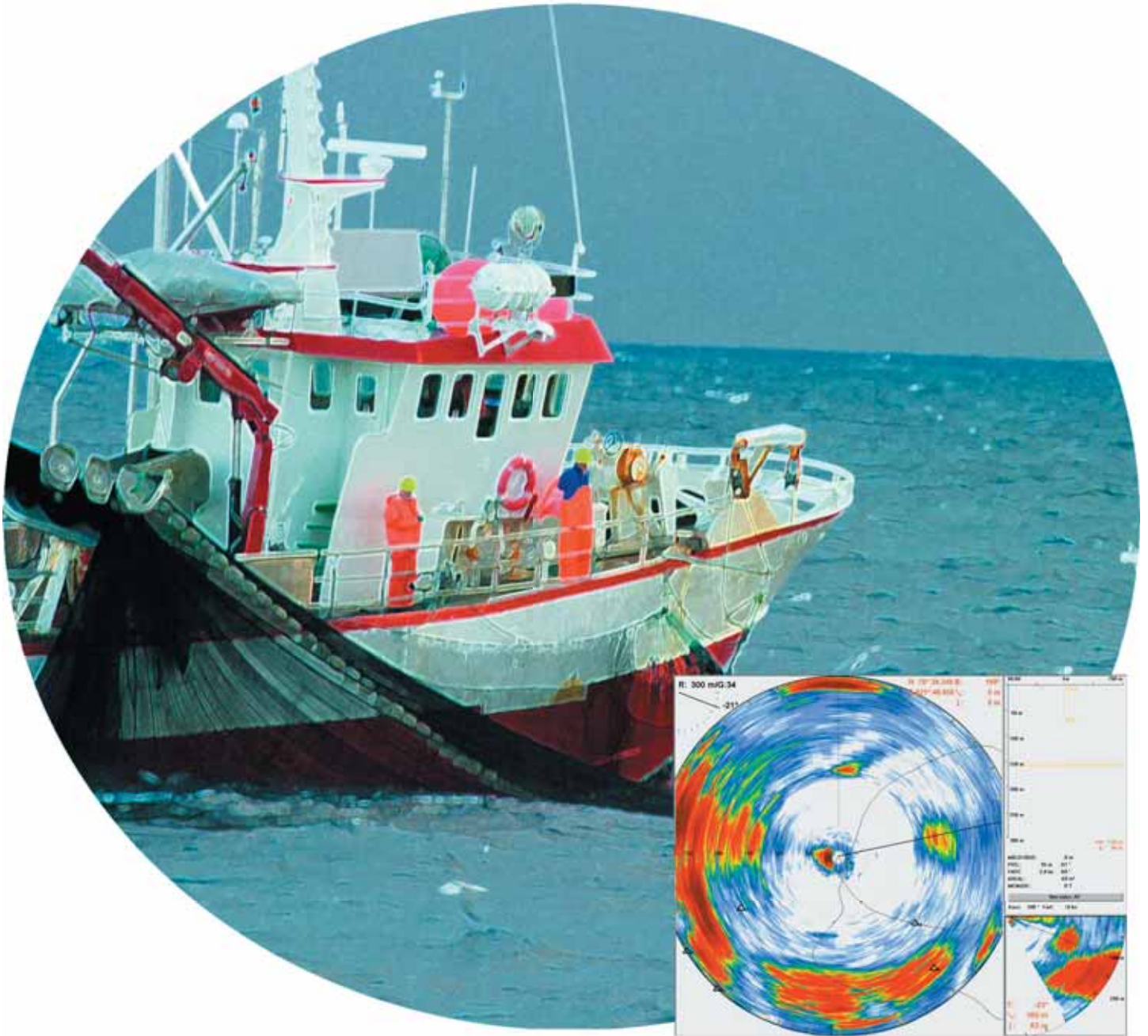


# SONAR

Simrad SH40 Omnisonar

# SIMRAD



## New high frequency omnisonar for coastal fishery

Simrad continues the development program for the coastal fishery fleet, and can now introduce *SH40*: a new high frequency fishery omnisonar.

