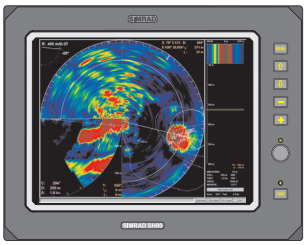
SONAR

Simrad SH80 High frequency sonar

SIMRAD



"The best catching sonar I have ever operated. The SH80 makes it simple to pick out the most suitable schools."

Terje Sævik,
M/S Kings Bay

Multifrequency
Stabilized 360º
Vertical view

When the fish are scattered, located near the bottom, or by nature emit weak echoes, they are best shown on a high frequency sonar. Simrad SH80 gives you high frequency and high efficiency.

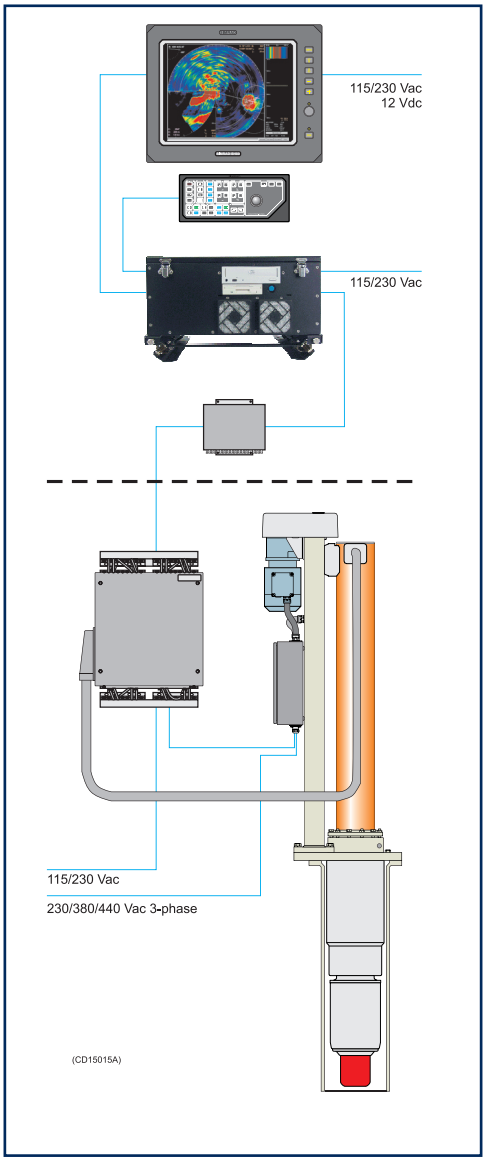
Why high frequency?

High frequency is favourable because it provides better resolution and target separation. A high frequency sonar is thus the best and most efficient tool to find and track difficult targets.

Simrad SH80 is a unique high frequency sonar. It stands out as a "one of a kind":

- The only sonar with 360 degrees stabilized beam
- The only sonar with vertical view
- The only sonar with multi-frequency capability.

These are functions with high utility value during the search and catch phases. In addition, the SH80 is the easiest sonar to use, and you have full control of key parameters and filters.



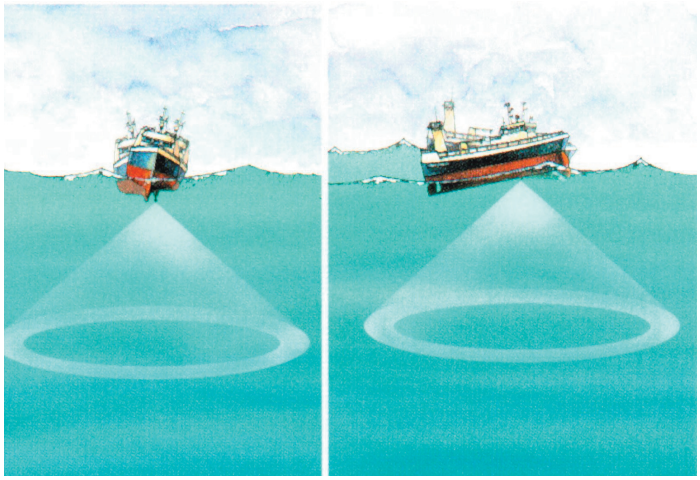
Multifrequency

Unfortunately, you are rarely alone on the fishing fields. This means that interference and noise from other sonars in the area affect your own sonar. The SH80 is the only sonar on the market offering **multifrequency**. This means that you can change the sonar's frequency. From the menu you can choose between 13 frequencies from 110 to 122 kHz. This removes the annoying noise from other sonars, and valuable time is saved.

