

The Simrad logo consists of the word "SIMRAD" in white, bold, sans-serif capital letters, set against a solid red rectangular background.

Go With Confidence

Simrad Multifunction display software

1.5 56.6.43

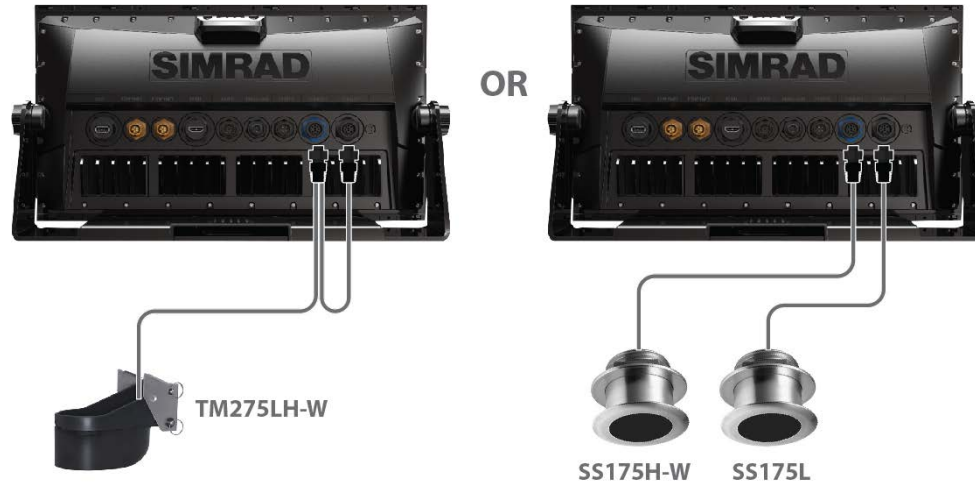
Release notes

NSS evo3 NSS_evo3-1.5-56.6.43-Standard-1.upd

June 2017

Dual Channel Sonar Support

This software now adds the previously specified functionality to simultaneously display both channels of a connected dual channel CHIRP transducer, or two connected single channel CHIRP transducers.



Dual Channel Sonar Support

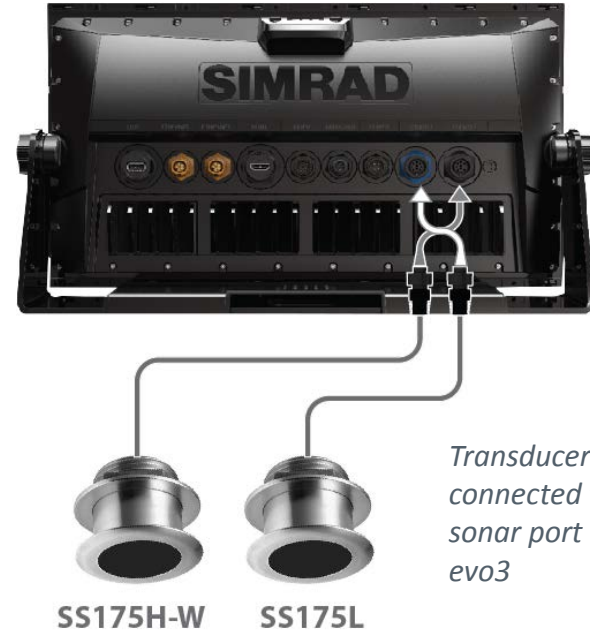
Transducer Connectivity

Connecting dual channel transducers



Either cable can be connected to either sonar port of the NSS evo3

Connecting two single channel transducers



Transducers can be connected to either sonar port of the NSS evo3

Transducer Connectivity

Transducer port compatibility



SONAR1



50/200kHz or
83/200kHz or
CHIRP

HDI

SONAR2



50/200kHz or
83/200kHz or
CHIRP

ForwardScan *

TotalScan

Structure
Scan

HDI

* ForwardScan and echo cannot be displayed simultaneously, unless they are plugged in to separate devices. The echo will be paused while ForwardScan is viewed and vice-versa

Transducer Adapter Cables

Transducers with 7 pin BLUE plug can use adapter cable (000-13313-001)



