

# Echoview

## Data & hardware support

Echoview® is the industry-standard software for marine and freshwater hydroacoustic data processing, and is compatible with an unrivalled range of data file formats.

As a result of close and ongoing collaboration with manufacturers and the research community, Echoview supports data from:

- Single beam echosounders, including:
  - Single beam, dual beam and split beam systems
  - Wideband/broadband systems
- Multibeam echosounders and sonars, including imaging sonars/acoustic cameras
- Omnisonars and scanning sonars
- Acoustic Doppler current profilers (ADCP)
- Video and still cameras
- External sensors

## Supported hardware

### Single beam echosounders

- **ASL Environmental Services** Acoustic Zooplankton Fish Profiler (AZFP)
- **BioSonics** model 102, DE4000, DE5000, DE6000, DT4000, DT5000, DT6000, DTX
- **Furuno** FQ80, ETR-30N, FCV-30
- **HTI** Models 241, 243, 244
- **Precision Acoustic Systems** PAS-103
- **SciFish** 2100
- **Simrad** EK80 (including WBT, WBAT, ES80), EK70, EK60, EK15, ES70, ES60, EQ60, EY60, EK500
- **Sonic** (formerly **Kaijo**) KFC-6000/KSE-300, KFC, KFS
- **Kongsberg** EA500, EY500, EA400, EA600, EA640
- **SonarData** EchoListener

### Wideband/broadband echosounders

- **Simrad** EK80 family (including WBT, WBAT, ES80)
- **Kongsberg** EA640

### Multibeam echosounders and sonars

- **Kongsberg Mesotech** EM series, M3, Flexview
- **Simrad** SM2000, ME70, SH90, SX90
- **Sound Metrics** ARIS, DIDSON
- **BlueView** 2D imaging sonars

- **RESON** SeaBat T20, 6K, 7K, 8K
- **WASSP** WMB-3250

### Omnisonar and scanning sonars

- **Kongsberg Mesotech** MS 1000
- **Simrad** SX90, SC90, SH90, SU90, SH80, SP70

### ADCP

- **RD Instruments** Workhorse series

### Media

- Video logged to \*.mov, \*.avi, \*.wmv, \*.mpeg, \*.mp4, \*.m4v
- Images saved as \*.jpg, \*.jpeg

### External sensors

- Data from selected external sensors such as GPS units, motion reference units and trawl sensors that is recorded to supported file formats listed above.

## Other hardware

If your hardware model is not listed but similar instruments from the same manufacturer are listed, Echoview may be able to read your files.

File format compatibility can be confirmed (without a license) by downloading and installing Echoview, which is available from our website. Start Echoview, and on the **File** menu click **New**. Click **Add** on the **Filesets** window and select your data files. Raw variables will be extracted and shown if the data format is compatible, or a message will be shown if not compatible.

## Generic file formats

Unsupported file formats can be converted or written to generic formats for immediate use in Echoview. Echoview Software collaborates with hardware companies to provide compatibility via the Echoview-defined binary EVD file format. Companies using the EVD format include:

- **iXblue** SeapiX
- **Zunibal** ZSR

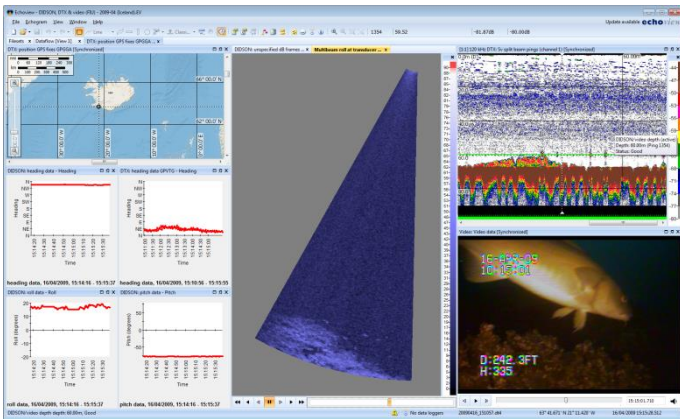
Other generic data file formats include text (CSV) files and the ICES standard HAC format.

## Contact us

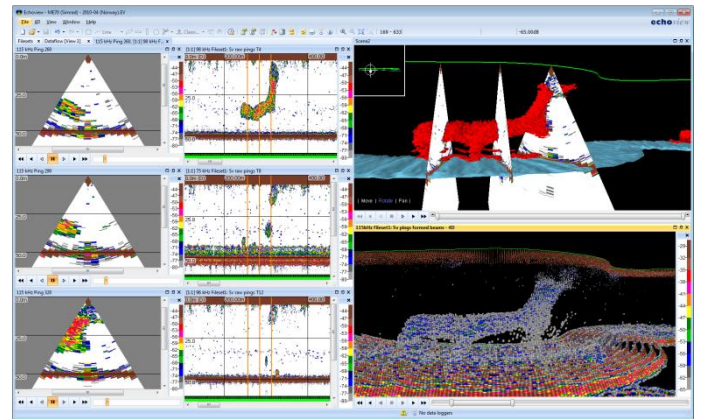
If you would like to discuss support for a new file format, or would like more information about supported hardware and file formats, please contact support@echoview.com.



