LOWRANCE®

HDS Gen2 2.0 software release addendum

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

Screen capture

A new method for taking screen captures has been implemented in this software version. This new method allows you to quickly capture screen shots to internal memory without having to enable/disable screen capture functionality.

Press the **POWER** and **PAGES** keys simultaneously to take a screen capture.

StructureMap HD

You can create standard 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.
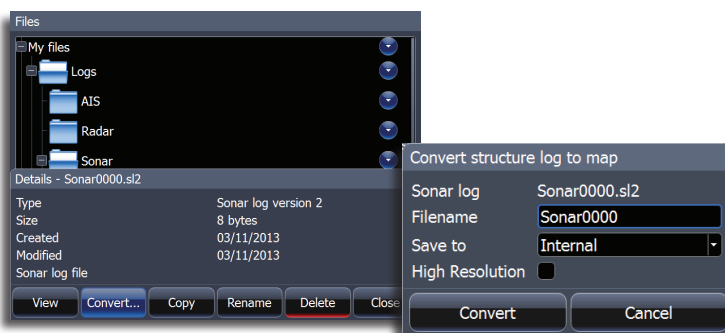
Check the High Resolution checkbox to convert files in high detail.

StructureScan Auto Contrast

Automatically adjusts the contrast setting to a level that works best with current water conditions.
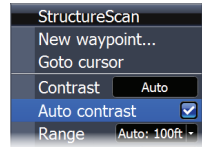
Customizable panel layouts

HDS-8 and HDS-10 users can access new customizable panel layouts. To access the customizable layout menu, press **PAGES**, select a combo page, and press **MENU**.
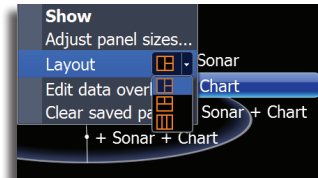
Charting

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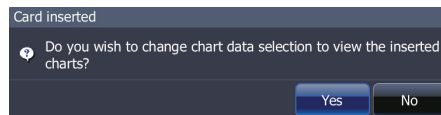
When a SD chart card is inserted into a unit on the network, other units on the network may be prompted to change chart data to view the data on the SD card, if required.

Dual chart

Use this feature to view a Navionics chart and any Lowrance compatible chart simultaneously. To use this mode, the unit must be configured to display two chart panels. You can toggle the active panel by pressing and holding the Pages key.

Once the active panel is selected, you can configure one panel for Lowrance and one panel for Navionics from the Chart options menu.

Selecting chart data

The method for selecting chart data has changed since the most recent operation manual release.

1. Access the Chart menu

2. Select **Chart options**

3. Select **Change to Lowrance** or **Change to Navionics**

4. Press **ENTER**.
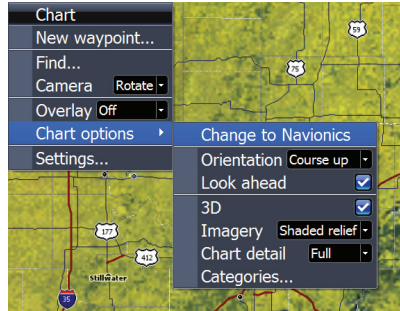
New Navionics features

The 2.0 software update has several new Navionics features that allow the user to customize their on-the-water experience. This includes Dynamic tides and currents, Easy view, Depth highlighting range, Shallow water highlighting and Rock filtering.
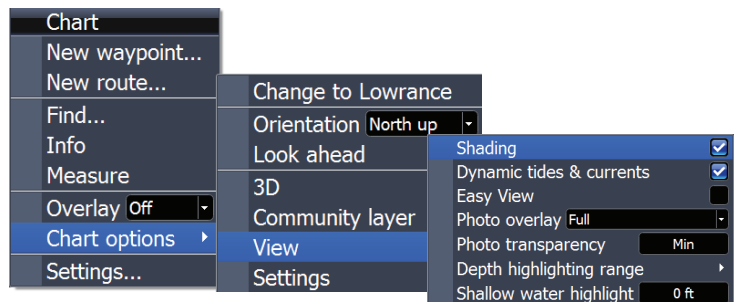
- Dynamic tides and currents - Changes traditional stations to animated icons showing current direction, strength and tide levels