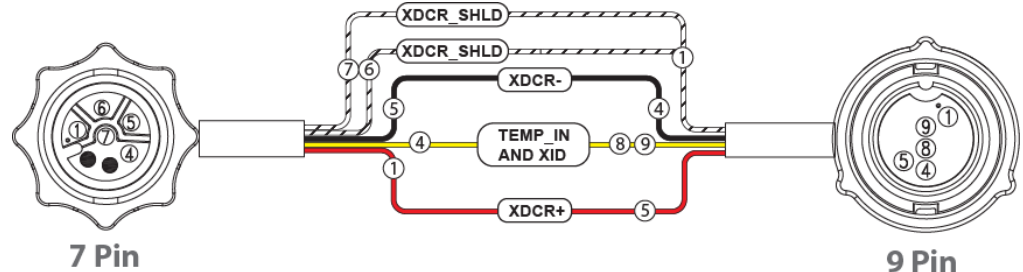
7 Pin BLUE



7 Pin blue to 9 pin black adapter
(000-13313-001)

* Speed from B744 is not passed through

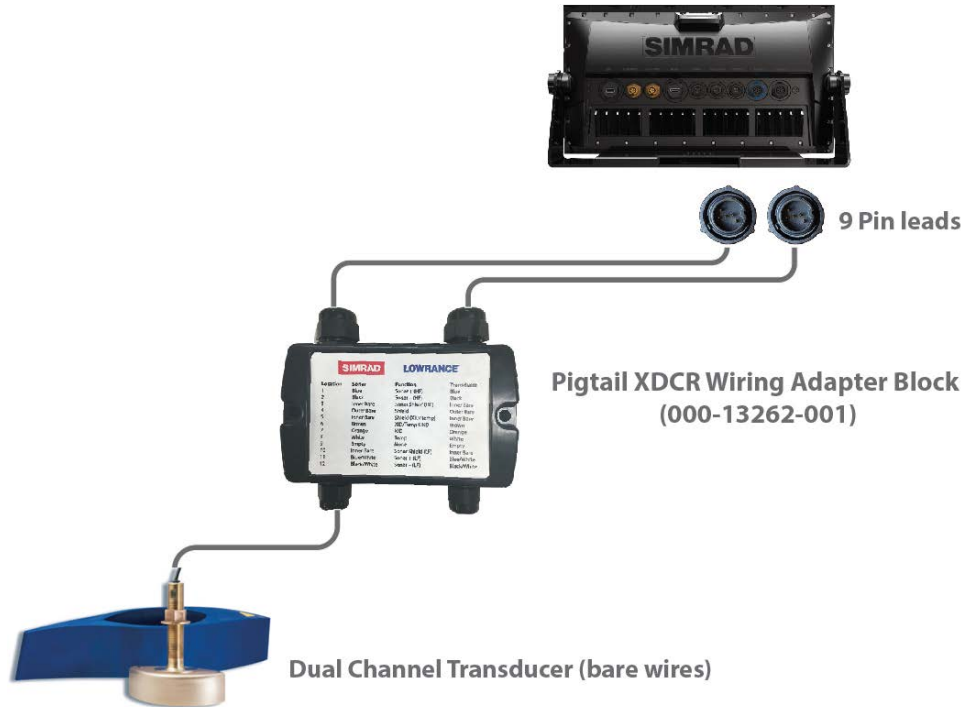
Transducers with 7 pin BLUE plug



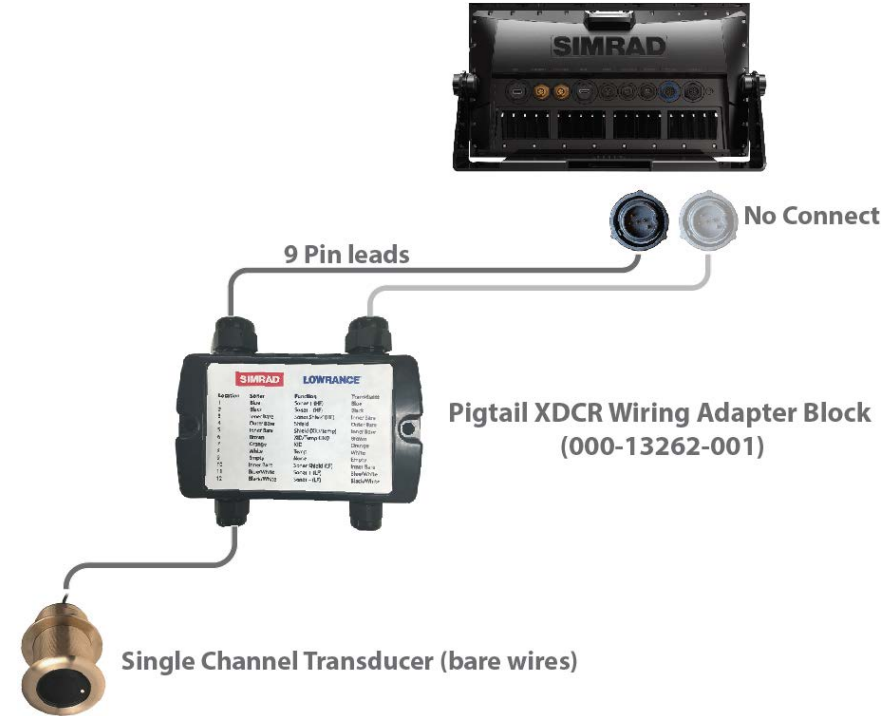
000-13313-001 adapter cable pinout

Transducer Connection block

Dual Channel transducer with bare wires



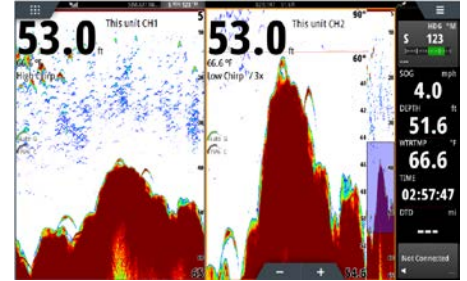
Single transducer with bare wires



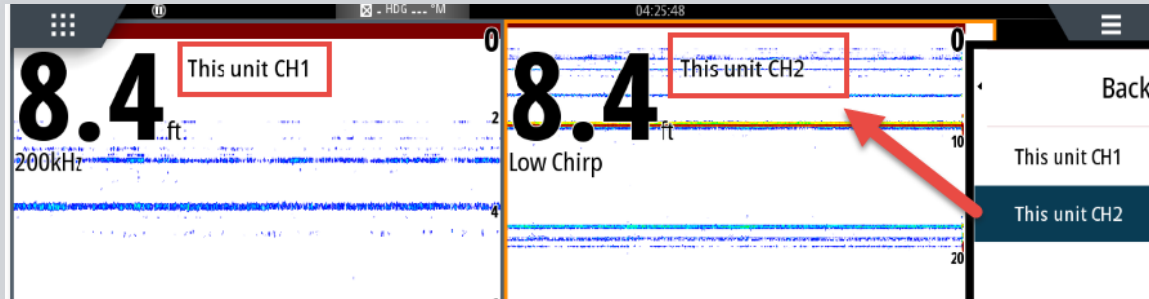