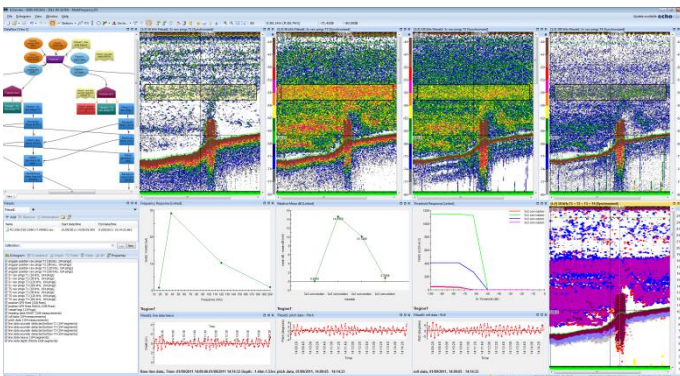
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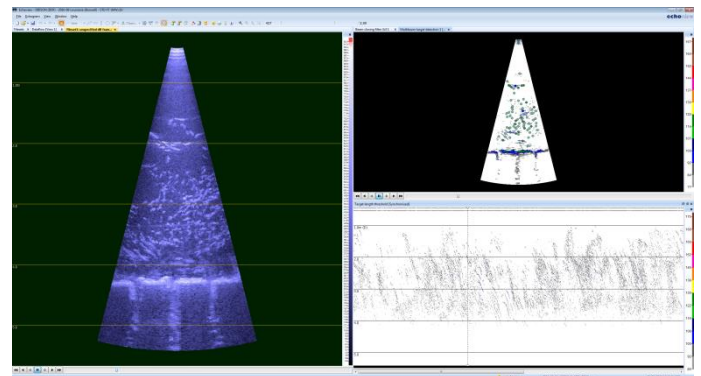
Multiple data files and different types of data can be visualized and analyzed simultaneously in Echoview. This example shows imaging sonar, echosounder, video, vessel motion and GPS data collected from a vessel off the coast of Iceland.



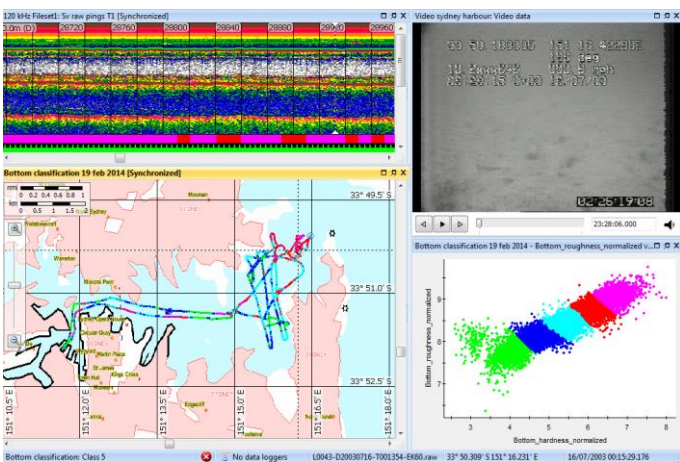
Multibeam systems enable users to analyze hydroacoustic data in 4 dimensions, giving greater insight into fish and plankton aggregations, submerged aquatic vegetation and gas seeps.



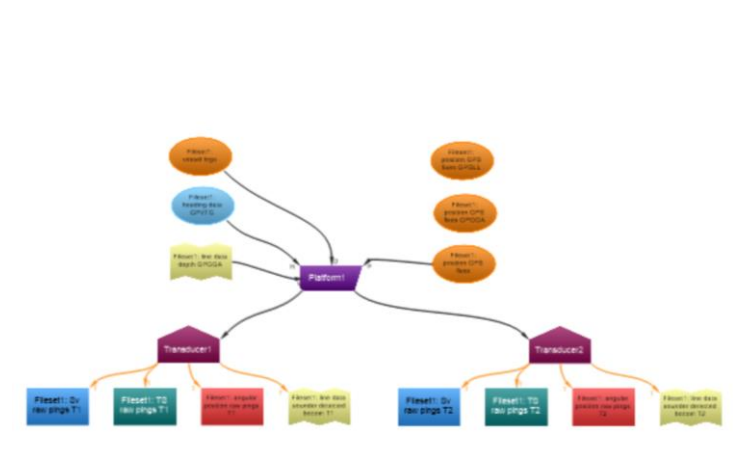
Complex data processing algorithms can be implemented in Echoview. This example shows the implementation of a published multifrequency algorithm (Jech & Michaels 2006) for species identification from echosounder data.



Data from imaging sonars such as Sound Metrics DIDSON and ARIS can be used to count fish and analyze fine-scale fish movement and behavior.



Acoustic bottom classification from single beam echosounder data can be performed in Echoview. This example shows echosounder and video data collected in Sydney Harbour and a scatterplot of E1 vs. E2.



The Dataflow window provides a graphical representation of the raw information extracted from logged data files and the data-processing steps that you have specified.