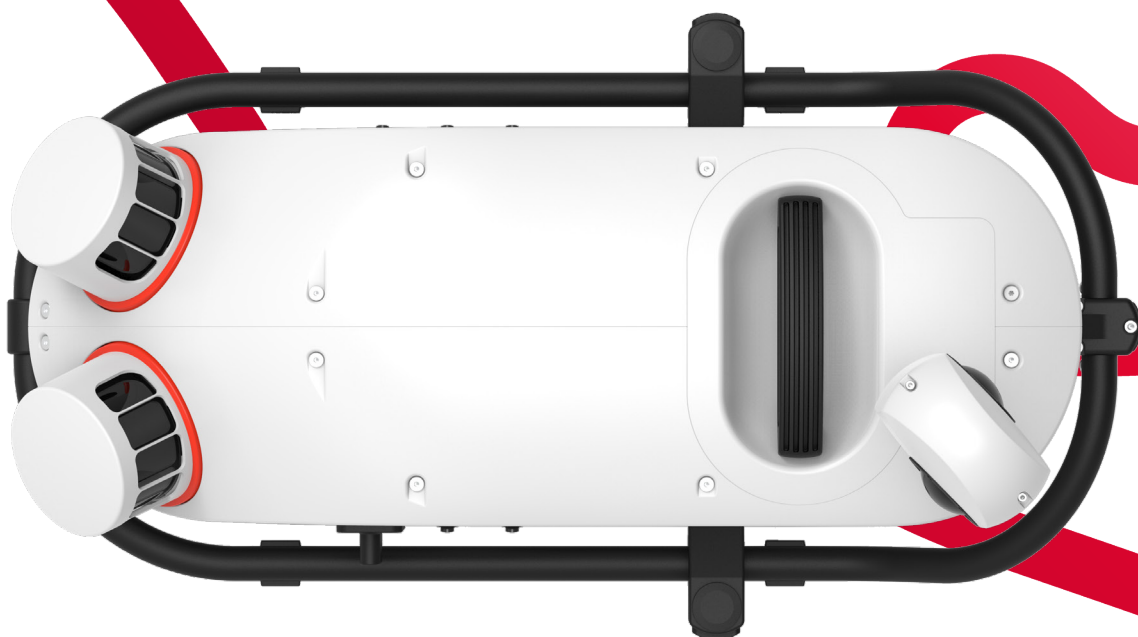


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# Leica Pegasus TRK300 Data Sheet

**Autonomous. Intelligent. Simplified.**

System Performance				
Absolute accuracy <sup>1</sup> in [X,Y] / [Z]	No GNSS outage	60 second GNSS outage		
Post-processing	11 / 11mm	14 / 16mm		
RTK	12 / 12mm			
Scanner				
Effective measurement rate	1.28MHz			
Scan speed	20Hz per scanner			
Precision	≤ 10mm*, with MatchPoint technology applied			
Maximum range	300m			
Channels	2x32 channels			
Field-of-view	40.3° (-20.8° to +19.5°)			
Number of returns	Up to 3			
Minimum range	0.5m			
Laser class	Class 1, eye safe			
Camera				
Type	360° Panorama	Butterfly Side	Pavement	Front
Resolution	24MP	2x24MP	24MP	24MP
Mounting	Fixed	Flexible; Hz & V	Fixed	Fixed
Focal length	3.3mm	12.45mm	12.45mm	12.45mm
Calibration	Permanent	Semi-automatic/ manual	Semi-automatic/ manual	Semi-automatic/ manual
Capture mode	By distance at maximum 8fps			
Anonymisation	Natively AI-based, real-time blurring; fully compliant to GDPR			
Colour calibration	According to CIEDE2000			
Brightness control	Real-time, fully automatic			
Positioning				
GNSS <sup>2</sup>	555 channels, multi-constellation, multi-frequency			
Antenna	Fully integrated, with additional second antenna support			
DMI <sup>3</sup>	Supported - see “Accessories” section			
RTK <sup>4</sup>	HxGN SmartNet / NTRIP networks			

<sup>1</sup>Depending on various factors such as distance and density.