Initial Setup

Source selection

Example setup: Single NSS evo3 with a Dual Channel TM275
LH-W



*On an echo sounder page or split screen
select MENU >SOURCE. Choose CH1 or CH2*



*By default the sources
are named This Unit
CH1 and This Unit CH2.*

Initial Setup

Source selection

Two NSS evo3 (12" & 9") with a Dual Channel
TM275 LH-W

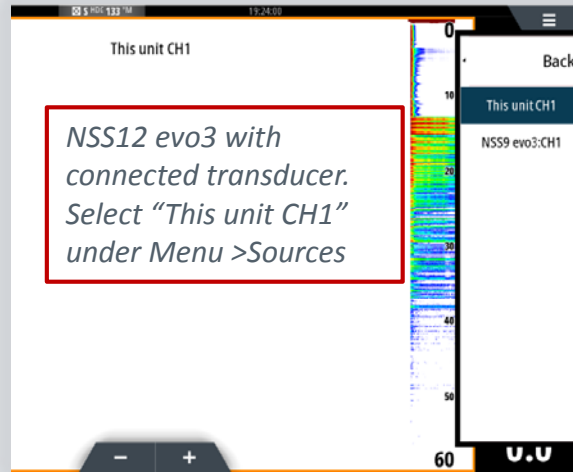
NSS12 evo3

NSS9 evo3

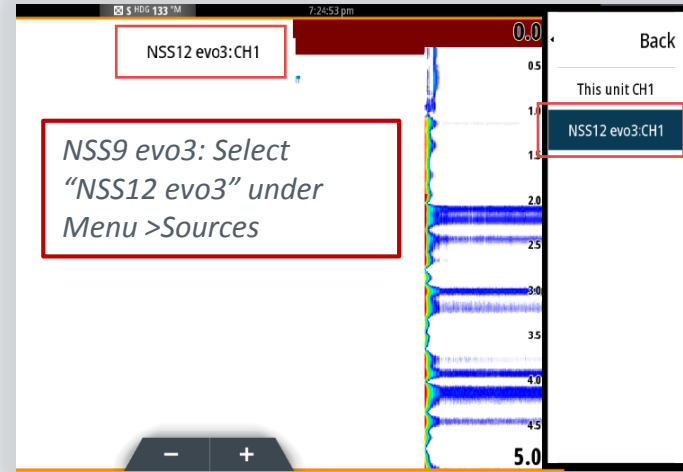


TM275LH-W

NSS12 evo3



