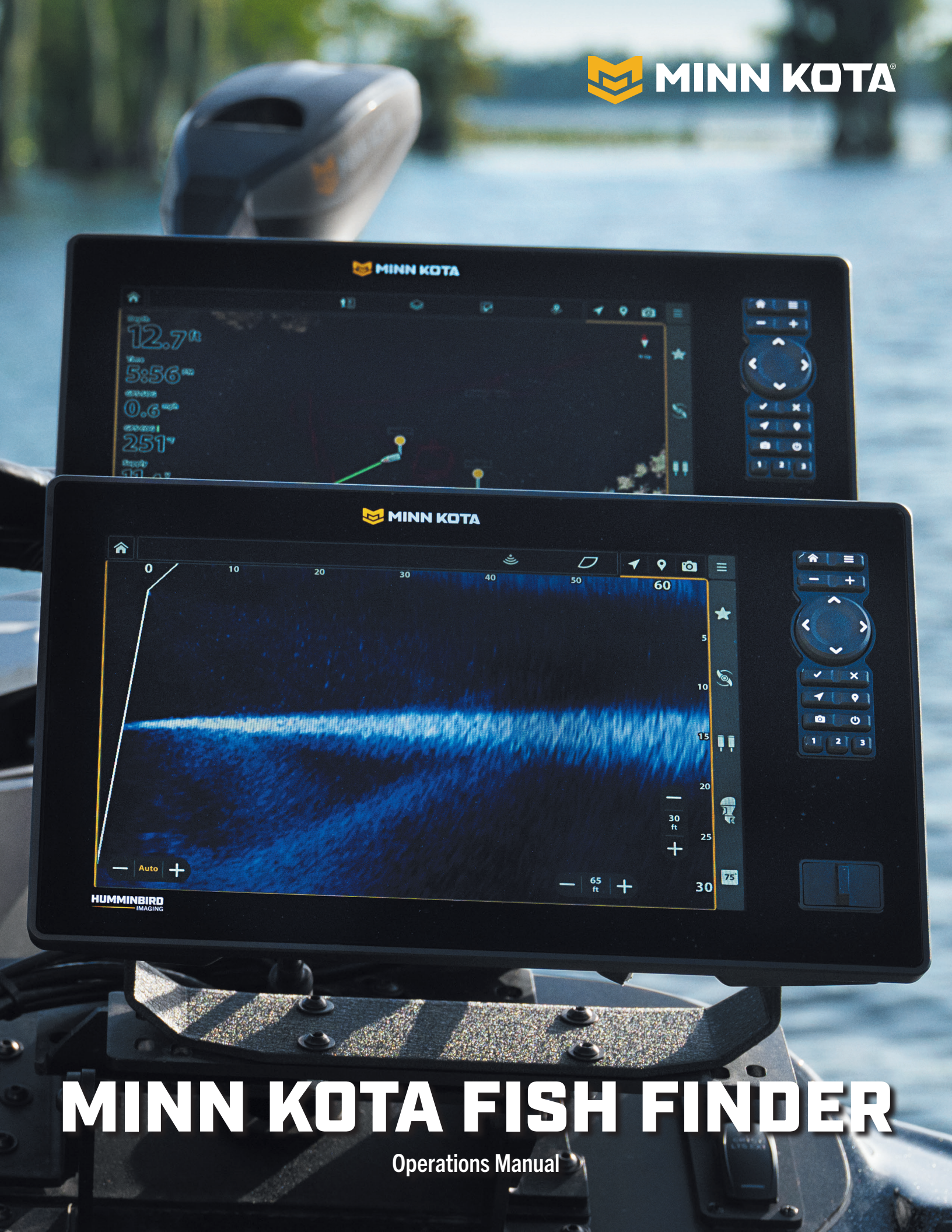



# MINN KOTA FISH FINDER

Operations Manual

# COMPLIANCE STATEMENTS

**NOTICE:** Some features discussed in this manual require a separate purchase, and some features are only available on international models. Every effort has been made to clearly identify those features. Please read the manual carefully in order to understand the full capabilities of your model.

**NOTICE:** The illustrations in this manual may not look the same as your product, but your unit will function in a similar way.

**NOTICE:** The procedures and features described in this manual are subject to change without notice. This manual was written in English and may have been translated to another language. Minn Kota is not responsible for incorrect translations or discrepancies between documents.

**NOTICE:** Product specifications and features are subject to change without notice.

**NOTICE:** Minn Kota verifies maximum stated depth in saltwater conditions, however actual depth performance may vary due to transducer installation, water type, thermal layers, bottom composition, and slope.

**NOTICE:** To purchase accessories or any additional equipment for your fish finder configuration, contact Minn Kota Technical Support through our Web site at minnkota.johnsonoutdoors.com.


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# SAFETY CONSIDERATIONS

## ⚠ CAUTION

This device should not be used as a navigational aid to prevent collision, grounding, boat damage, or personal injury. When the boat is moving, water depth may change too quickly to allow time for you to react. Always operate the boat at very slow speeds if you suspect shallow water or submerged objects.

## ⚠ CAUTION

The electronic map in your Minn Kota unit is an aid to navigation designed to facilitate the use of authorized government charts, not to replace them. Only official government charts and notices to mariners contain all of the current information needed for the safety of navigation, and the captain is responsible for their prudent use.

## ⚠ CAUTION

Compass Safe Distance: The control head must be installed at least 4 feet (1.2 meters) from the compass or other magnetic equipment on the boat. Also, see your compass installation guide for details.

## ⚠ CAUTION

This device is granted for use in Mobile only configurations in which the antennas used for this transmitter must be installed to provide a separation distance of at least 8 inches (20 cm) from all person and not be co-located with any other transmitters except in accordance with FCC and Industry Canada multi-transmitter product procedures.

## ⚠ CAUTION

Minn Kota is not responsible for the loss of data files (waypoints, routes, tracks, groups, recordings, etc.) that may occur due to direct or indirect damage to the unit's hardware or software. It is important to back up your fish finder's data files periodically. Data files should also be saved to your computer before restoring the fish finder defaults or updating the software. Visit our Web site at minnkota.johnsonoutdoors.com and download your fish finder operations manual for details.

## ⚠ CAUTION

Disassembly and repair of this electronic unit should only be performed by authorized service personnel. Any modification of the serial number or attempt to repair the original equipment or accessories by unauthorized individuals will void the warranty.

## ⚠ CAUTION

Do not travel at high speed with the unit cover installed. Remove the unit cover before traveling at speeds above 20 mph.

## ⚠ CAUTION

The user shall maintain 20 cm separation from the RF device to ensure compliance with RF exposure.


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# INTRODUCTION

The instructions in this manual describe the X Series, A Series, XPLORE, APEX and SOLIX fish finder operations. For an overview of functions, see the Quick Start Guide included with your product.

**Build your Fishing System:** Some of the features shown in this manual require a separate purchase. Minn Kota trolling motors, Minn Kota Live, Radar, Talon, Raptor, AIS, NMEA 2000 GPS Heading Sensor, Ethernet Switch, Advanced GPS Wireless Remote, etc. require a separate purchase. To install each accessory, use the installation guide provided with it, or download the guide from our Web site at minnkota.johnsonoutdoors.com.

**Register and Update:** As you build your Minn Kota fishing system, it is important to register your products and keep your software up to date. Visit our Web site at minnkota.johnsonoutdoors.com to register your Minn Kota products, update fish finder and accessory software, and purchase additional equipment. Also, see ***Update Software*** in this manual for more information.

### USING THIS MANUAL ON YOUR COMPUTER OR MOBILE DEVICE ›

The Minn Kota manuals for your fish finder and accessories can be downloaded to your mobile device or computer. If you prefer to use a hard copy for reference, this manual may be printed.

## › Download the Manual to your Mobile Device

1. Download the free Adobe Acrobat Reader app to your mobile device.
2. Go to our Web site at minnkota.johnsonoutdoors.com, and click Support > Manuals.
3. Select the PDF for your fish finder model or accessory, and save it to your device.
4. Open the Adobe Acrobat Reader app.
5. Open the Minn Kota manual.

## › Download the Manual to your Computer

1. Download the free Adobe Acrobat Reader software from http://get.adobe.com/reader/, and install it on your computer.
2. Go to our Web site at minnkota.johnsonoutdoors.com, and click Support > Manuals.
3. Select the PDF for your fish finder model or accessory, and save it to your computer.
4. Open Adobe Acrobat Reader.
5. Open the Minn Kota manual.

   **Jump to a Section:** Click a section name in the Bookmarks panel. Bookmarks can be expanded and collapsed by clicking on the plus (+) or minus (-) icons.

   **Search for Words or Phrases:** Press and hold the Ctrl F keys on your keyboard. Type the word(s) into the text box.

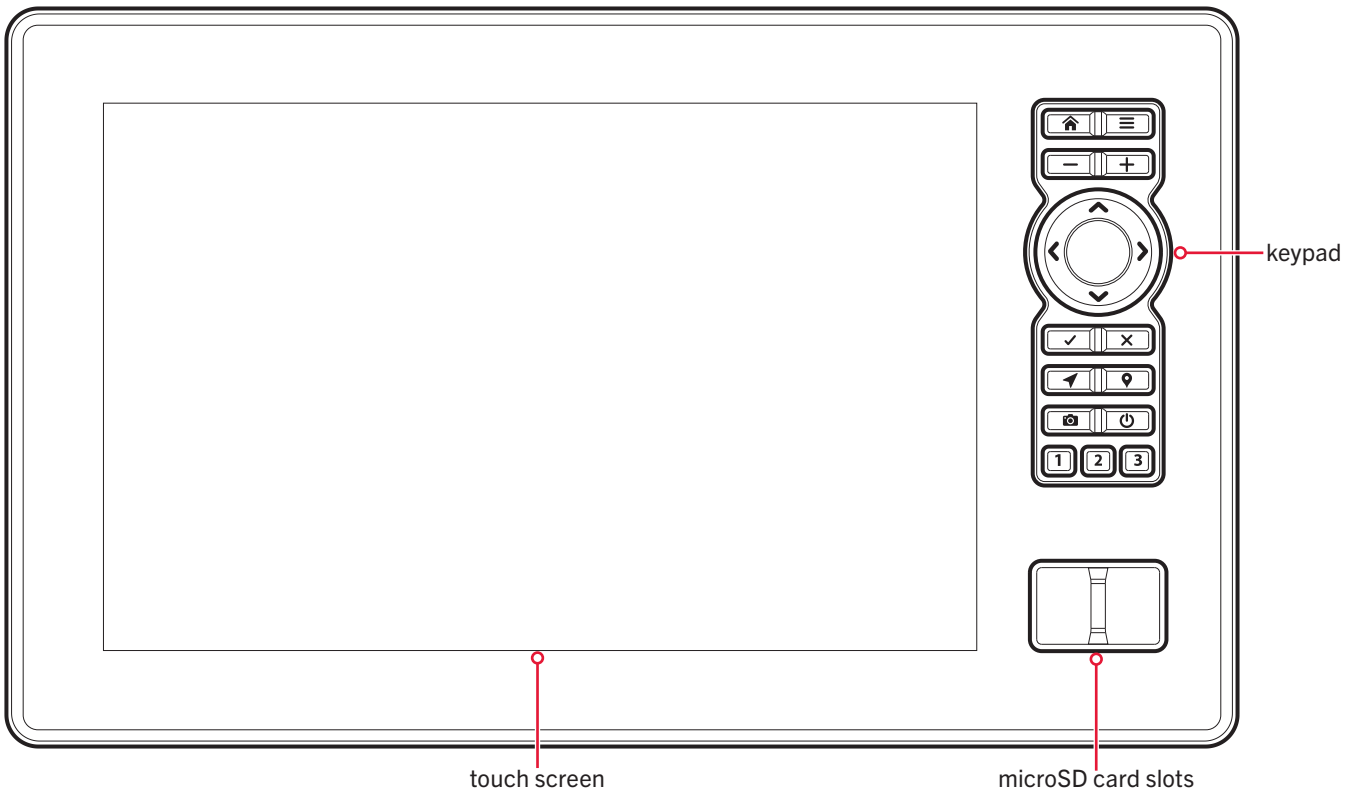
   **Print:** To print, confirm the page sizing is 8.5 x 11" and set to Fit. Set the page orientation to Portrait.

