

ImageStation Stereo Display


Display and manipulate stereo imagery with 3D cursor tracking

Hexagon provides a seamless workflow for processing digital imagery from project start to finish with ImageStation. From acquisition to product generation and distribution, our photogrammetry solutions offer complete systems for aerial and satellite triangulation, development of base maps, digital terrain models, and orthophotos. The ImageStation digital photogrammetric software suite serves government, commercial photogrammetry, and mapping agencies worldwide. Our image post-processing tools enable better, faster and more cost-effective geospatial data production.

ImageStation Stereo Display (ISSD) supports the display and manipulation of stereo imagery with photogrammetrically accurate 3D cursor tracking in a MicroStation environment. ISSD allows you to control stereo vector superimposition, stereo roam, zoom, and image contrast, brightness and other adjustments.

ImageStation's exclusive ImagePipe technology produces smooth stereo roam and image display adjustment to reduce eye fatigue during stereo compilation.





ISSD accepts aerial frame, ADS line scanner or satellite model orientation data from ImageStation Photogrammetric Manager (ISPM) to display black and white or RGB composite images from either three- or four-band imagery, with 8- to 16-bits of radiometry. You can also import data from IMAGINE Photogrammetry and third-party applications.

ISSD includes ImageStation Feature Collection (ISFC) to help you achieve high-productivity map compilation. ISFC provides feature-appropriate digitising functions, such as orthogonal digitising of roof lines or parallel offset collection of roadways and sidewalks. ISSD also works with ImageStation DTM Collection (ISDC) to collect and edit digital terrain model (DTM) data, elevation points, breaklines and other geomorphic features in stereo models.

Convenient stereo plotting

- Capture data and track the process in a stereo, mono or plain MicroStation view.
- Perform on-the-fly image enhancements - gamma, contrast, brightness, sharpen, continuous auto stretch - to get the most out of your images.
- Select or define your preferred cursor.
- Use dynamic zoom or specify your view scale according to predefined zoom ratios.
- Adjust cursor speed.
- Switch models automatically, if desired.
- Native 64-bit application for increased memory capacity and performance.

3D data collection made easy

- Roam-area definition limits the amount of data loaded into roam to reduce initialisation time (large/dense data sets).
- 2D-snap capability to match only XY coordinates of a feature.

- Snap Cursor function moves the stereo cursor to the feature being snapped to, providing quick validation of proper feature selection.
- Set Elevation command allows easy contour line digitising.
- Vertical (depth) indexing adjusts operator's bias for depth perception.

ImageStation Feature Collection

ISFC is an easy-to-use map feature data collection product that provides tools for interactively collecting map feature geometry (2D and 3D). ISFC is completely integrated with the ImageStation Stereo Display product. It provides tools that allow you to customise map feature definitions and define feature collection methods that best suit your production needs.

- Take advantage of an intuitive user interface to define and edit map features and their symbology and digitising properties.
- Use the predefined feature table to ensure consistent features for the complete project.
- Activate edit and placement commands quickly using key-in codes, or link them easily to hotkeys or function keys on the keyboard.
- Provide clean data due to available check routines, including the ability to join adjacent line nodes, delete short line segments and close line segments.

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 Safety, Infrastructure & Geospatial division improves the resilience and sustainability of the world's critical services and infrastructure. Our solutions turn complex data about people, places and assets into meaningful information and capabilities for better, faster decision-making in public safety, utilities, defense, transportation and government.

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](https://www.hexagon.com) and follow us @HexagonAB.

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