

Leica Infinity

Your indispensable bridge
between field and office



Data-processing powerhouse

Leica Infinity – the geospatial office software built for Leica instruments – provides a seamless workflow between field and office to ensure quality at each work phase and improve your overall productivity. And now Infinity reaches a new milestone with its latest release, Leica Infinity 4.0 which can process data from digital levels, total stations, GNSS sensors and now even scanners, making it your indispensable bridge between field and office.



Infinitely connected

Leica Infinity 4.0 is the only true, one-bridge solution between Leica field instruments and CAD software. Stay infinitely connected and keep projects moving with fast accessibility, seamless data transfer and a user-friendly interface that will give you greater traceability and control. Leica Infinity 4.0 also enables faster project overview with 3D, multiple-perspective viewing and a clean, consistent look and feel across all modules.



Collect. Verify. Report.

Leica Infinity 4.0 easily processes data from multiple sites and survey teams and different instrument types. Edit, archive and export directly to CAD applications. You rely on Leica Geosystems instruments every day. Now you can rely on the software solution that connects all of your Leica Geosystems instruments and allows you to collect, verify and report all survey and stake out data in one easy-to-use platform.

Leica Infinity Office Software - Basic

COORDINATES

Compute Project Coordinates
Coordinate Systems Manager
Transform Local Grid to Local Grid

COGO FUNCTIONALITY

Measure Point to Point
Compute Point (COGO)
COGO Report
Shift/Rotate/Scale
Shift/Rotate/Scale Report

SURVEY & STAKEOUT

Import Stakedpoints Results
Stakeout Report
Checked Points Report
Import Reference Line Results & Report
Import Staked & Checked Infrastructure
Staked & Checked Infrastructure Report

Import Field Data Results
Data Source Report
Create Point, Station, Observation

FEATURES PROCESSING

Code Table Manager
Import/Export/Create Codelists
Assign Blocks, Layers & Linestyles
Copy Features & Layers from CAD
Create features: Lines, Splines, Arcs & Areas

IMAGES

Link/Unlink Images
Georeference Images

TOOLS

Rename Features Tool
Satellite Availability Tool
GNSS Reference Station Download
Precise Ephemeris Download
Antennas Manager
Targets Manager
Layer Manager
Localisation Tool

MAP SERVICES

Esri World Imagery
Clip Base Map
Feature Info
Get Feature
Google Earth Export

SERVICES

Leica Exchange
Leica ConX
Leica JetStream
HxGN SmartNet
Leica Spider X - pos
Hexagon Imagery program
Open Street Map
Map Services WFX, WMS, WMST
ArcGIS Online
Portal for ArcGIS

Bricsys 24/7
Autodesk BIM 360
Bentley ProjectWise
Procure
vGIS

IMPORT

SmartWorx Viva, Captivate Job - DBX
GNSS data - Rinex, JOB, ION, SP3
Level Data - LEV, GSI
Observation Data - GSI, RAW, RW5
HEXML/LandXML - XML
Coordinate Systems - DAT, LOC, DC, CAL
Zeno Mobile - ZIP
Aibot - UAV
LGO Project /CSYS
ASCII
SKI ASCII - ASC
Images - JPG, PNG, TIFF, PDF
Georeferenced Images - JPG, PNG, TIFF

DJI GNSS Flight Data - DJI
BLK360 Images Group - BLK360
Point Clouds - PTS, PTX, LAS, LAZ, E57, XYZ, SDB
CAD Data - DXF, DWG, DGN
BIM-IFC
ESRI - SHP, Geodatabase
GeoJSON
Geo Viewer - KML, KMZ
InfraGML - XML
NILIM - XML
Trimble - TTM, JXL
NGS - GVX
NGS - DSDATA

EXPORT

SmartWorx Viva, Captivate Job - DBX
SmartWorx, System 1200, GPS 900 - DBX
iCON field
ASCII
HeXML - XML
GSI
AutoCAD - DXF, DWG
ESRI - SHP
ESRI File Geodatabase - GDB
Zeno Data Model - GDB
Point Clouds - PTS, PTX, LAS, LAZ, E57, LGS, PLY, PTG
Export data using stylesheet
Coordinate Systems
Geo Viewer - KML, KMZ
Images - JPG, PNG, TIFF, GeoTIFF
Georeferenced DEM - TIFF, GeoTIFF
GNSS raw data - RINEX
SKI ASCII - ASC
Aibotix AiProFlight
GeoMos Now!
Ellipse neo
NGS Blue Book - B and G Files
NGS - GVX
Pregeo
Bentley - FWD

Leica Infinity Office Software - Options

- Survey Basic
- Survey Advanced
- Engineering
- Point Clouds from Images
- Point Clouds Registration

