

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 which can process data from digital levels, total stations, GNSS sensors and even scanners, making it your indispensable bridge between field and office.



Infinitely connected

Leica Infinity 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 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 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 - Core

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

HxGN Content 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

◆ Advanced Survey

● Engineering

▨ Infrastructure

▾ 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)	■
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

◆ Advanced Survey

● Engineering

▨ Infrastructure

▾ 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 Road Object	▨
Create Road Material Layer	▨
Create Road Material Surface	▨
Edit, Link & Unlink Cross Sections	▨
Extract, Update, Mirror Cross Section	▨
Create Checked & Staked Road Report	▨
Create Tunnel Object	▨
Create Tunnel Profile	▨
Create Tunnel Section	▨
Assign Rotation Table	▨
Create Checked & Staked Tunnel Report	▨
Extract, Mirror Tunnel Profile	▨
Create Tunnel Profile from CAD	▨
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 RTC360 & BLK360	▴
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
Motherboard	PCIe 3 or greater	PCIe 4 or greater	PCIe 5
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	Octa-core 3.5 GHz or better
RAM	64 GB	2 GB or more	128 GB or more, XMP enabled
Disk Storage	100 GB	SSD of 2 TB or more	SSD of 2 TB or more
Graphics	Direct X9 compatible	Direct X12 compatible	Direct X12 compatible
	512 MB	8 GB or more, CUDA capable	16 GB or more, CUDA capable

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- when it has to be **right**