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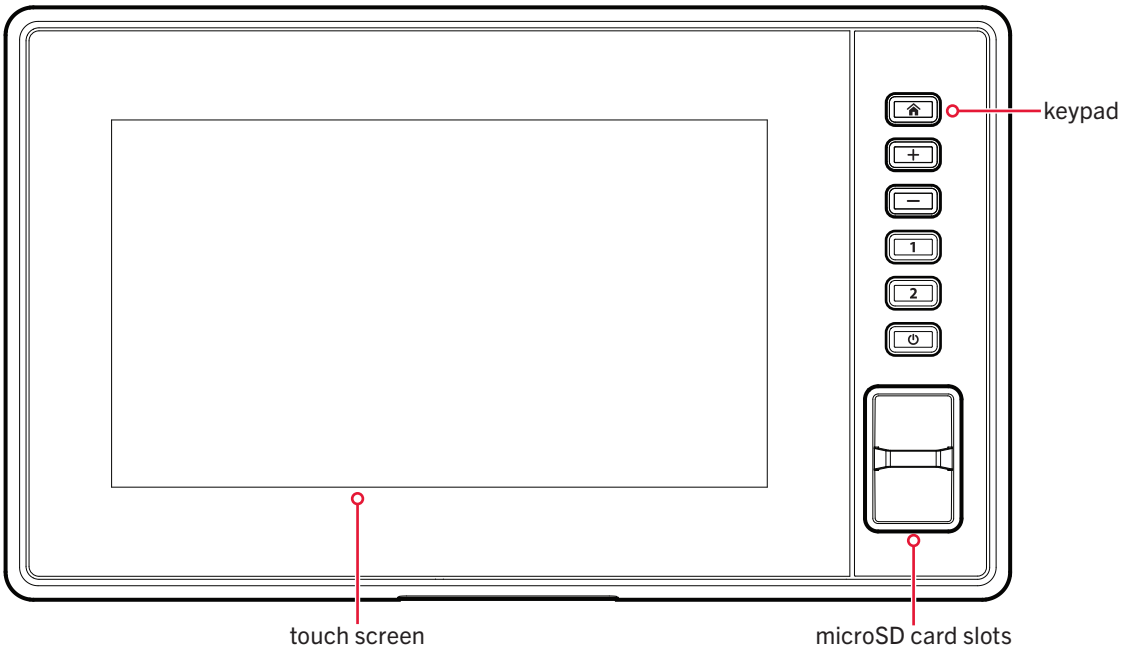
# FISH FINDER OVERVIEW

Review this section for an overview of touch and keypad functions.

**X Series and XPLORE**



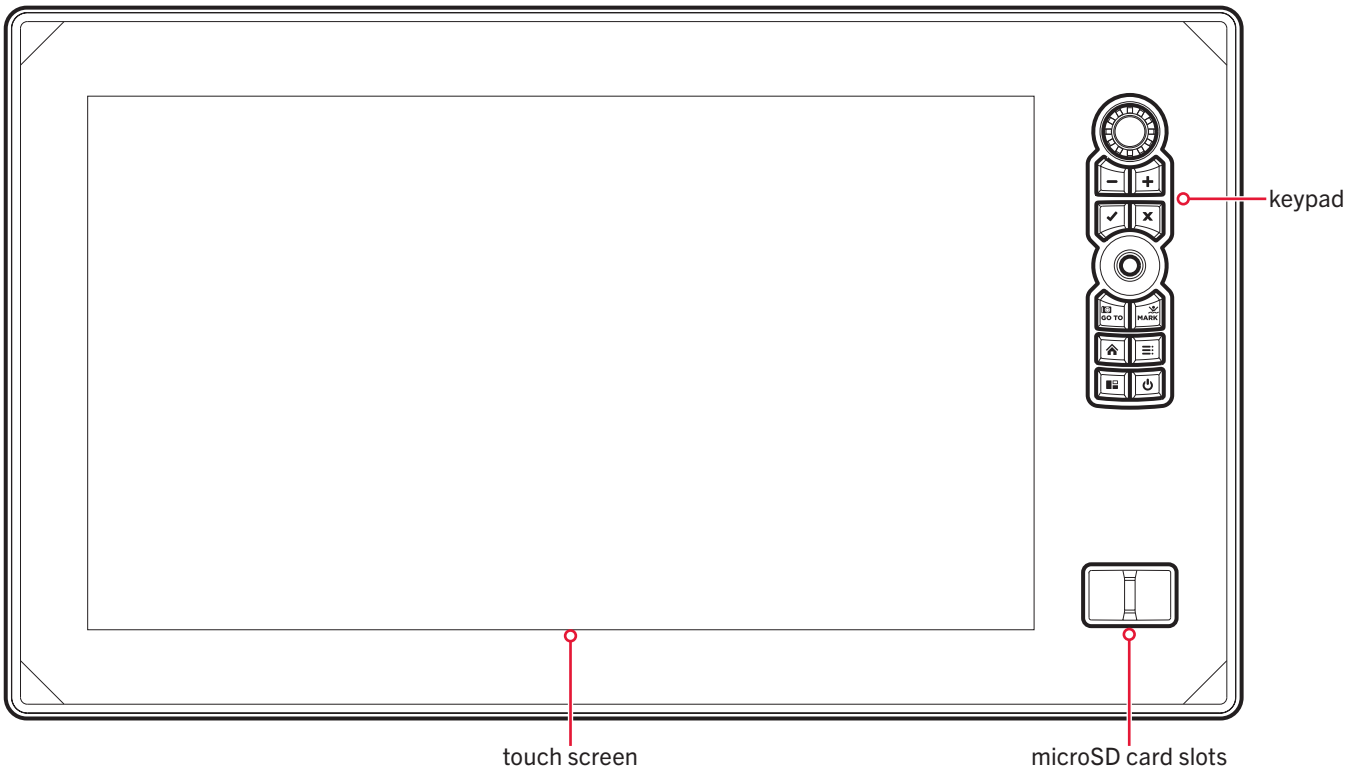

**X7 Series**



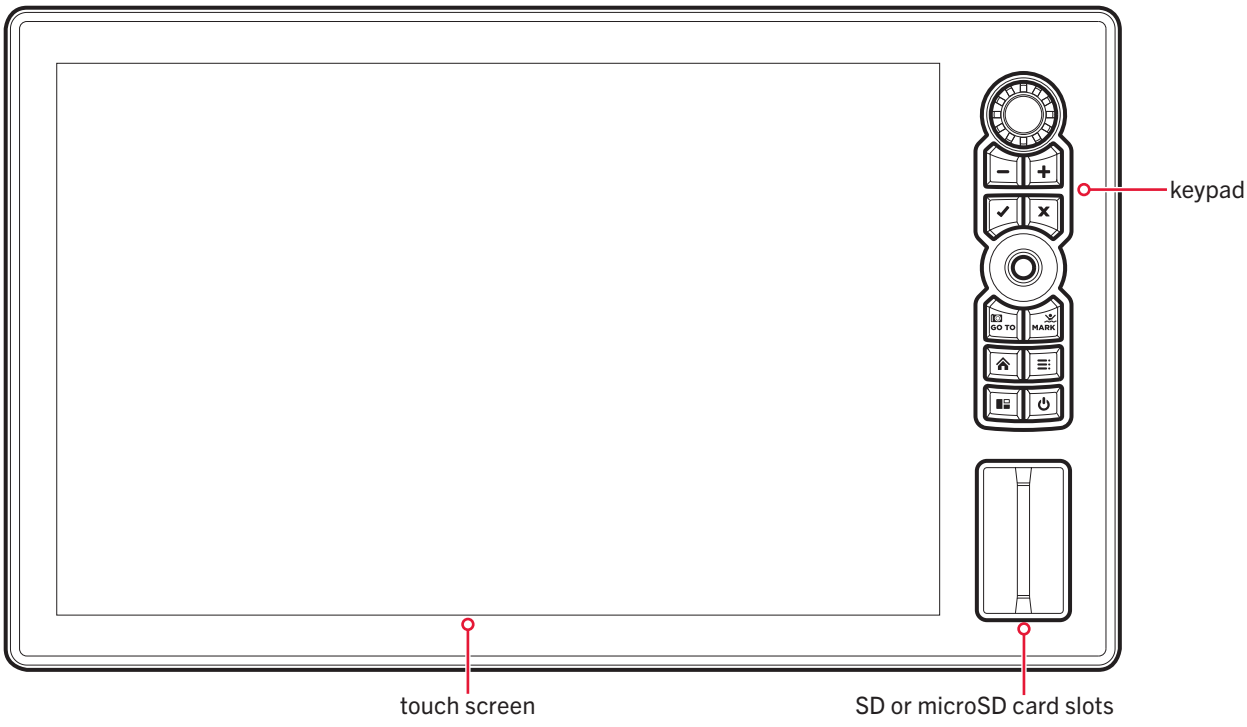


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**A Series and APEX**




**SOLIX**

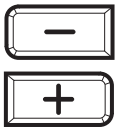



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# KEY FUNCTIONS

## KEYPAD FUNCTIONS FOR X SERIES/XPLORE ❯

The functions for each key are described here.