NSS9 evo3



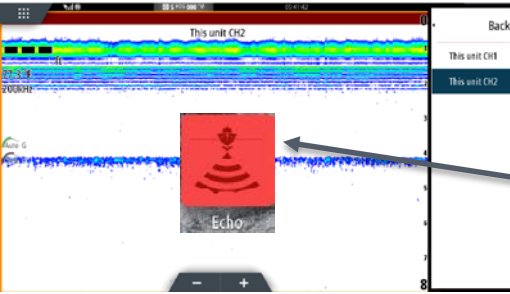
Tips: Example, TotalScan Setup

MFD. 1

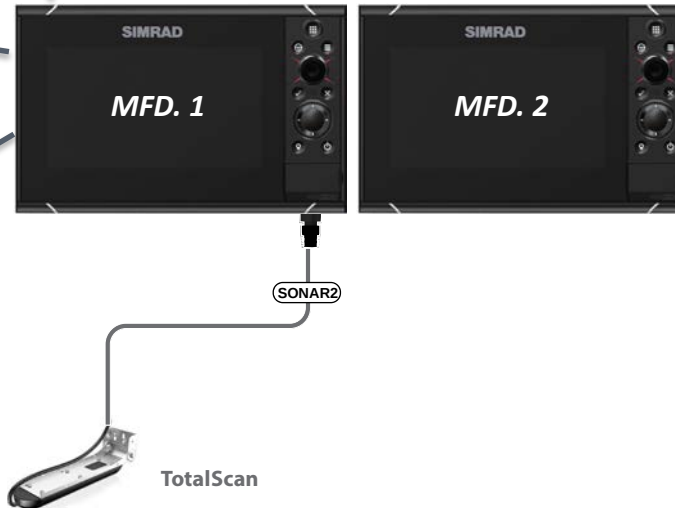
Echo>Settings: Check Ch1 & Ch2



Echo: Choose Source This Unit CH2



Dual MFD with one TotalScan transducer
Connected to Sonar port 2 on MFD.1

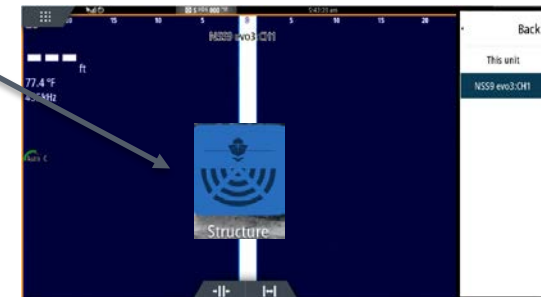


MFD. 2

Echo: Choose Source CH2 of the unit with transducer



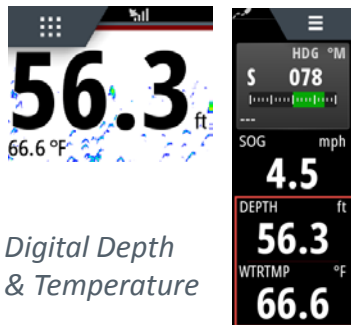
SS: Choose CH1 of the unit with transducer



