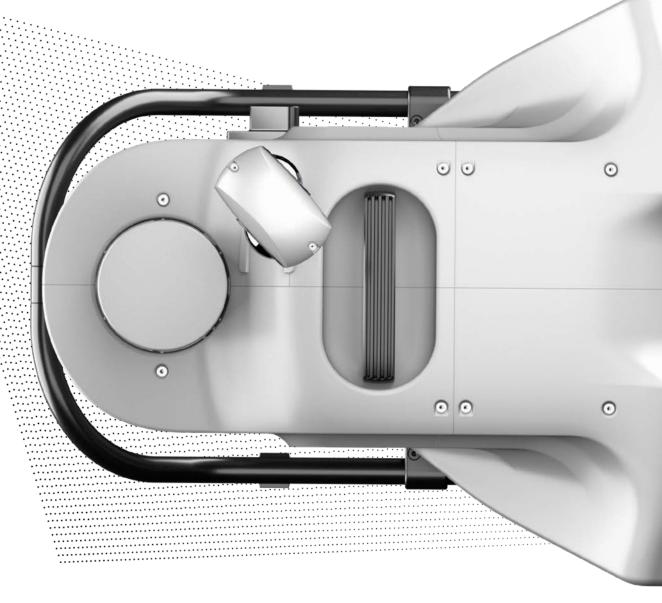
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Leica Pegasus TRK Neo & Evo Data Sheet

Autonomous. Intelligent. Simplified.





System Performance	TRK Neo		TRK Evo		
Absolute accuracy¹ in [X,Y], [Z]	No GNSS outage	60 sec GNSS outage	No GNSS outage	60 sec 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	
Effective measurement rate	500kHz	1000kHz	1000kHz	2000kHz	
Scan speed	Up to 250Hz	Up to 500Hz	Up to 267Hz	Up to 534Hz	
Precision	TRK Neo 3mm		TRK Evo 1mm		
Maximum range 50% reflectivity at 200kHz / 500kHz	490m / 250m				
Maximum range 10% reflectivity at 200kHz / 500kHz	205m / 130m		182m		
Number of returns	Up to 4		1		
Minimum range	1.5m		0.3m		
Field-of-view	360° full circle	360° full circle		360° full circle	
Laser class	Class 1, eye safe	Class 1, eye safe		Class 1, eye safe	
Camera					
Maximum system resolution	120MP powered by	SmartFuse technolog	У		
Туре	360° Panorama	Butterfly Side	Pavement	Front	
Resolution	24MP	48MP	24MP	24MP	
Mounting	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 fps				
Anonymisation	Natively AI based, real-time blurring; fully compliant to GDPR				
Colour calibration	According to CIEDE2000				
	Real-time, fully auto	matic			
Brightness control					
Brightness control Positioning	Treat time, rany date				
		constellation, multi-free	quency		
Positioning	555 channel, multi-c	constellation, multi-freen	<u> </u>		
Positioning _{GNSS}	555 channel, multi-c		ntenna support	enging conditions	
Positioning GNSS Antenna	555 channel, multi-c	n additional second ar	ntenna support	enging conditions	

