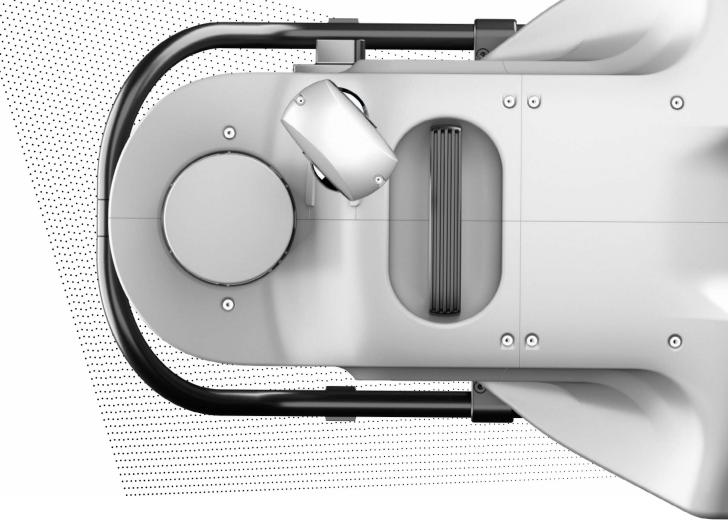
THE FUE IS TRK



Leica Pegasus TRK Neo & Evo Data Sheet

Autonomous. Intelligent. Simplified.



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System Performance	TRK Neo		TRK Evo	
Absolute accuracy ¹ in [X,Y], [Z]	No GNSS outage	60 second GNSS outage	No GNSS outage	60 second GNSS outage
Post-processing	11mm, 11mm	14mm, 16mm	11mm, 11mm	14mm, 16mm
RTK	12mm, 12mm		12mm, 12mm	
Scanner	TRK500 Neo	TRK700 Neo	TRK500 Evo	TRK700 Evo
Maximum pulse rate	500kHz	2 x 500kHz	2.2MHz	2 x 2.2MHz
laximum rotational speed	250Hz	2 x 250Hz	267Hz	2 x 267Hz
Precision	TRK Neo ² 4mm		TRK Evo ³ 1mm	
Maximum range 50% reflectivity at 200kHz / 500kHz	490m / 250m		182m	
Maximum range 10% reflectivity at 200kHz / 500kHz	205m / 130m		182m	
Number of returns	Up to 4		1	
Vinimum range	1.5m		0.3m	
Field-of-View	360° full circle		360° full circle	
Laser class	Class 1, eye safe		Class 1, eye safe	
Camera				
Maximum system resolution	120MP powered by	/ SmartFusion technolo	ogy	
Гуре	360° Panorama	Butterfly Side	Pavement	Front
Resolution	24MP	2 x 24MP	24MP	24MP
lounting	Fixed	Flexible; Hz & V	Fixed	Fixed
Focal length	3.3mm	12.45mm	12.45mm	12.45mm
Calibration	Permanent	Self-calibrating	Self-calibrating	Self-calibrating
Capture mode	By distance at maximum 8 frames per second			
Anonymisation	Natively AI based, real-time blurring; fully compliant to GDPR			
Colour calibration	According to CIED	E2000		
Brightness control	Real-time, fully automatic			
Positioning	TRK500 Neo	TRK700 Neo	TRK500 Evo	TRK700 Evo
GNSS⁴	555 channel, multi-constellation, multi-frequency			
Antenna	Fully integrated, with additional second antenna support			
SLAM⁵	Dual SLAM scanner integration for optimised positioning in challenging conditions			

Supported (check the "Accessories & Options" section)

