

MineScape Survey

MineScape Survey controls the reduction management and use of field survey data, and allows any design to be automatically translated into field layout instructions. The full range of surveyors' reduction transformation and adjustment requirements are supported.

The features

Project setup

Involves definition of required projection and local coordinates.

Data input

Manually enters or automatically downloads directly from field data recorders, with surveyor-defined codes automatically processed. All instrument types are supported, from chains and total stations to GPS and stereo digitizers, to reflectorless and robotic survey instruments. Survey data from other sources such as aerial surveys or third-party packages can also be imported.

Company standards

Ensures the adherence of all data to site and company standards using sets of user-defined lookup tables.

Pre-processing

Uses coding conventions, which can include pre-processing instructions to the data load process. Such instructions could be to delete or offset points, fix their position by resection or trilateration at load time, and to adjust prior entries.

Single command or step-by-step process

Loads, preprocesses, reduces and displays data at a single command. Alternatively, each step can be processed separately and the results reviewed and checked. Full reporting of errors, adjustments, residuals and misclosures is provided. Processing functions include full network adjustment, traversing, leveling and coordinate transformation (Helmert and Lauf).

3D

Loads data into a 3D space and makes data immediately available for CAD editing.

COGO

Provides an additional tailored set of powerful COGO (coordinate geometry) CAD functions.

Volumes

Includes triangulated sampling, cut and fill, and section-based (end area) calculation techniques.

Upload

Supports the upload of any MineScape designs back to field recorders or as plotted instructions to complete the cycle of transcription-free field data management. Upload of design information from any MineScape source is just as easy, with positional information for any purpose available as either plotted layout instructions or directly written to field data recorders.

The benefits

Accurate

Eliminates the potential for transcription errors by enabling the automatic transferral of two-way data between MineScape and field data recorders. Any design can be automatically translated into field layout instructions.

Adherence to standards

Standardizes the presentation of common information to minimize the potential for subsequent interpretation error. Standards can be changed at any time, and ALL data will be updated. The same data can be reported to any authority in the required coordinate system without reprocessing.

Integrated

Provides all authorized end users (eg, geology, engineering) with immediate access to the most recent positional information, as all MineScape plugins run across the same databases.

Contact us

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