



# IMAGINE VECTOR™ PRODUCT DESCRIPTION

# IMAGINE Vector™

## Product Description

Focused on support of vector processing and data conversion, the IMAGINE Vector™ module can be added on to any level of ERDAS IMAGINE® to supplement native vector handling.

## Key Features

The following chart lists features available at the different licensing levels of ERDAS IMAGINE and its IMAGINE Vector add-on.

| Functionality  | IMAGINE Essentials® | IMAGINE Advantage® | IMAGINE Vector™ |
|--|---------------------|--------------------|-----------------|
| <b>Vector Editing, Display and Analysis</b>  |                     |                    |                 |
| Open existing ARC coverage, Shapefile or ArcSDE vector layer   | X                   | X                  | X               |
| Open existing Personal Geodatabase, Enterprise Geodatabase, VPF, Geography Network, ArcIMS or CAD feature layers * | X                   | X                  | X               |
| Open existing Oracle spatial geometries  | X                   | X                  | X               |
|  |                     |                    |                 |
| Create new ARC coverage or Shapefile   | X                   | X                  | X               |
| Create new Simple Personal Geodatabase *   | X                   | X                  | X               |
| Heads-up digitizing in Viewer, or digitizing tablet input  | X                   | X                  | X               |
| Single or double precision values  | X                   | X                  | X               |
| Specify node snap, arc snap, weed and grain tolerances   | X                   | X                  | X               |
| Add points, lines, polygons, tics  | X                   | X                  | X               |
| Create circles (and ellipses) by center and radius   | X                   | X                  | X               |
|  |                     |                    |                 |
| Region grow (automatically generate polygons based on image statistics)  | X                   | X                  | X               |
| Add selected AOI/annotation to vector layer  | X                   | X                  | X               |

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|--|---------------------|--------------------|-----------------|
| Split lines at user-defined location   | X                   | X                  | X               |
| Split polygon at user-defined line   | X                   | X                  | X               |
| Replace a portion of a line  | X                   | X                  | X               |
| Replace a portion of a polygon   | X                   | X                  | X               |
| Create new polygon by appending to side of existing polygon (share common boundaries)      | X                   | X                  | X               |
| Select features intersected by, or contained within, a rectangle, ellipse, polygon or line | X                   | X                  | X               |
| Cut, copy and paste selected features  | X                   | X                  | X               |
| Delete selected features without affecting the paste buffer                                | X                   | X                  | X               |
| Display vertices on a line and add, remove or reposition vertices                          | X                   | X                  | X               |
| Fit a cubic spline to selected feature   | X                   | X                  | X               |
| Add vertices to (densify) selected feature   | X                   | X                  | X               |
| Generalize the shape of selected feature   | X                   | X                  | X               |
| Unsplit (join) selected lines by removing pseudo nodes                                     | X                   | X                  | X               |
| Render arcs with user-defined line style   | X                   | X                  | X               |
| Render points with user-defined symbol   | X                   | X                  | X               |
| Render attribute value at point locations  | X                   | X                  | X               |
| Render polygons with user-defined fill style   | X                   | X                  | X               |
| Symbolize polygons with errors of no or multiple labels                                    | X                   | X                  | X               |
| Render tics with user-defined symbol   | X                   | X                  | X               |
| Render dangling, pseudo or all nodes with user-defined symbols                             | X                   | X                  | X               |
| Render bounding box  | X                   | X                  | X               |
| Specify the selection color for highlighting selected features                             | X                   | X                  | X               |