[www.simrad.com](http://www.simrad.com)

**SIMRAD**  
A KONGSBERG Company

MAXIMIZING YOUR PERFORMANCE AT SEA

The new **Simrad SH40** has been developed to find coalfish, herring and similar species under difficult conditions. The sonar is equipped with a vertical view mode which allows you to locate the position of the schools relative to the seabed. This gives you full control of the catch.

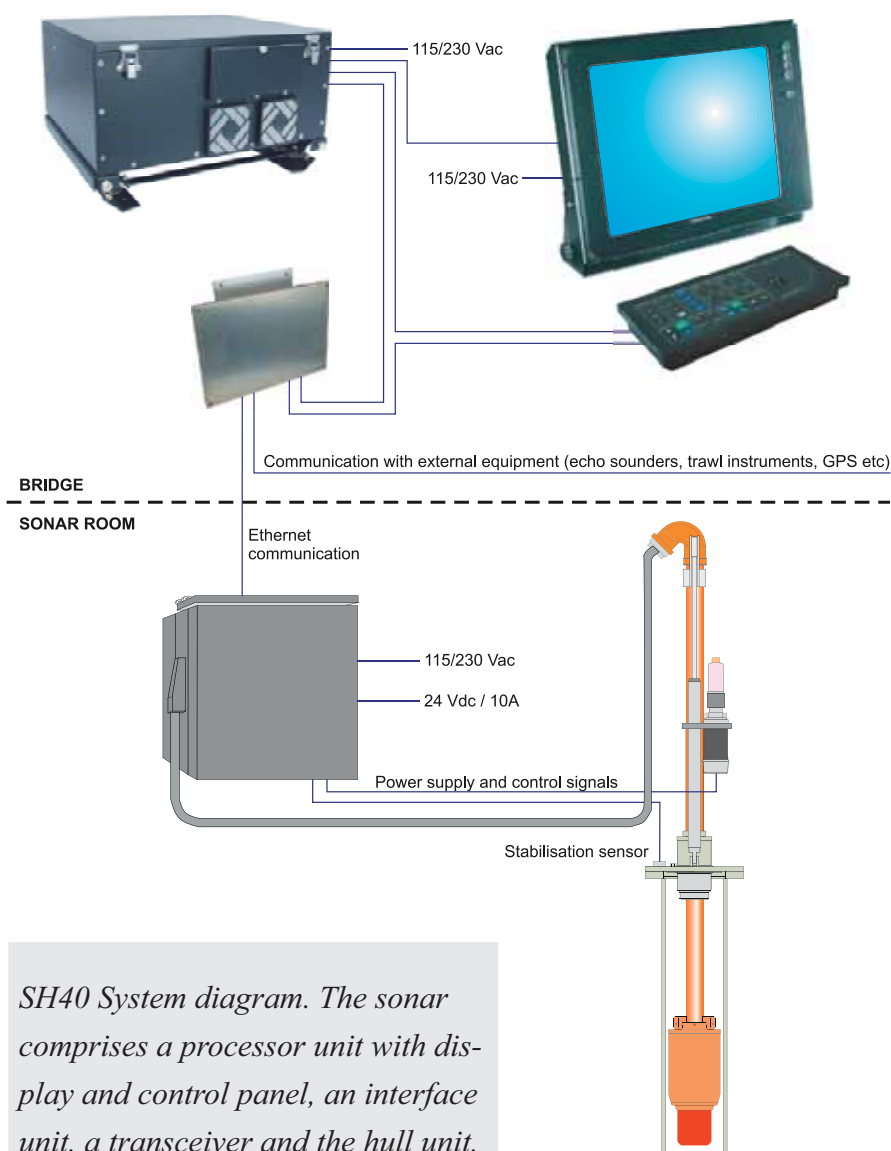
**Stable images:** The **SH40** compensates for the vessels' movements, even in the vertical view. This gives you a more stable sonar picture, and enhances the quality of the echo presentation.

**New hull unit:** A brand new hull unit has been developed for the **SH40**. It is hydraulically powered, which means that it does not require a three-phase power supply. Its physical size has also been greatly reduced. These factors will make installation easier and cheaper.

The **Simrad SH40** is based on its "big brother" **SH80**.



## System diagram



*SH40 System diagram. The sonar comprises a processor unit with display and control panel, an interface unit, a transceiver and the hull unit.*

**Simrad SH40 provides results:** On the next page you can see two typical examples provided by a test installation made in the early fall of 2004.

