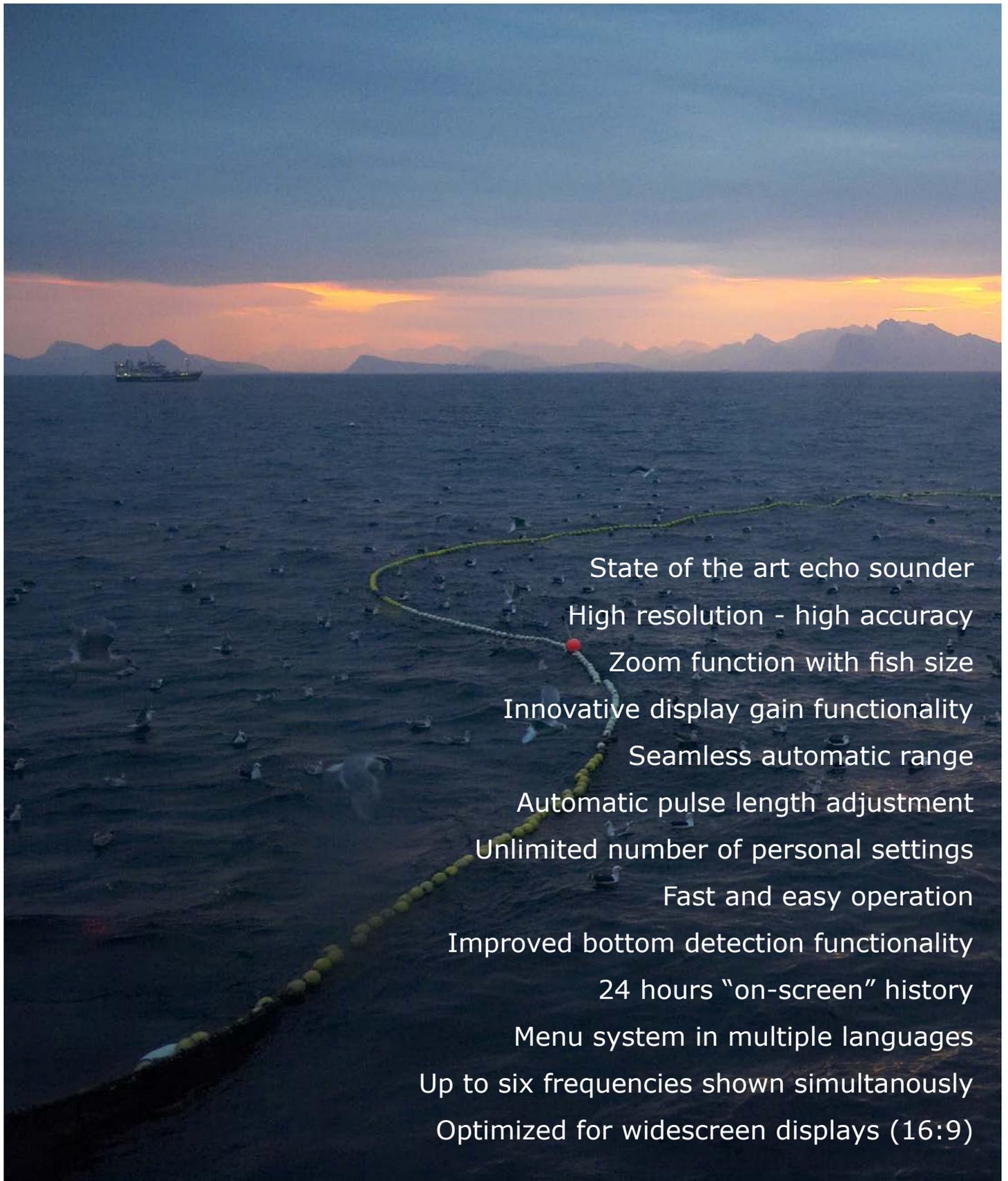


# Simrad ES70

## Split beam fish finder



- State of the art echo sounder
- High resolution - high accuracy
- Zoom function with fish size
- Innovative display gain functionality
- Seamless automatic range
- Automatic pulse length adjustment
- Unlimited number of personal settings
- Fast and easy operation
- Improved bottom detection functionality
- 24 hours "on-screen" history
- Menu system in multiple languages
- Up to six frequencies shown simultaneously
- Optimized for widescreen displays (16:9)

