Leica Infinity
Infinitely connected

NEW PERSPECTIVES FOR YOUR PROJECT

Discover a new dimension in survey office software. Leica Infinity not only allows you to process complex structures with absolute precision, it is above all your key to simple access to the worlds of 3D data processing. Three-dimensional data sets recorded in the field – and even multiple scans – can now be displayed on your desktop, edited more rapidly than ever before and integrated with other survey results – for faster decisions in projects.

NOTHING BEATS ANOTHER CHECK

Leica Infinity is designed to provide you with instant access to all aggregated raw data at all times and lets you combine and cross-check them against processed or archived data and survey results with only a couple of clicks. Your survey crews in the field are kept on the ball by data transfer when it comes to expanding or reducing the survey schedule, response times and decisions are made faster and bring new levels of project-efficiency.

REPORT AND ARCHIVE YOUR RESULTS

No matter how complex your survey is, it is important to be aware for the state of the project. Leica Infinity offers you all the tools to document and report on individual steps and final results, no matter for how long your project lasts. All your data, processed results and deliverables are contained in your project and are accessible whenever you need. For more transparency of the decisions you have taken.

PART OF HEXAGON

- when it has to be **right**

Leica Geosystems

Leica Infinity Office Software

MODULE	FEATURE
Home (Infinity Basic)	Field to office workflows including survey, stakeout data reporting and processing results
	Data Import: DBX, ASCII, HeXML/XML, SkiASCII, RINEX, DXF/DWG, SHP, PTS/PTX, PLY, e57 LAS/LAZ, IFC, IFCZIP, ifcXML
	Data Export: DBX, ASCII, HeXML/XML, SkiASCII, RINEX, DXF/DWG, SHP, KML/KMZ, PTS, e57, LAS/LAZ
	Integrated services to access maps, image tiles and feature data including Hexagon Imagery Program
	Integrated services Leica eXchange, Leica ConX to send and receive field data for surveyors and machine control
Features (Infinity Basic)	Field to office workflows with automated feature code processing with blocks and line styles
	Feature coding tools to create and edit thematic information including 2D/3D symbols, defining features for CAD
	Create or manage points, lines, areas from user created data, from point clouds, images or from field collected data
	Coordinate geometry calculations for creating or checking project data
Processing TPS (Optional)	TPS station setup tools – create or edit TPS stations for orientation and position updates
	TPS measurement tools for computing and reducing field observations
	Traverse adjustments – build or edit field generated results and automatically update connected measurements
Processing GNSS (Optional)	State of the art multi frequency processing of GNSS static and kinematic observation data including events
	Advanced GNSS data analysis tools for viewing cycle slips, SNR, and residual plots with statistics
	Connect to HxGN SmartNet reference networks for direct RINEX download
Processing Level (Optional)	Level line tools, define start and end points, join or split lines
	Process level lines – generate reports, edit or reprocess in the office including staff corrections
	Network adjustments 1D – support for complete levelled height networks
Surfaces (Optional)	Full 3D surface computation from individual points and point clouds
	Surface tools to constrain and manage the surface mesh
	Precise volume calculation, surface to surface height comparisons, generate out of tolerance areas for staking
Scanning (Optional)	Create scan groups for organising and working with point clouds
	Point cloud measurements for comparison and checks
	Point cloud cleaning tools, use clipping planes to simplify areas to work in point clouds
Imaging Basic (Optional)	Manage image data using integrated image viewer for sorting and organising by groups and features
	Compute Points from Images taken from total station and GNSS sensor
Imaging Point Clouds (Optional)	Process images to derive project data including point clouds, digital surface models and orthophotos
	Fully integrated with GNSS and terrestrial data including use for control points, check and quality reports
	Generate point, line, area features with thematic coding and compute volumes and cut fill maps
Adjustments (Optional)	Network adjustments – free or constrained network computations of all observations
	Full 3D, 2D and 1D computations and ability to combine 2D + 1D
	Compare / manage network runs before storing the best possible set of consistent coordinates
Infrastructure (Optional)	Import, visualise, repair and organise road design data including centre line, string lines and material surfaces
	Document and report on all field applications including stakeout and checks with tolerance flags
	Manually input road data and compute daylight string lines and generate material surfaces for machine control

SYSTEM RECOMMENDATIONS

Operating System	Windows 8, Windows 10 - 64 bit		
Input	Keyboard, mouse with wheel		
Hardware	Minimum	Recommended	Recommended Image Processing
Display	1024 × 768	Dual 1900 × 1280	Dual 1900 × 1280
Processor	Dual core 1.8 GHz	Multi-Core 2.4 GHz or better	Multi-Core 3.5GHz or better
RAM	4 GB	32 GB or greater	64 GB or greater
Disk storage	50 GB	256 GB or greater	1TB SSD or greater
Graphics	Direct X9 compatible		
	512 MB	4 GB	8 GB NVIDIA CUDA capable

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