To the left is a simplified system diagram with display, operator panel, processor unit, interface unit, transceiver and hull unit.

Stabilization

The horizontal beam is stabilized in 360 degrees, while the vertical beam is stabilized in the currently chosen direction. In bad weather, or during pursing, a stabilized sonar will provide a much clearer and cleaner sonar picture without the disturbing echoes from the surface or the bottom. Locating weak targets and targets close to the bottom has traditionally been a difficult task, as additional echoes have made it almost impossible to find and track the targets. SH80's stabilization will provide a much more efficient catch, and reduce the time on the fishing fields.



Vertical view

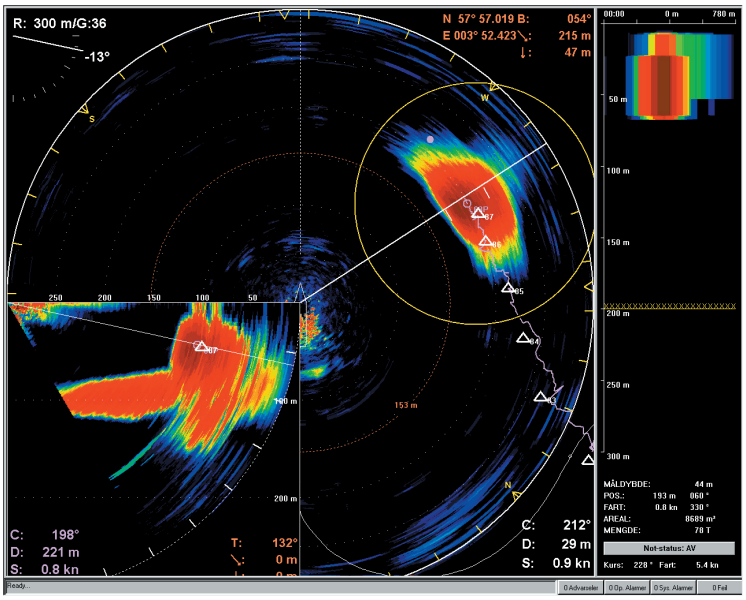
With the vertical view - which of course is stabilized - you can retrieve lots of valuable information about your target.

How close to the bottom is the school? When does it raise? How large is it? Is there more than one? What does the school look like?

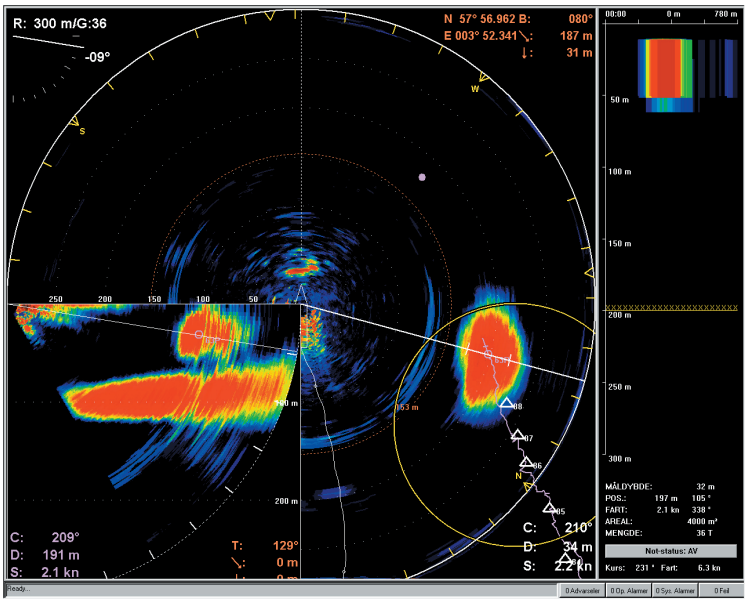
All of these questions are easily answered using a well designed and stabilized high resolution vertical view. The vertical view can be positioned to any direction around the vessel, and will follow the target automatically if target tracking has been enabled.

