

Echoview

data & hardware support

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

As a result of close and ongoing collaboration with the fisheries acoustics 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 data from imaging sonars/acoustic cameras)
- Omnisonar and scanning sonars
- Acoustic Doppler current profilers (ADCP)
- Video cameras
- External sensors

Supported hardware

Echoview supports the binary file formats logged by a wide range of hardware, and support is added for new formats as required. The complete and most recent list of supported formats is provided in the Echoview help file.

Single-beam echosounders

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

Wideband/broadband echosounders

- **Simrad** EK80

Multibeam echosounders and sonars

- **Kongsberg Mesotech** EM series, M3

- **Simrad** SM2000, ME70, SH90 and SX90
- **Sound Metrics** ARIS and DIDSON
- **BlueView** 2D imaging sonars
- **RESON** SeaBat T20, 6K series, 7K series and 8K series
- **WASSP** WMB-3250

Omnisonar and scanning sonars

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

ADCP

- **RD Instruments** Workhorse series

Video cameras

- Video logged to *.mov, *.avi, *.wmv, *.mpeg, *.mp4 or *.m4v file format

External sensors

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

Other hardware

If your hardware 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 by downloading and installing Echoview, which is available from our website. Start Echoview, and then on the **File** menu click **New**. Click **Add** on the **Filesets** window that appears 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. A license is not required to try this.

Generic file formats

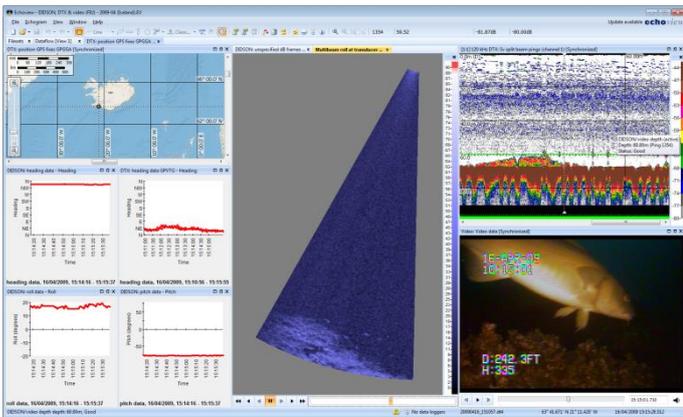
Unsupported file formats can be converted to a generic format for immediate use in Echoview. Generic formats include a range of Echoview-specific text file (CSV) formats and the ICES standard HAC format. Full details are provided in the Echoview help file.

Contact us

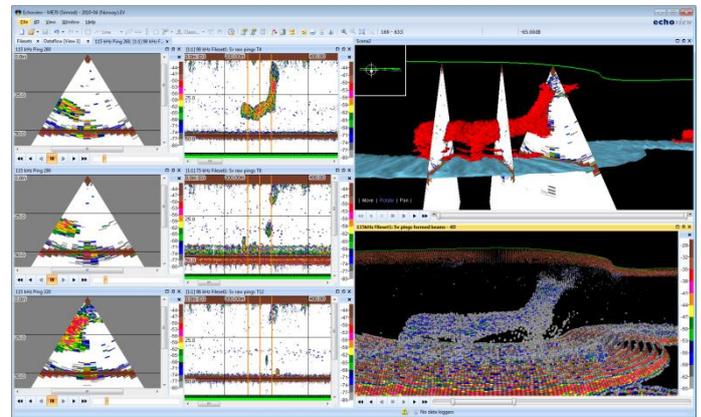
If you would like to discuss support for a new file format, or would like more information about supported hardware and file formats, please contact support@echoview.com.



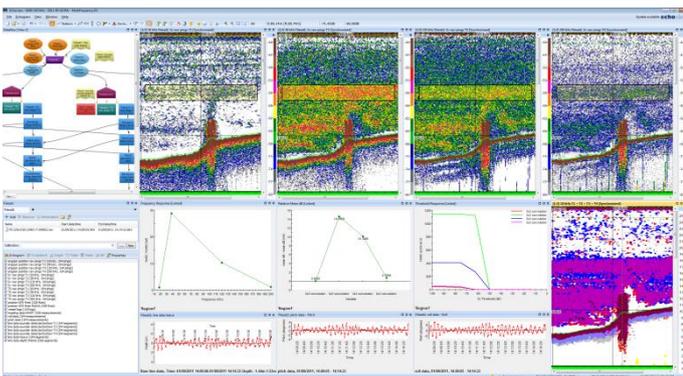
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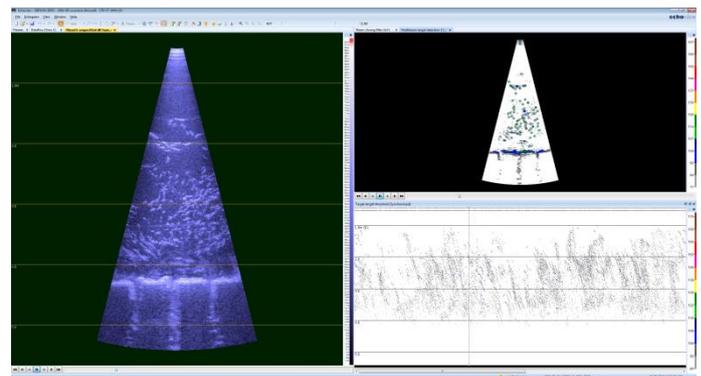
Multiple data files and different types of data can be visualized and analyzed simultaneously in Echoview. This example shows imaging-sonar, echosounder, video, vessel-motion and GPS data collected from a vessel off the coast of Iceland.



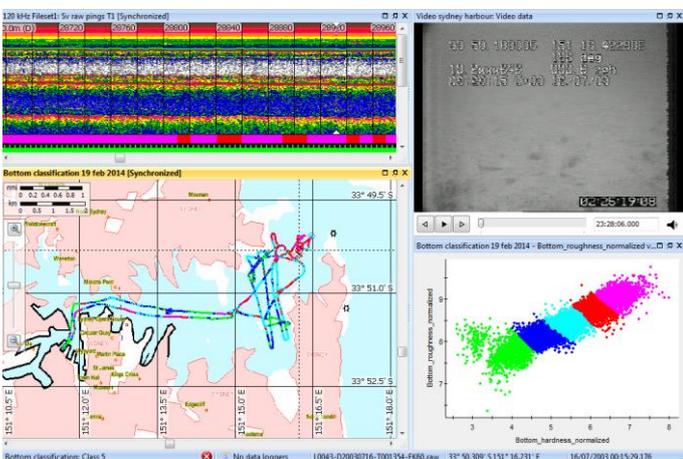
Multibeam systems enable users to analyze hydroacoustic data in 4 dimensions, giving greater insight into fish and plankton aggregations, submerged aquatic vegetation and gas seeps.



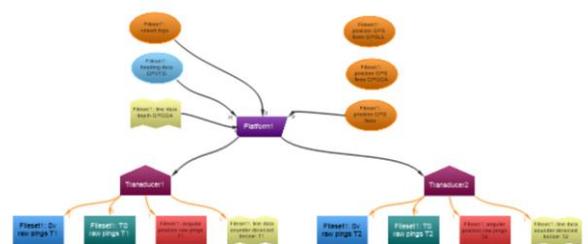
Complex data-processing algorithms can be implemented in Echoview. This example shows the implementation of a published multifrequency algorithm (Jech & Michaels 2006) for species identification from echosounder data.



Imaging sonar data can be used to count fish and analyze fine-scale fish movement and behaviour.



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.