- Easy view - Increases the size of cartography on the screen, as though user was using a magnifying glass

- Depth highlighting range - 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.
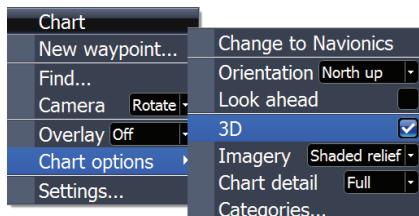
- Shallow water highlighting - Displays pink dots for Shallow areas up to 30 foot range.
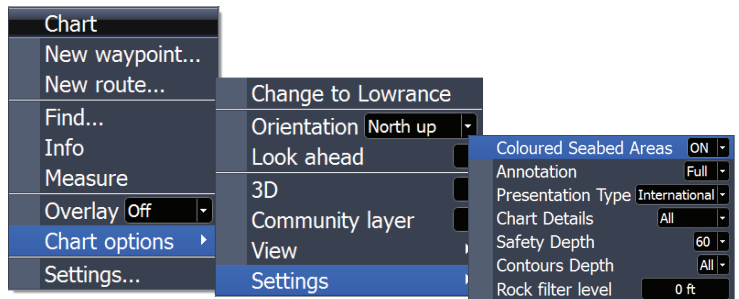
- Rock Filtering - Filters rocks below a certain depth

3D charts for Lowrance

3D charts are available for Insight mapping. The navigation in 3D charts have changed slightly with the HDS 2.0 software update.
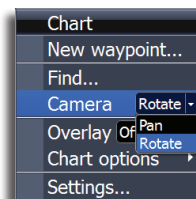

There are two 3D view options available:

- Rotate - default view keeping the boat in center on the chart panel
- Pan - allows you to move the 3D chart view away from the vessel

You toggle the two options by tapping the Camera softkey on softkey units or by changing the Camera selection on the chart menu.

Rotating the 3D chart

In this view the camera position is fixed, and the camera can only be rotated and tilted.

By default the vessel's position will be in center if **Look Ahead** is not selected. The camera angle is as seen from your eye position, looking toward the vessel. The vessel's rotation on the chart is defined by the chart orientation settings.
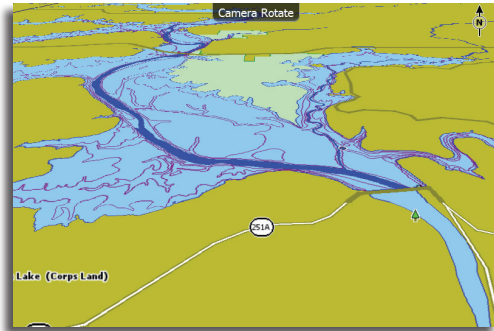

You can change the camera's tilt angle by pressing the keypad up or down. You rotate the camera around it's own vertical axis by pressing the keypad left or right.

Panning

The **Pan** option allows you to view the entire 3D chart, regardless of vessel position.

You move the camera away from the vessel and around in the chart by pressing the keypad in any direction. When you remove your finger from the keypad the view will remain in the selected position.

The camera's tilt angle is as set in **Rotate** view.
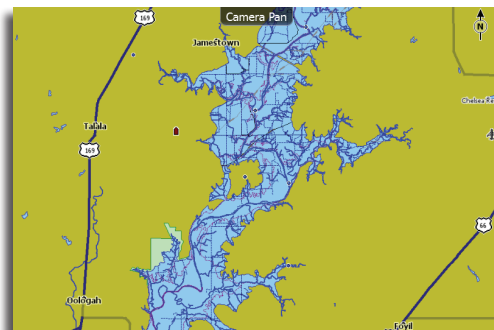
Export region

Allows you to create a file of select waypoints, routes, and trails from a specific region. This allows the user to better manage critical user information and segregate it by lake, state, region, etc for ease in backup and restoration or sharing with friends.

