Leica Geo Office
Datasheet

One Office Software for all your instruments

Seamlessly import and combine data from all your instruments to produce the final results. Manage and combine your data with Leica Geo Office to ensure you get the best results.

- GNSS instrument support
- TPS instrument support
- Level instrument support

Best-in-class Processing Options

Years of experience in the fields of surveying and GNSS data processing resulted in the world's most powerful processing options.

- GNSS data processing using SmartCheck techniques
- TPS processing – from simple station updates to complex traverses
- Level processing
- Combined network adjustments
- COGO calculations, Datum transformations and Volume calculations

All components integrated in one software

Leica Geo Office enables you to manage your project in an integrated way. No need to transfer data between the various modules.

- Use GNSS processing to automatically update SmartStation setups
- Combine GNSS and terrestrial data with an integrated Least Squares Adjustment
- Benefit from volume calculations being instantly updated whenever coordinates change

- when it has to be **right**

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Technical Specifications

Leica Geo Office

General components

Data and Project Management	Fast, powerful database manages automatically all points and measurements within projects to ensure data integrity is always maintained. Includes management for projects, coordinate systems, antennas, report templates and codelists.
Raw Data Import	Import raw data from GNSS receivers, total stations and digital levels, or from reference stations and other sources via the Internet.
ASCII Import & Export	Import coordinate lists as user-defined ASCII files using the import wizard. Export results in any format to any software using the ASCII export function.
LandXML Import & Export	Import and Export of LandXML files from Leica instruments or to and from any other source.
GIS / CAD Export	Export to GIS / CAD systems such as AutoCAD (DXF / DWG), MicroStation
View & Edit	Various graphical displays for visualizing data and giving an instant overview of the data contained within a project. Point, line and area information may be viewed in View/Edit together with coding and attribute information. Editing functionality is embedded allowing to query and clean up the data before processing or exporting it further.
Reporting	HTML-based reporting for generating modern, professional reports. Configurable content and templates to determine the presentation style.
Codelist Manager	Generation of codelists with code groups, codes, and attributes. Management of codelists for all Leica instruments.
Tools	Powerful Tools like Codelist Manager, Data Exchange Manager, Format Manager and Software Upload are common tools for GPS receivers, total stations and also for digital levels.

Processing options

GNSS data processing	Graphical interface for baseline selection and processing commands. Automatic or manual selection of baselines and definition of processing sequence. Single baseline or multi-baseline batch processing. Wide range of processing parameters. Automatic screening, cycle-slip fixing and outlier detection. Results manager to inspect and analyze results, graphically plot residuals and generate HTML reports. **L1 data processing:** Option to process GPS L1 single frequency data **L1 / L2 data processing:** Option to process GPS dual frequency data **GLONASS data processing:** Allows processing of GLONASS data in addition to GPS data processing **RINEX Import:** Import of data in RINEX format.
TPS data processing	Re-calculate TPS setups to update station coordinates and orientations. Define setups and traverses and process with preferred parameters. Define and re-calculate Sets of Angles. Display all results in HTML-based reports.
Level data processing	**Level data processing:** Viewing of data collected with Leica digital levels in the level booking sheet. Selection of parameters and processing of the level lines. Generation of HTML reports. Store the results for further use in Network Adjustments or for export. **Design & Adjustment 1D:** Rigorous algorithms for 1D adjustment of level networks.

General data processing

COGO	Computation of coordinates of points using inverse, traverse, intersection, line and arc calculations and area divisions. Select points graphically and create HTML-based reports.
Design & Adjustment 3D	Combination of all measurements in a least-squares network adjustment to obtain the best possible set of consistent coordinates and to check that the measurements fit with the known coordinates. Outlier detection and extensive statistical testing.
Surfaces & Volumes	Assign measured points of surfaces and calculate Digital Terrain Models. Automatic boundary creation or manual definition. Introducing breaklines will automatically update the model. Visualize the surface in a 2D or 3D view. Calculation of volumes above reference heights or between surfaces.
Datum & Map	Supports numerous transformations, ellipsoids and projections, as well as user-defined geoid models and country specific coordinate systems, which are based on a grid of correction values. Datum/Map supports the determination of transformation parameters with different transformation types giving the flexibility to select the approach which suits the project needs best.
System requirements	512 MB RAM or more Microsoft® Windows™ 7, XP or Vista

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