Leica Geosystems Mobile Mapping Systems Comparison Sheet



PEGASUS TRK100



PEGASUS TRK Neo



PEGASUS TRK Evo

The Leica Pegasus TRK product family is characterised by autonomy, intelligence and simplicity. Autonomous data capture and collection, transforming mobile mapping and delivering confidence. Intelligent sensor and imagery system, enhanced with AI and SmartFusion technology, delivers rich immersive point cloud detail with greater data accuracy. Simplified system set-up, operation workflows, and application of the mobile mapping system expands business opportunities for all.

The Leica Pegasus TRK100 is a powerful, easy-to-use geospatial tool built for largescale infrastructure measurement and digital twin creation. GIS professionals can now collect data and capture asset information quickly and autonomously to map, know and see what is where and make decisions that will bring transformation to their business.

For survey solution providers, the Leica Pegasus TRK Neo mobile mapping solution will take you to new levels of data accuracy and operational efficiency, objects like powerline can be collected with confidence. Expand your mobile mapping applications and reduce project costs. The Leica Pegasus TRK Evo captures rail tracks at greater point cloud density with surgical precision to unveil track geometry misalignment. Capturing at 1mm precision delivers confidence for critical clearance measurements. Extended data collection in GNSS challenging canyons or tunnels is boosted with GNSS-agnostic SLAM technology and dedicated rail odometers.

Application	TRK100	TRK Neo	TRK Evo
SURVEY			
ENGINEERING			
RAIL			
ASSETS			
AUTONOMOUS			
MODELLING			
MINING			
MARINE			
Features			
ABSOLUTE ACCURACY			
SCANNER PRECISION			
RANGE			
DENSITY			
ROAD SIGN REFLECTION			
OPERABILITY			
PROTECTION			
WEIGHT			

