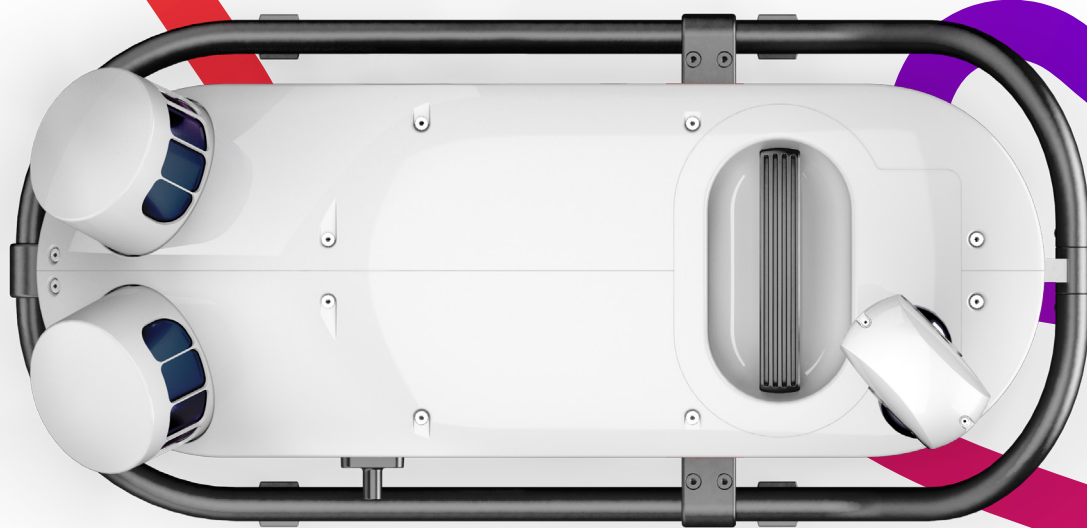


THE
FUT
URE
IS | TRK100



THIS IS THE FUTURE OF MOBILE MAPPING

Autonomous. Intelligent. Simplified.
Leica Pegasus TRK100



leica-geosystems.com

Leica
Geosystems

SYSTEM OVERVIEW

The Leica Pegasus TRK100 is an intelligent, autonomous, and simple mobile mapping system for GIS professionals to map, know and see what is where. The system delivers complete location intelligence in the digital format needed to make the decisions that will improve asset management, build and maintain better infrastructure and transform how critical services operate.

MAP

The Leica Pegasus TRK100 simplifies data mapping to create your maps, your way. Built for large-scale infrastructure measurement and digital twin creation this powerful, easy-to-use geospatial tool helps you to map what is where.

KNOW

The Leica Pegasus TRK100 collects data and captures asset information quickly and autonomously, so you know what is where.

SEE WHAT IS WHERE

The Leica Pegasus TRK100 delivers fundamental location intelligence for georeferenced visual datasets, so you can see what is where.



Sensor Unit



Integrated Multi Constellation GNSS



Pegasus TRK100

Dual scanners for when higher point cloud coverage is required, capturing 600'000 points per second.

