

# Leica Virtual Explorer™ Client Product Description



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# Leica Virtual Explorer™ Client

## Overview

Leica Virtual Explorer Client is the portal to the virtual perception created with the Leica Virtual Explorer product line. Leica Virtual Explorer Client is the common interface used to access high resolution Leica Virtual Explorer scenes whether distributed via CD/DVD or streamed over the Internet. This freely-distributable client application enables Microsoft Windows users to explore Leica Virtual Explorer scenes in 3D and to use an essential subset of the analysis tools contained in Leica Virtual Explorer Architect. Key capabilities include:

- Customize your personal viewing environment by independently toggling raster layers, terrain layers, vector layers and any other feature layer on and off.
- Smoothly explore the 3D scene controlling speed, altitude and viewing angle with mouse and keyboard controls using five different navigation modes.
- Denote planned paths and areas of interest by using the Overlay Tools to mark up lines and polygons as well as complex paths using the freehand pencil.
- View / identify feature attribute information and open hyperlinks.
- Record flight paths and play predefined animations.
- Save an index of Favorite Locations for quick future access.
- Use the Geocoding feature to quickly find locations around the globe by searching street addresses and area codes.
- Use the Database Search tool to query vector databases and find specific features.
- Ability to join any Leica Virtual Explorer Server scene.
- Join Leica Virtual Explorer Collaboration sessions to collaborate with other users in real-time.

The numerous distribution options compatible with Leica Virtual Explorer Client make it an ideal solution for any public or private application requiring free access to a high quality, three dimensional understanding of spatial data. Its user friendly interface and flexibility like no other make Leica Virtual Explorer Client a solution for a wide variety of commercial and professional uses.

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## Key Features

### Visualize 3D Geographic Data

- Remotely access Leica Virtual Explorer 3D scenes via Internet streaming or CD/DVD distribution.
- Catalog Leica Virtual Explorer Servers, login information and associated scenes for easy future access.
- Leica Virtual Explorer scenes can be quickly and easily customized at any time using the Layer tree:
  - Change the display order of a wide variety of geospatial layers.
  - Independently toggle any layer on and off.
  - Customize the appearance and properties of each layer.
  - Perform routine commands on each layer.
  - "Jump to" each layer.
- Define surrounding-cube images to provide an encompassing environment.

### Visual Navigation

- Mouse-operated 3D angular pan, zoom and flight control.
- Five unique navigation modes including interactive pivoting around a defined target point.
- Customize each navigation mode (speed scale, minimum height, maximum height) or create new navigation modes with different properties.
- Enter keyboard location parameters for precise positioning.
- User-defined flight paths:
  - Manual digitizing in a 3D view.
  - Keyboard entry of precise flight path vertices.
  - 3D editing and update in the 3D view.
  - Record and playback path flown.
  - View in directions independent of user flight direction.
- Automatically "fly to" selected raster images, vector layers or individual vector features and other GIS features in scene.
- Automatically "fly to" animated objects or follow animation flight paths.
- Save unlimited Favorite Places in a catalog for future return.

### GIS Analysis

Leica Virtual Explorer Client allows GIS users to fully analyze their data with an array of tools useful for GIS analysis:

- Investigate attributes of any GIS data layer or individual feature:
  - Display attribute information on screen by selecting features with mouse.
  - Display attribute information of GIS features in tabular form.
  - Query attribute information using custom filters or script filters.
  - Automatically "fly to" queried GIS features.
  - Change the display color of queried vector features in 3D view.
- Quickly find a location of interest using a built-in geocoding service or by adding a custom geocoding service.
- Perform vector database searches for attribute information on several files at once.

### Animation

- Play unlimited number of separate animations.
- Play controls, including play, pause, increase play speed and decrease play speed.

### Analysis Tools

- Interactively place "billboarded" labels using mouse click or precisely configure position, pointer size and text scale using keyboard entry.
- Interactively measure slope distances on the 3D terrain configuring the number of intermediate points used in the distance calculation.
- Interactively measure ground distances along the 3D surface.
- Mark up the 3D terrain with Overlay Tools (line, polygon and freehand pencil).
- Attach hyperlinks to all analysis tools enabling local files to be launched or to link to a Web page.
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### Supports Leica Virtual Explorer Collaboration

Leica Virtual Explorer Pro Clients have limited access to Leica Virtual Explorer Collaboration capabilities:

- Join and leave collaboration sessions
- One way communication of geospatial features placed by all Leica Virtual Explorer Pro Clients in collaboration session:
  - Vector and 3D model layer updates
  - Ground and slope distance measurements
  - Symbols, labels and intervisibility calculations
  - Mark ups on the 3D terrain
  - Annotations made to 3D view (Text Boxes, Logo Layers and 2D Pointers)
  - Bush, fence and texturized building models updates along with single point, linear and polygonal model coverages
  - Cut/crop and blend raster edits made to layers in 3D scene
- Attach to other collaboration session participants
- Chat to other participants in collaboration session chat room

## About Leica Geosystems Geospatial Imaging Division

When building image-based maps, you need reliable measurements and solutions for your entire workflow. So when it has to be right, more geospatial professionals trust Leica Geosystems Geospatial Imaging, LLC to help them collect, analyze, and present spatial information. Leica Geosystems is powering geospatial imaging by putting precise imaging to work. Its broad array of photogrammetry and remote sensing software solutions capture data efficiently, reference imagery accurately, measure and analyze easily and present spatial information, even in 3D. Those who use Leica Geosystems Geospatial Imaging products every day trust them for their precision, their seamless integration, and their superior customer support. Delivering geospatial imaging solutions with precision, integration, and service from Leica Geosystems.

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