| Name | Key | Function |
|---|---|---|
| **Power Key** |  | Press to power on the fish finder. During operation, press the POWER key to open the Power X-Press Menu. Press and hold the POWER key to power off the fish finder. |
| **Enter Key** |  | Press to start a command or turn on a setting. The ENTER key also opens the Info menu and the Cursor menu. |
| **Exit Key** |  | Press once to close a menu, close a dialog box, turn off an alarm, or exit Cursor mode. Press and hold the EXIT key to close all menus at once. |
| **Cursor Pad** |  | Press to select a view, tool, or menu. The Arrow keys can also used to move the cursor across the view and pan 2D/3D map views. |
| **Navigation Key** |  | Press to open the Navigation menu for navigation functions. |
| **Snapshot Key** |  | Press to save the screen image. |
| **Mark Key** |  | Press to mark waypoints. If the cursor is not active, the waypoint will be marked at the boat position. If the cursor is active, the waypoint will be marked at the cursor position. |
| **Home Key** |  | Press to display the Home screen. The Home screen allows you to access settings, alarms, views, and tools for the fish finder. |
| **Zoom Key** |  | For a closer view, press the ZOOM IN (+) key. For a wider view, press the ZOOM OUT (–) key. Press and hold the ZOOM OUT (–) key to zoom out all the way.<br>Press to adjust menu settings. |
| **Menu Key** |  | Press once to open the X-Press Menu for the on-screen view and operation mode. To open the Settings tool, press and hold the MENU key. |
| **Programmable Keys** |  | Press to enable optional functions. These keys are programmable from the Network + Devices tool. |

**The X7 has a smaller keypad and only includes the POWER key, HOME key, ZOOM keys, and two programmable keys.*


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## KEYPAD FUNCTIONS FOR A SERIES/APEX/SOLIX ❯

The functions for each key are described here. To apply the key functions, see each section of this manual.

| Name | Key | Function |
|---|---|---|
| **Power Key** |  | Press to power on the fish finder. During operation, press the POWER key to open the Power X-Press Menu. Press and hold to power off the fish finder. |
| **Enter Key** |  | Press to start a command or turn on a setting. The ENTER key also opens the Info menu and the Cursor menu. |
| **Exit Key** |  | Press once to close a menu, close a dialog box, turn off an alarm, or exit Cursor mode. Press and hold the EXIT key to close all menus at once. |
| **Joystick** |  | Move to select a view, tool, or menu. Press the Joystick to open your selection. The Joystick is also used to move the cursor across the view and pan 2D/3D map views. |
| **Rotary Dial** |  | Turn to adjust menu settings or zoom in and out. |
| **Navigation/ Media Key** |  | Press to open the Navigation menu for navigation functions.<br>Press and hold to open the Media menu. |
| **Pane Key** |  | Press to select a pane in multi-pane view. |
| **Mark/Man Overboard Key** |  | Press to mark waypoints. If the cursor is not active, the waypoint will be marked at the boat position. If the cursor is active, the waypoint will be marked at the cursor position.<br>Press and hold to start Man Overboard Navigation. |
| **Home Key** |  | Press to display the Home screen. The Home screen allows you to access settings, alarms, views, and tools for the fish finder. |
| **Zoom Key** |  | For a closer view, press the ZOOM IN (+) key. For a wider view, press the ZOOM OUT (–) key. Press and hold the ZOOM OUT (–) key to zoom out all the way.<br>Press to adjust menu settings. |
| **Menu Key** |  | Press once to open the X-Press Menu for the on-screen view and operation mode. To open the Settings tool, press and hold the MENU key. |

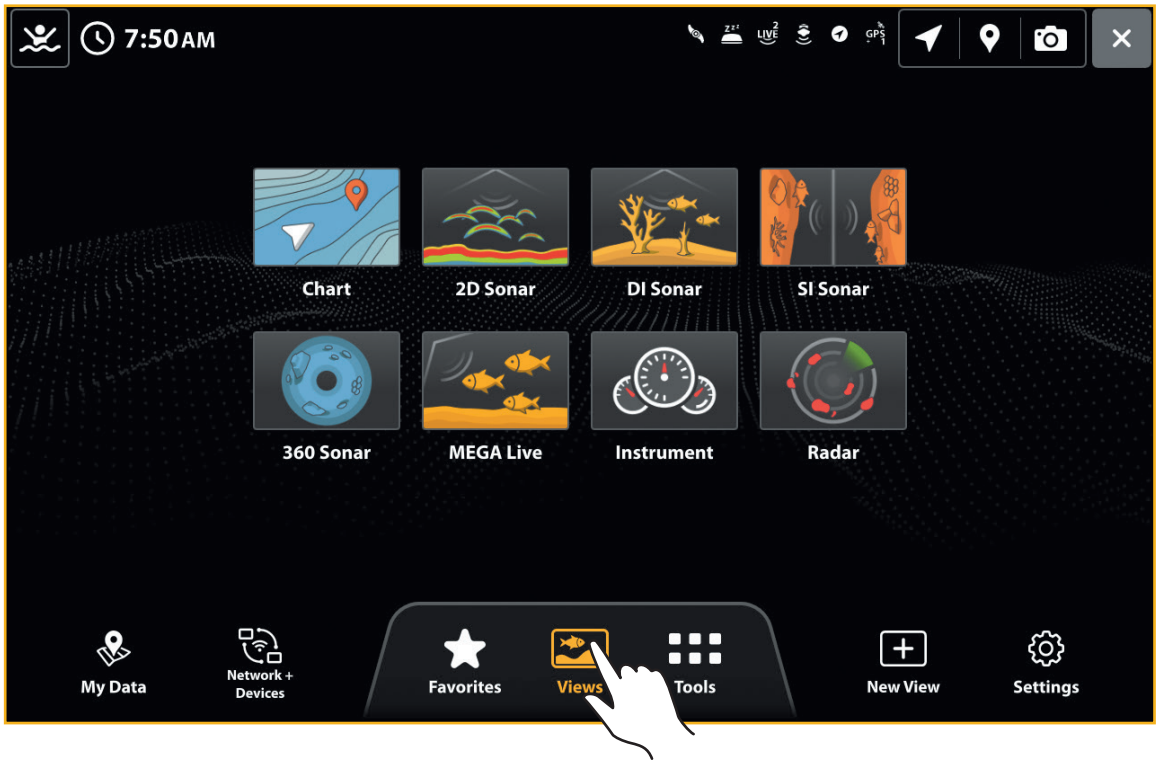
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# USING THE TOUCH SCREEN

## TOUCH SCREEN FUNCTIONS ›

The touch screen actions are also determined by the view displayed on the screen.

**Using the Touch Screen**




## › Swipe Functions



### ONE FINGER SWIPE (VERTICAL)

**Browse Menus:** Browse Menus: Scroll through a menu or list (up or down).



### ONE FINGER SWIPE (HORIZONTAL)

**Adjust Menu Slider:** Drag the slider to adjust the setting.

With a Map View displayed on-screen, drag one finger across the screen to see more of the map displayed off-screen.

With a 2D Sonar View displayed on the screen, drag one finger across the screen to see more of the sonar history.



### TWO FINGER SWIPE

With a view displayed on-screen, touch the screen with two fingers and swipe down to return to the Home screen.


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## Tap Functions



### ONE TAP

**Select (Open):** Tap to select (or open) a view, tool, widget, menu, or icon.

**Activate the Cursor:** Tap a position on the view once.



### TWO TAPS

Tap the screen twice to zoom in on the current display.

## Press and Hold Functions



### PINCH

**Zoom In:** Touch the screen with two fingers and move them apart to zoom in on the display.

**Zoom Out:** Touch the screen with two fingers and bring them closer together to zoom out.



### PRESS AND HOLD

Press and hold a position on the view with one finger to open the Cursor Menu.

**BASIC TOUCH SCREEN AND KEYPAD OPERATIONS**

## Select (Open) a Tool, Widget, or View

Use the touch screen, CURSOR pad, or the ENTER key to make selections.

**X Series/XPLORE**

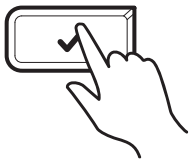


Tap to Select

OR



Select



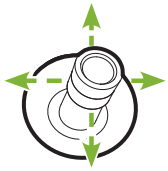
Open

**A Series/APEX/SOLIX**

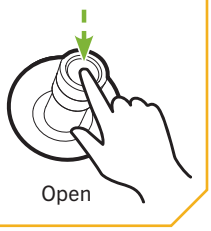


Tap to Select

OR



Select



Open

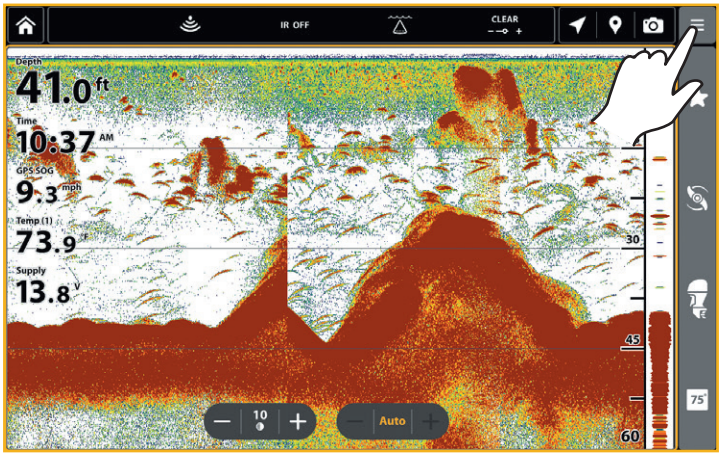
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# BASIC TOUCH SCREEN AND KEYPAD OPERATIONS

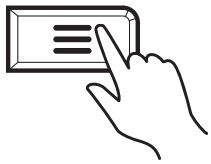
## TOUCH SCREEN

## KEYPAD

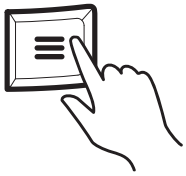
### Open a Menu




**X Series/XPLORE MENU Key**

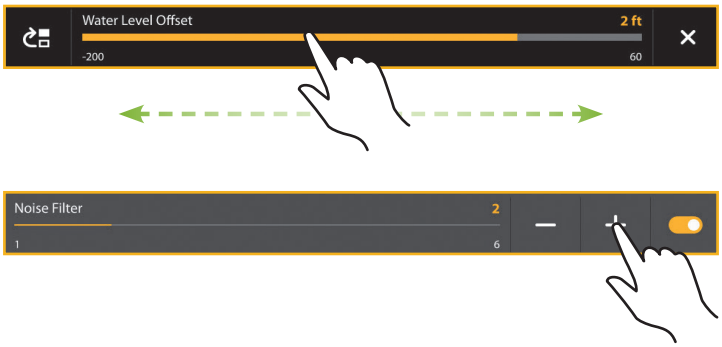


**A Series/APEX/SOLIX MENU Key**

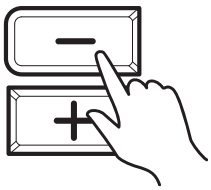


### Adjust a Menu Setting

Drag the slider or tap the +/– icons.

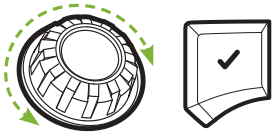



**X Series/XPLORE**



Press the +/– ZOOM keys.