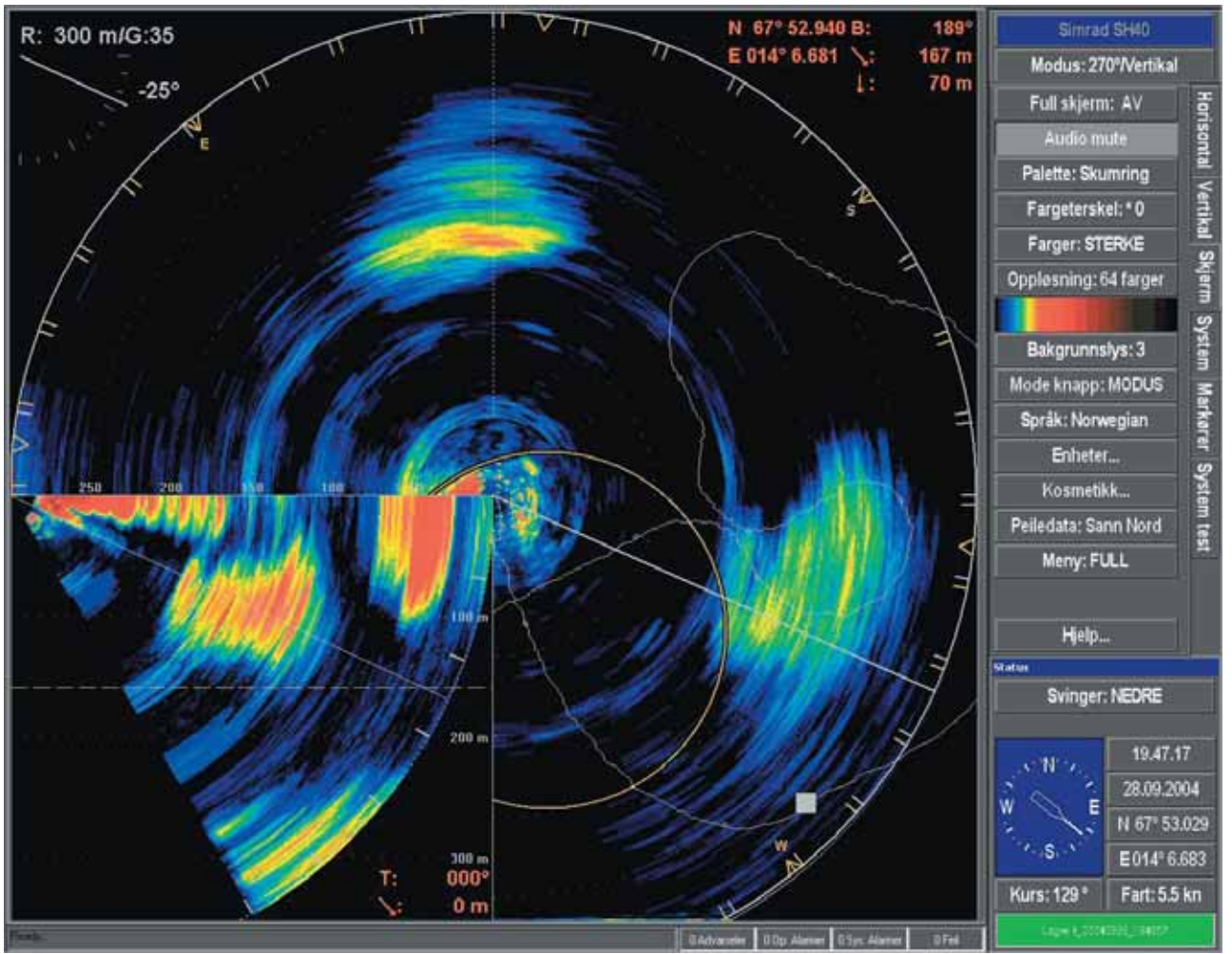
**Top:** Herring in Vestfjorden, Northern Norway, 28 September 2004. A night colour palette is used, and the sonar runs in mode **270°/ Vertical**. The image colours have been modified to allow print.

