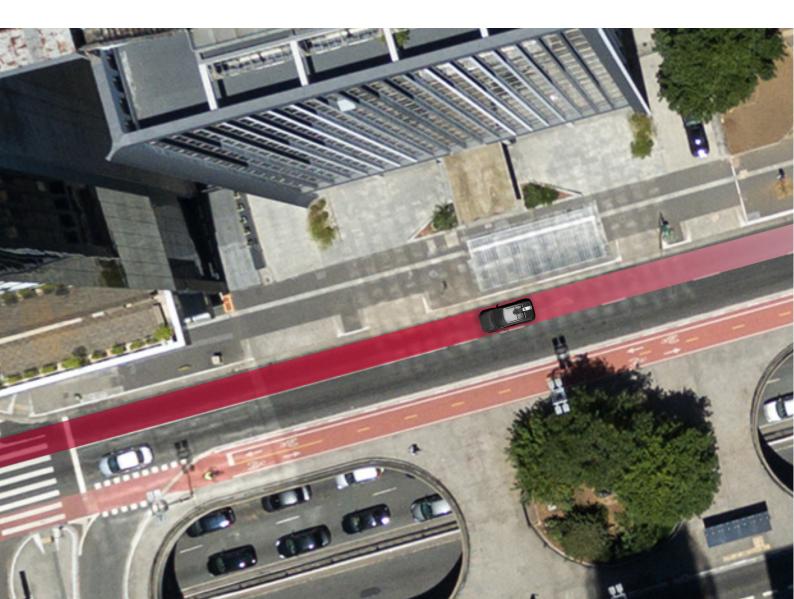
Leica Pegasus OFFICE enables a seamless data flow into post-processing and publishing workflows, allowing you to complete all processing requirements in one integrated solution. Refine data with precise geo-referencing, multi-pass trajectory adjustment, and the export of several file formats, including multi-return results to support applications such as identifying ground surfaces through vegetation. Create colorized 3D point cloud data that is automatically privacy-compliant.



REAL-WORLD APPLICATIONS

The Pegasus TRK300 is designed to streamline mobile mapping by delivering dense point clouds while reducing field time. The dual-head multibeam scanner system reduces shadows and missed details, ensuring complete and realistic datasets with every scan. Real-time processing gives users full control over their workflow, allowing them to validate data on-site and choose between immediate export in Pegasus FIELD or post-processing in Pegasus OFFICE.

For applications that require detailed asset documentation, the Pegasus TRK300's additional butterfly cameras ensure optimal imaging angles, making it easier to assess road conditions, traffic signs, and other critical infrastructure. SmartFusion technology refines this process by allowing users to zoom in only where needed and export only relevant images, reducing storage while keeping essential details. MatchPoint technology further improves point clarity, enhancing the accuracy of asset mapping.





When mapping large-scale infrastructure, the Pegasus TRK300 efficiently documents power lines and utility networks, providing reliable geospatial insights that support maintenance planning and asset monitoring. Its one-person operation, lightweight design, and easy mounting allow for fast deployment, even in remote or complex environments.

In urban planning and smart city modelling, the Pegasus TRK300 integrates real-time anonymisation, ensuring privacy-compliant data collection in public spaces. It produces colourised, high-density point clouds, providing a detailed foundation for digital twin creation. This helps cities optimise traffic flow, expand infrastructure, and conduct environmental analysis.

For hazardous environments such as mining and industrial sites, the Pegasus TRK300's long-range scanning capabilities enable safe, efficient terrain mapping without requiring surveyors to enter dangerous areas. Its compact and transportable design makes it ideal for projects that require mobility and fast turnaround times.

With fast deployment, flexible workflows, and reliable data capture, the Pegasus TRK300 adapts to a wide range of applications. Whether for asset management, infrastructure documentation, mining surveys, or urban development, it provides a practical and efficient solution for professionals who need reliable results.

Leica Geosystems - when it has to be right

With more than 200 years of history, Leica Geosystems, part of Hexagon, is the trusted supplier of premium sensors, software and services. Delivering value every day to professionals in surveying, construction, infrastructure, mining, mapping and other geospatial content-dependent industries, Leica Geosystems leads the industry with innovative solutions to empower our autonomous future.

Hexagon (Nasdaq Stockholm: HEXA B) has approximately 24,000 employees in 50 countries and net sales of approximately 5.2bn EUR. Learn more at hexagon.com and follow us @HexagonAB.



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