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HDS Gen2 Touch 2.0 software release addendum

This addendum documents new features included in the HDS Gen2 Touch 2.0 software upgrade. These features are not described in the HDS Gen2 Touch Operator manual or other documentation.

StructureMap HD

You can create standard resolution or high resolution StructureMap .smf files. High resolution .smf files capture more detail, but take longer to convert and are larger than standard resolution .smf files.



Check the High Resolution checkbox to convert files in high detail.

Networking

Sonar and Structure

You can now view and control traditional sonar and structure sonar independent of one another on an Ethernet network. That allows you to view traditional sonar from a trolling motor transducer, while viewing StructureScan data from a transducer mounted on the transom.

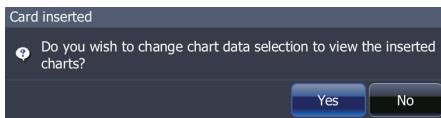
Structure history and standby mode

The StructureScan transducer will continue to record structure history when the unit is in Standby mode. To turn off the transducer, enable the Stop sonar command on the Structure menu.

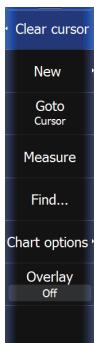
Charting

Sharing Chart data

New with 2.0 functionality is the ability to share charts across the Ethernet network. Chart Sharing allows a user to insert a compatible chart card from Lowrance, Navionics, Jeppesen or other provider into a display on the Ethernet network and view the chart information on any other compatible display on the network. Chart sharing allows the user to save money by not requiring the user to purchase a chart card for every unit on the network.



When a SD chart card is inserted into a unit on the network, other units on the network may be prompted to change chart data to view the data on the SD card, if required.



New Navionics features

The 2.0 software update features several new Navionics features that allow the user to customize their on-the-water experience. This includes Dynamic icons, Easy view, Depth range (highlighting), Shallow water highlighting and Rock filtering.

- Dynamic Icons - Changes traditional stations to animated icons showing current direction, strength and tide levels
- Easy view - Increases the size of cartography on the screen, as though user was using a magnifying glass
- Depth range (highlighting) - Allows user to specify a range of depths to be highlighted. Depths will be rounded to the closest contour interval available. The Max depth range value must be greater than the Min depth range value.
- Shallow water highlighting - Displays pink dots for Shallow areas up to 30 foot range.
- Rock filtering - Filters rocks below a certain depth



Damping

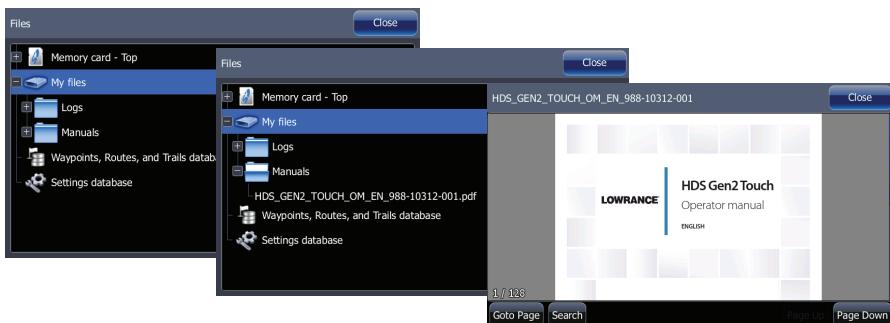
Smooths out fluctuations in data on the display (course over ground, speed over ground, etc.) that occur when navigating at slower speeds.



Damping accomplishes this by averaging the data. The higher the damping level, the more data history will be averaged. As a result, higher damping levels cause a delayed response to changes in the data.

PDF reader

Use the PDF viewer to read manuals and other PDF files on the HDS display. The manuals can be read from an inserted SD card or from the unit's internal memory.



Point 1 antenna configuration



Enabling WAAS/MSAS/EGNOS

Select WAAS/MSAS/EGNOS to use the satellite based augmentation system (SBAS), which can increase accuracy of a GPS fix to within approximately 1m. WAAS covers North America, MSAS covers East Asia (primarily JAPAN), and EGNOS covers Europe.



Position Update

Position update rate may be adjusted to suit your vessel and to minimize unnecessary NMEA 2000 data traffic. For high speed vessels, the maximum update rate will be desired for measuring performance to the highest possible accuracy. On slower vessels, and large networks with a lot of network traffic, it may be preferable to reduce the network load.

COG/SOG Filter

Averages COG/SOG data to smooth out displayed values. The best setting will depend on the type of vessel and user preference.

Configure/Offset

Offset may be applied to correct for small errors seen in the orientation relative to the bow of the vessel. This would typically be the result of the antenna not being physically 100% parallel with the center line of the vessel. To determine a correction value, a reliable hand bearing or fixed magnetic compass should be used for reference.

→ **NOTE:** Ensure calibration of compass is completed prior to adjusting the offset.

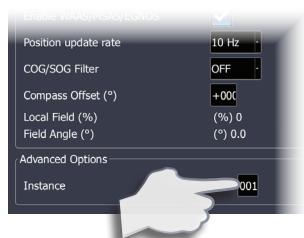
Instance

If more than one device of the same type exists in the network, the instance number may be changed to a unique number to allow easier identification.