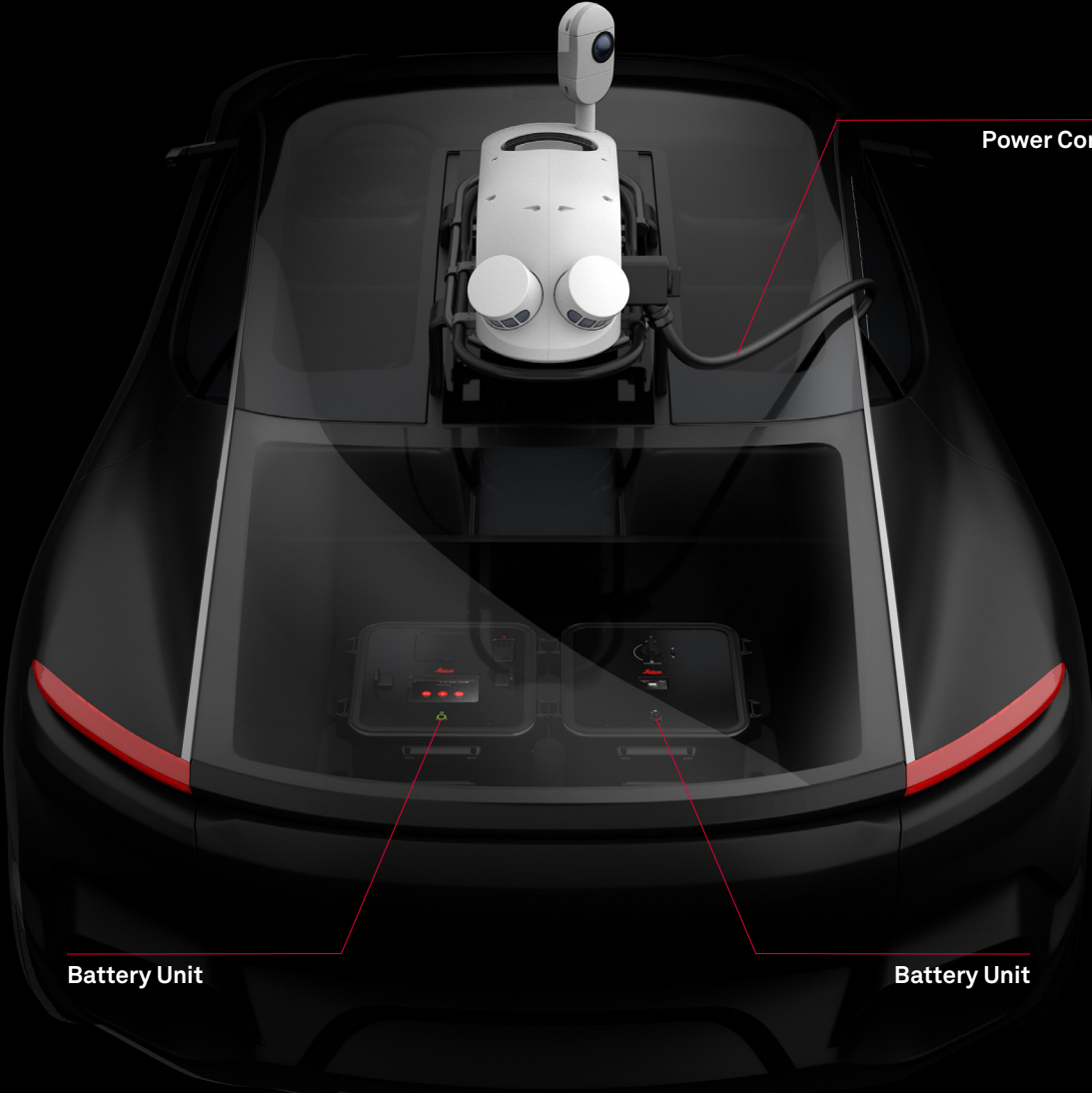
MAP FURTHER, FASTER

CONTROL UNIT WORKS WHILE YOU REST

The powerful control unit with a touch-screen user interface makes the Leica Pegasus TRK100 your smart and tireless co-worker. Start and stop missions and automate processing using the Pegasus FIELD app on the device display. 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

All day long power extends data capture. With hot-swap batteries, the Leica Pegasus TRK100 simplifies power supply eliminating complicated vehicle modifications. The Leica Pegasus TRK100 battery unit lasts up to 7h and integrates an ingenious transportation mode for easy storage and shipping of Li-Ion batteries in line with IATA cargo regulations UN3481.



SMALL THINGS DONE IN A GREAT WAY

The Leica Pegasus TRK100 is the most flexible and compact mobile mapping system. Intelligent, autonomous, and simple workflows allow newcomers to digitise large-scale assets efficiently and with confidence. Weighing only 14kg, the system can be installed and operated by a single person, making data collection simpler and more efficient than ever before.