1. Access the Files utility
2. Select **Waypoints, Routes and Trails** and press **ENTER**
3. Select **Export Region** and press **ENTER**
4. Align the cursor on the red X you want to move and press **ENTER**
5. Use the keypad to move the X to the desired location and press **ENTER**
6. Repeat Steps 4 and 5 to reposition the other red X
7. Press **Menu**
8. Select **Export** and press **ENTER**
9. Select the desired user data file format and press **Export**
10. Select the destination folder and press **OK**
11. Input the desired file name and press **OK**
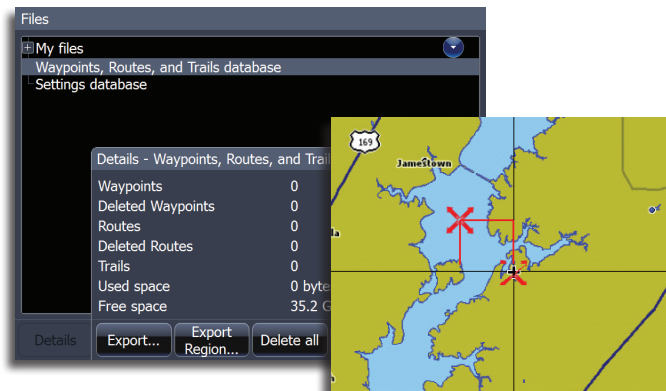
→ *Note:* To export waypoints, routes and trails to a non-HDS unit, select a compatible file format and export the file to a SD or microSD card that works with the non-HDS unit.

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.
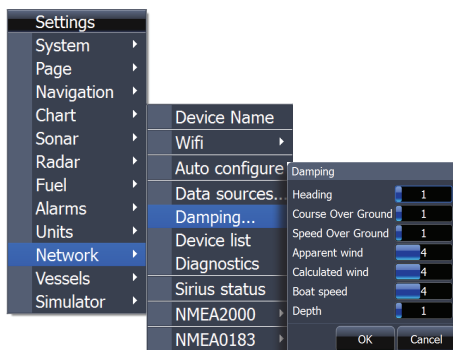

PDF viewer

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. Use the softkeys and the keypad to navigate through the pdf file.
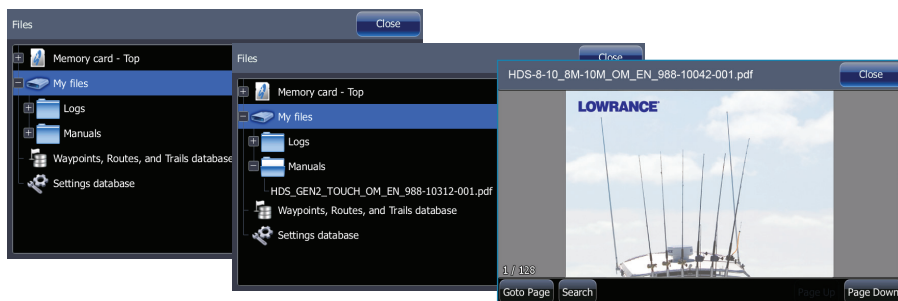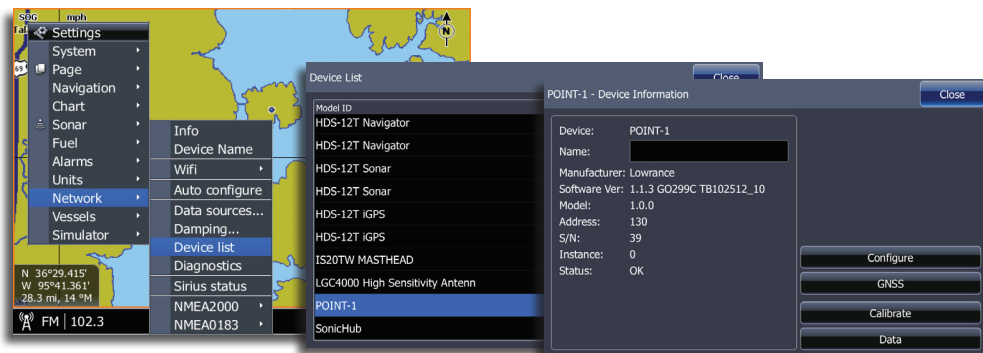

→ *Note:* On non-softkey units, press **MENU** to access pdf menu options. Use the keypad to navigate through the pdf.