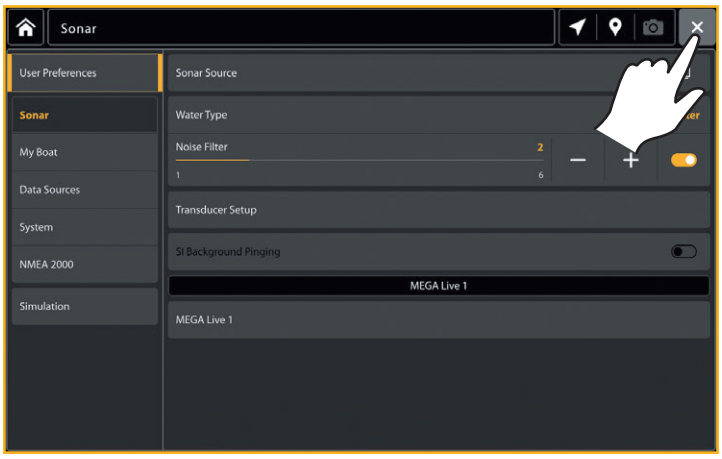
**A Series/APEX/SOLIX**



Turn the Rotary dial, or press and hold the ENTER key.

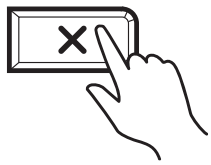
### Close a Menu

Tap the Back ⮌ icon to go back one level.
Tap the ✕ icon to close a menu.

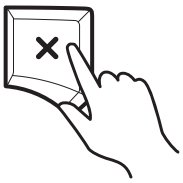



Press the EXIT key to close a menu or go back one level. Press and hold the EXIT key to close all menus and return to the last view.

**X Series/XPLORE EXIT Key**



**A Series/APEX/SOLIX EXIT Key**




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**SD CARD SLOTS ›**

Your fish finder may be compatible with an SD or microSD card (separate purchase may be required). Use it to view detailed maps on your fish finder, import/export navigation data, save sonar recordings and screen snapshots and update software. Use the instructions in this section to install the card.

**⚠ CAUTION**

Do not leave the card slot cover open. The slot cover should always be closed to prevent water damage to the unit.

**⚠ CAUTION**

Before the fish finder software is updated or restored to system defaults, export your navigation data (see ***Update Software***).

## › Insert an SD Card

The left slot is displayed as SD Card (1) in the menu system, and the right slot is displayed as SD Card (2).

1. Remove the SD card slot cover.
2. Position the SD card so that the label faces to the left.
3. Insert the card into the slot until it clicks into place.
4. Replace the slot cover so it is secure.
5. Remove: Press the card into the slot and then release it. The card will eject. Pull the card carefully from the slot.

## › Insert a microSD Card

The top slot is displayed as SD Card (1) in the menu system, and the bottom slot is displayed as SD Card (2).

1. Remove the microSD card slot cover.
2. Remove the microSD card from the microSD card adapter.
3. Position the microSD card so that the label faces the front of the fish finder and the card notches face down.
4. Insert the card into the slot until it clicks into place.
5. Replace the slot cokver so it is secure.
6. Remove: Press the card into the slot and then release it. The card will eject. Pull the card carefully from the slot.

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# GETTING STARTED

The procedures in this section describe how to get started with your fish finder:

- power on/off
- review GPS reception
- check connected accessories and sensors
- pair the fish finder to the Minn Kota integrated system
- set alarms

See your fish finder installation guide and the quick start guide included with your fish finder to configure the unit for first time setup. Also, see ***Installation Information*** in this manual for system configuration details.

**NOTICE:** When the fish finder equipment and accessories are first installed, the Setup Guide provides the prompts to guide you through configuring the unit. The Setup Guide includes important steps to configure the fish finder with the equipment, including language, vessel dimensions, map source selection, and offset menus. See your fish finder installation guide to configure the unit for the first time.

## POWER ON/OFF

### Power On

1. Press the POWER key.
2. When the first view is displayed on the screen, the fish finder is ready for operation.

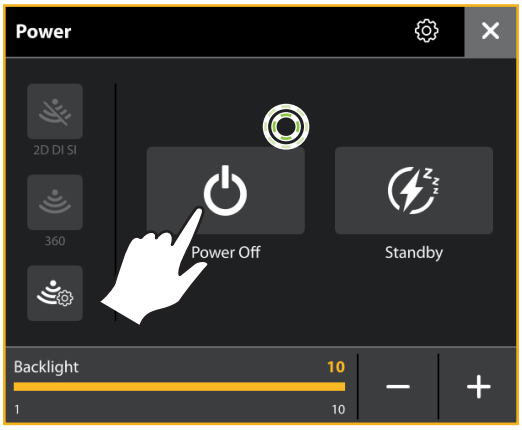
**NOTICE:** The first time the fish finder is powered on, and after each software update, a Welcome dialog box is shown. Select Start Normal Mode to continue to the Setup Screen.

### Use Standby Mode to Conserve Power

To conserve power while the fish finder is not in-use, start Standby mode from the Power X-Press Menu.

1. **Open the Power X-Press Menu:** Press the POWER key.
2. Select Standby.
3. **Turn off Standby Mode:** Press the POWER key.

**Power X-Press Menu**




### Power Off

1. Press the POWER key.
2. Use your finger to slide across the Power Off button.

**Additional Keypad Option:** Press and hold the POWER key.


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**REVIEW GPS RECEPTION ❯**

Use the GPS tool to check the GPS reception. The GPS tool provides two ways to view the satellites communicating with the GPS Receiver. Yellow indicates that the satellite is being used to determine your current position. Teal indicates that the satellite is being monitored but not used. The following data is also displayed:

- Position (latitude and longitude)
- GPS Fix Type: reported as No Fix, 2D Fix, 3D Fix, or Enhanced. An Enhanced fix has been augmented using information from WAAS, EGNOS, or MSAS. A 3D or Enhanced Fix is required for navigation.
- HDOP (the Horizontal Dilution of Precision): a GPS system parameter which depends on the current satellite configuration. HDOP is used to calculate the Estimated Position Error.

## ❯ Open the GPS Tool

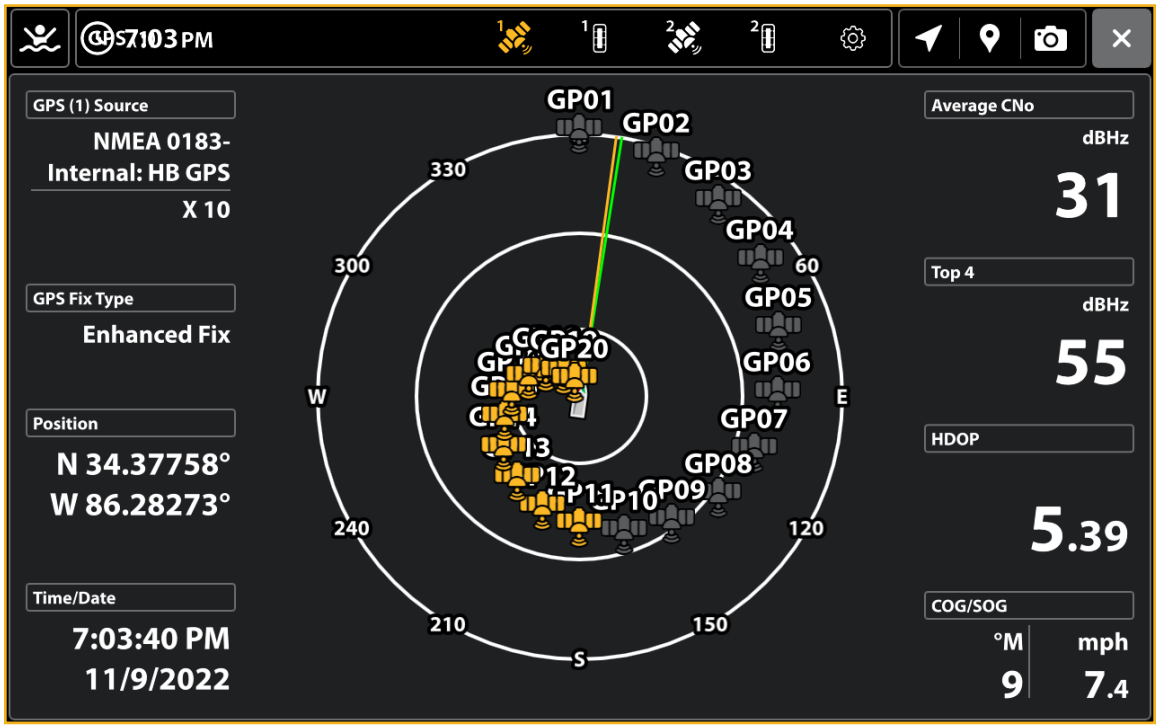
If there is more than one fish finder installed on the network, select the fish finder that is connected directly to the GPS receiver.

1. Press the HOME key.
2. Select the Tools tab.
3. Select the GPS tool.

## ❯ Review Satellites and Signal Strength

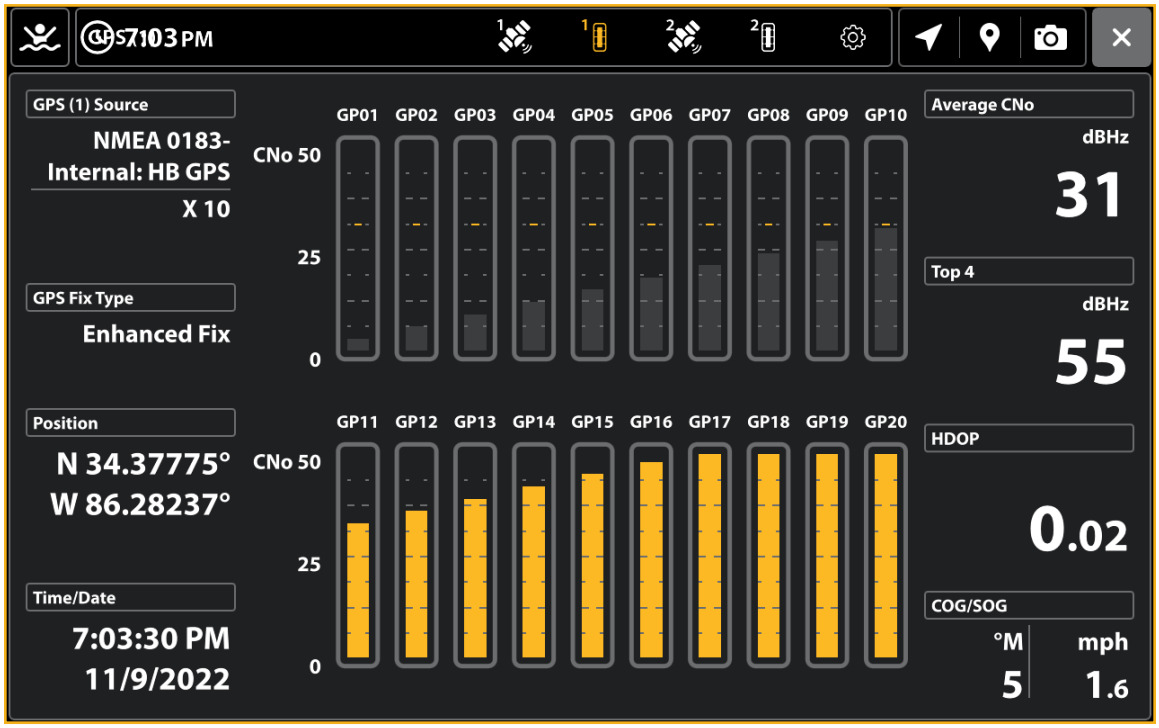
1. In the Top Bar, select GPS 1 Satellites or GPS 1 Signal Strength.

