Leica Zeno Field & Office
GIS Software
Datasheet

Leica Zeno GIS series

The Leica Zeno GIS series offers an ideal set of tools for anyone who needs more accurate data in a GIS database. All GNSS post-processing is automated; GIS and GNSS technologies are seamlessly combined in one easy solution.

- Seamless and Automated GIS integration
- Quality Control made easy and understandable

Leica Zeno Field

Leica Zeno Field is an OEM version of ArcPad 10 and provides in addition to the well known ArcPad™ functionality: GNSS raw data logging, easy handling of GNSS configurations (such as DGPS settings), feature accuracy management and an automated workflow between the field and office. Together with Zeno Office easily manage feature quality over time and benefit from automated import and export functions to a wide range of different formats such as ArcGIS geodatabase, shapefile, dxf, dgn, and dwg.

- Real-Time differential correction made easy
- Logging of raw data for post-processing to increase accuracy
- State-of-the-art field mapping tools
- Various field controller supported

Leica Zeno Office

Leica Zeno Office on ArcGIS™ provides a set of tools for managing and processing GNSS and surveying data within ArcGIS Desktop, all from directly within your familiar environment. Leica Zeno Office is a software package to maintain, manage and post-process GIS, GNSS and surveying data. With Leica Zeno GIS you get much more done in a busy day and have full trust in the accuracy of your GNSS data.

- Automated field-office workflows: EasyIn and EasyOut
- Store detailed GNSS quality information in a GIS database
- Integration of surveying measurements in a GIS database

- when it has to be **right**

Leica Geosystems

Technical Specifications

Leica Zeno Office

GIS Integration

Leica Zeno Office seamlessly integrates GIS, GNSS and surveying data together with feature quality information

Import, view, edit and post-process GNSS data inside Leica Zeno Office or Leica Zeno Office on ArcGIS[1] – an ArcGIS Desktop extension

Easy feature position verification and update to the most accurate location

Seamless Import/Export of Leica Geosystems surveying format and direct connection to Leica Geosystems surveying equipment within the GIS environment

Extend and customize with ArcObjects

Supported Data formats: Leica MobileMatriX geodatabase, ArcGIS personal and multi-user geodatabase (SQL Server and SQL Express), shapefile, AutoCAD DWG, DXF, Microstation dgn, and axf files for ArcPad

Workflow

Fully optimized for the easiest and most productive field to office workflow:
- EasyOut manages the process (copy-out or check-out) to bring feature and raster data, and quality information into Zeno Field
- EasyIn is a unique check-in procedure that automatically post-processes GNSS data while downloading feature and GNSS data directly from the device. EasyIn workflow ensures maximum productivity and ease-of-use by eliminating GNSS post-processing outside the GIS or by running several different wizards to post-process GNSS data and import feature data

EasyIn and EasyOut are available as wizards or as geoprocessing tools for automated workflows. For example, a simple one-click model can import feature and raw data, post-process, update feature vertices and export to CAD

GNSS Integration

Work with GNSS data directly in your geodatabase

Achieve from submeter to decimeter accuracy after post-processing[2]

Uses the best post-processing algorithms in the market to get best post-processed results for optimal GNSS accuracy[2]

Store detailed information about the quality of GNSS data with each observed point

Supported Base Station files: Rinex, Hatanaka (compressed RINEX), Leica Geosystems raw-data format

System Requirements

Platform: PC-Intel

Operating System: Windows Vista, Windows 2000, or Windows XP

Memory: minimum 1 GB RAM, 2 GB recommended

Processor: 1.6 GHz or higher

2.4 GB free disk space for Zeno Office or 200 MB for Zeno Office on ArcGIS

DVD Rom for installation

Versions

	L1 Post-Processing	L1/L2 Post-Processing	TPS Processing	Level Processing	Survey Data Synchronization
Basic			○	○	○
Advanced	●		○	○	○
Professional		●	○	○	○

Leica Zeno Field

Features and Options

Leica Zeno Field utilizes an OEM version of ArcPad 10

Easily collect position, quality, feature, image and attribute data

Direct access to feature quality information and already mapped vertices to avoid re-measurements

GNSS integration

Simplest GNSS & real-time configuration, fully integrated in ArcPad, based on wizards to setup: SBAS, Radio (such as Beacon), dial-up and internet real-time services

Easy to understand Status bar with GNSS, real-time, accuracy and raw data logging information, including display of actual and estimated post-processed accuracy

Support of raw data logging and real-time differential corrections to improve position accuracy

Integrated real-time: SBAS (WAAS, EGNOS, MSAS, GAGAN)[3]

Supported real-time formats: RTCM 2.x, RTCM 3.0, CMR, CMR+

Real-time horizontal accuracy[2]: SBAS < 1.2 m, RTK with GS05/06: < 0.5 m, RTK with GS05/06 and external AS05: < 0.3 m, RTK with GG02plus: < 5 cm

Supported Devices

Rugged GIS handhelds and field controllers: Leica Zeno 10 and 15, Leica CS10 and CS15, Leica CS25

Digital camera integrated in Leica Zeno 10 and 15

Leica Zeno SmartAntenna: Zeno GG02plus

Laser rangefinder as supported in ArcPad 10

[1] Leica Zeno Office on ArcGIS requires ArcGIS (ArcView, ArcEditor or ArcInfo) 9.3 or later and supports ArcSDE
[2] The accuracy depends on observation time, satellite constellation, number of tracked satellites, elevation mask, ionospheric disturbances, multipath signals and proximity to base station, used antenna, etc.
[3] WAAS available in North America only, EGNOS available in Europe only, GAGAN available in India only, and MSAS available in Japan only.

● = Standard
○ = Optional

Swiss Technology by Leica Geosystems

TQM ISO 9001 / ISO 14001

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