

# Image Scout

Today's image analysts are required to analyze an ever-increasing volume of imagery from many varied and complex sources. Image Scout from Hexagon's Geospatial division enables quick and accurate broad area search operations of vast landscapes of digital imagery. Its ability to fuse geospatial vector, imagery, and elevation data in one seamless environment enriches the analysis process by allowing you to visualize, query, and analyze information from various sources in one application.

Image Scout streamlines this multi-source fusion, allowing you to work more quickly and confidently with increased effectiveness. Data servers and OGC® (Open Geospatial Consortium) interfaces let you tap into a rich and varied set of available geospatial intelligence sources. Using these interfaces, you can identify and exploit geospatially-related images using high-performance 64-bit electronic light table functionality to enhance, chip, mensurate, and annotate image elements. Image Scout combines functionality from multiple products to provide the most advanced and integrated imagery analysis application.

## Key Features

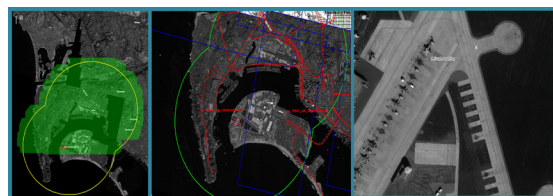
Image Scout includes the following capabilities:

- Directly connect to and process a variety of imagery, elevation, and geospatial feature data sources in original formats.
- Geofuse geospatial vector, image, elevation, and tabular data in one seamless environment.
- Directly connect to web-based sources of geospatial content for live data feeds of weather, vehicle traffic, and other types of data using of OGC Web Services.
- Easily fly through rich 3D environments (Image Scout 3D only).
- Perform integrated terrain and spatial analysis.
- Search broad areas using virtual mosaics.
- Exploit imagery using robust electronic light table tools.
- Chip out and annotate image sections for reports and documentation.
- Use geospatial feature data such as points of interest, road networks, convoy routes, flight paths, and blast zones to automatically constrain imagery searches to paths and areas defined by these features.
- Visualize, query, and analyze information from various data sources.

## Geospatial Fusion Powered by GeoMedia®

With more sensor data than ever available, it is crucial to have tools that process data more efficiently. Geospatial fusion helps you maintain focus by expertly selecting the imagery you need to complete an assigned task. Raster backdrops consisting of scanned maps and orthorectified imagery provide broad area context. Elevation data allows the restriction of search areas based on terrain characteristics and supports viewshed analysis. Vector data enables the use of named, real-world features as guides in the search process – all geofused within GeoMedia's geospatial map window.

Use footprints and metadata to help you select the appropriate imagery data. GeoMedia's powerful spatial filters let you limit information to a specific area, and attribute-based queries allow you to further reduce the result set, improving your efficiency when working with large volumes of geospatial information. Sophisticated spatial queries and operations also provide further dynamic refinement.



## Virtual Mosaic Searches

A key differentiator of Image Scout is the virtual mosaic dynamically constructed from standard formatted files, such as GeoTIFF and NITF. Similar to the way producers of orthorectified images and imagery products manually create large mosaics from several source images, Image Scout creates a virtual mosaic of the selected imagery on-the-fly for immediate analysis. Once you've created a virtual mosaic, Image Scout provides efficient tools for searching the mosaic, including a smooth, jitter-free roam. Not only can you perform a complete search of the virtual mosaic, but you can also use linear or area features to help guide the search. While navigating the virtual mosaic, the location is tracked in the GeoMedia map window to provide geographic orientation and context. The progress of one or more search tasks are also tracked by the snail trail, which provides visual confirmation of the area searched and orients multiple analysts during a coordinated imagery search activity.

## Electronic Light Table Capabilities

A full complement of high-performance 64-bit electronic light table tools makes Image Scout a truly integrated solution.

- **Image Exploitation** – Send a set of point features to virtual mosaics or images. Known as points of interest, these points allow you to jump to and review specific locations to quickly determine if any significant changes are present. You can interactively create additional points of interest and save these as geospatial data you can use for future reference.
- **Image Chip Extraction** – Extract selected sections of images and save them to new files. These image chips include the georeferencing information derived from the source file, letting you easily place these new files in the correct geographic context. A rich set of annotation tools let you explicitly document items of interest within the image.

- **Image Enhancement** – Image Scout includes an image enhancement chain for defining a set of enhancements to be applied on-the-fly on display and a large number of image enhancement operations that can be applied to improve image appearance. For example, Image Sampler instantly provides a preview so you can view the effects of these operations without processing the entire image. Once you've determined the optimal operation, you can apply it to the entire image, or a selected region of interest, with a simple click of the mouse.
- **Mensuration Tools** – Specify the relationship of visual elements with these tools using imagery acquisition data or relative measurements. These measurements, along with text and vector annotations enable the transfer of knowledge to future users of image products. Reporting templates are provided in predefined layouts, so information is communicated in a clear, concise, and consistent manner.
- **Image Comparison** – When you need to compare a current image to previous images to detect changes over time, Image Scout's versatile image comparison functions help determine the historical context of the data. Blending, flickering, and vertical and horizontal wiping accentuate changes in the most apparent manner.

## Image Scout Components

- GeoMedia Professional tier
- GeoMedia Image Professional
  - Includes Image Light Table Plus from Overwatch Systems
- GeoMedia GeoDEX
- GeoMedia 3D (Image Scout 3D only)

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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 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](https://twitter.com/HexagonAB).

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