**GPS 1 Satellite Sky Chart**



# REVIEW GPS RECEPTION

**GPS 1 Signal Strength**




## GPS (1) and GPS (2) Sources

You can also manually change which GPS receiver is the selected source for GPS (1) or GPS (2). To change the GPS sources, see ***Set up your Fish Finder Network***.

- GPS (1) provides position data, Speed over Ground (SOG), Course over Ground (COG), waypoints, routes, tracks, and navigation calculations to the fish finder.
- GPS (2) provides position data that is displayed in the GPS (2) data box.

### CHECK SENSOR RECEPTION AND CONNECTIONS

If you've connected other separate-purchase equipment to the network, such as AIS, Compass/Heading Sensor, Radar, Advanced GPS Wireless Remote, Minn Kota Live, 360 Imaging, and more, use these instructions to confirm the equipment is detected and communicating with the fish finder.

1. Press the HOME key.
2. Review the top, right corner of the status bar.

**Detected and Active:** If a sensor is active and transmitting/receiving, it will be white. See the table below.

**Connected but not Detected or Active:** If a sensor is not detected on the network, or not transmitting/receiving, it will be completely gray.

**Connected but not Transmitting/Receiving:** If a sensor is detected, but is not transmitting/receiving, the icon will be partially gray. In this illustration, the GPS receiver is detected, but it doesn't have a GPS fix. This feature will vary with the type of icon represented.


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| Active Status Icon | Sensor | Description |
|---|---|---|
|  | **AIS** | AIS is on and receiving targets. |
|  | **Compass** | The selected compass/heading sensor is on and heading data is being received. |
|  | **GPS** | The GPS receiver is detected and a GPS fix has been obtained. |
|  | **Trolling Motor** | Trolling motor is connected, enabled, and actively navigating. |
|  | **Talon or Raptor** | The Talon or Raptor shallow water anchor is connected and stowed. |
|  | **Radar** | The selected radar source is detected and transmitting. |
|  | **2D Sonar** | The selected 2D sonar source is detected and pinging. |
|  | **Minn Kota Live Sonar** | The Minn Kota Live Imaging transducer is pinging data. |
|  | **MEGA 360 Imaging Sonar** | The MEGA 360 Imaging transducer is pinging data. |

3. If the sensors are active, your system is ready for use on the water.

   For additional system status, select Network + Updates.

   If you have connected an accessory to the fish finder, and the icon is not displaying in the system status bar, check the installation of the accessory and the cable connection to the fish finder.

   To change the NMEA 2000 network or multi-fish finder network sources, see ***Set up a NMEA 2000 Network*** and ***Set up your Fish Finder Network***.

**CONNECT TO Wi-Fi ❯**

1. Press the HOME key.
2. Select Network + Devices.
3. Select Wi-Fi Updates.
4. Toggle on Wi-Fi.
5. Select a network from the Available Networks list and enter the password.

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# PAIR THE FISH FINDER

## PAIR THE FISH FINDER TO THE MINN KOTA FISHING APP

Use the following instructions to pair the fish finder to the Minn Kota Fishing App on your phone using Bluetooth wireless technology. (Available with Bluetooth supported Minn Kota products and mobile devices only. Wifi or data connection required.)

**NOTICE:** If you have a Bluetooth compatible trolling motor or shallow water anchor (separate purchases required), see the accessory operations manual for each product for pairing instructions. Operations manuals can be downloaded from our Web site at minnkota.johnsonoutdoors.com.

**NOTICE:** WiFi or cellular data must be enabled on your mobile device.

## Enable Bluetooth on the Phone

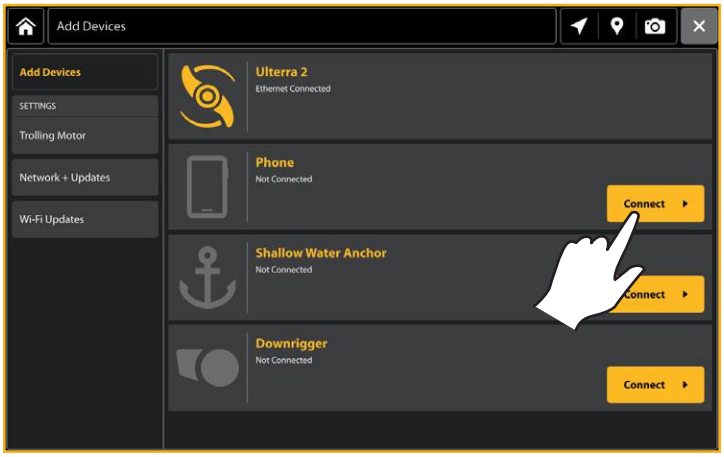
1. Open the Settings menu on your phone.
2. Select Bluetooth.
3. Select On.

## Pair the Fish Finder

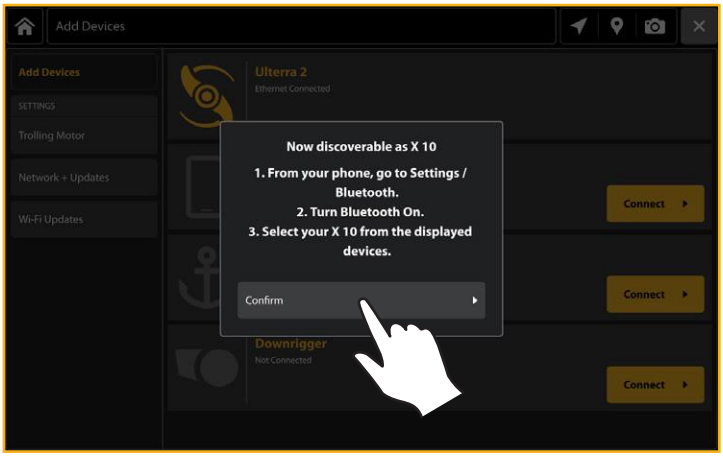
1. Press the HOME key.
2. Select Network + Devices.
3. Under Add Devices tab, find the Phone icon and select Connect.
4. Follow the on-screen prompts to complete the pairing process.
5. Check the Bluetooth menu on your phone. Tap the name of the fish finder on your phone.
6. Confirm the six digit confirmation code and tap Pair on your phone.

   Upon successful pairing, the fish finder will be listed as connected under the phone's Bluetooth menu.

**Pairing a Phone**




**Starting the Pairing Process**





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## Forget Device

If you are having any issues with your connection, forget the device on both the phone and the fish finder and start the pair process over.

**Forget Device on the Phone**

1. **Apple iOS:** Open the phone's Bluetooth menu, and next to the fish finder's name under My Devices, tap the information icon.
   **Google Android:** Open the phone's Bluetooth menu, and next to the control head's name under Available Media Devices, tap Settings.
2. **Apple iOS:** Tap Forget This Device.
   **Google Android:** Tap Forget.

**Forget Device on the Fish Finder**

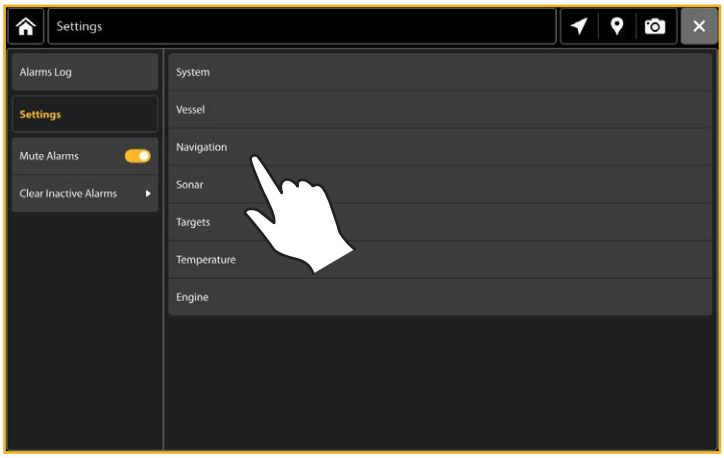
1. Press the HOME key.
2. Select Network + Devices.
3. Under Add Devices, find the connected phone and select Forget.

## SET ALARMS

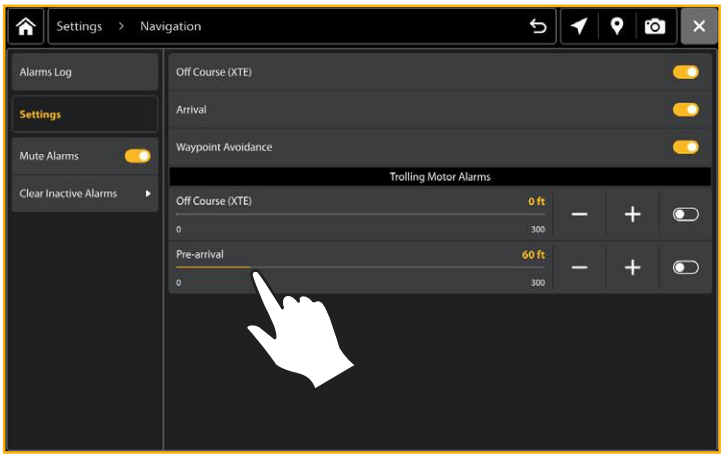
When an alarm is turned on, an alert will sound or display on the fish finder to indicate the threshold has been exceeded.

1. Press the HOME key.
2. Select Tools.
3. Select Alarms.
4. Select Settings and then select an alarm category.
5. Select an alarm name.
6. **On/Off:** Tap the on/off button to turn on/off the alarm.
7. **Adjust the alarm threshold:** Drag the slider or tap the + and - buttons.
8. Repeat steps 4 through 7 for each alarm you want to set.

**Selecting an Alarm**




**Setting Alarm Thresholds**




The available alarms are determined by the connected equipment, so your fish finder may provide more or less options than the information shown here.

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# SET ALARMS

| Alarm | Description |
|---|---|
| **Systems** | Voltage, Lost Heading (compass/heading sensor required), etc. |
| **Vessel** | Drift Limit, SOG (Speed over Ground), STW (Speed through Water), etc. Also, see Views: ***Understand the Data Box Digital Readouts*** for more information. |
| **Navigation** | See ***Map Overview: Navigation Alarms Overview*** for details. |
| **Sonar** | See ***Sonar Overview: Sonar Alarms*** for details. |
| **Temperature** | Temp (High) or Temp (Low). To change the Temperature sources, see ***Installation Information: Set up your Fish Finder Network***. |
| **Engine** | Low Fuel, Engine Temp, Oil Level, Coolant Level, Check Engine, etc. To change Engine and Fuel sources, see ***Installation Information: Set up a NMEA 2000 Network***. |

Use the Alarms Log menu to view any alarms that have been triggered.

## CHANGE SYSTEM SETTINGS ❯

Your fish finder was configured during the installation setup. To change the system settings such as the key sounds, units of measurement, and the time and date format (including Daylight Saving Time), select Settings from the Home screen. See ***Manage your Fish Finder*** for more information.

1. Press the HOME key.
2. Select Settings.
3. Select User Preferences.

## SET UP SONAR ❯

Proceed to the ***Sonar Overview*** section.

