

# Leica Infinity

## The bridge between field and office



### 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.

# Leica Infinity Office Software

MODULE	FEATURE
<b>Home</b> (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
<b>Features</b> (Infinity Basic)	Field to office workflows with automated feature code processing with blocks and styles Feature coding tools to create and edit thematic information including 2d/3d symbols, define features for CAD Create or manage points, lines, areas from user created data, from point clouds or from field data Coordinate geometry calculations for creating or checking project data
<b>Processing TPS</b> (Optional)	TPS station setup tools – create or edit TPS stations for orientation and position updates TPS sets of angles / reduced measurements tools to support further point calculations Traverse adjustments – build or edit field generated results and automatically update connected measurements
<b>Processing GNSS</b> (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 Leica SmartNet reference networks for direct RINEX download
<b>Processing Level</b> (Optional)	Manage level lines – edit lines, 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
<b>Surfaces</b> (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
<b>Scanning</b> (Optional)	Create scan groups for organising and working with point clouds Point cloud measurements for comparison and checks Point cloud cleaning tools
<b>Imaging Basic</b> (Optional)	Manage image data using integrated image viewer for sorting and organising by groups and features Compute Points from Images taken from TPS stations
<b>Imaging Point Clouds</b> (Optional)	Process UAV 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
<b>Adjustments</b> (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
<b>Infrastructure</b> (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

## SYSTEM RECOMMENDATIONS

Operating System	Microsoft Windows 7, Windows 8, Windows 10 - 32 / 64 bit	
Hardware	Minimum	Recommended
Display	1024 × 768	Dual 1900 × 1280
Input	Keyboard, mouse with wheel	
Processor	Dual core 1.8 GHz	Multi-Core 2.4 GHz or better
RAM	2 GB	8 GB or greater
Disk storage	5 GB	500 GB or greater
Graphics	Direct X9 compatible	
	512 MB	Discrete Graphics 2 GB or greater

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