

# Geogrid<sup>®</sup>-Viewer

Geographic data viewer for the public user



# Geogrid®-Viewer, the visualisation software for successful CD products

## EADS experience in military and civil applications

Based on its experience in satellite and defence systems, EADS created the Geogrid®-Viewer as the visualisation software for geographic data presentation and application for the public market. The product is offered, along with a multi-purpose application software to mapping agencies and map publishers who intend to commercialise their data.

For more than 15 years, the Geogrid® software family has been a leading product line for geographic data visualisation in both the domestic military and civil markets. A number of key export customers also rely on Geogrid® technology.

Recent research has shown that over 80% of the information worldwide hold in databases is related to a geographic coordinate (e.g. location based services, transport, pollution, real estate, tourism etc.).

Digital geographic data are available at high quality and with detailed information from many organisations. The challenge which most survey organi-

sations face is how to bring these data to the public market and how to offer useful applications.

EADS meets these requirements with the Geogrid®-Viewer, which has been successfully applied to consumer CD/DVD products during the last eight years in Germany and Austria, and has over 400,000 users. EADS offers complete support to customers from design to final production. After design and layout of the product the customer delivers the data to EADS and, in return, receives the ready-to-sell products for distribution. Whatever the geographical data (maps, orthophotos, satellite images) including elevation and gazetteer to be configured, Geogrid®-Viewer is the ideal tool for high-quality products.

## Geogrid®-Viewer 6

With the Geogrid®-Viewer 6, EADS starts a new generation of viewers. 3D capability in the application window for terrain and graphics visualisation, new flight control-panel, easier map-selection, selection of elevation-model, direct access to gazetteer-data, new OGC-compatible ovl-format and many other improvements.

## References

The main Geogrid®-Viewer products on the market are:

- TOP 200: 1 CD, scale 1:200,000, of Germany (Federal Agency BKG)
- TOP 50: 13 CDs, scale 1:50,000, of Germany (Survey Agencies of Germany)
- TOP 25 BW: 2 CDs, scale 1:25,000, of Baden-Württemberg (LVerma BW)
- TOP 25 SH: 1 DVD, scale 1:25,000, of Schleswig-Holstein/Hamburg (LVerma SH/HH)
- WR50: 1 CD, scale 1:50,000, special maps for hikers and bikers with additional multi-media information for leisure activities in Baden-Württemberg (LVerma BW)
- TOP10 NRW: 1 DVD, scale 1:10,000, by the Survey Agency of North-Rhine/Westphalia (LVerma NRW)
- AustrianMap: 1 DVD, scale 1:50,000, by the Austrian Federal Survey Agency (BEV)
- Die Generalkarte: 1 CD, scale 1:200,000, of Germany for cardrivers by MAP&GUIDE GmbH
- Aeronautical Chart ICAO: 1 CD, scale 1:5000,000, of Germany (DFS)
- Luftbildatlas Bayern: 8 DVD, colour orthophotos with 80 cm resolution (LVG Bayern end 2006)



[www.lverma.nrw.de](http://www.lverma.nrw.de)



[www.adv-online.de](http://www.adv-online.de)



[www.lv-bw.de](http://www.lv-bw.de)



[www.bev.gv.at](http://www.bev.gv.at)



[www.mapandguide.com](http://www.mapandguide.com)



[www.dfs.de](http://www.dfs.de)

## User benefits



- Complete set of geographic functions
- Overlay and database management
- GPS navigation
- Elevation displays
- Multi-CD management
- MS-Office compatible

## Geogrid®-Viewer 6



- 3D terrain in application window
- 3D graphics in application window
- Flight mode in application window
- Flight control panel
- Map selection with globe-view
- Digital elevation model data selection
- Extended graphics menu
- Easy object selection

## Multimedia data



- Multiple thematic layers (e.g. touristic highlights, museums, caves)
- Multimedia data presentation for any thematic symbol

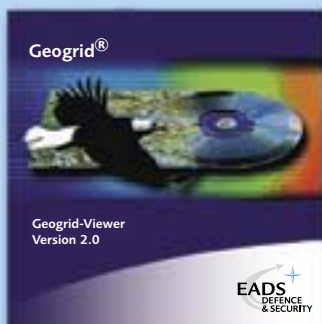
## Software Developer Kits (SDK)

### Geogrid®-PlugIn

- Integration of Geogrid®-Viewer into user-specific applications and vice versa
- Access to most of the Geogrid®-Viewer functions

### MapAccess.dll

- Access to map data from the user application
- Setting of display parameters
- Map file administration



Geogrid® PlugIn



MapAccess.dll



# Geogrid®-Viewer functions

## Basics

- MS-Windows styleguide user interface
- MS-Office compatible,
- 3 languages (English, French, German, others upon request)
- Multi-window technique with coupled windows
- Online help
- Selection of geographic system, geodetic datum and coordinate grid
- Parameter setting (units, colour tables for elevation functions, data sources etc.)

## Map functions

- Map access to all available scales in the network
- Overview map
- Seamless panning and scrolling
- Zoom (+/-), dim (+/-)
- Comfortable print function (screen, defined area, true-to-scale etc.) including overlays and legends
- Measure distances and areas
- Automatic map change

## Elevation functions in 3D

- Shaded relief (online calculation of grey-scale shading of the map background)
- Coloured elevation layers
- Path profile (show profile of a polyline path)
- 3D view (red/green anaglyphic)

- Dynamic perspective view in the application window with control panel (free flight over map area, recording of flight parameters, route planning mode)

## Graphics in 3D

- Basic graphic 2D elements (line, circle, rectangle, area, bitmaps, text) projected on terrain
- 3D offset over ground
- Graphics transparent mode
- Group, ungroup, graphics to front/back
- Graphics are stored with their reference coordinate
- Graphics can be linked to multimedia information

## Overlays in 3D

- Graphics are stored as an overlay file (incl. map ref.)
- Edit overlays

## Multimedia presentation (option)

- Button toolbar for thematic information overlay display
- Presentation of all information on a HTML page

## Road network display (option)

- Dynamic display of road network on top of topographical raster map or orthoimages
- Display of street names

## Database

- Basic databases provided (gazetteer, addresses, points of interest etc.)
- User-defined database
- Adding graphics and multimedia objects
- Import ASCII interface

## GPS navigation

- GPS interface (NMEA) for online tracking
- Track recording/replay
- Waypoint up/down load for specific receivers

## Minimum system requirements

- Processor: Pentium
- Memory: 32 MB
- Windows NT 4.0 SP6, 2000, XP

## System requirements for dynamic perspective view (recommended)

- Pentium III, 500 MHz
- 3D OpenGL compatible graphics board 32 MB

## EADS customer service

- Product conception
- Map scanning (if required)
- Raster data preparation
- Customer-specific software extension
- Software configuration
- Data configuration
- Final product configuration
- Production

## EADS

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