HEXAGON

ImageStation® Stereo Display

Display and Manipulate Stereo Imagery with 3D Cursor Tracking

Hexagon's Geospatial division 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®, Power InRoads, and Power GEOPAK environments. 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, 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 8-16 bits of radiometry. You can also import data from IMAGINE Photogrammetry and third-party applications.
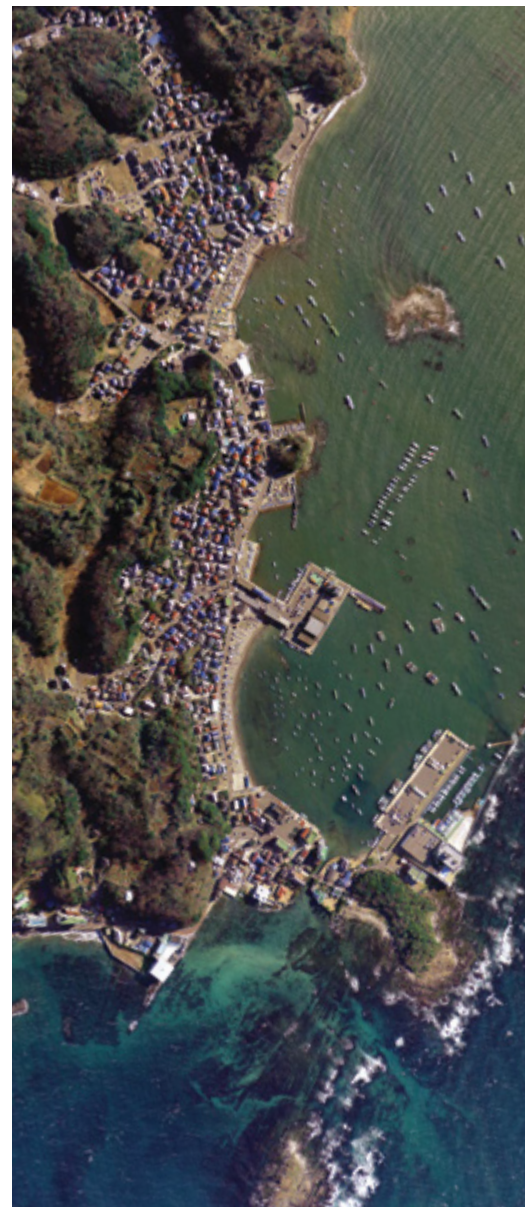
ISSD includes ImageStation Feature Collection (ISFC) to help you achieve high-productivity map compilation. ISFC provides feature-appropriate digitizing functions, such as orthogonal digitizing of roof lines or parallel offset collection of roadways and sidewalks. ISSD also works with ImageStation DTM 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.

3D Data Collection Made Easy

- Roam-area definition limits the amount of data loaded into roam to reduce initialization 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 digitizing.

- 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 customize 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 digitizing 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.

Contact Us

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About Hexagon

Hexagon is a global leader in sensor, software and autonomous solutions. We are putting data to work to boost efficiency, productivity, and quality across industrial, manufacturing, infrastructure, safety, and mobility applications. Our technologies are shaping urban and production ecosystems to become increasingly connected and autonomous — ensuring a scalable, sustainable future.

Hexagon's Geospatial division creates leading platforms, applications and solutions for visualizing, analyzing, and deriving insight from location data. By interconnecting the geospatial and operational worlds, we help customers of all sizes – from sites to cities to nations – use 5D location intelligence to solve real-world, mission-critical challenges.

From snapshots in time to real-time streams, our technology enables autonomous connected ecosystems that deliver reliable, repeatable location information. We shorten the loop from data acquisition to action, helping clarify what was, what is, what could be, what should be, and ultimately, what will be, so we can build a thriving, sustainable world.

Hexagon (Nasdaq Stockholm: HEXA B) has approximately 20,000 employees in 50 countries and net sales of approximately 4.3bn USD. Learn more at hexagon.com and follow us @HexagonAB.