Vessel setup

Your unit now supports up to eight engines and five tanks in the Vessel setup dialog.
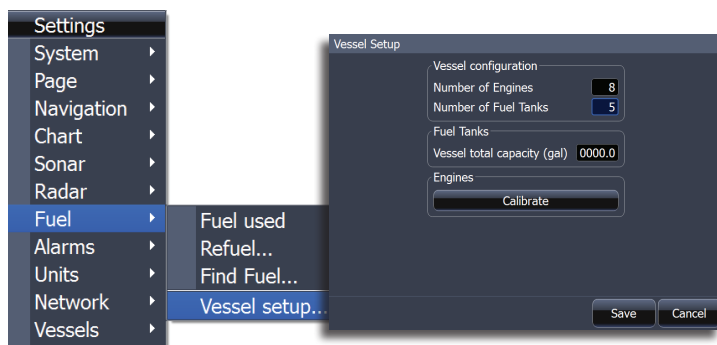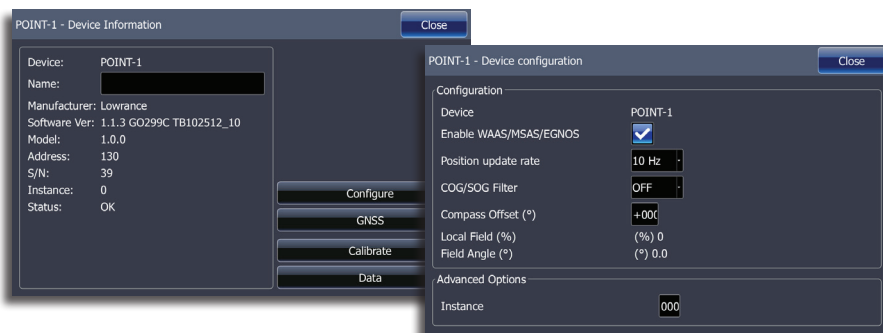

Point 1 antenna configuration

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.
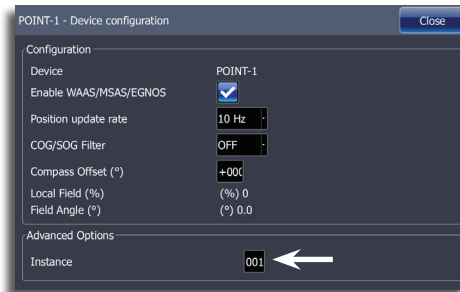
GNSS Configuration

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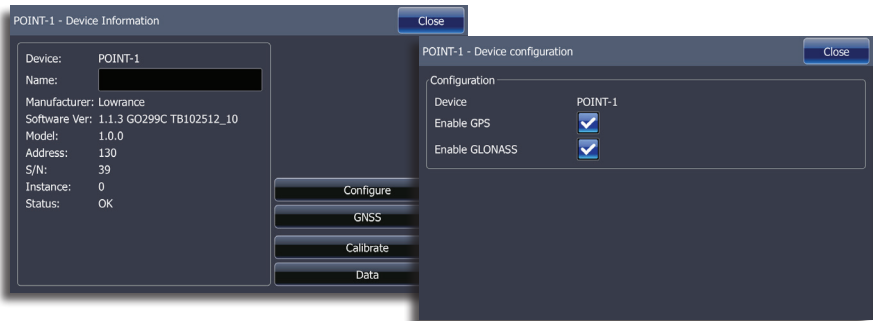
→ *NOTE:* When the Point-1 detects another heading source in the network, it will automatically disable its own heading output in preference of the other source.

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 a HDS Gen2 unit with 2.0 software, you can use a wireless device to remotely view 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**. Graphics from iPad and the Apple app Store are used as examples. The wireless functionality, however, is provided for other vendors' tablets or smartphones, and those can be used for viewing the HDS display when the relevant apps are available.

→ *Note:* Installation and wiring for the WIFI-1 unit are 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 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 viewing of HDS

Start the app, and tap the HDS icon to request remote view 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 Viewer screen, follow the onscreen instructions.