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|--|---------------------|--------------------|-----------------|
| Display the selected features only   | X                   | X                  | X               |
| Save and reload display settings   | X                   | X                  | X               |
| CellArray™ functions available for manipulating table contents: <ul style="list-style-type: none"> <li>Define new string, integer, real and date fields</li> <li>Enter attribute values while editing, including use of formula</li> <li>Display / edit attributes in a Form View, per selected feature</li> <li>Define Hyperlink from a feature to a web page or program</li> <li>Merge data from other tables</li> <li>Export attribute fields to new table</li> <li>Selecting features in the Viewer highlights the relevant records in the attribute table</li> <li>Selecting records in the attribute table highlights the relevant features in the Viewer</li> <li>Attribute-based selection of features, including criteria builder</li> <li>Statistical report generation for selected attributes</li> </ul> | X                   | X                  | X               |
| Attribute-based symbology  | X                   | X                  | X               |
| Blend, swipe and flicker vector layer  | X                   | X                  | X               |
| Specify layer visibility, without removing from Viewer   | X                   | X                  | X               |
| Print symbolized vectors via Map Composer  | X                   | X                  | X               |
| Search (buffer) features   |                     | X                  |                 |
| Index layers   |                     | X                  |                 |
| Overlay layers   |                     | X                  |                 |
| Matrix layers  |                     | X                  |                 |
| Zonal attributes   |                     | X                  |                 |
| Create continuous surface from discrete vectors  |                     | X                  |                 |

| Functionality  | IMAGINE Essentials® | IMAGINE Advantage® | IMAGINE Vector™ |
|--|---------------------|--------------------|-----------------|
| <b>Data Import/Export</b>                              |                     |                    |                 |
| ASCII to point coverage import/export                  | X                   | X                  | X               |
| ARC Interchange (vector and GRID) format import/export |                     |                    | X               |
| ESRI Shapefile to/from coverage conversion             |                     |                    | X               |
| ARC GRID import/export                                 | X                   | X                  | X               |
| ARC GRID/GRIDStack raster DLL                          | X                   | X                  | X               |
| MIF/MID (MapInfo) format import/export                 |                     |                    | X               |
| ARC Generate format import/export                      |                     |                    | X               |
| Intergraph IGDS/DGN import/export                      |                     |                    | X               |
| DFAD format import/export                              |                     |                    | X               |
| DLG format import/export                               |                     |                    | X               |
| DXF format import/export                               |                     |                    | X               |
| IGES format import/export                              |                     |                    | X               |
| SDTS Vector format import/export                       |                     |                    | X               |
| <b>Utilities**</b>                                     |                     |                    |                 |
| Clean and build vector layer topology                  |                     |                    | X               |
| Subset vector coverage                                 |                     |                    | X               |
| Mosaic polygon coverages                               |                     |                    | X               |
| Transform vector coverage                              |                     |                    | X               |
| Create polygon labels                                  |                     |                    | X               |

| Functionality   | IMAGINE Essentials® | IMAGINE Advantage® | IMAGINE Vector™ |
|---|---------------------|--------------------|-----------------|
| Raster to vector coverage   |                     |                    | X               |
| Vector to raster  |                     | X                  | X               |
| Table tool to view, edit, relate, import or export, copy, join, rename, delete and create info tables |                     |                    | X               |
| Copy vector layer   | X                   | X                  | X               |
| External vector coverage  | X                   | X                  | X               |
| Rename vector layer   | X                   | X                  | X               |
| Delete vector layer   | X                   | X                  | X               |
| Display vector layer info   | X                   | X                  | X               |
| Add vector layer projection parameters  | X                   | X                  | X               |
| Reproject coverage  | X                   | X                  | X               |
| Reproject 2D and 3D Shapefiles  | X                   | X                  | X               |
| Vertical Datum transformation for 3D Shapefiles   | X                   | X                  | X               |

\*Denotes features available only on the Windows platform

\*\*For ArcInfo coverages unless otherwise noted

## About ERDAS

ERDAS – The Earth to Business Company – helps organizations harness the information of the changing earth for greater advantage.

ERDAS creates geospatial business systems that transform our earth's data into business information, enabling individuals, businesses and public agencies to quickly access, manage, process and share that information from anywhere.

Using secure geospatial information, ERDAS solutions improve employee, customer and partner visibility to information, enabling them to respond faster and collaborate better. It also means better decision-making, increased productivity and new revenue streams.

ERDAS is a part of the Hexagon Group, Sweden. For more information about ERDAS or its products and services, please call +1 770 776 3400, toll free +1 866 534 2286, or visit [www.erdas.com](http://www.erdas.com).