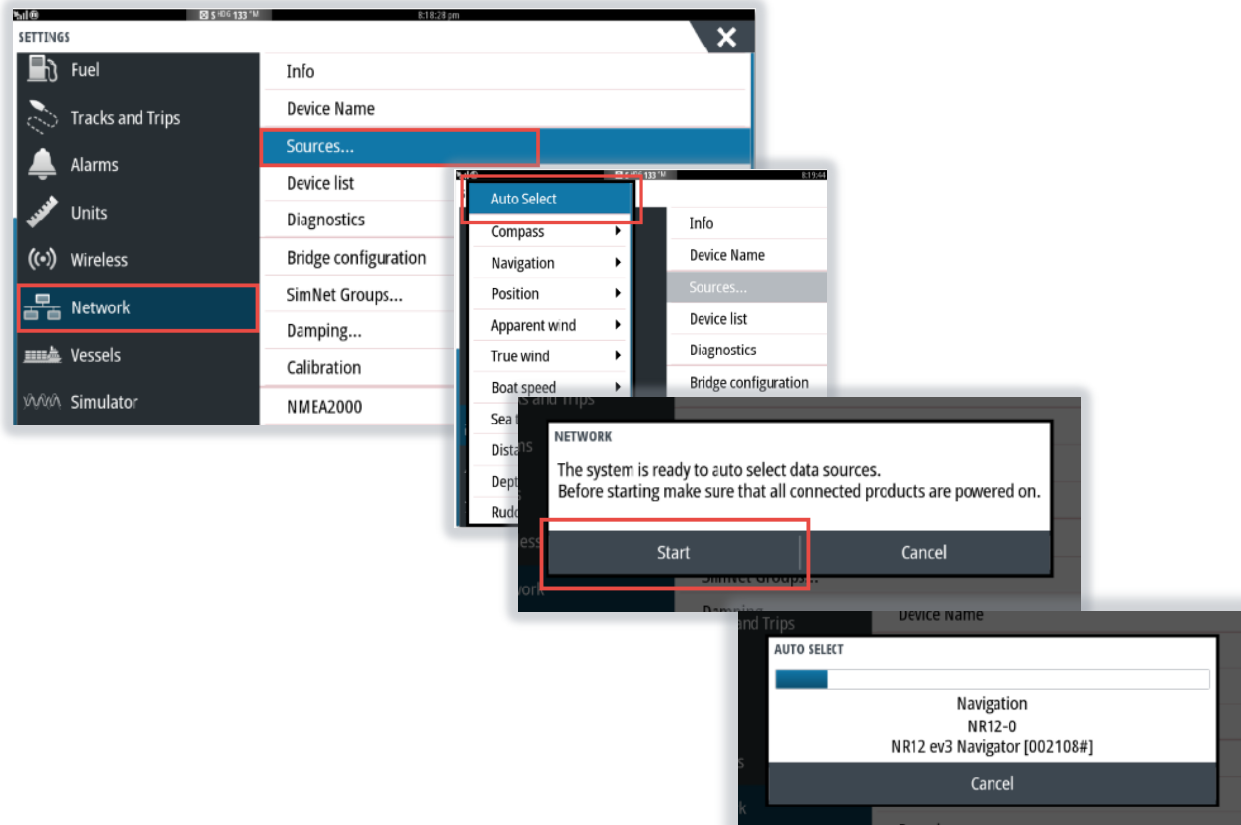
Set N2K Digital Depth/Temp. AutoSource Select

HOME > Network > Sources > Auto Select

Auto Source Select will most times setup the sources for digital Depth And temperature. See the next slide for more advance setup



Digital Depth & Temperature

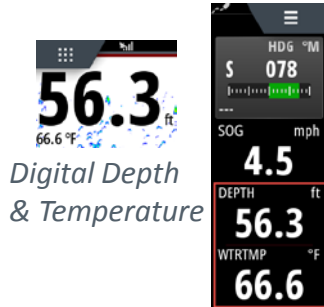


Tips: Set N2K Digital Depth/Temp.

