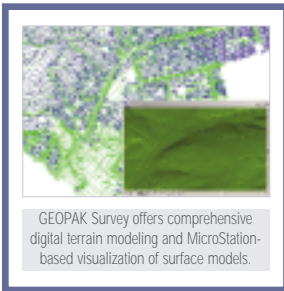


GEOPAK[®] SURVEY[™]



A comprehensive tool for creating finished drawings and models from raw field data



GEOPAK Survey offers comprehensive digital terrain modeling and MicroStation-based visualization of surface models.

Bentley's GEOPAK[®] Survey[™] is a comprehensive tool for creating finished drawings and models from raw field data. The software is fully integrated with MicroStation[®] to permit a true interactive work environment. GEOPAK Survey enhances core MicroStation capabilities with drawing aids that meet the particular needs of land surveyors and civil engineers.

The software downloads and uploads survey data from virtually any data collector, reducing and adjusting the data with a choice of standard methods and mapping it to MicroStation. Data loading handles geometry codes, feature codes and DTM zones and allows interactive editing of survey points and chains. GEOPAK Survey is completely integrated with Bentley's GEOPAK Civil Engineering Suite and GEOPAK[®] Site[™]. It offers comprehensive toolsets for coordinate geometry (COGO), digital terrain modeling, plan preparation and more.



GEOPAK Survey maps features according to your custom definitions and enables easy review using built-in display controls.

Flexible Survey Editing

GEOPAK Survey includes easy, interactive editing functionality that enables you to modify survey points and chains graphically or by traditional key-in methods. The powerful map-editing tools allow graphic data to be edited on the fly and retained in the survey database. While using the same coordinate database as the GEOPAK Civil Engineering Suite and GEOPAK Site products, the software seamlessly transfers data from the field to the designer. All edits to survey data are instantaneously saved and accessed from the COGO database or reflected in the digital terrain model (DTM).

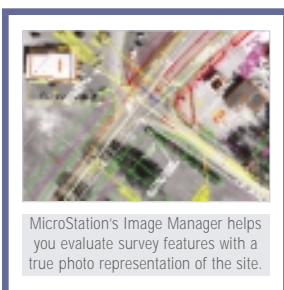
Editing functionality includes inverse, traverse, curve adjustments, area computations and stakeout routines. Since the graphical elements are linked to the external coordinate database, GEOPAK Survey updates graphics as coordinate values change.

Customizable Feature Mapping

GEOPAK Survey supports an extensive features database that details the representation of each survey shot, including symbolization, labeling, chain connectivity, DTM control and more. The feature database is completely user-definable and ensures standardization from the field surveyor to designer. As you process data, the software draws points and chains according to the feature table specified. You can perform feature review easily, using query capabilities to search for elements based upon any of the feature definitions.

Comprehensive Plan Preparation Tools

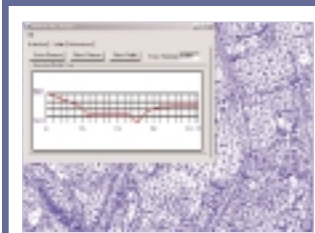
The software includes a full set of plan preparation tools, enabling surveyors and engineers to provide a completed survey with a single solution. You can include additional features after field collection using the feature database to ensure conformity. The software includes an extensive set of user-definable plan view labeling options. You can generate labels along lines, curves, at a single point and associated with a MicroStation/GEOPAK element. Other tools include legends, grids, borders, scale bars and coordinate tables.



MicroStation's Image Manager helps you evaluate survey features with a true photo representation of the site.



GEOPAK SURVEY AT-A-GLANCE



A profile analysis tool provides a vertical representation of the surface model at a linear location or along an element.



An automated subdivision wizard assists you in generating parcels, with complete control over lot parameters.

Survey Manager

- Communication with all major data collectors
- Processing of virtually all data sources: raw, ASCII station/offset/elevation, ASCII XYZ, AASHTO SDMS, Florida EFB
- Adjustment routines include network least squares, transit rule and compass rule
- Extensive feature database support for feature mapping
- Powerful map and chain editing tools

Digital Terrain Modeling

- Profile generation from surface model
- Height query functionality
- DTM camera tool
- Drainage tools for surface flow review

Geometry

- COGO module supports command-line and graphical tools
- Automated subdivision wizard for lot layout
- Best-fit alignments from surveyed points or from any MicroStation graphical elements

Geodetic Conversions

- Support for HPGN, NAD83, NAD27, Lat/Long (all zones)
- Universal Transverse Mercator support for all zones and southern and northern hemispheres
- User-defined zones based on either the Lambert Conformal or the Transverse Mercator projection

Plans Production

- Extensive plan view labeling tools
- Place feature and legend tools
- Coordinate and calls table data inclusion onto construction drawings
- Draw Grid tool

Legal Description Editor

- User-customizable library allowing for customized phrases
- Support for dual dimensioning, as well as pick lists for most commonly used phrases
- Automatic calculation of closure checks

Export to Construction

- Exporting of points, surfaces, alignments and cross sections to major brands of survey equipment
- Exporting of surface model to Trimble DTX, Trimble TTM and Leica GSI formats
- Seamless transfer of field and design data to and from data collectors

GEOPAK SURVEY SYSTEM REQUIREMENTS

- Prerequisites:
MicroStation v8.1 or higher
- Processor:
Intel® Pentium® 400 Mhz minimum, 500 Mhz Recommended
- Operating System: Microsoft® Windows® XP Professional, Microsoft Windows 2000, Microsoft Windows NT® (SP6 recommended)
- Memory: 128 Mb minimum, 256 Mb recommended
- Disk Space:
130 Mb minimum, 165 Mb or more recommended
- Input Device:
Mouse

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Bentley Systems, Incorporated, is a global provider of collaborative software solutions that enable our users to create, manage and publish architectural, engineering and construction (AEC) content. As a part of those solutions, Bentley provides professional services including implementation, integration, customization and training.

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