Simrad SN50

KONGSBERG

SIMRAD SN50:

Versatile matrix sonar for fish-finding and navigation

The Simrad SN50 is a high-resolution matrix sonar. Depending on your installation choice, you can use the SN50 system as a multibeam echo sounder, a seine sonar, a trawling sonar, or a navigation aid.

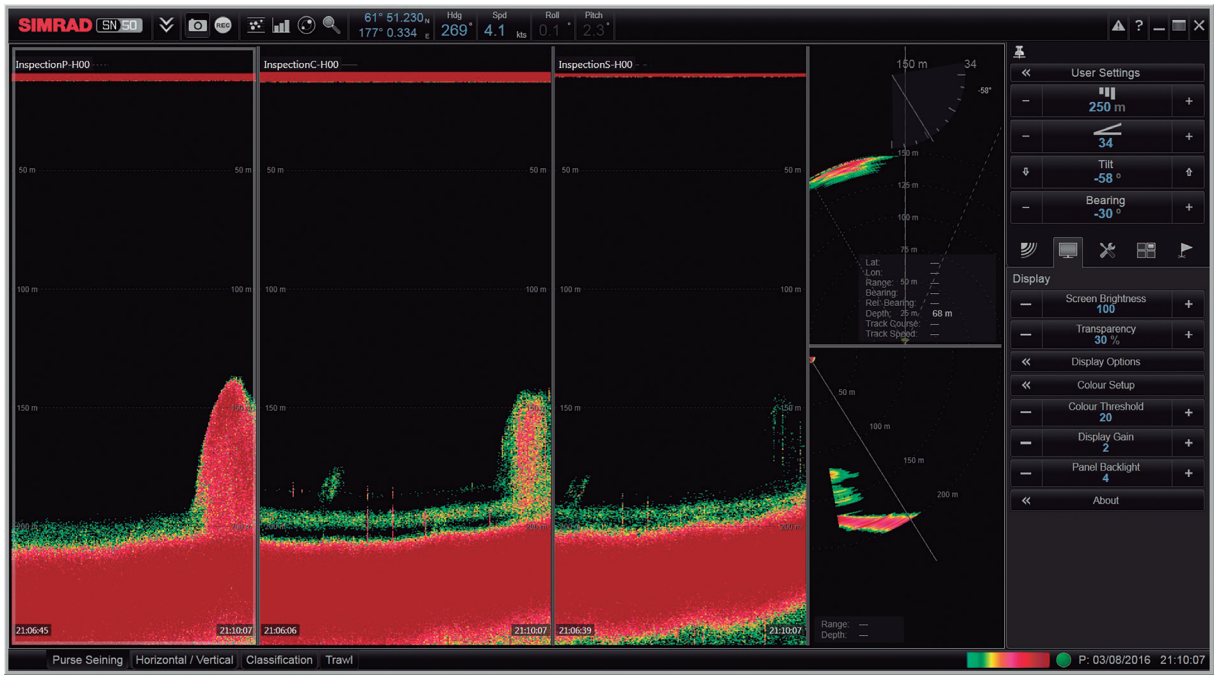
The centre operational frequency is 57 kHz, but you can select any operational frequency from 55 to 59 kHz in steps of 0.5 kHz. This frequency range gives you an operating range of up to 2500 metres depending on the acoustic conditions.

Visit www.kongsberg.com/sn50 for more information, the latest software version, and the end-user documentation.

SIMRAD
By KONGSBERG

SN50 HIGHLIGHTS

- We have placed the transceiver electronics inside the rectangular transducer. This means less cables, less noise and easier installation for you.
- The transducer contains 144 individual elements, each with its own transmitter and receiver.
- The maximum range is approximately 2500 metres depending on the acoustic conditions.



The design of the Simrad SN50 user interface follows the same principles as the other Simrad sonars. This standard design makes it easier for you to recognize key functionality, and the overall operation is simplified. All texts in the user interface are available in more than 20 languages. The top bar gives you immediate access to key functionality and navigational information. The menu on the right (or left) side allows access to all operating parameters. Your choice of presentation modes and views are available for the echo data presentations.