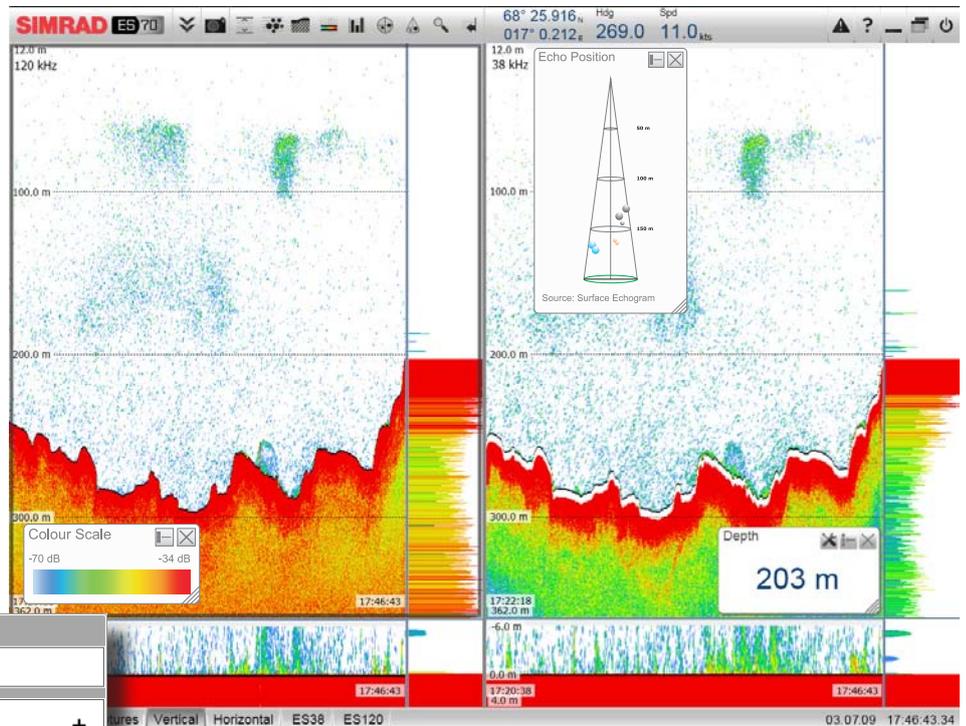
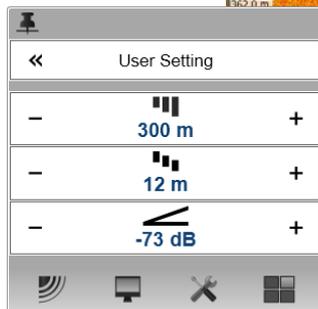
Simrad ES70 is a modular system. This means that you can start with a simple one frequency single beam system. Later, you can expand the system to a multi-frequency echo sounder using single and/or split-beam transducers. You can choose from a wide variety of advanced software functions, transducers, and transceivers.

### The Simrad ES70 is a split beam echo sounder for any type of fishery

The Simrad ES70 is a new generation echo sounder. The latest innovations in computer technology have been used to satisfy the increasing needs from our demanding customers: “Top performance at any depth, and easy to operate!”

### Menu system in your own language

The menu system on the Simrad ES70 uses icons and buttons with text in your own language to ensure fast and easy operation.



