Photogrammetry in Bentley CAD/GIS environments

CAD-based systems have proven tremendously popular and play a leading role in modern photogrammetric production. Bentley MicroStation CONNECT and OpenCities Map have emerged as the CAD system of choice for many users in the photogrammetric community.

PRO600 products are specially designed to optimise production-mapping for organisations that use Bentley MicroStation CONNECT, OpenCities Map Advanced, and OpenCities Map Ultimate. PRO600 CART enables 3D feature collection and editing in these environments, while PRO600 DTM provides a variety of tools for terrain modeling. Both PRO600 products use technology from our IMAGINE Photogrammetry product line, allowing CAD and GIS users to benefit from the robust, high-throughput capabilities that are trusted by mapping professionals worldwide.
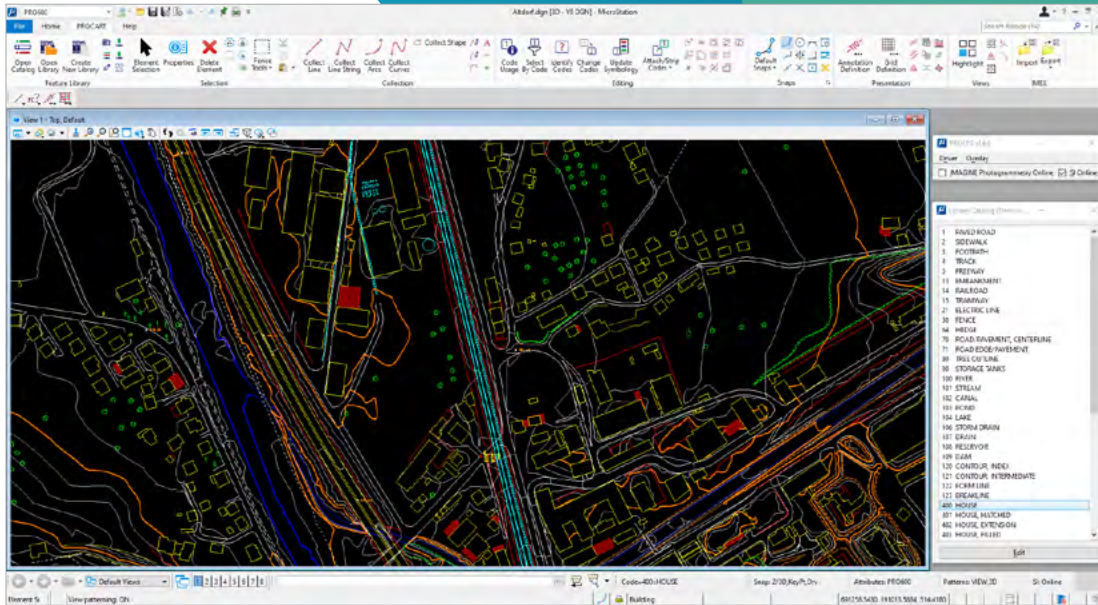
PRO600 products features

- Seamless integration with the Bentley environment, reducing the learning curve and maximising efficiency for novice and experienced Bentley users

- High-performance stereo viewing engine

- Sophisticated data collection and editing tools

- Support for a variety of input devices, including TopoMouse, Stealth Mouse, and more

- Tight integration with IMAGINE Photogrammetry

PRO600 CART

Feature collection and editing is central to photogrammetric production. For photogrammetry professionals, delivering geographic data to clients in a cost-effective, timely, and consistent manner is a top priority. Having the right software for feature collection and editing is vital to success.

PRO600 CART provides a set of cartographic presentation tools within your Bentley environment, including line patterning, polygon hatching, symbology, contour annotation, slope hachure, and manuscript grid placement. It also includes extensive feature-coding capabilities. Using PRO600 CART, you can also display imagery in both the Bentley product viewers and IMAGINE Photogrammetry stereo-based viewers, and even link the viewers so you can control and use them at the same time.

PRO600 provides stereo viewing and terrain editing inside of a MicroStation environment.

Key features for PRO600 CART

- Symbology settings stored in a feature definition library

- Easy-to-edit feature definition library

- Multiple collection modes and tools to enhance productivity

- Parallel-line generation with up to 20 parallel lines simultaneously

- Button mapping for input devices

- Automatic periodic design file backup

- Undo and redo

- Ground control point utility that allows you to plot ground control points as annotated symbols

- Data editing, including contour rounding and centerline generation

PRO600 DTM

Providing a stereo editing environment and an advanced toolset for terrain modeling, PRO600 DTM enables you to dynamically update or edit your terrain files using the mensuration tools in the PRO600 DTM environment with the capturing capability in the stereo viewer.

PRO600 DTM lets you import an IMAGINE Photogrammetry terrain dataset into your Bentley product. This enables you to merge MicroStation design file data into an IMAGINE Photogrammetry terrain dataset along with specifications about how the data is to be used (breaklines, polygon flattening, etc.). It also lets you interpolate continuously from an IMAGINE Photogrammetry terrain dataset, using the elevation as the active depth within the MicroStation view. You -can also convert 2D design files into 3D by draping the vector data over an IMAGINE Photogrammetry dataset. PRO600 DTM requires PRO600 CART.

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About Hexagon

Hexagon is a global leader in digital reality solutions, combining sensor, software and autonomous technologies. We are putting data to work to boost efficiency, productivity, quality and safety across industrial, manufacturing, infrastructure, public sector, and mobility applications.

Our technologies are shaping production and people-related ecosystems to become increasingly connected and autonomous – ensuring a scalable, sustainable future.

Hexagon's Geospatial division creates solutions that deliver a 5D smart digital reality with insight into what was, what is, what could be, what should be, and ultimately, what will be.

Hexagon (Nasdaq Stockholm: HEXA B) has approximately 21,000 employees in 50 countries and net sales of approximately 3.8bn EUR. Learn more at **hexagon.com** and follow us @HexagonAB.