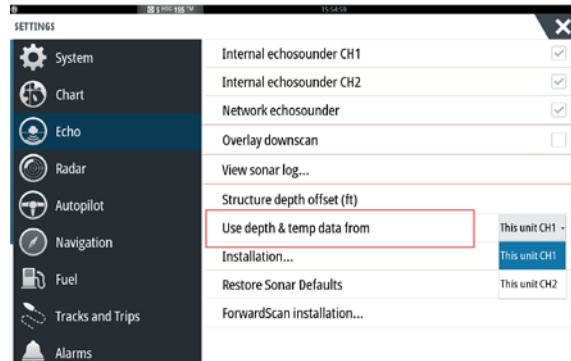
Nominate a transducer as a source of Depth and Temp

HOME > SETTINGS > Echo

Tell the system which transducer to use as a source of digital temperature and depth. The MFD will then bridge the Depth and Temp from that transducer on the the NMEA network. (choose the transducer that has a temperature sensor. In this case TM275-HW is selected. Note if source is not named it would say "This Unit Ch1") See next slides regarding naming sources)

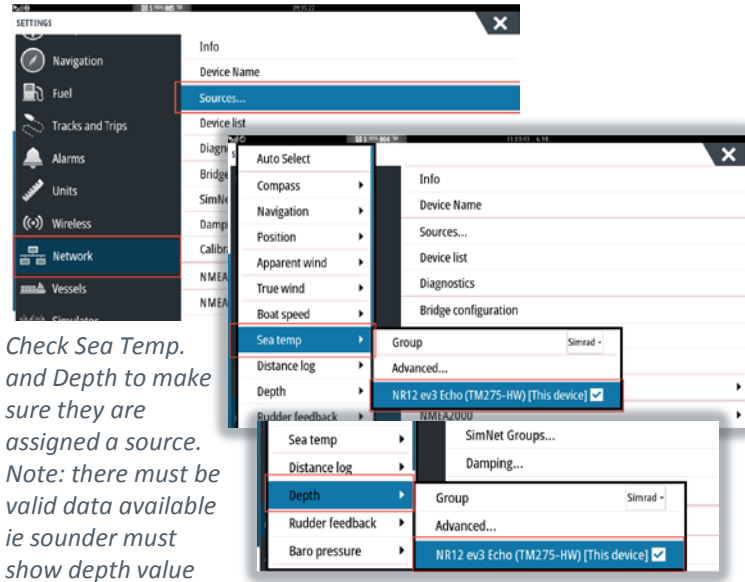


Digital Depth & Temperature



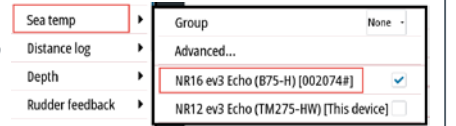
Setup NMEA2000 source for Depth And Temp

HOME > SETTINGS > Network > Sources



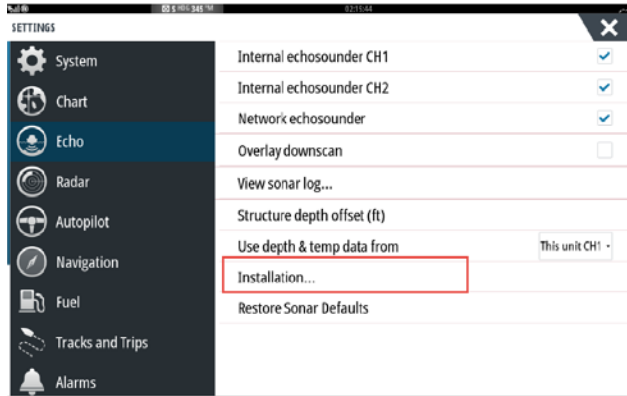
Check Sea Temp. and Depth to make sure they are assigned a source. Note: there must be valid data available ie sounder must show depth value

Example of a more complex system with two sources of Depth and Temp.