## SELECT THE MAP SOURCE ❯

Proceed to the ***Map Overview*** section.


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# UPDATE SOFTWARE

As you build your Minn Kota integrated system, it is important to keep your fish finder and accessory software up to date. Accessories such as the NMEA 2000 GPS Heading Sensor, Advanced GPS Wireless Remote, MEGA 360 Imaging, Minn Kota Live Imaging, and Ethernet Switches are updated through the fish finder.

You can update software using wi-fi, an SD or microSD card (depending on your fish finder model) or using the built-in Bluetooth and the Minn Kota Fishing App.

**Preparation:** We recommend that you read this section completely before starting any software updates. Fish finders take approximately 10 minutes to update, and each fish finder on the network must be updated individually. Accessories take approximately 3 minutes to update.

**NOTICE:** Minn Kota is not responsible for the loss of data files (waypoints, routes, tracks, groups, snapshots, recordings, etc.) that may occur due to direct or indirect damage to the unit's hardware or software. It is important to back up your fish finder's data files periodically. Data files should also be saved to your computer before restoring the unit's defaults or updating the software.

## REGISTER PRODUCTS ❯

Register your Minn Kota equipment so that you will receive the latest Minn Kota Systems news, including accessory compatibility and software update information.

1. Go to our Web site at minnkota.johnsonoutdoors.com. Select Support > Register your Product.
2. Follow the on-screen prompts to register your products.

## CHECK THE CURRENT SOFTWARE VERSION ❯

It is helpful to review the software version number that is currently installed on the fish finder and each accessory.

1. Press the HOME key.
2. Select Network + Devices.
3. Select the Network + Devices tab.
4. Review the software version number listed under each connected device.

## UPDATE FISH FINDER SOFTWARE USING Wi-Fi ❯

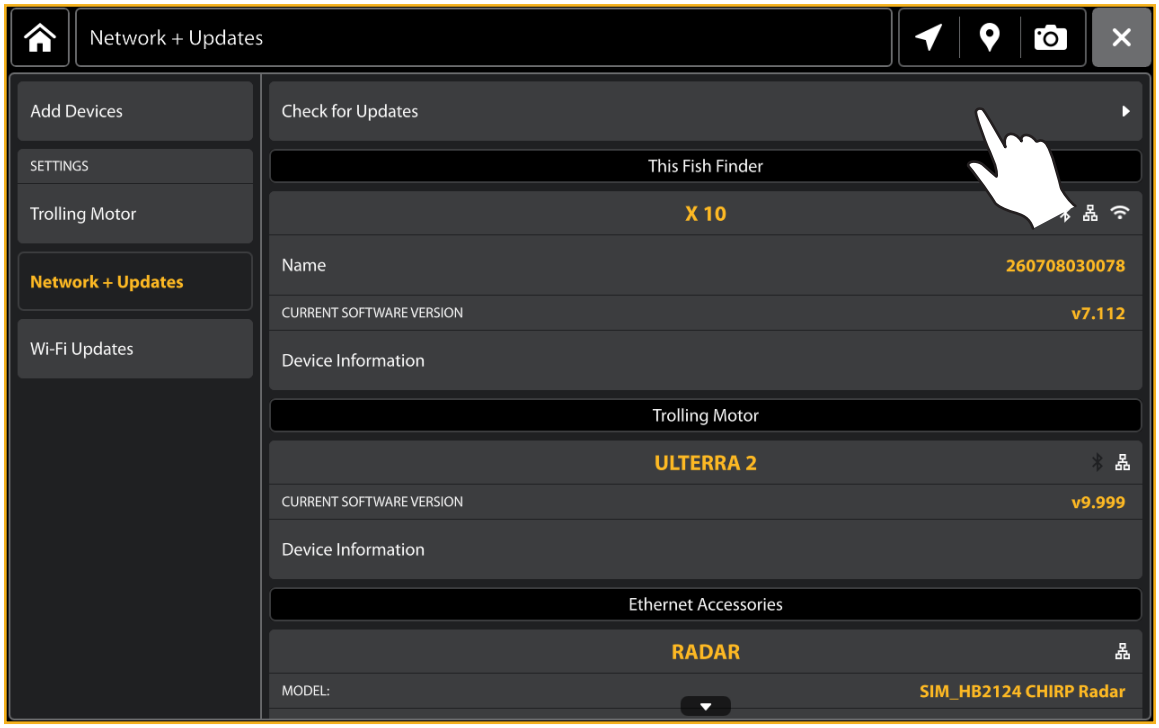
To update software over Wi-Fi (recommended), ensure your unit is connected to Wi-Fi. Once connected to Wi-Fi, the unit will notify you whenever an update is available. Updates can then be installed to all networked devices. See ***Getting Started: Connect to Wi-Fi*** for more information about connecting to Wi-Fi.

1. Press the HOME key.
2. Select Network + Devices.
3. Select the Network + Devices tab.
4. Select Check for Updates.
5. If an update is available, follow the on-screen prompts to complete the software update.

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# UPDATE SOFTWARE

**Checking for Software Updates**





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## UPDATE SOFTWARE USING THE MINN KOTA FISHING APP ❯

If Wi-Fi is unavailable, you can update software using the Minn Kota Fishing App.

1. Open the Minn Kota Fishing App on your mobile device.
2. Tap Network + Updates.
3. Tap Download Update next to the device you want to update. The download progress is displayed on the screen.

   You can also tap More Options icon (...) next to the device you want to update, and then tap Download Update. Use this menu to cancel the download (Apple iOS only).

**NOTICE:** The update may take several minutes to download. You may close the app while you wait for the download to complete.

4. Tap Transfer Software next to the selected device once the download is complete.

   You can also tap the More Options icon (...) again, and then tap Transfer Software or Delete Software.
5. Confirm the estimated transfer time.
6. Tap the radio button to select the transfer location (internal storage, SD card 1, or SD slot 2).

**NOTICE:** You cannot download software updates to an SD or microSD card with Minn Kota Maps card saved to it.

7. Tap Start Transfer (Apple iOS) or Transfer (Google Android).

   The upload progress is displayed under the selected unit in the Minn Kota Fishing App and in the Network + Updates view on the fish finder.
8. Follow the on-screen prompts on the fish finder to complete the software installation.

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# UPDATE SOFTWARE USING AN SD CARD

**UPDATE SOFTWARE USING AN SD CARD**

**Supplies:** In addition to your fish finder, you will need a PC with Internet access and a blank 32 GB SD or microSD card (depending on your fish finder model).

When you install the SD card with the software file, the fish finder will detect the update and provide an automatic prompt to install the software. You can follow the prompts or choose to install the software at a later time through the Network + Devices tool. It is important to review the following tips:

- **Automatic Restart:** The fish finder will restart during the software update process.
- **Multiple Fish Finders:** If you have more than one fish finder on the network, go to each fish finder to install the latest software update. Fish finder software updates cannot be updated through another networked unit.

## Download Software Updates

1. Install the SD card into the PC card slot.
2. Go to minnkota.johnsonoutdoors.com, and click Support > Software Updates.
3. The available software updates are listed as Downloads under each product.
   - Under Downloads, click the file name. Confirm the file name is for your fish finder model.
   - Read the instructions in the dialog box and select Download.
   - Follow the on-screen prompts to save the software file to the SD card.
4. Repeat step 3 to download the software updates posted to each product.

## Update Software Automatically

1. Press the POWER key.
2. Install the SD card with the software file(s) into the fish finder card slot.
3. A dialog box will display to start the software update.

   To start the fish finder software update, select Install. Once the software update is installed, the unit will power down and automatically restart.

   OR

   To update the software at a later time, select Cancel. If you select Cancel, go to Network + Devices to download the software at a later time.
4. Select Start Normal Mode from the Welcome Screen.
5. Use the touchscreen to complete the Setup and tap Continue.


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# THE HOME SCREEN

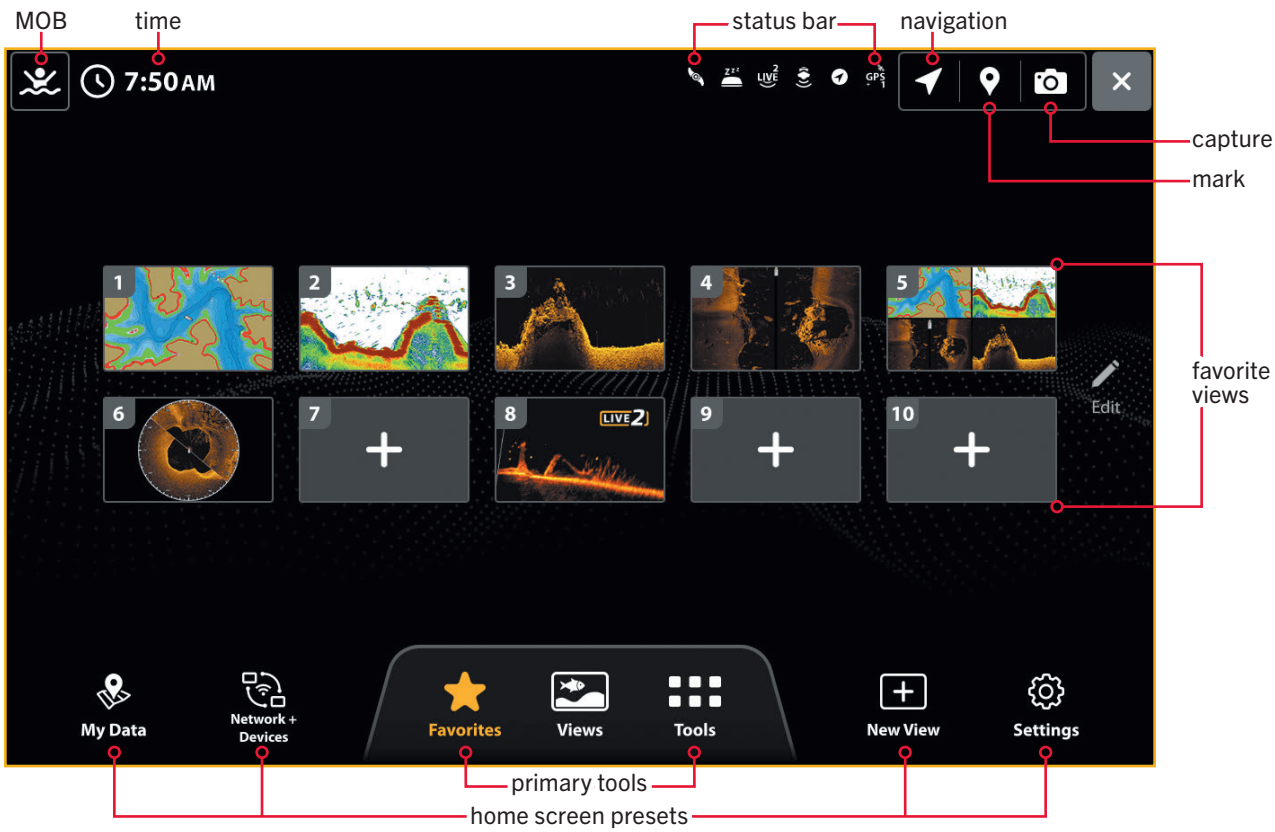
The Home screen is the main control center for your fish finder. Use the Home screen to access the settings, navigation data, views, favorites, and other tools.