**Bottom:** Coalfish close to the seabed, LoppHAVet, Northern Norway, 20 October 2004. The operator has chosen a catch mode, a palette with white background, and he has hidden the menu from view.

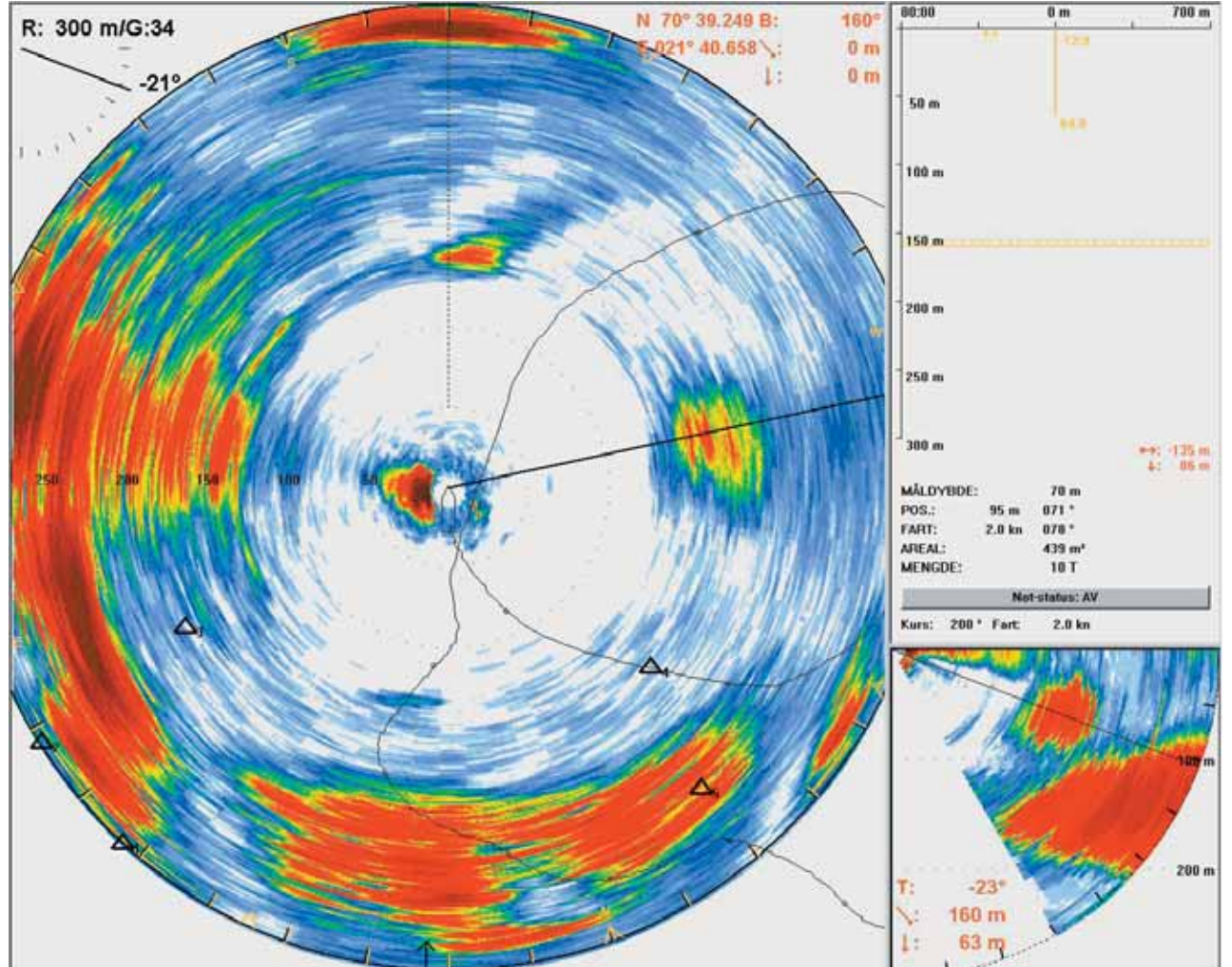
**Simrad SH40 is easy to operate:** It uses Simrad's intuitive standard user interface, the same as you know from the other sonars. This yields recognition, no matter which sonar you use; SP60, SP70, SP90, SH80 or the new SH40.



