Dual frequency, Dual views of the Searchlight's Sonar power!

DUAL-FREQUENCY SEARCHLIGHT SONAR

Model CH-600

12.1" COLOR LCD DISPLAY

FURUNO ELECTRIC CO., LTD.

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Faster, easier, more reliable than ever

Incredibly fast training speed

Faster motor delivering quicker training speeds
Quick train speeds allow the sonar display to be refreshed at a faster rate aiding in earlier detection of fish and obstructions.

6 step angles for training speed adjustment according to user's needs
The CH-600 sonar is one of the most comprehensive and fastest sonars of its kind. It provides six selectable step variations (6°, 12°, 15°, 18°, 21°, or 24°) for high scanning speed that can cover sector widths from 24° to 360° in a couple of seconds. Thanks to its high training speeds, the CH-600 can rapidly scan a large area providing the ultimate fishing and navigational experience.

Expert tip: When moving fast, you can use a wider step angle in order to get a glimpse of the surrounding area. If you detect something interesting, slow down and switch to a decreased step angle for clearer echoes.

Built-in motion sensor provides stabilized target presentations in rough sea conditions

The CH-600 searchlight sonar is the first of its class to have integrated motion sensors. In rough seas, vessels tend to move in every direction. This movement can cause inaccurate target information to be displayed. The role of the integrated motion sensors is to precisely compensate for those negative effects and provide accurate data to the user.

On the picture: You can see that once the stabilizer is activated, the echo recovers its circular shape and is able to provide accurate data, no matter the sea conditions, the boat speed and inclination.

Thanks to the built-in stabilizer’s compensation, the CH-600 is able to detect fish that didn’t appear originally with the non-stabilized echo.

### Incredibly fast training speed

**NEW**

| No. | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    | 13    | 14    | 15    |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Range (m) | 10    | 20    | 40    | 60    | 80    | 120   | 160   | 200   | 250   | 300   | 400   | 500   | 600   | 800   | 1000 |
| Step Angle | 6°    | 12°   | 15°   | 18°   | 21°   | 24°   | 6°    | 12°   | 15°   | 21°   | 24°   | 21°   | 15°   | 12°   | 6°   |
| 24° | 6.6   | 6.8   | 7.1   | 7.6   | 8.2   | 8.8   | 9.8   | 13.0  | 16.2  | 20.2  | 24.2  | 32.2  | 40.2  | 48.2  | 64.2  | 80.0  |
| 15° | 3.3   | 3.5   | 3.8   | 4.5   | 5.1   | 6.4   | 7.8   | 8.9   | 10.5  | 12.1  | 15.3  | 18.5  | 21.7  | 25.1  | 34.5  |
| 12° | 3.1   | 3.3   | 3.4   | 3.9   | 4.2   | 5.0   | 5.8   | 6.6   | 7.6   | 8.6   | 10.6  | 12.6  | 14.8  | 18.6  | 22.5  |

### Built-in motion sensor provides stabilized target presentations in rough sea conditions

**NEW**

Full Circle Scanning Period(s) in seconds

- **Speed for quick finding**
- **Precision for clear echo**

3.7  10.7
1.0  3.3
2.9  8.3
1.8  5.7
4.3  13.7
1.3  4.1
3.8  11.8
1.8  5.7
5.3  16.3
2.0  6.0
6.6  20.1
2.4  6.4
8.9  26.9
3.7  10.7
12.0  36.0
3.7  10.7
24.2  72.6
6.0  18.0
300  900
6.0  18.0
900  2700
6.0  18.0
2700  8100
6.0  18.0
8100  24300
6.0  18.0
24300  72900
Fast scanning
Incredibly fast training speed

Thanks to the built-in stabilizer’s compensation, the CH-600 is able to detect fish that didn’t circular shape and is able to provide accurate data, no matter the sea conditions, the boat
You can see that once the stabilizer is activated, the echo recovers its
On the picture:

target information to be displayed. The role of the integrated motion sensors is to precisely
In rough seas, vessels tend to move in every direction. This movement can cause inaccurate
The CH-600 searchlight sonar is the first of its class to have integrated motion sensors.

Faster motor delivering quicker training speeds

something interesting, slow down and switch to a decreased step angle for clearer echoes.

experience.