- Tools and views available on the Home screen are determined by the equipment attached to the fish finder network.
- Favorite views can be saved for quick access and customized views can be created.
- Pair your fish finder to other Minn Kota System devices, like a trolling motor or the Minn Kota Fishing App.

## Open the Home Screen

1. Tap the Home icon in the top left corner of the screen or press the HOME key.

**Home Screen**



## Navigate the Home Screen

Use the touchscreen to select an option from the Home screen.

| Icon | Sensor | Description |
|---|---|---|
|  | **Favorites** | Select to quickly access your favorite saved views. |
|  | **Views** | Select to access the complete set of views available on your fish finder. You can edit views, create your own views, and save your favorite views. |
|  | **Tools** | Allows you to manage the fish finder network operations and saved data. When you connect an accessory to the fish finder, a related tool may also be displayed. |
|  | **My Data** | Select to manage your saved waypoints, spot-locks, routes, tracks, and itracks. You can create new navigation data from this screen or edit your saved navigation data. |
|  | **Network + Devices** | Select to view all devices on the network, install software updates and pair your fish finder to the Minn Kota Fishing App on your phone. You can also pair your wireless remote, trolling motor, shallow water anchor and downrigger (separate purchase required) to the fish finder. See your installation guide for details.<br>*Required Equipment: mobile phone (with Bluetooth)* |
|  | **New View** | Select to create a new view from a blank template. You can change the type of data displayed in a view and how many panes are displayed. |
|  | **Settings** | Select to change general system settings such as the units of measurement and the time and date format. You can also use this menu to view system, network, and NMEA 2000 information. |
|  | **Mark** | Select to add a waypoint. |
|  | **MOB** | Select to start Man Overboard functions. |
|  | **Capture** | Select to open the Media tool. You can use this tool to screen capture or screen record. |


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## Tools

Tools allow you to manage the network operations and saved data. When you connect an accessory to the fish finder, a related tool may also be displayed.

| Icon | Sensor | Description |
|---|---|---|
|  | **Alarms** | Select Alarms to view the alarm log, mute alarm sounds, and set the alarms for the individual applications. To set up individual alarms for navigation, sonar, radar, AIS, etc., see each related section of this manual for details. |
|  | **Navionics** | Select Navionics to access advanced mapping features.<br>*Required Map Source: Navionics* |
|  | **Sun + Moon** | Select Sun + Moon to review the sunrise and sunset for today or the date you select. The Moon data provides the rise and set of the moon and moon phases.<br>*Required Map Source: Navionics or coastal Minn Kota Maps card.* |
|  | **Media** | Select Media to manage your screen snapshots. When a screen snapshot is taken, a waypoint can also be saved at the current position. You can also choose to save the image on the fish finder or to an SD or microSD card. See ***Media Tool*** for more information. |
|  | **Fuel** | Select Fuel to review the fuel log for NMEA 2000 fuel sensors connected to the network. This tool provides refuel alerts and displays the fuel level in graphical form. See Set up a NMEA 2000 Network for details.<br>*Required Equipment: NMEA 2000 tank sensor and/or fuel flow rate sensor* |
|  | **Trip + Timer** | Select Trip + Timer to display Speed over Ground (SOG), timer for elapsed time, distance traveled since last reset, average speed, and trip fuel. You can also reset the trip log to zero, set an alarm clock for a selected time of day, use the countdown timer, or use the stopwatch from this tool.<br>*Required Equipment: GPS receiver (internal or external)* |
|  | **GPS** | Select GPS to review the signal strength of the GPS receivers (“sensors”) connected to the system. The tool shows the satellites in the area, the positions, and the signal strength for each one. You can also designate a primary and secondary GPS source from this tool. See ***Getting Started***, ***Installation Information***, and ***Set up your Fish Finder Network***.<br>*Required Equipment: GPS receiver (internal or external)* |
|  | **Record** | Select Record to start a sonar recording or select a save location. You can also watch a sonar recording from the perspective of a 2D, SI, or DI View, depending on the capabilities of your model. See ***Sonar Recording*** for more information.<br>*Required Equipment: transducer* |
|  | **Targets** | Select Targets to manage AIS and MARPA targets.<br>*Required Equipment: AIS or Radar, GPS receiver (internal or external), and compass/heading sensor* |

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## THE HOME SCREEN

| Icon | Sensor | Description |
|---|---|---|
|  | **Tides** | Select Tides to review information for the nearest tide station to your present position. The tool includes the position of the station and the times of the high and low tides for today's date. A tide graph is also displayed showing the rise and fall of the tides for the 24 hour time period encompassing the date. You can also search data for a selected date.<br>*Required Map Source: Navionics or CoastMaster VX.* |
|  | **Currents** | Select Currents to review information for the nearest current station to your present position. Two graphs are also presented that show the time, direction, and flow speed of the current changes for the 24 hour time period of today's date. You can also search data for a selected date.<br>*Required Map Source: Navionics or CoastMaster VX.* |
|  | **Battery Monitoring** | Select Battery Monitoring to see real-time readings of battery power, remaining runtime and low-battery alerts.<br>*Required Equipment: Minn Kota QUEST Series trolling motor.* |
|  | **Audio** | Select Audio to control audio from the fish finder. |


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# VIEWS AND THE MENU SYSTEM

There are many options to display data on-screen, and the data can be displayed in a variety of ways. You can open a view from the Views tool or from the Favorites tool. You can also create a new view, edit views, and customize your favorite views list.

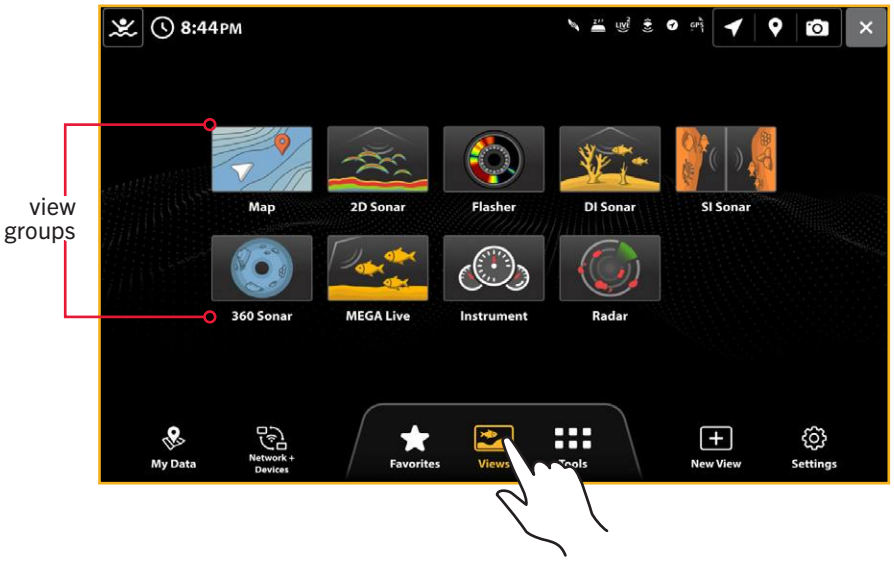
Once you have opened a view, you can access a view-specific menu to initiate actions or change the view settings.

## DISPLAY A VIEW FROM THE VIEWS TOOL ❯

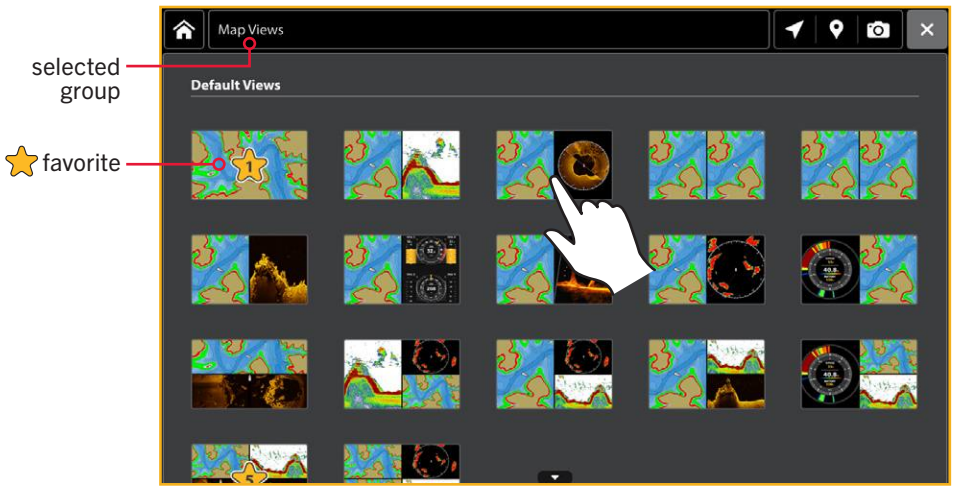
The Views tool includes the complete database of available views for your fish finder.

1. From the Home screen, tap the Views tool.
2. Tap a View group.
3. Tap a View to display.

**Opening a View from the Views Tool**




**Selecting a View**




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## DISPLAY A VIEW FROM THE FAVORITES TOOL ❯

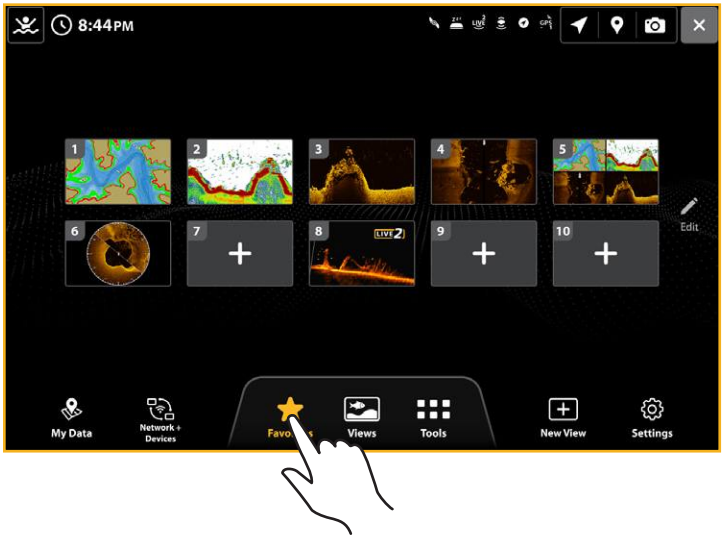
The Favorites tool displays all of your saved favorite views for your fish finder. Use the Favorites tool to edit your favorite views at any time.

1. From the Home screen, tap the Favorites tool.
2. Tap a Favorite View to display

   OR

   Tap an open box to select a new favorite from the groups of views or create a new view. See ***Save a View to the Favorites Tool*** for more information.