This allows you time to concentrate on more important tasks in a hectic phase.

The vertical view allows you to fish more efficient because you can easily pick the right target at the right time.



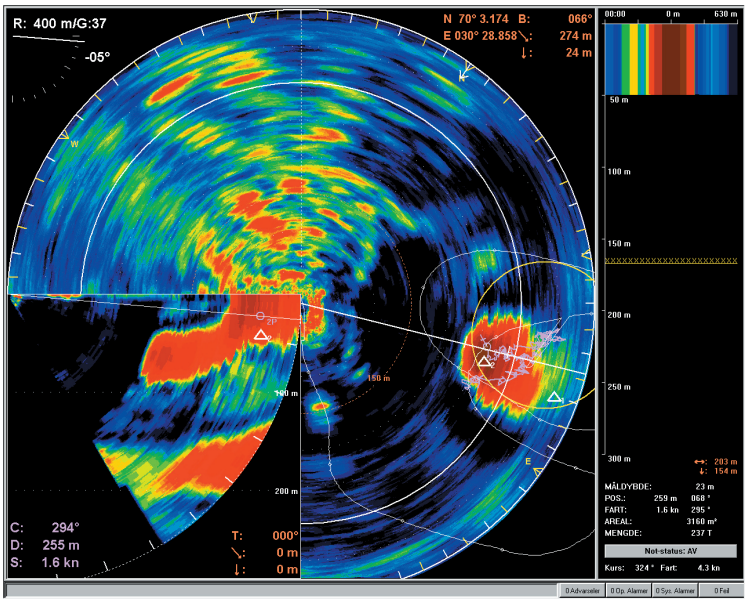
In this vertical view you can see a school of herring on the bottom...



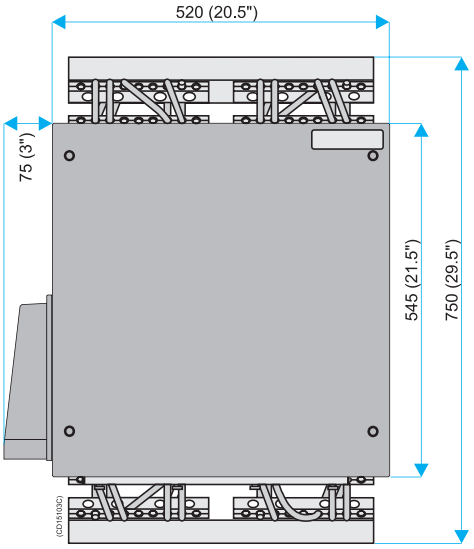
...and here you can see that the school has started to lift. This is not easy to see on the horizontal presentation!

The display presentation to the right shows a school of capelin. In the horizontal presentation the school looks "normal", and it is apparently located close to the surface. However, in the vertical view you can see that the school has a totally different shape and size than what it appears to.

Both the horizontal and vertical views are presented in "real time". Unlike most other sonars, the SH80 sonar will never spend valuable time "building up" the sonar picture presentation.

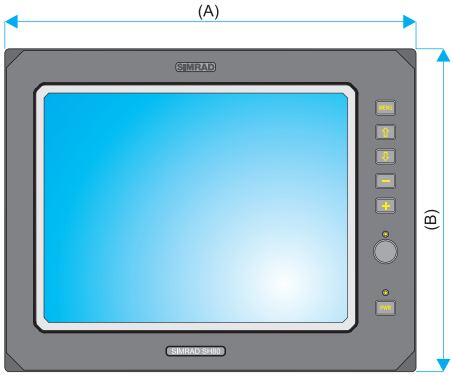


Transceiver Unit



Depth (cabinet): 420 (16.5")
Dybde (støtdempere): 85 (3.3")
All measurements in mm (and inches).