#### ES70 Split Beam models

- Five different frequencies: 18, 38, 70, 120 and 200 kHz
- Separate on-screen information panes for:
  - Zoom view
  - Depth
  - Colour threshold
  - Bottom hardness (Option)
  - Fish biomass (Option)
  - Fish size distribution
  - Fish position
  - Echo position
- Echogram with corrected fish size presentation
- The “Peak value” and “Number of samples” in “Fish size window”
- Independent settings for measuring fish size range

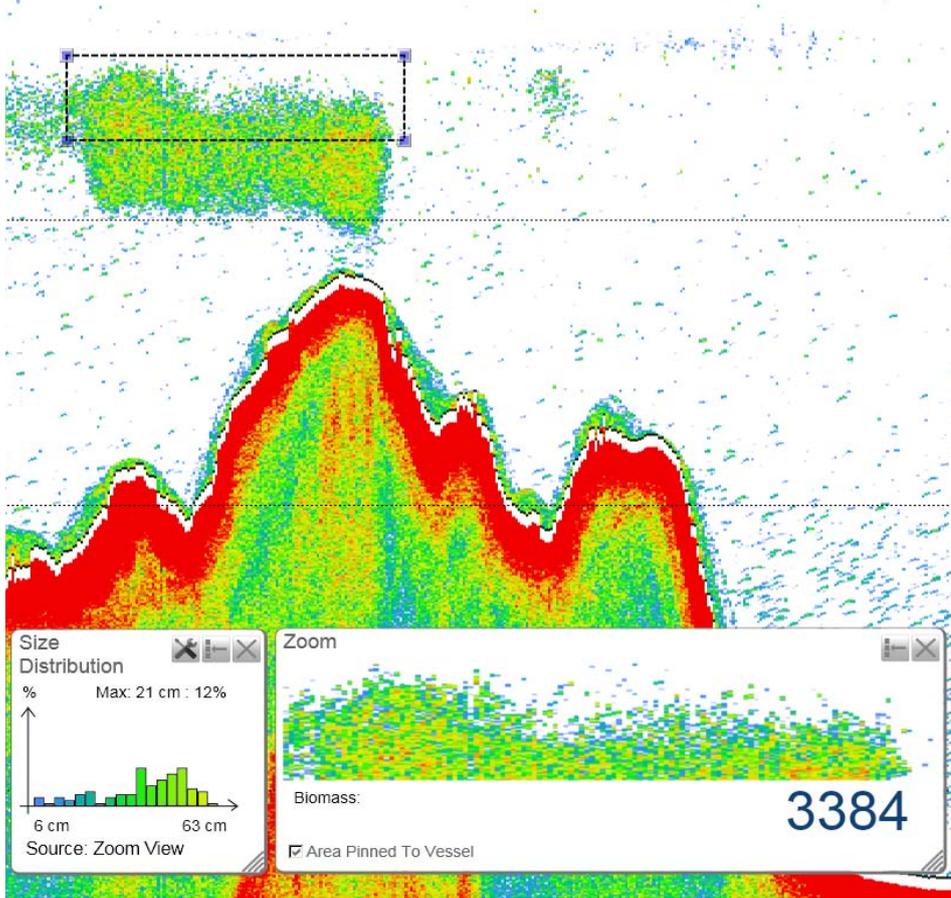
- New “Cone view” with “Single fish indications”
- Unlimited number of personal settings
- Optimized pulse length with range
- Seamless auto range
- Changes in gain settings apply to the entire screen
- New bottom detector for improved detection of fish close to the bottom, and on the slopes
- Up to six frequencies on the screen simultaneously
- 24 hours on-screen history
- Colour threshold adjustable for individual frequencies
- 64 or 16 colour presentation
- Optimized for 16:9 widescreen
- Own display area for bottom expansion, pelagic expansion or trawl area

- Menu system in local language
- Transceivers with single or dual frequencies
- Transmit power up to 4 kW
- A-Scope on demand
- Depth marker
- On-screen readout of position, heading, speed and temperature
- Interface to Simrad’s catch monitoring and sonar systems
- Screen speed adjusted for ping rate, distance or time
- Screen capture function

#### Optional features

- Calculation of biomass
- Calculation of bottom hardness
- Heave compensation

The Simrad ES70 provides you with a clear and undisturbed echogram. If wish to add more information, you can open dedicated information panes.