Remote Services						
Theft deterrence ²		Built-in LOC8 theft deterrence and location solution for remote tracking, localisation and locking by mobile phone or computer				
Support	Remote in-field sup	Remote in-field support access				
Power Supply						
Туре	Vehicle independer	Vehicle independent				
	Hot-swappable, up	Hot-swappable, up to 3 x Li-lon Pegasus battery units				
Interface	Ruggedised, IP54, health monitoring	Ruggedised, IP54, industrial grade, 2.4 inch colour LCD displaying real-time battery health monitoring				
	TRK500 Neo	TRK700 Neo	TRK 500 Evo	TRK700 Evo		
Operating time (typical)	7h / battery unit	6h / battery unit	3.5h / battery unit	2.5h / battery unit		
Transport	Transportation mod	de for ground and aircra	aft shipping			
	Fully compliant to c	dangerous goods UN 34	480/3481			
Control Unit						
Туре	Ruggedised, IP54,	Ruggedised, IP54, industrial grade, multi-core PC with built-in machine learning chip				
	5.0 inch colour and touch LCD displaying live battery health monitoring					
Interface	5.0 inch colour and	touch LCD displaying l	live battery health me	onitoring		
Interface Real-time capabilities		touch LCD displaying l	live battery health m	onitoring		
Real-time capabilities	Data pre-processin	<u> </u>	<u> </u>	-		
Real-time capabilities Data storage Environmental characteris	Data pre-processin 2 x 2TB or 2 x 3.8T	g and AI based tasks	<u> </u>	ce, removable SSDs		
Real-time capabilities Data storage Environmental characteris tics	Data pre-processin 2 x 2TB or 2 x 3.8T	g and AI based tasks	m to high performand	ce, removable SSDs		
Real-time capabilities Data storage Environmental characteristics Maximum speed	Data pre-processin 2 x 2TB or 2 x 3.8T TRK500/700 Neo	g and AI based tasks	m to high performand	ce, removable SSDs		
Real-time capabilities Data storage Environmental characteristics Maximum speed Temperature range operating	Data pre-processin 2 x 2TB or 2 x 3.8T TRK500/700 Neo 130km/h	g and AI based tasks	TRK500/700 E	ce, removable SSDs		
Real-time capabilities Data storage Environmental characteristics Maximum speed Temperature range operating Temperature range storage	Data pre-processin 2 x 2TB or 2 x 3.8T TRK500/700 Neo 130km/h -10°C to +50°C -20°C to +50°C IP67 during operation	g and AI based tasks	TRK500/700 E 130km/h -10°C to +50°C -20°C to +50°C	ce, removable SSDs		
Real-time capabilities Data storage Environmental characteristics Maximum speed Temperature range operating Temperature range storage IP rating	Data pre-processin 2 x 2TB or 2 x 3.8T TRK500/700 Neo 130km/h -10°C to +50°C -20°C to +50°C IP67 during operati withstands tempora water	g and Al based tasks B, real-time data strear	TRK500/700 E 130km/h -10°C to +50°C -20°C to +50°C	vo		
Real-time capabilities Data storage Environmental characteristics Maximum speed Temperature range operating Temperature range storage IP rating	Data pre-processin 2 x 2TB or 2 x 3.8T TRK500/700 Neo 130km/h -10°C to +50°C -20°C to +50°C IP67 during operati withstands tempora water	g and Al based tasks B, real-time data strear on, fully dust tight and ary immersion under	TRK500/700 E 130km/h -10°C to +50°C -20°C to +50°C	ce, removable SSDs		
Real-time capabilities Data storage Environmental characteristics Maximum speed Temperature range operating Temperature range storage IP rating	Data pre-processin 2 x 2TB or 2 x 3.8T TRK500/700 Neo 130km/h -10°C to +50°C -20°C to +50°C IP67 during operati withstands tempora water	g and Al based tasks B, real-time data strear on, fully dust tight and ary immersion under	TRK500/700 E 130km/h -10°C to +50°C -20°C to +50°C	vo		
Real-time capabilities Data storage Environmental characteristics Maximum speed Temperature range operating Temperature range storage IP rating Shock and vibration	Data pre-processin 2 x 2TB or 2 x 3.8T TRK500/700 Neo 130km/h -10°C to +50°C -20°C to +50°C IP67 during operati withstands tempora water Withstands 4g shoot	g and Al based tasks B, real-time data strear on, fully dust tight and ary immersion under cks, ISO9022, MIL-STD	TRK500/700 E 130km/h -10°C to +50°C -20°C to +50°C IP65 IP66 with	vo n protection cap		

improving accessibility and ergonomics by reducing 36cm the mounting height

Accessories and Options DMI

(Distance	Measurement	Instrument)
(Distance	IVICASUI CITICITE	III SU UIII CIII

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Mechanical DMI	Mechanical wheel odometer for road applications
Optical DMI	Optical odometer, for road applications compliant to various "Motor Vehicle Safety Regulations" and occasional rail use.
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	48MP, 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

Pegasus FIELD

Multi-lingual browser-based interface, accessible by Wi-Fi or cable, mission planning, project management, autonomous data acquisition, real-time anonymisation, preprocessing and remote support

Cyclone Pegasus OFFICE

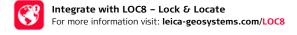
Post-processing software, project management, trajectory refinement, point cloud classification and anonymisation, feature extraction and data export



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

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- One sigma with DMI on Leica Geosystems reference area.
- Not available in all geographical regions.





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