Tips: Naming sources

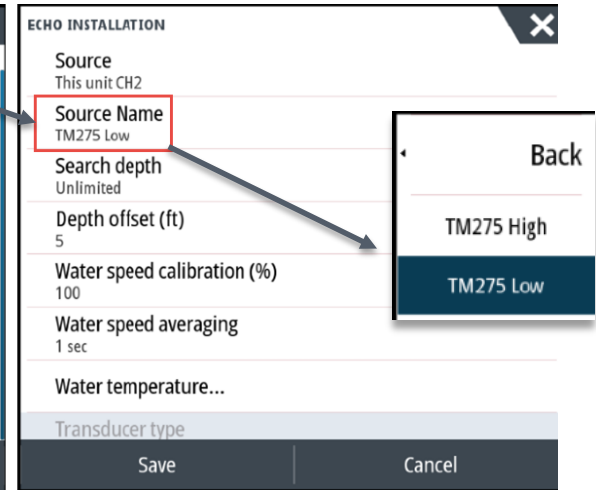
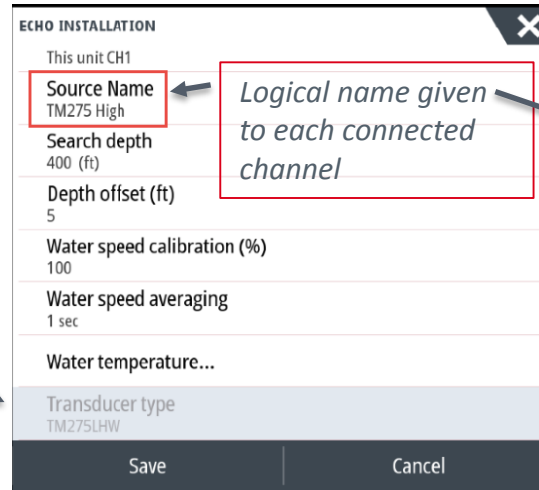
HOME > SETTINGS > ECHO



This example shows transducer with XID. It is not possible to change transducer type

Apply a meaningful name to each source. This is especially useful in systems with multiple transducers.

1. Select **HOME > Settings > Installation**
2. Select **Source**. You can set source properties of all available sources from one MFD
3. Select the **Source Name** then use the on screen keyboard. Repeat for other sources

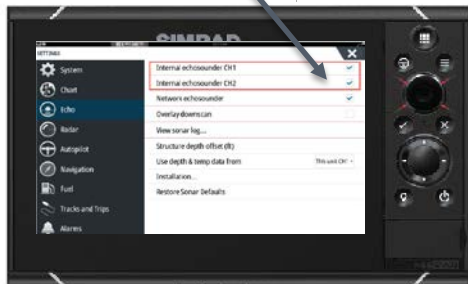


Tips: Disable unused internal echosounders

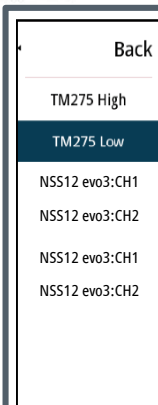


*Internal echo sounder channels enabled.
(transducer dependent)*

Each channel that has a transducer connected to it needs to be enabled.



TM275LH-W



Reduce unused sources from menus by disabling the internal sonar of units that don't have a transducer connected.