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 TRK100 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 is absent from the standard slip error of wheel-based DMI and complies with traffic safety regulations by being rear-mountable and not exceeding the car silhouette.

Butterfly Side Cameras

The butterfly side cameras have a dual position, vertical and horizontal, enabling the capture of vertical arches in high-resolution for texturing and damage analysis or horizontal features like traffic signs or civic numbers.

Second GNSS Antenna

The second GNSS antenna improves the initialisation for rail and marine applications. the lever arm is automatically calculated, improving the overall accuracy results.

Carrier Platform

The ergonomic lightweight carrier platform rotates and tilts to safely mount the Pegasus TRK100 on your vehicle, single-handed. The reassuring secure click mechanism and single lever locking system keeps the Pegasus TRK100 in position.

Mechanical DMI

The mechanical DMI is a robust wheel mounted distance tracker and improves overall accuracy in GNSS challenging environments.

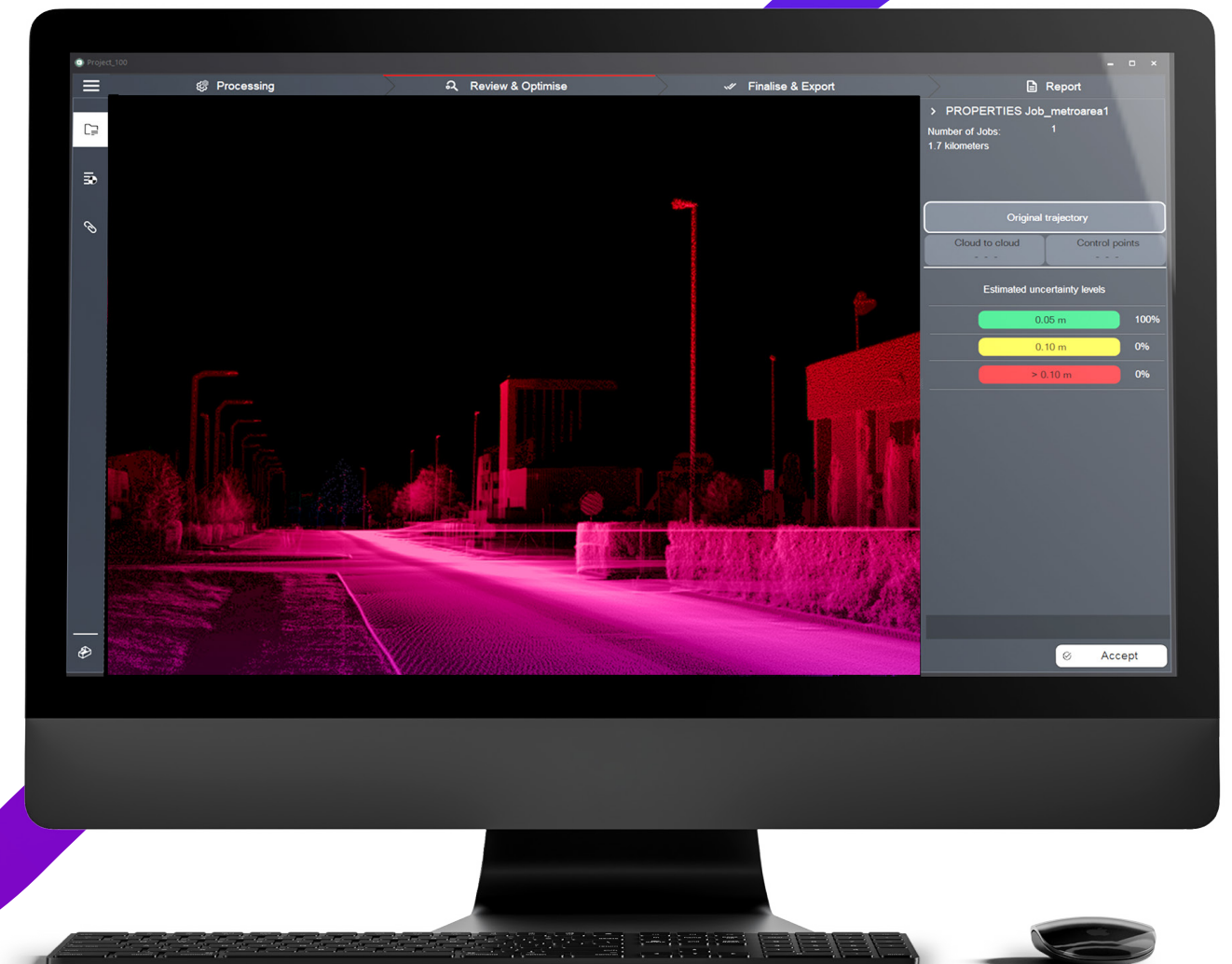
SOFTWARE

LEICA PEGASUS FIELD

Plan and execute projects with confidence. Spontaneous visual and audio feedback along the route makes data collection failure a thing of the past. Pegasus FIELD predicts the time required for planned missions and storage and battery capacity needed to perform the job. Throughout the journey, image previews, accuracy estimations, and live system feedback instill absolute confidence in the data acquisition process.

CYCLONE PEGASUS OFFICE

With a familiar user experience to the established Cyclone software ecosystem, Leica Cyclone Pegasus OFFICE provides a seamless data flow into post-processing and publishing workflows. Complete all your processing requirements in one solution. Refine data with precision geo-referencing and multi-pass trajectory adjustment and create coloured 3D point cloud data that is automatically privacy-compliant.





KEEP INTACT

PRIVACY

Privacy is fundamental to modern society. The Leica Pegasus TRK100 is designed to protect citizen privacy with real-time object blurring, so your maps are GDPR compliant from the get-go. With a real-time AI algorithm, the system proactively identifies and blurs complete objects in the images, as the data is captured. Data is encrypted and stays safe within your Leica Pegasus TRK100 unit.

APPLICATIONS

