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TESTIMONIAL:

"I recently purchased the DAT/EM IMA Conversion with stereo imposition and CAPTURE NT™ for AutoCAD® R14. The installation and conversion of the IMA was excellent. Everything worked exactly as advertised and the first time. With CAPTURE NT for AutoCAD and the stereo imposition, my productivity has increased substantially. The Keypad 300 is particularly nice since I do work for many clients and can program the keypad for individual clients. I think the DAT/EM IMA conversion and CAPTURE NT are the best analytical plotter combination going."

- Steven Laughmiller, Owner, S&S Mapping



DAT/EM IMA

IMA Upgrade

At DAT/EM, we've developed a way to extend the life of an InterMap Analytic (IMA) stereoplottter offering increased performance based on state-of-the-art PC technology. Existing in-house instruments can be upgraded on-site, plus refurbished instruments are available from DAT/EM.

DAT/EM IMA Architecture

The IMA upgrade involves modifications to both mechanical and electronic components of the stereoplottter.

While the stage-plate drive portions of the IMA remain unchanged, the controls for the motorized zooms, image rotation, reference mark, and base-in/base-out are modified. The original automatic optical switching is preserved.

Also, the original internal motion control computer is removed and replaced with a PC-based motion control computer. The dated MicroVAX is also removed from the system. It is replaced with a Pentium computer which controls the CAD and mapping functions.

The DAT/EM IMA operates with one monitor and keyboard. Switching between the two computers is accomplished via a switch box to conserve space. If desired, additional monitors and keyboards can be added. The Intergraph tablet is removed from the system and a new digitizing tablet is installed. If the instrument has existing hand wheels, they will remain in place. DAT/EM handwheels are also available.

MicroStation® Versions SE /J and AutoCAD® R12/R13/R14

MicroStation and AutoCAD are considered around the world to be superior CAD systems for photogrammetric applications. Combined with DAT/EM's powerful mapping systems, CAPTURE NT™ for MicroStation or CAPTURE NT for AutoCAD, this software offers unrivaled precision, efficiency, and quality.

CAPTURE NT map compilation software

With DAT/EM's map compilation software, data is collected and edited completely within MicroStation or AutoCAD –without file translation. With CAPTURE NT for AutoCAD or CAPTURE NT for MicroStation, you create a digital file with data designed for your particular CAD system. The result: a superior finished product in the format your clients expect. The time needed to install and train on the typical system is two to three days. Our default keypad affords you push-button simplicity and the entire system, from compiling to editing, is geared to show immediate results. DAT/EM's data capture software also comes with MAP/EDITOR™, which includes automated editing routines and other powerful enhancements.

Orientation and Management Software

The DAT/EM IMA includes SoftMap's AP32 Stereo Orientation and ATM Program. This plotter software provides aerotriangulation features; advanced Interior, Relative, and Absolute Orientation functions; as well as support for direct orientations (GPS/INS oriented imagery). Project/Model Management allows the user to create, edit, delete, or change project and model definition files.

Features & Benefits:

- Increased performance based on state-of-the-art PC technology.
- Upgrading existing instruments preserves initial investment.
- Takes advantage of 32-bit processor technology.
- Preserves original mechanical functionality of the IMA.
- Base-in/base-out fully supported.
- Modernization of equipment cuts down on down-time.
- Advanced aerotriangulation functions.
- Intuitive orientation package.
- Completely automatic optical switching.

CAD Computer Hardware:

- 333 MHz Pentium Processor or better
- Minimum 64 MB RAM
- 1.62 GB IDE Hard Disk
- 256 KB Cache
- 2 free serial ports
- PCI Enhanced IDE Interface
- PCI Local bus Graphics with 2 MB of video RAM
- Quad Speed CD-ROM
- 3 1/2" floppy drive
- 15" SVGA monitor
- Desktop case
- AnyKey keyboard and mouse

CAD Computer Software:

- Windows NT
- MicroStation SE/J or AutoCAD R14
- DAT/EM CAPTURE NT for MicroStation or CAPTURE NT for AutoCAD
- DAT/EM MAP/EDITOR
- DAT/EM SUPER/IMPOSITION (Optional)
- AP32 Orientation Software

Interior Orientation grants the mapping professional the ability to pre-define the number of points and the flexibility in setting up different cameras for left and right stages. Relative Orientation allows the user to define a schema of points to which the stages will automatically drive, or the standard von Gruber positions may be used. Absolute Orientation is computed once a minimum number of control points is measured. As with all other orientations, computations are performed in real-time, and all the measured and unmeasured points are graphically displayed as you work.

AP32 has many advanced AT functions, including highly flexible naming schemes, point transfer and measurement mode options, optimization for minimum mouse/key interactions, and support for a wide variety of data input/output formats.

SUPER/IMPOSITION Hardware & Software

Existing S/I monitor and mount will be replaced with a DAT/EM COLOR SUPER/IMPOSITION (COLOR S/I) monitor and mount.

With DAT/EM COLOR S/I, virtually unlimited file sizes can be handled efficiently in real time. The system displays and pans with a smooth, coordinated motion of the graphics image and stereoplotter stages. When compiling, the operator can turn specific layers (or levels) off while leaving others on. DAT/EM's S/I real-time response and high resolution graphics combine to greatly increase compilation efficiency while virtually eliminating feature omission errors. The superimposed image can be turned on and off with a single keystroke. When the screen is turned back on, the full image appears almost immediately, therefore, there is minimal time spent waiting for a redraw.