Leica Infinity
Your indispensable bridge between field and office

infinity

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.

- when it has to be **right**

Leica Geosystems

Leica Infinity Office Software - Core

MAP FEATURES
Base Maps
Clip Base Map
Feature Info
Get Feature
Google Earth Export

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

SURVEY & STAKEOUT
Import Staked points Results
Import Reference Line Results
Import Staked & Checked Infrastructure
Import Field Data Results
Create Point, Station, Observation

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

FEATURES PROCESSING
Code Table Manager
Import/Export/Create Codelists
Assign Blocks, Layers & Linestyles
Copy Features & Layers from CAD
Create features: Lines, Splines, Arcs, Areas, Circles & Rectangles
Linework Editing
Project Feature

DRAFTING
Create Drafting Drawings
Create or Import Drafting Sheet from Template
Draw, Annotate & Edit Drawings
Print to PDF
Export to CAD - DXF, DWG, DWT

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

IMAGES
Link/Unlink Images
Georeference Images

REPORTS
Applications & Processing Reports
Customizable Reports
Stylesheet Reports

LEICA GEOSYSTEMS SERVICES
GeoCloud Drive, ConX, JetStream
HxGN SmartNet
Leica Spider X-pos

PROJECT DATA SERVICES
12d Synergy
Bricsys 24/7
Autodesk Construction Cloud
Bentley ProjectWise
Procore
vGIS

MAP & GIS SERVICES
HxGN Content Program
Open Street Map
Map Services WFS, WMS, WMST
ArcGIS Online
Portal for ArcGIS

IMPORT
SmartWorx Viva, Captivate Job - DBX
GNSS data - RINEX, MDB, ION, SP3, DAT, GPS, UBX
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
Surface - OBJ, FLY, glTF, GLB
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
BricsCAD - DWG
GeoJSON
ESRI - SHP
ESRI File Geodatabase - GDB
Zeno Data Model - GDB
Point Clouds - PTS, PTX, LAS, LAZ, E57, LGS, PLY, PTG
Surface - OBJ, FLY, glTF, GLB
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 GNSS						
Single Frequency Data Processing (L1)	✔	✔				
Multifrequency Data Processing (L1, L2, L5)		✔				
Multi-constellation Data Processing (GPS GLO GAL BEI QZSS)	✔	✔				
Static & Kinematic Processing	✔	✔				
Manual & Automatic Processing	✔	✔				
Data Analysis Tools	✔	✔				
Interactive Analysis Charts	✔	✔				
PROCESSING LEVEL						
Adjust, Join & Split Level Line	✔					
Height Observation	✔					
Add TP to Library	✔					
SURFACES & VOLUMES						
Create Surface: 3D & 2.5D			✔			
Add, Remove, Cut Features			✔			
Trim, Remove, Fill holes			✔			
Contours			✔			
Volumes: Stockpile, To Point, To Height, Surface to Surface			✔			
Cut Fill Maps			✔			
Comparison Maps			✔			
POINT CLOUDS						
Work with Point Cloud Groups			✔		✔	
Point Cloud Edits			✔		✔	
Colour Mode & Filter Point Cloud			✔		✔	
Point Cloud Classification			✔		✔	
Clip Plane, Slice or Box			✔		✔	
POINT CLOUDS REGISTRATION						
Import RTC360 & BLK360						✔
Autocloud, Visual Alignment						✔
Auto Black & White Targets Extraction						✔
Create & Delete Virtual Targets						✔
Match Targets, Apply Controls						✔
Create Unified Point Cloud (UPC)						✔
Downsampling						✔
IMAGING - MEASURE POINTS IN IMAGES						
Work with Image Groups	✔				✔	
Calculate Point From Images	✔				✔	
IMAGING - POINT CLOUDS FROM IMAGES						
Orientate Image Groups					✔	
Create Dense Point Cloud					✔	
Create a Digital Surface Model & Orthophoto					✔	
Create Quick Stitch Overview Image					✔	
Add Control Points					✔	
Filter Dense Point Cloud (DPC)					✔	

Leica Infinity Office Software - Options

	Survey	Advanced Survey	Engineering	Infrastructure	Point Clouds from Images	Point Clouds Registration
ADJUSTMENT 1D						
Compute Loops, Run-Pre Analysis, Adjustment	✔					
ADJUSTMENT 1D, 2D, 3D						
Compute Loops, Run-Pre Analysis, Adjustment		✔				
Adjust on Ellipsoid or Local Plane		✔				
INFRASTRUCTURE						
Create Vertical & Horizontal Alignment				✔		
Create Cross Section & Road Object				✔		
Edit, Link & Unlink Cross Sections				✔		
Create Checked & Staked Road Report				✔		
Create Profile & Section, Tunnel Object				✔		
Create As-Build Profile, Tunnel Inspection				✔		
Create Road & Tunnel Material Surface				✔		

WINDOWS APPLICATION COMPATIBILITY	
Supported OS	Standalone desktop application, Win 11, Win 10, Windows Server 2022 and 2025, VM capable (see installation guide)
Installation	Binaries digitally signed Leica Geosystems AG, Elevated Admin, install by user, silent, enterprise deployment capable
Updates	Binaries digitally signed Leica Geosystems AG, Elevated Admin, install by user, silent, enterprise deployment capable
Licensing	Software license with offline activation capabilities, license server hosted on local machine or within local network
User rights to run app	User WRM
DATA SECURITY	
GDPR, Personal Identifiable Information (PII)	PII not stored, please read more: hexagon.com/legal/privacy-notice
Loadable data in transit	TLS1.2/1.3
Communications, ports	No mandatory external data communication, IT Configurable
Compliance	Refer to software terms and conditions: leica-geosystems.com/about-us/compliance-standards/legal-documents
Application third party dependencies	No dependencies
Cloud services	No mandatory external cloud services dependencies

SYSTEM RECOMMENDATIONS	
Operating System	Windows 10 - 64 bit, Windows 11
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 greater	Octa-core 3.5 GHz or greater
RAM	8 GB	32 GB or more	64 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	8 GB or more, CUDA capable	16 GB or more, CUDA capable

Leica Geosystems AG

Heinrich-Wild-Strasse
9435 Heerbrugg, Switzerland
+41 71 727 31 31

- when it has to be **right**

Leica Geosystems