Herring in Vestfjorden



Coalfish close to the seabed



## Technical specifications

**Frequency:** 116 kHz (see “Options”)

**Ranges:** 50, 75, 100, 150, 200, 300, 400, 500,  
600, 750, 1000 and 1200 m

**Tilt:** +10 to -60°

**Detection range:** 700 m with 0 dB target

**Transducer:**

Geometry: Cylinder

Horizontal beam: 8° or 360°

Vertical beam: 15° or 60° (vertical view)

**Interfaces (RS-232):**

Speed log, Course gyro, GPS, Echo sounder,  
ITI/FS Trawl system, PI32 Purse seine system,  
Buoy data

**Power requirements:**

Display: 115/230 Vac, 50/60 Hz, 100 W

Processor Unit: 115/230 Vac, 50/60 Hz, 200 W

Transceiver: 115/230 Vac, 50/60 Hz, 500 W

Hull unit: +24 Vdc, 10 A

**Hull unit:**

Maximum travel: 400 mm

Hoist speed: 20 seconds

Maximum vessel speed: 20 knots

Trunk diameter: 8”

Typical length: 1000 mm

**Options:**

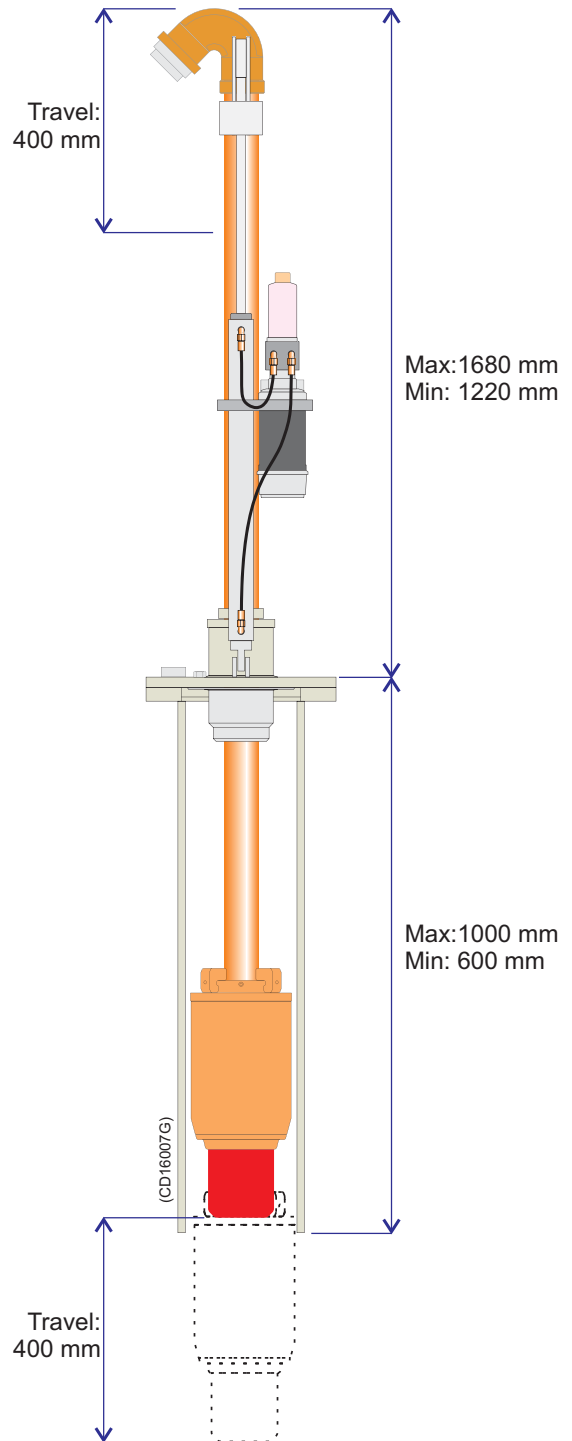
Display: 17”, 19” eller 21” LCD

(Resolution 1280 X 1024 pixler)

Sonar frequency: 110 to 122 kHz (1 kHz steps)

Gyro connection: Analogue converter

Trunk: Type approved (DNV) trunk



SH40 Hull unit

*Note: Technical specifications can be altered without prior notification!*

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