

Fledermaus 7: Bundles

Complete solutions for ocean mapping processing, quality control, analysis, and interpretation.

Fledermaus is the industry leading interactive 3D geo-spatial processing and analysis tool. With the release of Version 7.0 we have moved this to the next dimension: the addition of a fully integrated time reference allowing users to work in a true 4D space and time environment.

IVS 3D has also paid attention to our clients requests and re-packaged the Fledermaus suite of software into bundles focused specifically on their requirements and workflows:

FM Viz4D

Fledermaus 4D – working in space and time

- Intuitive high-resolution visualizations of data for analysis and interpretation, from multiple data formats and sources.
- Time framework, full geo-spatial referencing, simplified surface creation, and integrated suite of quantitative tools.
- Used by researchers, educators, content developers, outreach professionals, cartographers, illustrators, and marketing personnel.

FM Hydro

Beyond charting - the modern hydrographic workflow

- Premier tool for fast and efficient geo-spatial processing, quality control, and validation of hydrographic survey data.
- Most flexible CUBE⁽¹⁾ implementation available for rapid surface and sounding processing and verification.
- Used by surveyors/data processors in the field, charge surveyors/data QC personnel ashore, and charting authorities verifying data for databases and charting.

FM Habitat

The integrated marine habitat toolbox

- Only software package to combine 4D visualization with cutting-edge backscatter processing (FM Geocoder⁽²⁾) and bathymetric analysis for seabed characterization.

- Generate and export the results of seabed interpretation and associated information in a variety of common industry formats.
- Used by geoscientists and technicians characterizing the seafloor, and interdisciplinary habitat mapping teams of biologists, geologists, and managers requiring a collaborative working environment, efficient classification tool, and presentation software.

FM Offshore

Modern and dynamic tools for offshore projects

- Tools for the planning, monitoring, and review of seabed engineering and construction projects.
- Enhance site investigations, identify geohazards, and manipulate and analyze proposed route design information in an intuitive virtual environment.
- Used by project surveyors planning projects, data processors, project engineers, site investigation teams, offshore surveyors, and ROV supervisors.

FM Pro

The ultimate bundle

- The complete Fledermaus software suite.
- Combines all the functionality from the individual FM bundles, providing those companies and organizations that work across all areas of ocean mapping every tool that might be required.

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Features	FM Viz4D	FM Habitat	FM Offshore	FM Hydro	FM Pro
Cross-Platform: Windows, Mac & Linux	X	X	X	X	X
Stereo-capable 4D visualization (split screen and full stereo)	X	X	X	X	X
Create a 3D surface model and multivariate surfaces from a variety of ungridded and gridded data types	X	X	X	X	X
Interpolate, mask, crop, or resample grids to get the best possible interpretation of the seafloor	X	X	X	X	X
Import of ancillary data including imagery, ESRI shapefiles, AutoCAD DXF and DWG, points, lines, 3DS models, and ENCs	X	X	X	X	X
Drape sidescan mosaics, backscatter, charts, and other imagery onto surfaces	X	X	X	X	X
Show object and surface change over time using time stamped data	X	X	X	X	X
Perform slope, rate of change, and surface difference calculations	X	X	X	X	X
Interactively digitize and label	X	X	X	X	X
Real-time tracking of objects (vessels, animals, etc.) via serial cable, UDP packet, or logged string	X	X	X	X	X
Generate and export points, lines, polygons, contours, grids in industry-standard formats	X	X	X	X	X
Create editable key-framed flight-paths; output key frames or MPEG movies	X	X	X	X	X
Produce high-resolution graphics for reports, posters, and publications	X	X	X	X	X
Export Google Earth KML and KMZ files	X	X	X	X	X
Create corrected backscatter data using FM Geocoder	opt.	X	opt.	opt.	X
Semi-automated seafloor characterization	opt.	X	opt.	opt.	X
Analyze and interpret integrated bathymetry and backscatter data	opt.	X	opt.	opt.	X
Project and workflow management		X	X	X	X
Interactively plan routes for pipelines and cables			X		X
Calculate and export fixed pipeline length data files			X		X
Generate and export long and cross profiles for use in engineering analysis			X		X
Import a variety of multibeam and lidar formats for area-based editing				X	X
Flexible auto-processing of data with CUBE algorithm and filters				X	X
State of the art QC and validation tools				X	X
Sounding, feature, and contact selection and export for database and charting				X	X
Navigation surface (BAG) production and export				X	X
Free Viewer for sharing and distribution of files	X	X	X	X	X

Notes:

(1) The CUBE algorithm was developed by Dr. Brian Calder at the Center for Coastal and Ocean Mapping/Joint Hydrographic Center at the University of New Hampshire.

(2) The FM Geocoder product originates from research by Dr. Luciano Fonseca at the Center for Coastal and Ocean Mapping/Joint Hydrographic Center at the University of New Hampshire.

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