### Introducing Information Panes

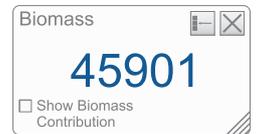
With the Simrad ES70, Simrad introduces a new way to present optional information. We call them **information panes**.

With a click on the requested icon on the top bar, the information you wish to add to the echogram is presented in a dedicated frame. You can place the frame wherever you want, and you can resize it to any shape. It is even transparent, so you will not loose any information from the echogram behind it.

### New Zoom function

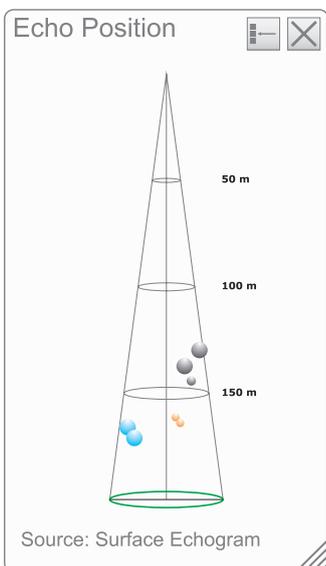
The new zoom function provided by the Simrad ES70 is innovative, efficient and very easy to use. Using the trackball you can establish an area on the echogram.

The information within this area is displayed in the Zoom pane, and the fish biomass is calculated and displayed. Fish size is displayed in the Size Distribution pane.

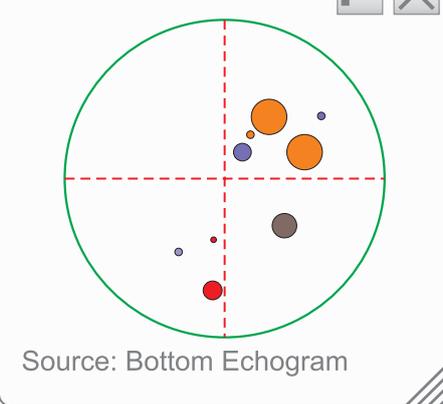


### Echo Position

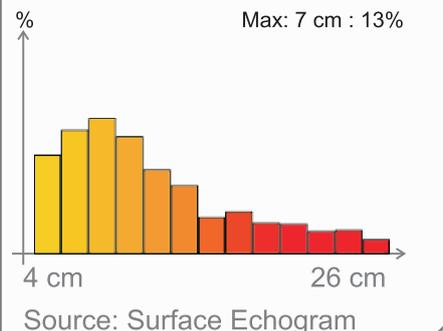
The Echo Position pane provides a 3D presentation of the single fish echoes presently located in the echo sounder's beam. The colours of the echoes are the same as the colours in the Size Distribution pane.



### Fish Position

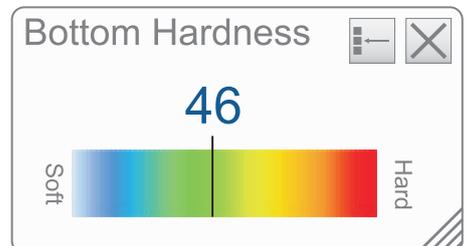


### Size Distribution



### Bottom Hardness

The new Bottom Hardness pane allows you to investigate the bottom conditions. The ES70 measures the reflectivity, and calculates the hardness on a scale from 1 to 100. The information may also be exported to navigation plotters.



## ES70 Split-beam

A split beam echo sounder is capable of measuring target strength from fish. Different fish size and species have different target strengths. With the help from the fishery scientist we are able to calculate fish sizes for different species. With more than 25 years split beam experience, Simrad has become the world leader using this technology for determining fish size.