THIS IS NOT AN ILLUSION

When machine learning meets the point cloud. With the introduction of MatchPoint, the Leica Pegasus TRK100 combines AI and a unique learning algorithm in post-processing to enhance and optimise clarity of points for improved accuracy of asset mapping.

ELIMINATE THE SHADOWS

There is no place to hide. The Leica Pegasus TRK100 packs multibeam dual scanners that eliminate shadows and reduce missed objects for complete, realistic data sets.

MAP LIKE A PRO

A powerful geospatial tool built for you. Featuring an innovative set of capabilities, the Leica Pegasus TRK100 allows you to easily collect, visualise, analyse, and share projects with your team anywhere around the world.



NEW ROUTES OPEN NEW DOORS

Proven durability takes mapping to new levels. Challenging environments won't challenge your ability to map the assets you need, wherever the fork in the road takes you.

The Leica Pegasus TRK100 is IP67 certified, fully dust tight and tolerates temporary immersion under water. This rugged system can withstand 4g shocks and conforms to ISO9022 and MIL_STD-810H norms. Anti-fog camera lenses, enables capture in fast changing environmental conditions.





LOCATION INTELLIGENCE EMPOWERS ACTION

The Leica Pegasus TRK100 puts information at your fingertips. Complete location intelligence transforms the way you manage assets to keep people moving, safely and sustainably. Collect and analyse large corridors, transforming big location data into actionable infrastructure insights. The Pegasus TRK100 mobile mapping system delivers complete location intelligence in the digital format needed to make the right decisions.

ABOUT HEXAGON

Hexagon is a global leader in digital reality solutions, combining sensor, software and autonomous technologies. We are putting data to work to boost efficiency, productivity, quality and safety across industrial, manufacturing, infrastructure, public sector, and mobility applications.

Our technologies are shaping production and people related ecosystems to become increasingly connected and autonomous — ensuring a scalable, sustainable future.

Hexagon's Geosystems division provides a comprehensive portfolio of digital solutions that capture, measure, and visualise the physical world and enable data-driven transformation across industry ecosystems.

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](https://twitter.com/HexagonAB).



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