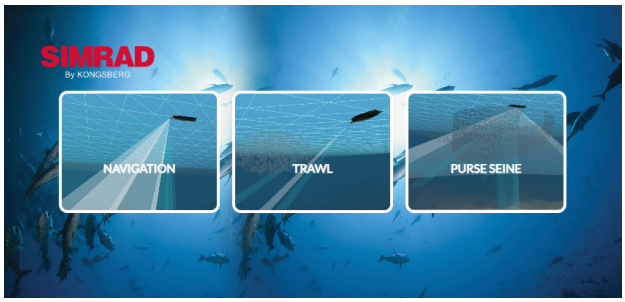
Use the SN50 with a large computer display to take full advantage of the advanced data presentation features.

We have based the SN50 design on the acclaimed SY50 technology. Each part of the SN50 system has been created for optimum production processes and easy installation. The quality of the workmanship, the components and the user interface allow for easy use and excellent acoustic performances.

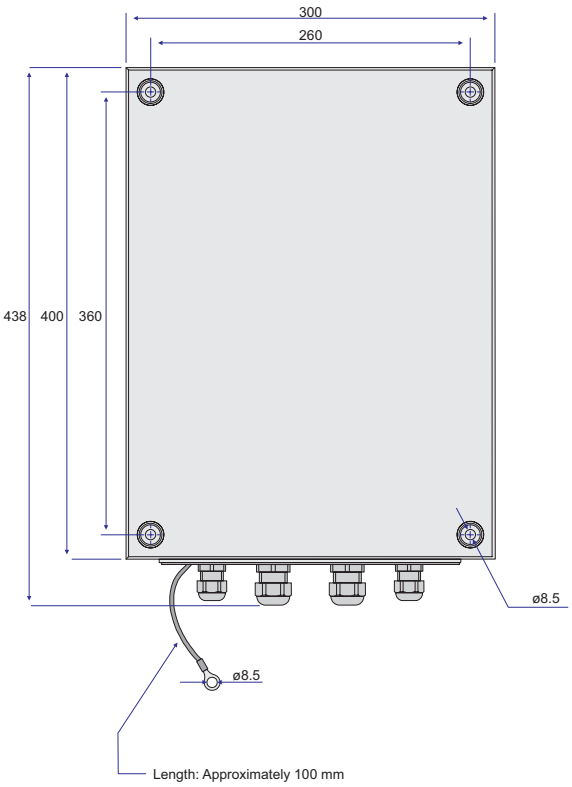
The SN50 system simplifies installation with its embedded transceiver, eliminating the need for an external cabinet. This design choice results in a clean setup, with only an Ethernet and power cable required. The result is a sonar system that is not only easy to install but also operates with minimal noise.

Unlike an Omni sonar, a matrix sonar uses a fixed, square transducer with the elements placed in a rectangular matrix pattern. The advantage is a focused coverage area in the direction the transducer face. If you install the transducer facing straight down, the sonar system will perform as a multibeam echo sounder. With the transducer facing horizontally to the port or starboard side, the SN50 system works as the seine sonar, looking into the purse seine. If you install the transducer facing forward, you can use the sonar system for trawling or navigation.

We have developed a new online simulator to demonstrate the abilities of the Simrad SN50. Open it from our website or right here:



The only cabinet you need to install is the Power Supply Unit.



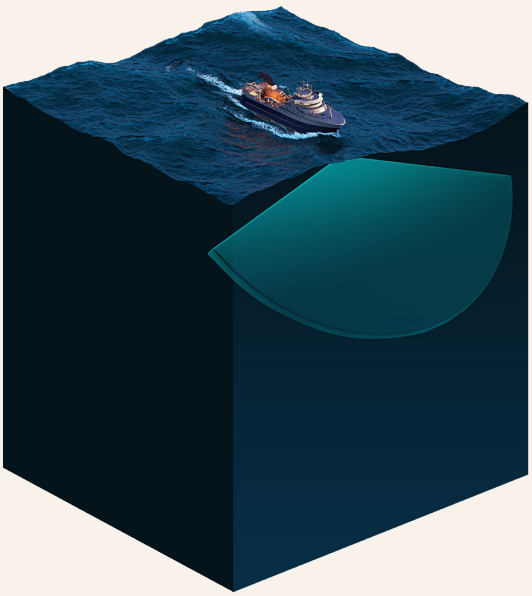
All transceiver electronics are placed inside the transducer. This means less cables, less noise and easier installation.

The centre operational frequency is 57 kHz. You can select any operational frequency from 55 to 59 kHz. This frequency range gives you an operating range of up to 2500 metres depending on the acoustic conditions.

