

DVP – Stereo & 3D Data Capturing



Stereo & 3D Stereo Capturing

Groupe Alta presents this productive, user-friendly data capturing environment for easy extraction of high quality, high precision measurements and vector information through the use of stereoscopic and monoscopic imagery. Stereo imagery in combination with comprehensive and powerful CAD collection and editing features allows users the ability to model and map the world easier than ever.

DVP is the cornerstone of the Alta Photogrammetry Suite and is able to fit in seamlessly into any existing photogrammetry production workflow.

DVP Benefits

- Stereovision providing mechanisms for “real” interpretation.
- Seamless navigation throughout entire project area.
- 3D (xyz) navigation and positioning with coordinate readout.
- 3D measurements (distance, height, slope, area).
- Extraction of features (buildings, roads, posts, trees etc...).
- Superimposition of 2D and 3D vector files.
- TIN and contour generation.
- Stand-alone, Microstation, AutoCAD and ArcGIS modes.
- Support and maintenance program.

File Management

DVP is able to open hundreds of stereo models at once and an unlimited number of vector files (.dvp, .dwg, .dgn, etc.) in a multi-window environment.

In multi-user environments, DVP can be very effective. Users have the ability to access stereo imagery simultaneously from a centralized network location as well as visualize vector files that are being collected by co-workers. Vector file locks and automated backup systems ensure that data and time are never lost.

Customization - Macros

The user has the ability to extend the powerful built-in functionality using the embedded Javascript engine. Automate collection tasks, write new functions, scan files for certain features, are just a few of the multitude of functionalities that can be accomplished using this tool.

To facilitate learning, a Javascript Macro Recorder is available to store the movements and actions of the mouse & keyboard settings and can be manipulated to accomplish any desired functionality.

Support & Training

Start off the right way with our Alta Photogrammetry Suite of products by complimenting the software with supplemental training. Our training and support team will always be there to assist you to become the most productive and efficient in the shortest amount of time possible.

DVP – Features

Navigation & Viewing

- 4 viewing modes:
 - Anaglyph
 - Mono (w or w/o TIN)
 - Split screen
 - Stereo-Ready
- 3D cursor control using mouse, 3D puck, handwheel or footdisk system
- Fixed or variable cursor
- Seamless model panning
- Multiple stereo windows
- Terrain following using TIN
- Custom cursor color and form

Supported Data Types

- Scanned Aerial Film Imagery
- Frame Digital Camera Sensors
- Intergraph DMC, Vexcel Ultracam
- Georeferenced Orthoimages
- Raster Formats: 8, 12, 16bit, TIFF (stripped), TIFF (tiled), JPEG compressed TIFF, JPEG2000, ECW, MrSid, and more...

Measure & Extraction Tools

- Point, Polyline, Stream Polyline, Polygon, Symbol, Circle, Ellipse, Rotated Text, Rotated Symbol
- Multi-line tool
- Contouring tools
- Automatic, semi-automatic, and manual DEM collection
- Distance, slope, height, area, volume measures
- Annotation (text, symbol with leader). Vertex Functions: move, insert, delete, delete last mode
- Element Functions: move, rotate, scale, trim, extend, continue element, continue on nearest, inverse direction.
- Element smoothing
- Reshape element Tool
- Snapping modes: keypoint, nearest, start & end element, insert, cut
- Element selection and selection filtering
- Element attribute modification
- Dynamic TIN & Contour
- Microstation (J, V8), AutoCAD (2000-2007), ArcGIS (9.1 and higher) plugins

Other

- Unlimited undo & redo
- Support for 2D and 3D .dgn, .dwg, .dxf, .shp, .asc vector files
- Creation of symbols, cursors and fonts
- Virtual Keypad for display of feature codes & items
- Dynamic profile tool
- Vector file locking
- Refresh of reference files
- Automatic file backups
- Embedded Javascript macro engine

Hardware Specifications

Optimum

- Pentium IV Duo Core or higher
- Windows XP
- 2 GB RAM or higher
- OpenGL "Stereo-Ready" graphics card
- Planar or True 3Di

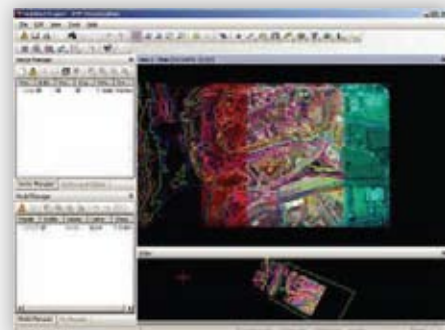
Minimum

- Pentium IV or higher • Windows XP
- Windows XP
- 1 GB RAM
- OpenGL "Stereo-Ready" graphics card
- 1 Monitor

DVP Users: A Diversified Group

DVP counts hundreds of users in many different industry segments including: forestry, mining, engineering, cadastral data collection, traditional mapping service companies, technical colleges and universities located worldwide.

All users can enjoy the rich functionality and ease of use available in all products from the entire APS Suite. Groupe Alta continues to provide high quality photogrammetry, imagery and mapping software around the world.



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