The CH-600 sonar is one of the most comprehensive and fastest sonars of its kind. It provides six selectable step variations

Precision for clear echoSpeed for quick finding

The low frequency will serve to cover a wide area horizontally around the ship, while the high frequency can be used in a vertical profile mode to help identify fish school, including their size and their movement.
This information can help in properly deploying a net or steering a better course to reach the targeted school.

Two frequencies combined to increase your chances of finding fish

The dual-frequency can reveal the presence of sardines and whitebait

Horizontal mode (Split view)
With the Horizontal dual frequency mode, both low and high frequencies are used and displayed at the same time in split view. By comparing echo shapes at low and high frequency, it becomes possible to ascertain the actual presence of even small fish.

Horizontal Mix display
The CH-600 Mixed mode uses both low and high frequencies to show echoes that matter most to the fisherman. By comparing the two frequencies, or simply overlaying them, it becomes easy to locate and identify whitebait.

Echoes of Sardine schools

Low frequency
High frequency

Fish school
Fish school

Echoes of whitebait

Low frequency
High frequency

Fish school
Fish school

Fish school
Higher resolution due to Advanced signal processing

Powerful signal and image processing techniques, based on a unique interpolation technology, provide images in very high resolution. Even if the fish are located near the seabed, the different echoes are clearly shown and easy to understand. The higher resolution display yields a presentation that is crisp and clear.

Reverberation reduction

The reverberation reduction offers better understanding and a better appreciation of the nature of detected echoes. Pictures on the right show an example of how the reverberation reduction function highlights the wreck from the surrounding seabed.

- The echo may be subject to interferences from other Fish Finders.
- Schools with excessively high density may appear with a weaker echo color.

Quick Gain Control

With the CH-600, the value of the changed gain is instantly applied to the whole circle and all echoes are affected, allowing you to quickly react. With the Quick Gain Control, even in deep areas that slow down the scanning speed, there is no need to wait for the next passage of the searchlight and miss precious information. This new function is also extremely valuable if the fish are moving fast and need to be tracked rapidly.

Audible target detection*

The CH-600 also features fish and obstacle audio signals depending on the nature and the size of the detected object. Whether there are air bubbles, fish schools or seabed, the emitted sound is unique. It is now easy to differentiate the fish schools from the seabed they are moving next to, allowing for better comprehension of the surrounding environment for more productive fishing. This feature shows its usefulness during long sea trips, as it frees the user from continuously watching the screen.

*Optional Loudspeaker required
**Display Modes**

Various display modes for countless different uses

<table>
<thead>
<tr>
<th>Horizontal scan</th>
<th>Horizontal scan (zoomed)</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Horizontal scan" /></td>
<td><img src="image2.png" alt="Horizontal scan (zoomed)" /></td>
</tr>
</tbody>
</table>

A full circle scan (360 degree), provided by a rotating transmitter, detects fish schools around the vessel. (Horizontal scan zoom mode also available)

<table>
<thead>
<tr>
<th>Vertical</th>
<th>Echo sounder</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image3.png" alt="Vertical" /></td>
<td><img src="image4.png" alt="Echo sounder" /></td>
</tr>
</tbody>
</table>

The Vertical scan paints the bottom profile within a user-specified vertical plane in any direction. When fully retracted and tilted to 90 degrees, the transducer can detect fish directly below boat quickly.

**INTERCONNECTION DIAGRAM**

[Diagram showing the interconnection of various units and components, including Black Box Configuration, Control Unit, Display Unit, Standard Configuration, and Connectors for power and signal transmission.]
to ascertain the actual presence of high frequency, it becomes possible comparing echo shapes at low and frequencies are used and displayed mode, both low and high frequencies.

With the Horizontal dual frequency Horizontal mode (Split view) be used in a vertical profile mode to help identify fish school, including their size and their movement. The low frequency will serve to cover a wide area horizontally around the ship, while the high frequency can reveal the presence of sardines and whitebait. The dual-frequency can reveal the presence of sardines and whitebait.

This information can help in properly Fish school Echoes of whitebait Fish school Fish school Vertical searchlight

Dubai frequency

Low frequency

High frequency

Low frequency

High frequency

Horizontal and vertical mode (vertical disposition)

Horizontal searchlight

Vertical searchlight

SEARCHLIGHT SONAR

Model

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