PROCESSING TPS

Traverse	●
Sets of Angles	●
Foresights	●
Update Stations	●
Processing Reports	●

PROCESSING GNSS

Single Frequency Data Processing (L1)	●
Multifrequency Data Processing (L1, L2, L5)	●
Multiconstellation Data Processing (GPS GLO GAL BEI QZSS)	●
Static & Kinematic Processing	●
Manual & Automatic Processing	●
Data Analysis Tools	●
Observations Residuals	●
Positions Residuals	●
Interactive Analysis Charts	●
Processing Reports	●

PROCESSING LEVEL

Adjust	●
Join	●
Split	●
Height Observation	●
Add TP to Library	●
Level Reports	●

IMAGING - MEASURE POINTS IN IMAGES

New Image Group	●
Add To Image Group	●
Remove From Image Group	●
Calculate Point From Images	●

ADJUSTMENT 1D

Compute Loops 1D	●
Run-Pre Analysis 1D	●
Processing Reports	●
Adjustment 1D	●

PROCESSING GNSS

Single Frequency Data Processing (L1)	●
Multifrequency Data Processing (L1, L2, L5)	●
Multiconstellation Data Processing (GPS GLO GAL BEI QZSS)	●
Static & Kinematic Processing	●
Manual & Automatic Processing	●
Data Analysis Tools	●
Observations Residuals	●
Positions Residuals	●
Interactive Analysis Charts	●
Processing Reports	●

ADJUSTMENT 1D

Compute Loops 1D	●
Run-Pre Analysis 1D	●
Processing Reports	●
Adjustment 1D	●

ADJUSTMENT 3D

Compute Loops 1D, 2D, 3D	●
Run-Pre Analysis 1D, 2D, 3D	●
Adjustment 1D, 2D, 3D	●
Processing Reports	●

SURFACES & VOLUMES

New Surface: Refined, Regular, Interpolated, 2.5D	●
Surface Report	●
Add/Remove	●
Contour	●
Cut Fill Map	●
Cut Fill Map Report	●
Comparison Map	●
Comparison Map Report	●
Trim Triangles	●
Remove Vertices	●
Fill Holes	●
Volumes - Stockpile, To Point, To Height	●
Volumes - Surface To Surface	●

● Survey Basic

● Survey Advanced

● Engineering

● Point Clouds from Images

● Point Clouds Registration

POINT CLOUDS

New Point Cloud Group	●
Add To Point Cloud Group	●
Remove From Point Cloud Group	●
Clean Point Cloud	●
Reduce Point Cloud	●
Delete Points from Point Clouds	●
Colour Mode	●
Filter Point Cloud	●
Clip Plane, Slice or Box	●
Reset Clip	●
Toggle Clip	●

INFRASTRUCTURE

Create Vertical & Horizontal Alignment	●
Create Cross Section	●
Create Material Layer	●
Create Material Surface	●
Create Road Object	●
Link & Unlink Cross Sections	●
Extract, Update, Mirror	●
Add Points Of Interest To Library	●

IMAGING - MEASURE POINTS IN IMAGES

New Image Group	●
Add To Image Group	●
Remove From Image Group	●
Calculate Point From Images	●

IMAGING - POINT CLOUDS FROM IMAGES

Orientate Image Groups	●
Create Dense Point Cloud	●
Create a Digital Surface Model & Orthophoto	●
Add Control Points	●
Optimise	●
Filter Dense Point Cloud (DPC)	●
Processing Reports	●

POINT CLOUDS REGISTRATION

Import RTC 360 & BLK 360	●
Autocloud Import	●
Auto Black/White Targets Extractions	●
Visual Alignment	●
Create & Delete Virtual Targets	●
Match Targets	●
Apply Controls	●
Create Unified Point Cloud (UPC)	●
Site Map View	●
Setup View	●
Scan Group View	●
Assign Technical Points to Targets	●
Downsampling	●

SYSTEM RECOMMENDATIONS

Operating System	Windows 8, Windows 10 - 64 bit
Input	Keyboard, mouse with wheel

HARDWARE

	Minimum	Recommended TPS, GNSS, Level processing	Recommended Image processing, Scan registration
Display	1024 × 768 px	Dual 1920 × 1280 px	Dual 1920 × 1280 px
Processor	Multi-core 2.4 GHz	Multi-Core 3.5 GHz or better	8 core 3.5 GHz or better
RAM	8 GB	32 GB or more	128 GB or more, XMP enabled
Disk Storage	100 GB	SSD of 1 TB or more	SSD of 2 TB or more
Graphics	Direct X9 compatible	Direct X11 compatible	Direct X11 compatible
	512 MB	4 GB or more, CUDA capable	8 GB or more, CUDA capable

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- when it has to be **right**

