

MaxSea version : TimeZero v2  
 Windows: Windows 7 / Windows 8  
 Update: March 2014

## Sounder display troubleshooting

Many parameters can affect the display quality of the Sounder. In addition to the choice of the depth sounder, the choice of an appropriate transducer and its positioning is critical to the quality of the image obtained. Sounder settings directly accessible from TimeZero will then allow you to adjust the display according to your needs and the current conditions.

### MaxSea TimeZero Furuno Sounder Compatibility

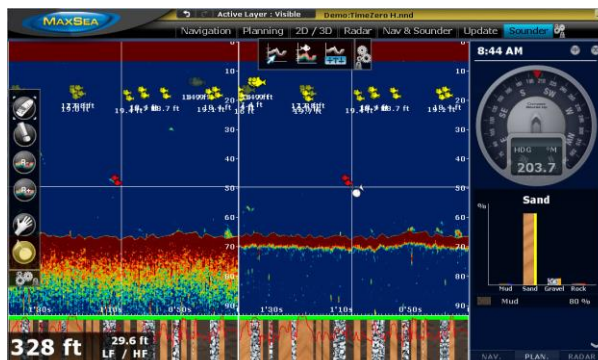
TimeZero can display two sounder images at the same time for Dual Frequency (HF/LF) and Zoom Modes (Bottom Lock & Bottom Zoom). Paired with a Furuno Ethernet Sounder, TimeZero is a full PC-Sounder solution.

This feature is compatible with NavNet 3D Network Fish Finders:

- **DFF1**: Black Box Dual-frequency 50/200 kHz
- **DFF3**: Black Box Dual frequencies between 28 and 200 kHz
- **FCV-1150**: Dual-frequency 28/200 kHz which enables Heaving compensation
- **BBDS1**: Dual-frequency 50/200 kHz (Bottom Discrimination)
- **DFF1-UHD**: Dual-frequency Broadband CHIRP 50 kHz +/- 20 kHz, 200 kHz +/- 25 kHz (Bottom Discrimination)

#### **Related documents**

[TN\\_EN\\_FurunoSounderModule\\_Update\\_v2.pdf](#) (Revised May 2013)



### Transducer Choice

There are transducers available for every type and size of boat. Because there are a number of variables in transducer types that can dramatically affect your Sounder's performance, understanding these variables is the key to selecting the right transducer.



#### **Related documents**

[FurunoTransducerGuide-LR.pdf](#) (Revised August 2013)

### Sounder Settings

The Sounder options allow you to configure various advanced Sounder Setup and Display preferences.

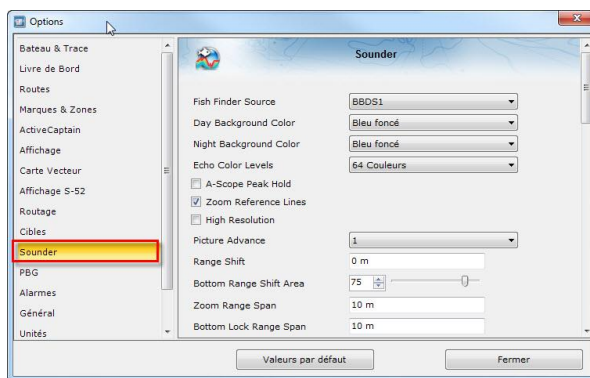
To change the settings:

- Click the "MaxSea" Menu
- Click on "Options"
- Select "Sounder"

[http://download.maxsea.com/Commercial/technical\\_notes/TN\\_EN\\_FurunoSounderModule\\_Update\\_v2.pdf](http://download.maxsea.com/Commercial/technical_notes/TN_EN_FurunoSounderModule_Update_v2.pdf)

#### **Related documents**

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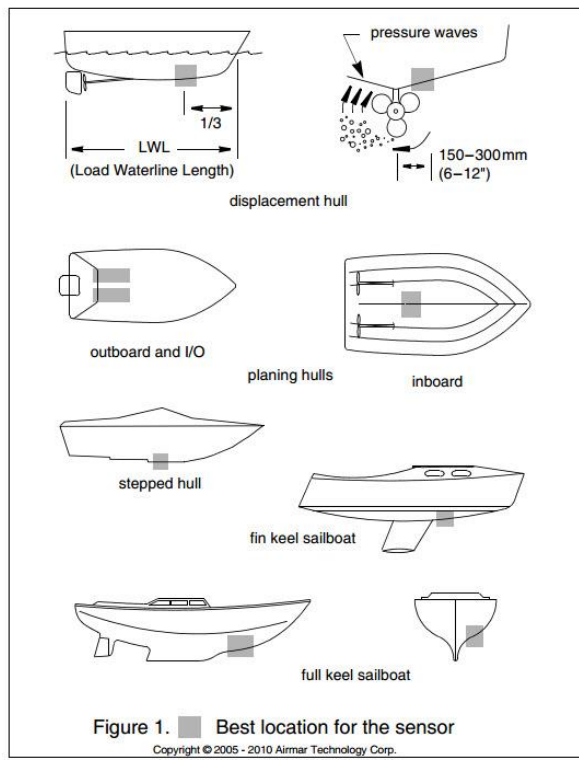
### Selecting the Right Mounting Location

Carefully selecting your transducer’s mounting location can minimize the effect of vessel-generated noise from the propeller(s) and shaft(s), other machinery, and other Sounders. The lower the noise level, the higher the gain setting that you'll be able to use effectively on your Sounder.

Always select a location where:

- Water flowing across the hull is smoothest with a minimum of turbulence and bubbles
- The transducer will be continuously immersed in water (not applicable to In-Hull models)
- There is a minimum of deadrise angle
- The transducer beam will not be obstructed by the keel or propeller shaft(s)

As a rule, no transducer should be located near a water intake or discharge opening, directly behind obstructions or irregularities in the hull, or behind eroding paint (an indication of turbulence). The flow of water across the transducer face must be as smooth as possible in order to get the best performance while cruising.



### Sounder Display Troubleshooting

Problem	Remedy
You selected “Sounder” Work Space, but no picture appears	<ul style="list-style-type: none"> <li>• Check that the signal cable for the Sounder is connected</li> <li>• Check that the Sounder source is correct</li> <li>• Check that the network Sounder is properly connected</li> </ul>
Marks and characters appear, but no picture appears	<ul style="list-style-type: none"> <li>• Check that the transducer cable is connected.</li> </ul>
Picture appears but zero line does not appear	<ul style="list-style-type: none"> <li>• The picture is shifted. Check the shift setting</li> <li>• Check if draft is set to zero or higher</li> </ul>
The picture sensitivity is too low	<ul style="list-style-type: none"> <li>• Check the gain setting in manual operation</li> <li>• Marine life or air bubbles can attach to the transducer face</li> <li>• Bottom is too soft to return an acceptable echo</li> </ul>
The depth indication does not appear	<ul style="list-style-type: none"> <li>• For manual operation, adjust gain and range to display the bottom echo (in reddish-brown)</li> <li>• Adjust bottom level HF/LF</li> </ul>
Noise or interference shows on the display	<ul style="list-style-type: none"> <li>• Make sure the transducer cable is not near the engine</li> <li>• Check the ground</li> <li>• Check if another Sounder in the vicinity of your boat has the same frequency as your Sounder</li> <li>• Try to adjust the interference rejection</li> </ul>

To diagnose a potential installation problem follow steps indicated in the following "Sounder Troubleshooting diagram"



Sounder Troubleshooting diagram