HxGN SmartNet / NTRIP networks

DMI⁶

RTK⁷

Remote Services	TRK500 Neo	TRK700 Neo	TRK 500 Evo	TRK700 Evo	
Theft deterrence ⁸	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				
Power Supply	TRK500 Neo	TRK700 Neo	TRK 500 Evo	TRK700 Evo	
Туре	Vehicle independent				
	Hot-swappable, up to 3 x Li-lon Pegasus battery units				
Interface	Ruggedised, IP54, industrial grade, 2.4 inch colour LCD displaying real-time battery health monitoring				
Operating time ⁹	7h / battery unit	6h / battery unit	3.5h / battery unit	2.5h / battery uni	
Transport	Transportation mode for ground and aircraft shipping				
	Fully compliant to dangerous goods UN 3480/3481				
Control Unit	TRK500 Neo	TRK700 Neo	TRK 500 Evo	TRK700 Evo	
Туре	Ruggedised, IP54, industrial grade, multi-core PC with built-in machine learning chi				
Interface	5 inch colour and touch LCD displaying live battery health monitoring				
Real-time capabilities	Data pre-processing and AI based tasks				
Data storage	2 x 2TB or 2 x 3.8	TB, real-time data strea	m to high performan	ce, removable SSDs	
Environmental characteristics	TRK500/700 Neo		TRK500/700 E	vo	
Maximum speed	130km/h		130km/h		
Temperature range operating	-10°C to +50°C		-10°C to +50°C		
Temperature range storage	-20°C to +50°C		-20°C to +50°C		
IP rating	IP67 during operation, fully dust tight and withstands temporary immersion under water		IP65 IP66 with protection cap		
Shock and vibration	Withstands 4g shocks, ISO9022, MIL-STD-810H				

Dimensions	TRK500 Neo	TRK700 Neo	TRK500 Evo	TRK700 Evo
Dimensions [L/W/H]	70 / 33 / 56cm	72 / 46 / 56cm	70 / 33 / 56cm	72 / 46 / 56cm
Weight	18kg	23kg	21kg	29kg
Mounting	Rotational-tilt mount, adjustable in horizontal position -30°, 0°, +30°, tilting up to 45 improving accessibility and ergonomics by reducing the mounting height by 36cm. Rotational-fix mount, adjustable in horizontal position -30°, 0°, +30°			

Accessories and Options DMI	TRK500 Neo	TRK700 Neo	TRK500 Evo	TRK700 Evo
(Distance Measurement Instrument)				
Mechanical DMI	Mechanical wheel odometer for road applications			
Optical DMI	Optical odometer for road applications, compliant to international vehicle safety standards. Suitable for rail applications.			
Rail DMI	Optical odometer, dedicated for rail applications			
Cameras				
Front camera	24MP, horizontal mounting, self-calibrating			
Rear camera	24MP, horizontal mounting, self-calibrating			
Butterfly side cameras	2 x 24MP, horizontal or vertical mounting, self-calibrating			
GNSS				
Second GNSS antenna	Leica AS11 GNSS antenna for faster initialisation by more accurate heading			
Upgrade	Upgrade from TRK500 to TRK700 available			
Customer Care Packages	Various multi-year CCPs covering support, hardware and software maintenance, extended warranty, re-calibrations and loan units are offered			
Software	TRK500 Neo	TRK700 Neo	TRK500 Evo	TRK700 Evo
Leica Pegasus FIELD	Multi-lingual browser-based interface, accessible by Wi-Fi or cable, mission plannir			

Leica Pegasus OFFICE

Post-processing software, project management, trajectory refinement, point cloud classification and anonymisation, feature extraction and data export

project management, autonomous data acquisition, real-time anonymisation, pre-



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- 1 Root mean square with DMI on Leica Geosystems reference
- area 1-sigma, valid for all pulse rates 1-sigma range noise at 50 m distance for 80% reflective 2 3

processing and remote support

- 4 5
- targets scanned at a pulse rate of 1MHz Global Navigation Satellite System Simultaneous Location And Mapping (SLAM) technology
- 6 Distance Measurement Instrument

Integrate with LOC8 - Lock & Locate

For more information visit: leica-geosystems.com/LOC8

7 Real-Time Kinematic

- 8
- Not available in all geographical regions. Results based on a typical configuration. May vary according to configuration, environmental, and battery 9 conditions.

For further details about scanners' specifications please refer to the technical datasheet available by the suppliers.



- when it has to be **right**