

# Leica Infinity

## The bridge between field and office



### NEW PERSPECTIVES FOR YOUR PROJECT

Discover a new dimension in surveying of-office software. Leica Infinity not only allows you to process complex structures with absolute precision, it is your ultimate 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 on the job.



### 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 in the loop by data transfer when it comes to expanding or reducing the survey schedule, and 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 of the state of the project. Leica Infinity offers you all the tools to document and report on individual steps and final results, no matter how long your project lasts. All your data, processed results and deliverables are contained in your project and are accessible whenever you need them, for increased transparency in your decision-making process.

# Leica Infinity Office Software

## GENERAL COMPONENTS

Data and Project Management	Fast and powerful database to automatically manage points, lines, areas, plus images, scans and measurements from various instruments. Provides access to raw data structures and stores application objects and results.
Data Import	SmartWorx raw data, LandXML, ASCII, DXF/DWG, Shapefile format.
Data Export	SmartWorx jobs, LandXML, HexML, ASCII, point cloud data in E57 or PTS format.
3D Viewing	Powerful 3D view in central working area for simple navigation within complex data structures.
Editing	Intuitive editing functionality to query and clean up data before processing or exporting.
Reporting	Modern reports for documenting processed results, which can be archived within the project.

## FEATURE CODE PROCESSING

Code Manager	Global Code Manager application to define code tables, which are used to create code lists for onboard use or which can be attached to Infinity projects.
Feature Code Processing	Clean up thematic data inside a project, interpret styles according to the attached code table and manage new Field Codes imported from raw data. Preview symbols and styles that will be used during export to CAD.

## DATA PROCESSING OPTIONS

TPS Data Processing	Define or recalculate TPS setups to update station coordinates and orientations. Define sets of angles and compute reduced observation for further calculations. Build traverses, verify results and automatically update connected measurements.
3D Network Adjustment	Combine of all measurements in a least-squares network adjustment to obtain the best possible set of consistent coordinates. Free or constrained network computations. Outlier detection and extensive statistical testing. Archiving of computation results.
Surfaces	Create surfaces from individual points or scans. Calculate volumes.
Scanning	Edit point cloud data, with tools to automatically clean up and filter scans. Color modes (RGB, Intensity, SNR) for visualization and quality control. Build scan groups to be used for surface calculations or for export to E57, HexML or PTS formats.
Imaging	Database component to archive all images stored with your data. Link and unlink images to objects in your project.

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