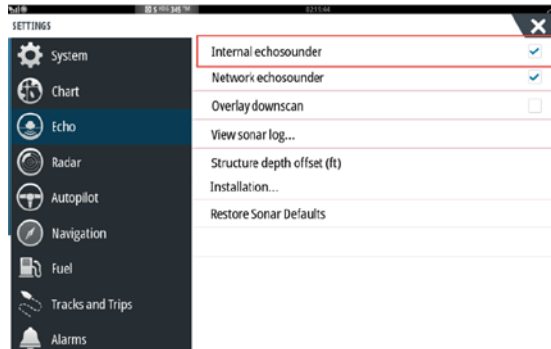
HOME > SETTINGS > ECHO

Troubleshooting

Both connected channels not displaying on the screen at the same time

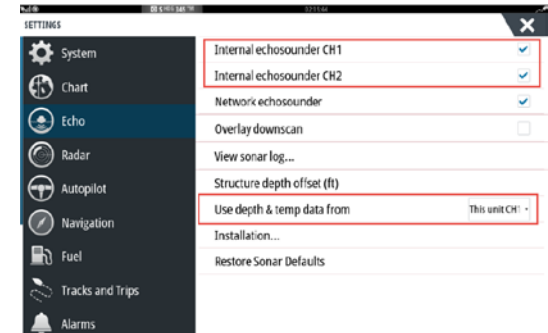
- If there is an another MFD or sonar module that is not running Application 56.x.xx or higher, dual sonar support is disabled and the network will revert to **legacy sonar mode**. This is when only one sonar source is visible at any one time on the network. If the source is changed on one MFD it changes on all MFDs.
- Connected Mercury VesselView 4/7, BSM-1, BSM-2, BSM-3 or an NSS sport will revert the echo sounder to run in legacy mode, and the NSS evo3 will not be able to simultaneously display a connected Dual channels.
- Please refer to the following page for instructions how to exit legacy mode.

Legacy Mode



If the NSS evo3 is in legacy mode. There will only be one Internal echo sounder channel visible in the Settings > Echo menu

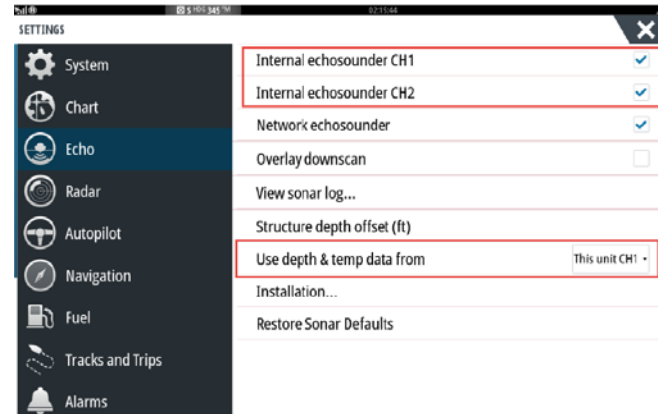
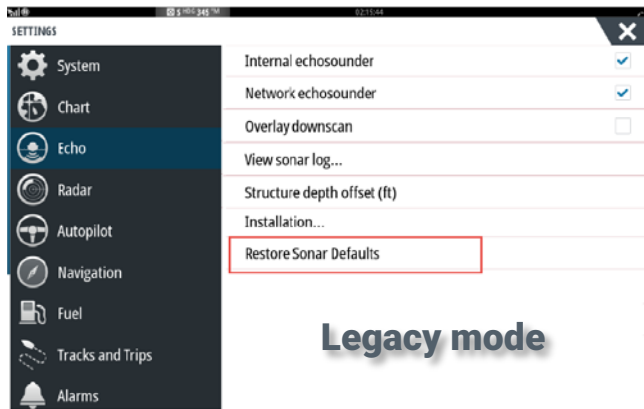
Dual Channel capable



Exit echo sounder legacy mode

Make sure all MFDs and compatible echo sounder modules have the software 56.1.142 or greater.

- On an MFD, go to **HOME** > **Settings** > **Echo**
- Press **Restore Sonar Defaults**. (note: there is no feedback when this is pressed)
- Wait for at least 30 seconds
- Power down ALL MFDs/Sonar modules and remove power to the entire system
- Wait for at least 30 seconds, then re-apply power to the system and turn on all MFDs and sonar modules
- The network should now be able to support multiple network sounders. A simple test is to go to **Settings** > **Echo**. There should be both Internal echosounder **CH1** & **CH2** and a menu item called “**Use depth & temp data from**” like below



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