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, FCV-38
- **HTI** models 241, 243, 244
- **Kongsberg** EA640, EA500, EY500, EA600 and EA400
- **Nortek** Signature profilers
- **R2Sonic** Sonic series recorded by QINSy or HYPACK, including TruePix
- **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

Wideband/broadband echosounders

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

Multibeam echosounders and sonars

- **Blueprint** Subsea Oculus
- **BlueView** 2D imaging sonars
- **Kongsberg Mesotech** EM series, M3, Flexview
- **RESON** SeaBat T20, 6K, 7K, 8K (including s7k water column format used by Norbit, Odom)
- **Simrad** SM2000, ME70, SH90, SX90
- **Sound Metrics** ARIS, DIDSON
- **WASSP** WMB-3250, F3, and generation 3 systems

Omnisonar and scanning sonars

- **Furuno** FSV-30R, FSV-25
- **Kongsberg Mesotech** MS 1000
- **Simrad** SX90, SC90, SH90, SU90, SH80, SP70, SN90, CS90, SY50, MF90, ST90

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, including:

- **Exail** (formerly iXblue) SeapiX
- **Zunibal** ZSR

Other generic data file formats include text (CSV) files, and the ICES standard HAC and SONAR-netCDF4 formats.

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 info@echoview.com.

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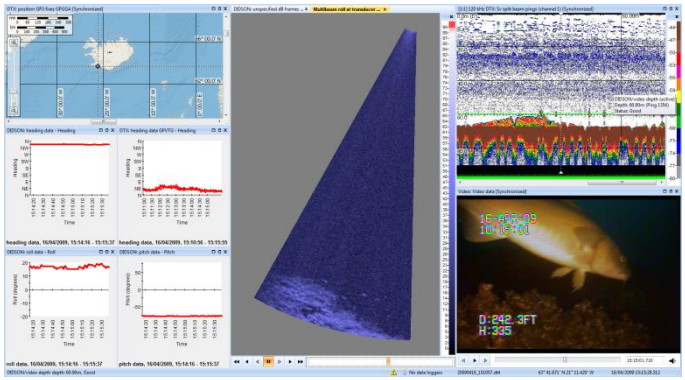
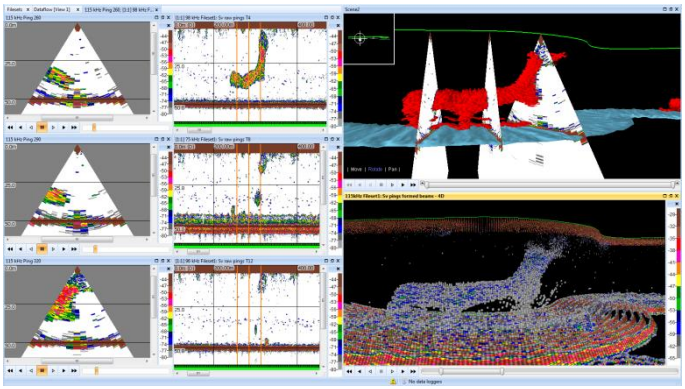
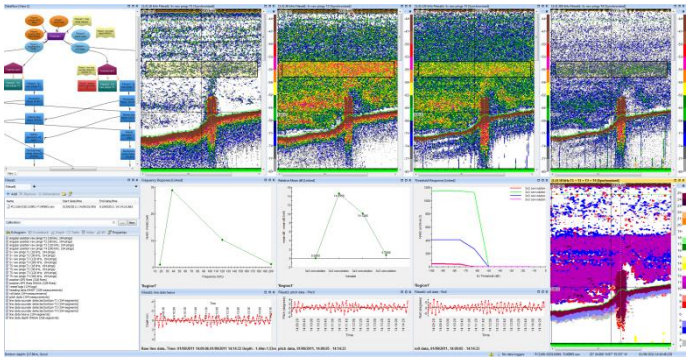


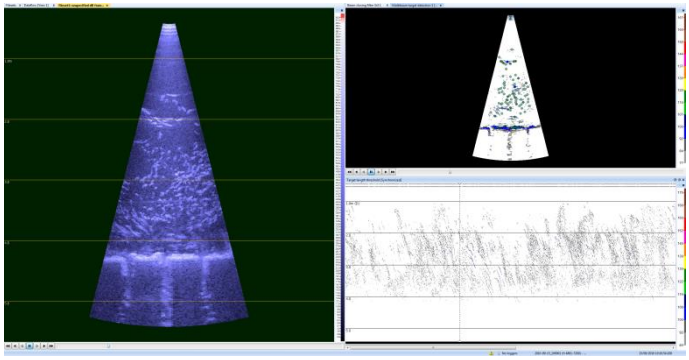
Multiple data files and different types of data can be visualized and analyzed simultaneously in Echoview. This example shows imaging sonar, echosounder, video, vessel motion and GPS data collected from a vessel off the coast of Iceland.



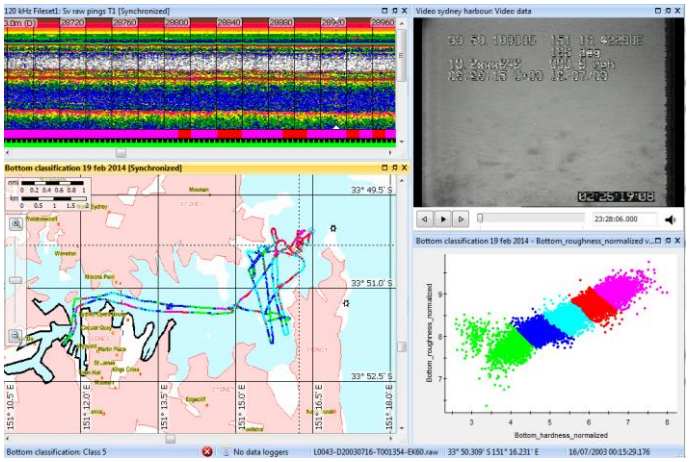
Multibeam systems enable users to analyze hydroacoustic data in 4 dimensions, giving greater insight into targets such as fish and plankton aggregations, submerged aquatic vegetation and gas seeps.



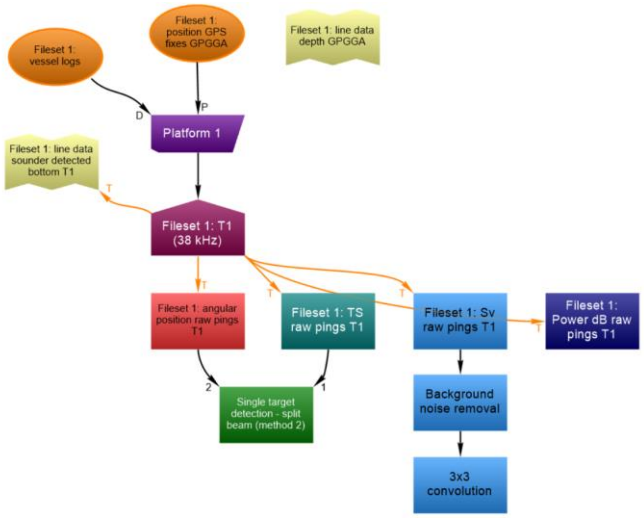
Complex data processing algorithms can be implemented in Echoview. This example shows the implementation of a published multifrequency algorithm (Jech & Michaels 2006) for species identification from echosounder data.



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.

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