



Operating Systems

Windows XP (32-bit and 64-bit)
 Windows Vista (32-bit and 64-bit)
 Linux Kernel 2.6.x (32-bit and 64-bit)
 Mac OS X (10.4/10.5) Intel 32-bit, PPC 32-bit
 Max OS X (10.5) Intel 64-bit
 Sun Solaris 10 (32-bit and 64-bit)

Data Import

ArcGIS® Geodatabase:

- personal (.mdb)
- file (.gdb)
- enterprise (.sde)

Elevation Data:

- DTED
- ESRI GRID Format
- ESRI Layers

Generic Image Formats:

- GeoJ2K
- JPEG
- JPEG 2000
- MrSID
- TIFF, GeoTIFF

GeoEye-1:

- GeoTIFF/RPC
- NITF/RPC

Image Processing Software Formats:

- ENVI (raster and classification)
- ERDAS (.img, .ige)
- MrSID (up to and including 3.0)
- RemoteView RSET (with NITF license)

Landsat MSS, TM, ETM, ETM+:

- GeoTIFF
- GeoTIFF with Metadata (MTL)

Military Formats:

- NITF 2.0, 2.1 (with license)

QuickBird:

- GEOTIFF / RPC
- NITF / RPC
- Mosaic Tiled

RapidEye:

- GEOTIFF
- NITF

SPOT DIMAP

Vector Formats:

- ESRI Shape (.shp) with attributes
- ENVI (.evf)

Output Formats

ArcGIS Geodatabase

Raster Formats:

- ENVI
- GeoTIFF
- NITF 1.1, 2.0, 2.1 (with license)
- TIFF

Vector Formats:

- ENVI Vector Format

Chip from Display to:

- File
- PowerPoint
- Print
- ArcMap

Export To:

- PDF
- EMF
- AI
- EPS
- SRG
- BMP
- JPEG
- PNG
- TIFF
- GIF

Export To

PDF

EMF

AI

EPS

SRG

BMP

JPEG

PNG

TIFF

GIF

Display Functions

Chip To:

- File
- PowerPoint
- Print
- ArcMap

Drag/Drop from:

- ArcGIS
- File System
- Windows Explorer
- Data Manager

Drag/Drop to the:

- Display
- Process

Workflows

GeoLink with ArcMap

Color Mapping

Cursor Query for Data/Screen Value, Elevation,

Map Coordinates

Dynamic Overlays

Image Flickering

Image Overlays:

- Annotation
- Classification Results
- Density (gray level) Color Slicing
- Grid Lines
- Regions of Interest
- .SHP files
- Vector Layers

Interactive Histograms & Stretching:

- Arbitrary Stretching
- Auto Apply Stretches
- Gaussian Stretching
- Histogram Equalization Stretching
- Histogram Matching Between Displays
- Linear, Piecewise Linear Stretching
- Square Root Stretching

Output Displays to File or Printer

Preview Portals

Quick Color-Infrared, True-Color Displays

Set Default Display Bands

Sub-Pixel Cursor Location

Unlimited Number of Layers

Vector Overlays & GIS Capabilities

Data Preparation

Mask Generation From:

- Annotation
- .SHP files
- Geodatabase
- Vectors

Define Spatial Subset by:

- Display
- File, Map Coordinates
- NITF Metadata Browser
- Rotate/Flip Data
- Stretch Data

Registration & Rectification

Rational Polynomial Coefficients

(RPCs) Support

RPC Orthorectification Workflow

Rotated Projections

Map Projection Support

Datum Support (>100)

Dozens of Prebuilt Map Projections (Examples Include):

- Universal Transverse Mercator (UTM)
- State Plane
- Gauss-Kruger
- Map Grid of Australia
- Mississippi Standard Transverse Mercator

Ellipsoid Support (>35)

French RGF projection

Pseudo-Projections from RPCs and RSM

USGS GCTP Projections, Including:

- Albers Conical Equal Area
- Azimuthal Equal Area
- Lambert Conformal Conic
- Space Oblique Mercator (A & B)
- Stereographic
- Transverse Mercator

Vector Functions

Add Nodes to Vectors

Annotate Vector Windows

Attributes:

- Query Vector Attributes

Burn-in Vectors on Raster Image

Convert Vector Layer Projection

Create New Vector Layers

Direct Printing of GIS Layers

Display Vectors with Different Projections in the Same Window

Drag/Drop to Arrange Layer Order

Edit Layer Characteristics

Export Vector Data to Common GIS Formats

Export Vector Attributes

Heads-up (On-screen) Digitizing

Import Common Formats:

- ESRI Shapefiles
- ENVI Vector Format
- Import from ArcGIS GeoDatabase

(continued on back)

Interactive Vector Layer Querying
Join Vectors
Multiple Vector Selection
On-the-fly Vector Projection Conversion
Raster to Vector Conversions
Save Vectors to ArcGIS GeoDatabase
Split Vectors
Vector Cursor Query
Vector Display Zooming
Vector Editing
Vector to Raster Conversion
Query and Display Attributes

Spectral Analysis Tools

Anomaly Detection
Thematic Change Detection
Image Difference Change Detection
Classification Workflow
Vegetation Suppression

Transforms

Pan/Image Sharpening:
• Gram-Schmidt Spectral

Image Classification

Anomaly Detection
Classification Workflow (Supervised and Unsupervised)
Change Detection Workflow
Automatic Legends for Classified Images
Change Detection
Classification Preview
Class Statistics
Classification from ROIs
Feature Extraction Workflow

Post Classification Tools

Classification to Vector
Class Statistics
Spatial Functions:
• Majority & Aggregation Analysis

Map Composition

All supported data formats
ESRI Map templates
Cartographic Symbols

General Interface & Operation

8- and 24-Bit Color
Context-Sensitive Mouse Descriptions
Cursor Coordinates (Pixel & Map) , Data Values,
and Elevations
Efficient Memory Management
Extensive Preferences Settings
Logical Graphical User Interface
Multi-Processor Aware Algorithms
Platform-Independent Operation
Support for Files Greater than 2GB

Documentation

Context-Sensitive Help
Module Documentation
On-line, Hyperlinked Documentation
Printed Documentation
Training Manuals
Tutorials & Sample Data
User's Guide