You also can disable the heading sensor on the Point 1 antenna by changing the instance value.

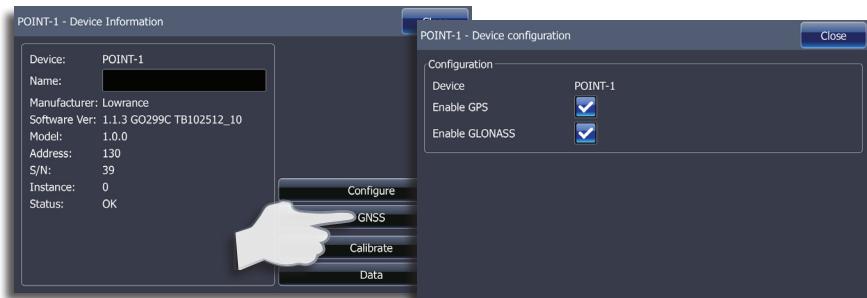
Disabling the heading sensor

Set the Point 1 instance value to 001 to disable the heading sensor. This is useful when more than one Point 1 antenna is installed on the same network and you only want to receive data from one of the heading sensors.



GNSS Configuration

The GPS and GLONASS options may be enabled simultaneously, or individually. Generally, GPS offers the highest accuracy, but in certain circumstances a better fix may be achieved with both or only GLONASS enabled.



→ **NOTE:** When the Point-1 detects another heading source in the network, it will automatically disable its own heading output in preference of the other source.

Calibrate

With the Point 1 mounted securely in its permanent location, follow the on-screen instructions to calibrate the compass.

GoFree™ wireless

With a WIFI-1 unit connected to an HDS unit you can use a wireless device to view or remotely control the HDS display. Displaying HDS data on a wireless device requires a corresponding app. Please check the appropriate Apple or Android store for your device.

- **Note:** In this document we have used the term **wireless devices**, and graphics from iPad and app Store are used as examples. The wireless functionality, however, is provided for other vendor's tablets or smartphones. Tablets can be used for viewing and controlling the HDS unit when relevant apps are available. Smartphones can only be used as an HDS viewer.
- **Note:** Installation and wiring for the WIFI-1 unit is described in the separate WIFI-1 Installation Guide.
- **Note:** GoFree wireless is not compatible with HDS Gen1 units. If an HDS Gen1 unit is on the same network as a GoFree module, networking will no longer be functional.

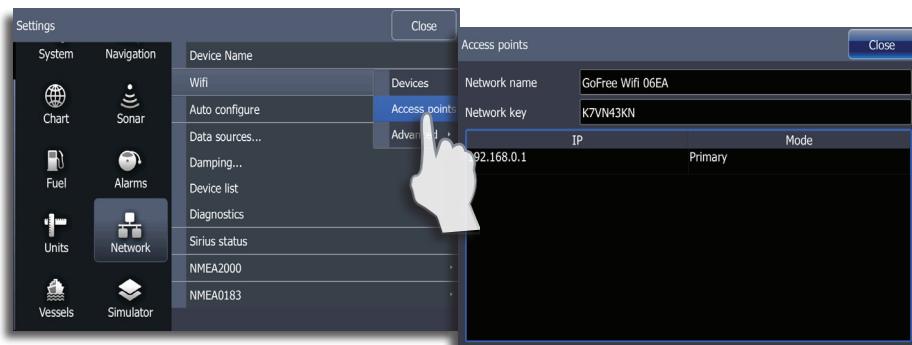
Setting HDS device name

You will only need to change your unit's name when HDS units on the network have the same default device name.

Setting up the WIFI-1

Connect the WIFI-1 unit to the HDS unit with the Ethernet cable supplied with the WIFI-1 unit

- The WIFI-1 access point will now be listed in the HDS Network menu



Downloading the GoFree app

Download the Lowrance GoFree Controller & Viewer app to your wireless device from the Apple Appstore or Android Google Play app store.

Connecting the wireless device to the WIFI-1

Set up the wireless device's network to be the WIFI-1 defined as primary access point.



Enable/disable wireless control of HDS

Start the app, and tap the HDS unit icon in the GoFree Controller page to request remote control of the HDS unit.

→ **Note:** Older versions of the Android operating system do not support display unit autodiscovery. If no units appear on the Lowrance GoFree Controller screen, follow the onscreen instructions.



The first time you request control from the wireless device, the HDS unit will prompt you to confirm remote control from this device.



When control is confirmed, the connection will be immediately established.

→ **Note:** If control is rejected the wireless device will mirror the HDS screen, but no operation will be allowed from the remote device. All connected wireless devices will be listed in the HDS dialog, and you can change the access level for all connected devices.



Operating the HDS with a wireless device

When remote control is accepted, the HDS page will be mirrored to the wireless device.

The HDS image includes softkeys. Tapping these keys works as operating the similar hard keys on the HDS screen.



Lets you select which unit to control if more than one is connected to the active WIFI-1 unit



Returns to the GoFree Controller page.