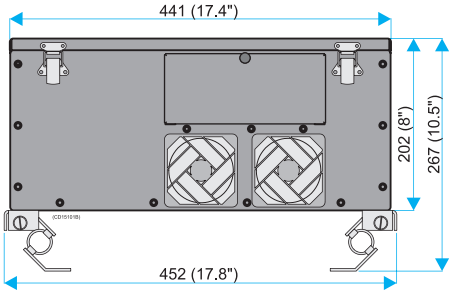
LCD displays



Width (A):	Height (B):	Depth:
CF17: 490 (19.3")	CF17: 380 (15.0")	CF17: 77 (3.0")
CF19: 490 (19.3")	CF19: 400 (15.7")	CF19: 77 (3.0")
CF23: 615 (24.2")	CF23: 500 (19.7")	CF23: 76 (2.9")

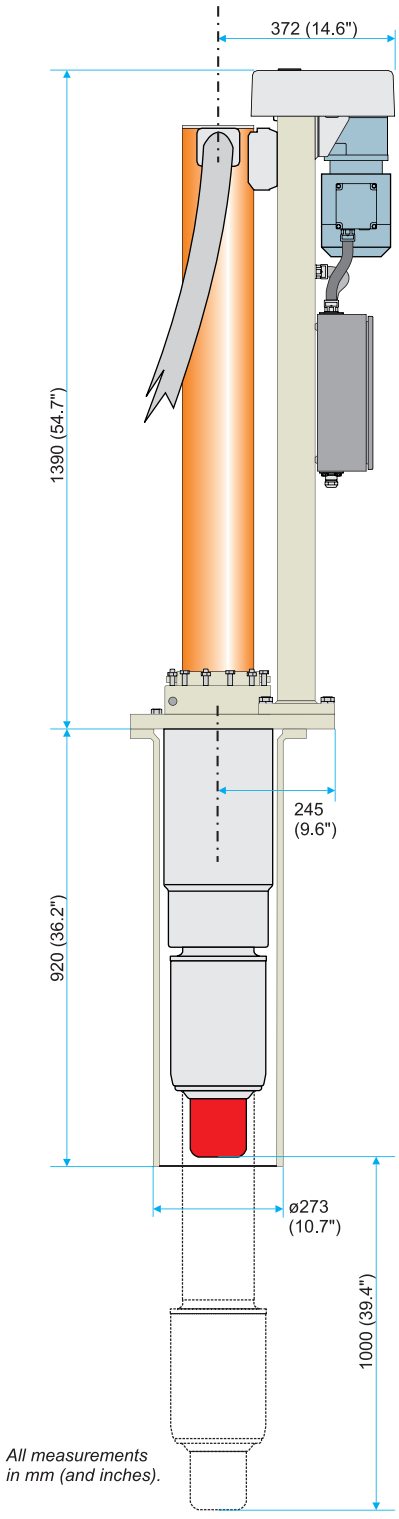
All measurements in mm (and inches).

Processor Unit



Total depth: 410 (16.1")
All measurements in mm (and inches)

Hull Unit



Note: The drawings are not in scale.

Unique functions

- Full stabilization
- Multifrequency
- Vertical view
- Adjustable vertical beam width; Narrow, Normal or Wide
- Dual mode: "Two sonars in one!"
- Recording function
- Unlimited number of user settings
- Automatic tracking of three targets simultaneously
- Hull Unit designed fro 20 knots speed during lowering and hoisting
- Separate adjustment of gain and filters for horizontal and vertical views
- Frequency modulated (FM) transmitter and receiver provides clear and distinct echo presentation
- The last ping is memorized, this provides a seamless range adjustments
- Easy-to-use operator panel
- Choose your own display size: 17, 19 or 23 inches
- Compact units ensure a compact installation

Simrad AS
P.O.Box 111, Strandpromenaden 50
3191 Horten, Norway
Telephone: +47 33 03 40 00
Telefax: +47 33 04 29 87
E-mail: contact@simrad.com

(855-165239 / Rev.B / November 2005)