

SuperGIS 3D Analyst 2.0

Specification Description

Spatial Surface Analysis

- Interpolation is supported, which includes Inverse Distance Weighted (IDW) and trend, allowing users to use the sample point data to estimate the data for a continuous surface.
- Viewshed Analyst is supported, enabling users to analyze by importing known points or selecting a point on the map by mouse.
- Slope Analyst is supported, and users can choose the display method in degree, radius and percentage.
- Aspect Analyst is supported.
- Curve Analyst is supported, which contains three analysis methods: f Normal, Profile and Plan.
- Contour Analyst is supported.
- Cut/Fill Analyst is supported.
- Hillshade Analyst is supported, allowing users to set up the azimuth and altitude.
- The calculations of surface length, surface spot and surface volume are supported.

Image data statistics and processing

- With image calculation function, users can perform logic operations and mathematical calculations to raster data.
- Users can merge images by the image calculation function to obtain results of image clipping.
- Raster to Vector data conversion is supported.
- Vector to Raster data conversion is supported.
- Reclassify function is supported.

3D display

- A 3D window environment based on the dynamic earth model is provided.
- Users can zoom in/out, pan, browse and inquire on the 3D window.
- The elevation, azimuth and tilt angle of the current view point are provided but users can also set these information by themselves.

- On the layer manager interface, users can configure the settings for overlaying or displaying image and vector layers, which include layer classification, visible scale and text labels.
- Displayed with different effects by adjusting the hillshade angle.
- Creates a 3D surface model by inputting DTM values.
- Users can set the exaggeration level of 3D elevation values.
- With image classification segment technology, high-resolution surface model can be shown when zoomed into a part of the area.
- Measuring tools are provided for obtaining surface distance.
- Flight simulation to a specified target is provided.
- Users can set personal POI.
- Can perform extrusion according to the height attribute of planar spatial object to result a 3D effect.
- Extruded 3D objects can be displayed via classified colors according to the height or other attribute values.
- Through LOD (Level of Detail) technology, 3D model or image overlay can be displayed according to the different resolution at different scales or the logical display order of objects at different distances.
- Fade-in technology can present the switch between LOD data.
- After inputting a layer and its DTM elevation data, the 3D model of the layer will be demonstrated in Viewer.

Support file format

- GEO (SuperGeo GEO Format) and vector files in Shapefile format are supported.
- Raster formats of *.bmp, *.jpg, *.png, *.sid, *.ecw, *.lan and Geo Tiff are supported.
- Supports the import/export of POI files in kml format.
- Importing of 3D model files in *.x, *.3ds and *.kmz (Google Earth) for display is supported.

User interface and environment

- Can only be used on the Desktop SuperGIS platform.
- In accordance to the extensions of SuperGIS COM structure.
- User interface available in both Chinese and English.
- Complete Chinese and English user manuals.

System Requirements

- CPU: Pentium III 500 or above
- RAM: 512MB or above
- Hard drive capacity: 400MB or above
- Video card: 3D-capable with 32MB of VRAM
- Operating system: Windows 2000/Windows XP/Windows 2003/Windows Vista
- If your video card does not support DirectX 9.0 or above, please install Microsoft DirectX 9.0 Runtime or update your video card driver to the latest version.