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Absolute accuracy/ in [X,Y], [Z] No GNSS Dutage 69 acc GNSS outage No GNSS outage K0 acc GNS outage K0 GNS outage <th></th> <th>9.</th> <th></th> <th></th> <th></th> <th></th> <th></th>		9.							
Peak processing19mm, 11mm39mm, 16mm11mm, 11mm14mm, 16mm11mm, 11mm14mm, 16mmRTK21mm, 13mmTRK109TRK30 NooTRK20 NooTRK20 SoTRK20 SoSensorTRK109TRK30 NooTRK20 NooTRK20 SoTRK20 So20004/r </th <th>System Performance</th> <th>TR</th> <th>K100</th> <th>TR</th> <th>K Neo</th> <th>TF</th> <th>RK Evo</th>	System Performance	TR	K100	TR	K Neo	TF	RK Evo		
RTK 2 trans, 13mm 12mm, 12mm 12mm, 12mm Scanner TRK 100 TRK 200 Noo TRK 200 Noo TRK 200 Noo TRK 200 Noo Scanner 1000 H2z 2000 H2z Up to 550 H2 Up to 550 H2 <td>Absolute accuracy¹ in [X,Y], [Z]</td> <td>No GNSS Outage</td> <td>60 sec GNSS outage</td> <td>No GNSS outage</td> <td>60 sec GNSS outage</td> <td>No GNSS outage</td> <td>60 sec GNSS outage</td>	Absolute accuracy ¹ in [X,Y], [Z]	No GNSS Outage	60 sec GNSS outage	No GNSS outage	60 sec GNSS outage	No GNSS outage	60 sec GNSS outage		
ScennerTRK 100TRK 500 NeoTRK 700 NeoTRK 700 EvoEffective measurement ratio8004rtz5004rtz10004rz2000	Post-processing	19mm, 11mm	39mm, 16mm	11mm, 11mm	14mm, 16mm	11mm, 11mm	14mm, 16mm		
Effective measurement rate 0004Hz 5004Hz 10000Hz 10000Hz 0000Hz 000Hz 00HZ	RTK	21mm, 13mm		12mm, 12mm		12mm, 12mm			
Scan speed 20Hz per scanner Up to 250Hz Up to 50Hz Up to 267Hz Up to 50Hz Up to 267Hz Up to 50Hz Advantanta range'' Up to 267Hz Up to 50Hz Up	Scanner	TRK100		TRK500 Neo	TRK700 Neo	TRK500 Evo	TRK700 Evo		
Maximum range 100m 490m 182m Minimum range 0.4m 1.5m 0.3m Hidinmum range 0.4m 1.5m 0.3m Elde Orlwer 30° (rk 15°) 30° Lid orde 00m I Laser class Class 1, eye safe Class 1, eye safe Class 1, eye safe Chron 120MP powered by SmartFuse technology Fornt Fornt Maximum system resolution 24MP 48MP 24MP Fornt Resolution 24MP 48MP 24MP J I Second Antenna J J I I I Second Antenna J J J I I Second Antenna J J I I I Statu X J I I I Statu J J I I I Statu J J I I <td< td=""><td>Effective measurement rate</td><td colspan="2">600kHz</td><td>500kHz</td><td>1000kHz</td><td>1000kHz</td><td>2000kHz</td></td<>	Effective measurement rate	600kHz		500kHz	1000kHz	1000kHz	2000kHz		
Minimum range 0.4m 1.5m 0.3m Bield-Ar/wew 30° (r/- 15°) 300° full circle 300° full circle Laser class Class 1, eye safe Class 1, eye safe Class 1, eye safe Camera 120MP powere by SmartFulse technology Two Class 1, eye safe Maximum system resolution 360° Panorans Buterfy Side Pavement For. Resolution 24MP 48MP 24MP 24MP Pesitioning TRK 100 TRK Noo TRK Evo Scand Antona √ √ √ Scand Antona √ √ √ √ StAM X √ √ √ √ Binersions TRK 100 TRK 500 Neo TRK 500 Tevo TRK 700 Fevo Dimensions [L/Wrift] 70 33 / 48cm 70 / 33 / 58cm 72 / 46 / 58cm 72 / 46 / 58cm Poser Suppl Takk 500 Neo TRK 700 Neo TRK 500 Fevo 72 / 46 / 58cm Dimensions [L/Wrift] 70 / 33 / 58cm 72 / 46 / 58cm 72 / 46 / 58cm	Scan speed	20Hz pe	er scanner	Up to 250Hz	Up to 500Hz	Up to 267Hz	Up to 534Hz		
Field-of-view 30° (vi. 15') 380° full circle 380° full circle Laser class Class 1, eye safe Class 1, eye safe Class 1, eye safe Conora 120MP powered by SmartFuse technology Tree safe Tree safe Maximum system resolution 260° Paorenant Butterfty Side Pavernent Front Resolution 260M Paorenane Butterfty Side Pavernent Front Second Antenna 4MAP 4MAP 7 TRE vo Second Antenna √ √ √ Second Antenna √ √ √ √ Second Antenna √ √ √ √ Second Antenna √ √ √ √ Second Antenna √ √ √ √ Second Antenna √ √ √ √ Second Antenna √ √ √ √ Second Antenna √ √ √ √ Diff 71/30 / 80m 72 / 46 / 80m 70 / 33 / 80m 72 / 46 / 80m Diff 16 kg 23 kg 21 kg 28 kg Power Supply 16 kg 18 kg 23 kg 18 kg Vehicle Typa Y Y<	Maximum range*	10	100m		490m		182m		
Laler class 1, eye safe Class	Minimum range	0	.4m	1	1.5m		0.3m		
Camera 120MP powered by Smart Fuse technology Maximum system resolution 120MP powered by Smart Fuse technology Type 360° Panorama Butterfly Side Pavement Front Resolution 24MP 24MP 24MP Positioning TRK 100 TRK Neo TRK Evo GNSS V V V Sacond Antenna V V V Stand V V V DMI V V V DMI V V V DImensions TRK 100 TRK 500 Neo TRK 700 Neo TRK 700 Evo Dimensions [LWH1] TRK 100 TRK 500 Neo TRK 700 Evo TRK 700 Evo Dimensions [LWH1] TRK 100 TRK 500 Neo TRK 700 Neo TRK 700 Evo Power Supply Ruggedised, P54, industrial grade, 24 inch cobur LCD displaying real-lime battery health monitoring Vehicle Independent Operating time TRK 100 TRK 500 Neo TRK 500 Neo TRK 500 Evo TRK 500 Evo Brithzer Supply Text 100 TRK 100 TRK 500 Neo TRK 500 Evo TRK 500 Evo Brithzer Supply Text 100 TRK 100 TRK 100 TRK 500 Neo TRK 500 Evo Brithzer S	Field-of-view	30° (·	30° (+/- 15°)		360° full circle		360° full circle		
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DMI \checkmark \checkmark RTK \checkmark \checkmark DimensionsTRK100TRK500 NeoTRK700 NeoTRK500 EvoTRK700 EvoDimensions [L/W/H]70 / 33 / 49cm70 / 33 / 56cm72 / 46 / 56cm70 / 33 / 56cm72 / 46 / 56cmWeight14 kg18 kg23 kg21 kg29 kgPower SupplyInterfaceHot-swappable, up to 3 x Li-lon Pegasus battery unitsRuggedised, IP54, Industrial grade, 2.4 inch colour LCD displaying real-time battery health monitoringVehicle independentOperating timeTRK100TRK500 NeoTRK700 NeoTRK500 EvoTRK100TRK500 NeoTRK700 NeoTRK500 EvoTRK500 EvoTRK700 EvoBrivionmental Chattery unit3.5h / battery unit2.5h / battery unitTRK100TRK NeoTRK EvoIP67IP67IP67IP67IP67IP67IP67IP67IP67IP67IP67IP67IP67Colspan="4">Colspan="4">Clameras24/MP SmartFusion ImageryFront camera24/MP SmartFusion ImageryIP67IP67IP67IP67IP67IP67IP67	Second Antenna		\checkmark		√		\checkmark		
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Weight 14 kg 18 kg 23 kg 21 kg 29 kg Power Supply Interface 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 Vehicle independent Interface	Dimensions	TR	K100	TRK500 Neo	TRK700 Neo	TRK500 Evo	TRK700 Evo		
Power Supply Interface Int	Dimensions [L/W/H]	70 / 33	3 / 49cm	70 / 33 / 56cm	72 / 46 / 56cm	70 / 33 / 56cm	72 / 46 / 56cm		
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360° Panorama (24MP) √ Anonymisation √ GNSS ✓	Side cameras								
Anonymisation \checkmark GNSS	360° Panorama (24MP)								
GNSS	Anonymisation		\checkmark						
	GNSS								
	Second GNSS antenna		Leica AS11 GNSS antenna for faster initialisation by more accurate heading						

* Maximum range depending on target reflectivity and scan speed

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