<b>Remote Services</b>	
Theft deterrence <sup>5</sup>	Built-in LOC8 theft deterrence and location solution for remote tracking, localisation and locking by mobile phone or computer
Support	Remote in-field support access
<b>Power Supply</b>	
Type	Vehicle independent
	Hot-swappable, up to 3 x Li-Ion Pegasus battery units
Interface	Ruggedised, IP54, industrial grade, 2.4" colour LCD displaying real-time battery health monitoring
Operating time <sup>6</sup>	7h / battery unit
Transport	Transportation mode for ground and aircraft shipping
	Fully compliant to dangerous goods UN 3480/3481
<b>Control Unit</b>	
Type	Ruggedised, IP54, industrial grade, multi-core PC with built-in machine learning chip
Interface	5.0" colour and touch LCD displaying live battery health monitoring
Real-time capabilities	Data pre-processing and AI-based tasks
Data storage	2x2TB or 2x3.8TB, real-time data stream to high performance, removable SSDs
<b>Environmental characteristics</b>	
Maximum speed	130km/h
Temperature range operating	-10°C to +50°C
Temperature range storage	-20°C to +50°C
IP rating	IP67 during operation, fully dust tight and withstands temporary immersion under water
Shock and vibration	Withstands 4g shocks, ISO9022, MIL-STD-810H
<b>Dimensions</b>	
Dimensions [L/W/H]	70 / 40 / 49cm
Weight	14.2kg
<b>Mounting</b>	
	Rotational-fix mount, adjustable in horizontal position -30°, 0°, +30°, optional Rotational-tilt mount, tilting up to 45° improving accessibility and ergonomics by reducing 36cm the mounting height, optional Vibration Damping mount for railway applications

## Accessories and Options

### Distance Measurement Instruments

#### Mechanical DMI

Mechanical wheel odometer for road applications

#### Optical DMI

Optical odometer for road applications, adhering to international vehicle safety standards

#### Rail DMI

Optical odometer, dedicated for rail applications

### Cameras

#### Front camera

24MP, horizontal mounting, semi-automatic/manual calibration

#### Rear camera

24MP, horizontal mounting, semi-automatic/manual calibration

#### Butterfly side cameras

2x24MP, horizontal or vertical mounting, semi-automatic/manual calibration

### GNSS

#### Second GNSS antenna

Leica AS11 GNSS antenna for more accurate heading

### Upgrade

Upgrade options available, contact your sales representative for more information

### Customer Care Packages

Various multi-year CCPs covering support, hardware and software maintenance, extended warranty, re-calibrations and loan units are offered

## Software

### Pegasus FIELD

Multi-lingual browser-based interface, accessible via Wi-Fi or ethernet cable, mission planning, autonomous data acquisition, real-time anonymisation, in-field exports, remote support

### Pegasus OFFICE

Multi-lingual browser-based interface for post-processing, trajectory refinement, point cloud adjustment, GCP management, image anonymisation, point cloud classification, point cloud colourisation, data export



Illustrations, descriptions and technical specifications are not binding and may change.

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- 1 Root mean square with DMI on Leica Geosystems reference area.
- 2 Global Navigation Satellite System.
- 3 Distance Measurement Instrument.
- 4 Real-Time Kinematic.

- 5 Not available in all countries.
- 6 Results based on a typical configuration. May vary according to configuration, environmental, and battery conditions.

The Leica Pegasus TRK300 is not available for ordering in all countries. For further details, please contact your local Leica Geosystems sales representative.



Integrate with LOC8 – Lock & Locate  
For more information visit: [leica-geosystems.com/LOC8](https://leica-geosystems.com/LOC8)

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- when it has to be **right**