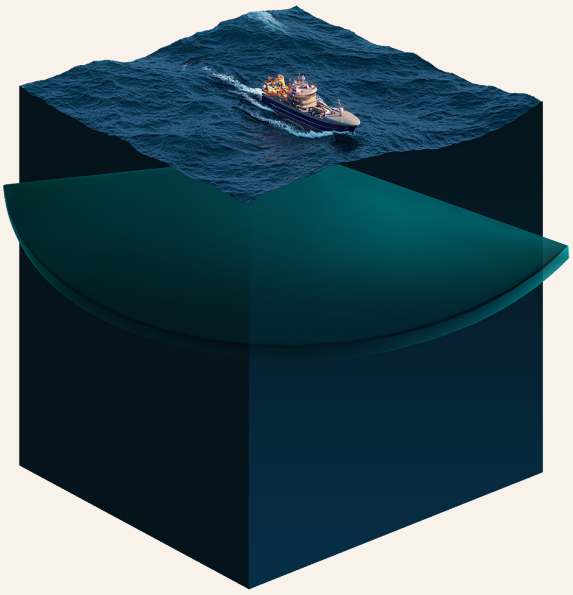
The transmitted sonar beams can be tilted electronically. This allows you to search the whole sector and optimise the sonar performance to match the acoustic conditions. A built-in stabilizing system is included for electronic pitch and roll compensation, but you can connect to an external sensor for improved accuracy.

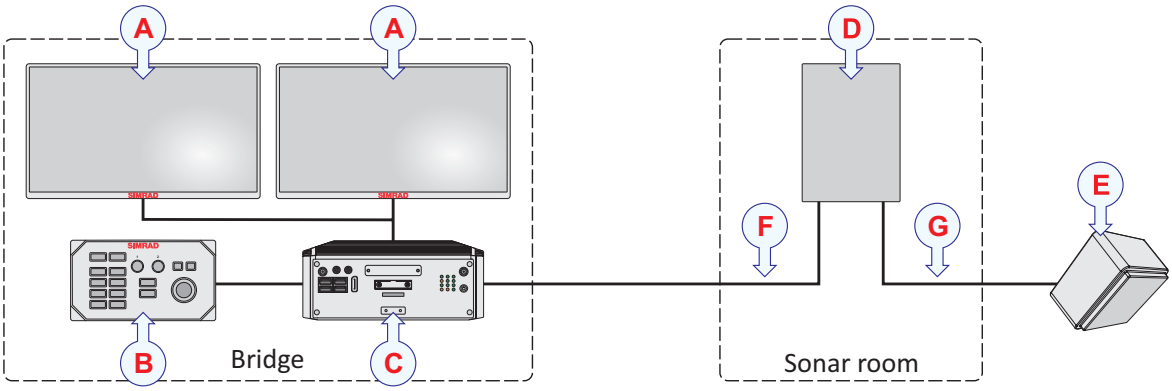
The compact size and ease of installation makes the sonar system ideal for vessels with limited room for a sonar installation.There is no transceiver cabinet, only a small power supply. All transceiver electronics are placed inside the transducer. The communication between the transducer and the Processor Unit on the bridge is limited to a single Ethernet cable.

Horizontal swath from transducer mounted on the bow.



Horizontal swath from transducer mounted on the side of the hull.





(A) Display (Second display is optional)
(B) Operating Panel (Option)
(C) Processor Unit
(D) Power Supply Unit
(E) Transducer
(F) Ethernet cable
(G) Transducer cable

KEY SPECIFICATIONS

- Small and compact, fits even on smaller fishing vessels and yachts
- Easy to install
- The operating frequency is adjustable from 55 to 59 kHz
- The operating range is up to 2.500 metres (depends on acoustic conditions)
- CW and FM pulse forms
- Tilt from +10 to -60°
- Narrow beams
- Large dynamic range
- High definition
- Stabilized by internal sensor, can connect to external motion reference unit (MRU)
- Easy operation
- Store and recall sonar data
- Define and save your own user settings
- Clear and easily comprehensive sonar data
- 144 transceiver channels

The operating panel is small and compact, and thus easy to install on the bridge.

The SN50 is provided with a small and efficient Processor Unit. Due to its compact size, the computer is easy to install.

Note: We reserve the right to change the technical specifications without further notice.