## Multiple frequencies available

Different frequencies and transducers are used for different fisheries. Mackerel, Tuna, Anchovies, Herring and other schooled fish are best measured using a high frequency system, typically 120 or 200 kHz depending on the depth. Cod, Pollock, Saith and other bottom fish can be measured using 70 or 38 kHz systems, while 18 kHz is used for deep water species.

## Limitless capabilities

The Simrad ES70 echo sounder is more than a regular echo sounder. It has capabilities beyond any competitor.

You can put together a system with as many transducers and frequencies as you like, and build the sounding system you always dreamed of: Looking down or sideways, fish volume, single fish detection in shallow as well as deep water, bottom discrimination, history echogram, recording facility, unlimited personal settings, data output to plotter, etc.



## Long history, long experience

Simrad has manufactured echo sounders for more than 60 years. Simrad's first echo sounders came in 1951. These gave the fisherman a real advantage, he was able to see the depth, the bottom contours and even fish!

Since then, Simrad has been the world's leading manufacturer of echo sounders. Fishermen all over the world trust Simrad to provide the very best in quality, and lead the way in innovative functionality, and to come up with better and more advanced designs. It's a well placed trust. Simrad has shaped the path of the echo sounder technology.

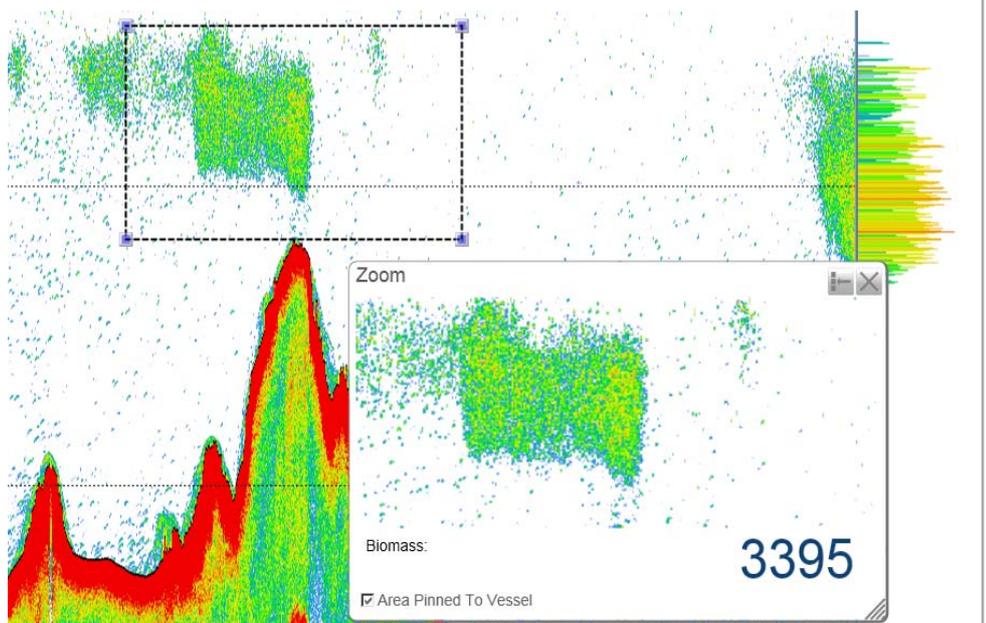
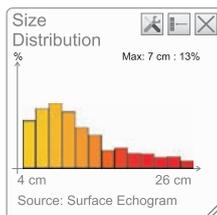


## The most powerful zoom function ever!

Choose and size any area on the echogram, and investigate the echoes in the Zoom pane. Let the area stay fixed to the vessel, or let it follow the echogram.

Observe the total biomass present in the zoomed area.

Observe the size of the fish in the Size Distribution pane.



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