**Opening a View from the Favorites Tool**

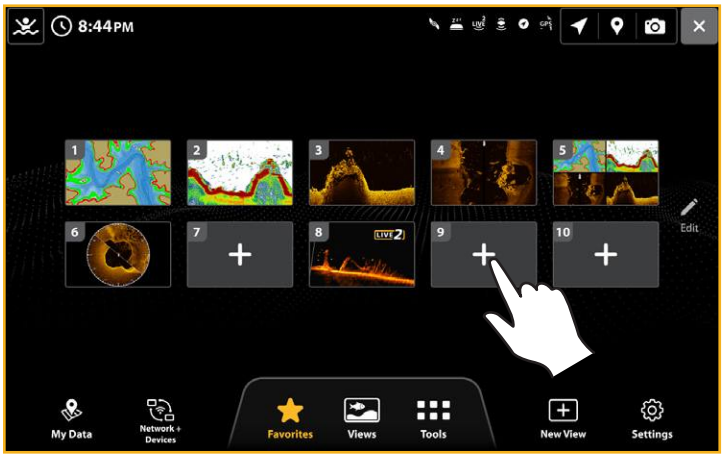



## SAVE A VIEW TO THE FAVORITES TOOL ❯

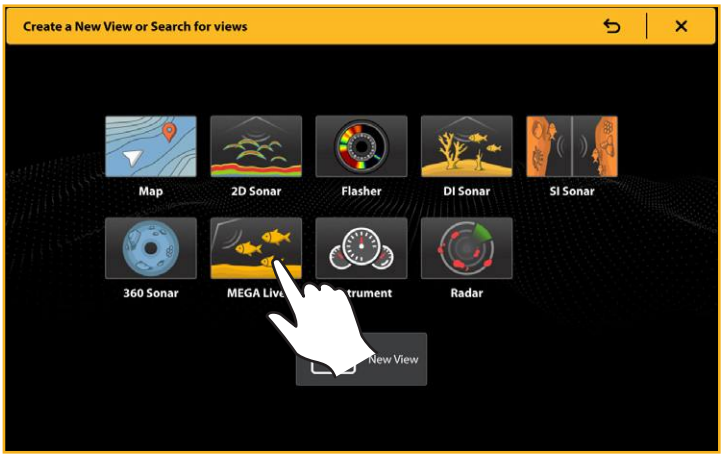
1. Open the Favorites tool.
2. Tap an open box or select Edit.
3. Tap a View Group.
4. Tap a View to display.

Favorites seen on the Home Screen and within the Side Bar are the same.

**Saving a New Favorite View**




**Selecting a New Favorite View**





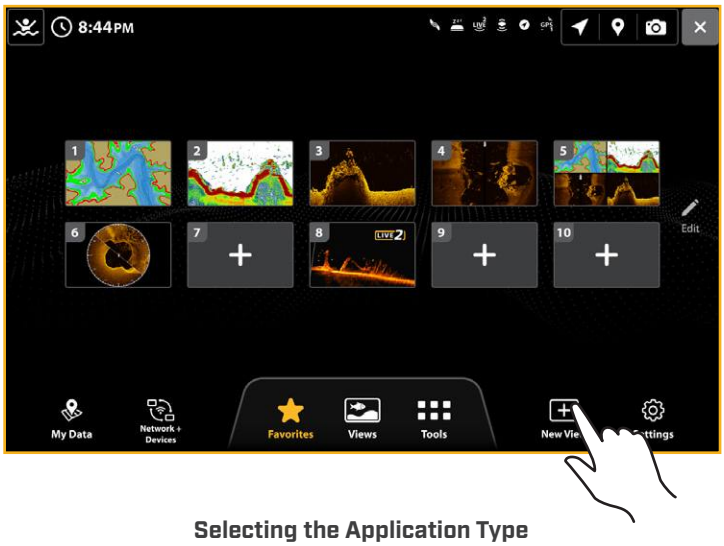
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## CREATE A NEW VIEW ❯

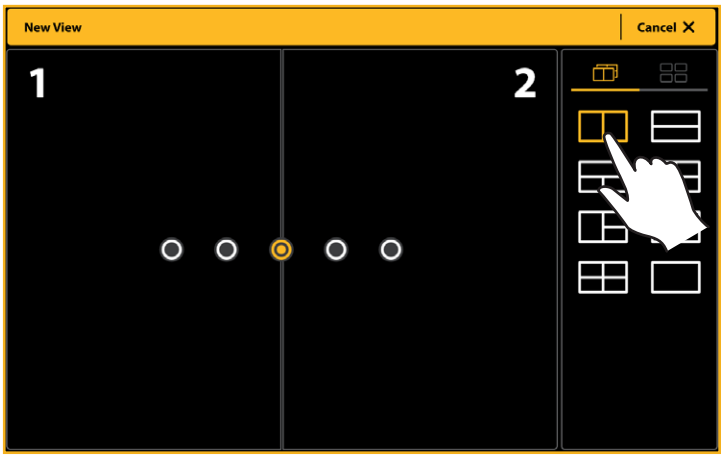
Customize your own view using the New View tool. Use the New View tool to change the type of data that is displayed in the view and how many panes are displayed.

1. From the HOME screen, select New View.
2. Select a Pane Layout from the Layout tab.
3. Tap a circle to adjust the pane size.
4. Tap a pane to highlight it, and select an application from the Application tab.
5. Repeat Step 4 for each pane.
6. Tap Save.

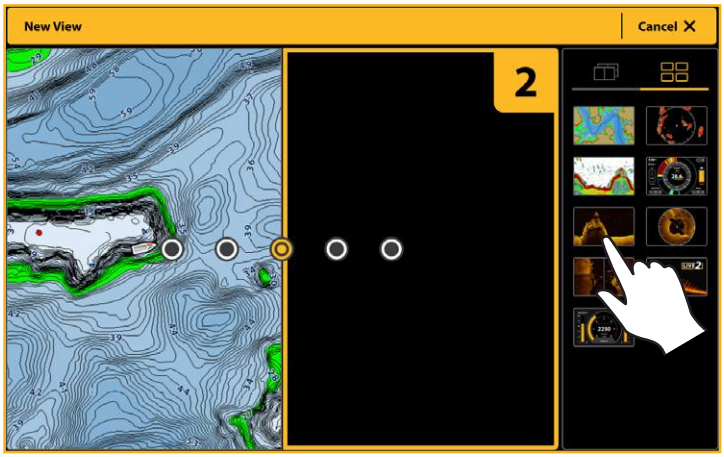
**Selecting a New View**



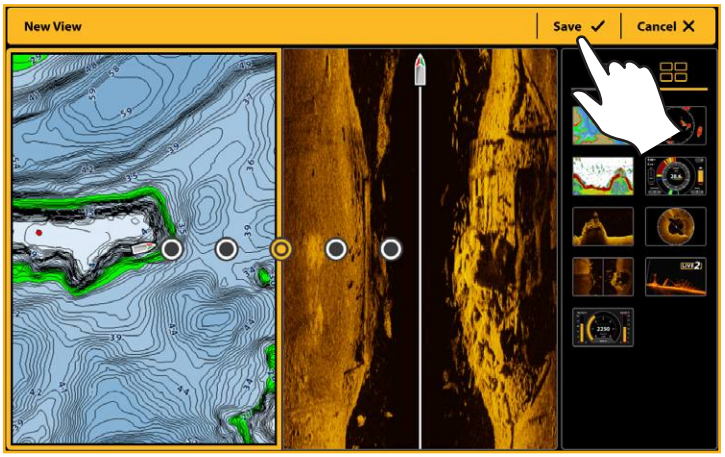

**Selecting a Pane Layout**




**Selecting the Application Type**




**Saving a New View**

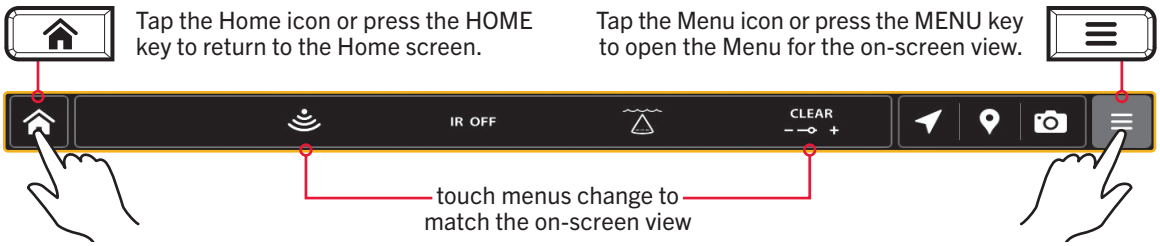



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## TOP BAR

The Top Bar is located at the top of each View screen. It changes to match the on-screen view and operation mode.

In the following illustration, the information in the Top Bar corresponds with the Sonar View displayed on-screen. You can tap an icon in the Top Bar to open a menu, return to the Home screen, close a menu, or make a selection. You can also use the corresponding keys.




## MENU SYSTEM

The X-Press Menu displays menu options for the on-screen view and operation mode (such as navigation). In a multi-pane view, the X-Press Menu options are determined by which pane is selected.

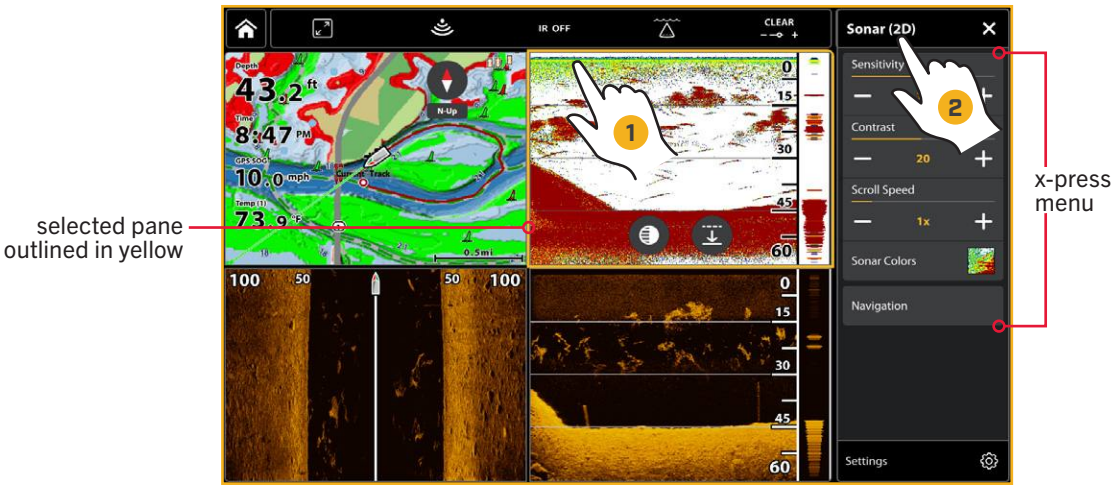
### Open an X-Press Menu

1. With a view displayed on-screen, tap the Menu icon in the Top Bar, or press the MENU key.

### Open an X-Press Menu in a Multi-Pane View

1. With a Multi-Pane View displayed on-screen, tap a pane. The selected pane is outlined with a yellow box.
2. Tap the Menu icon in the Top Bar, or press the MENU key.

**Opening an X-Press Menu for a Selected Pane**





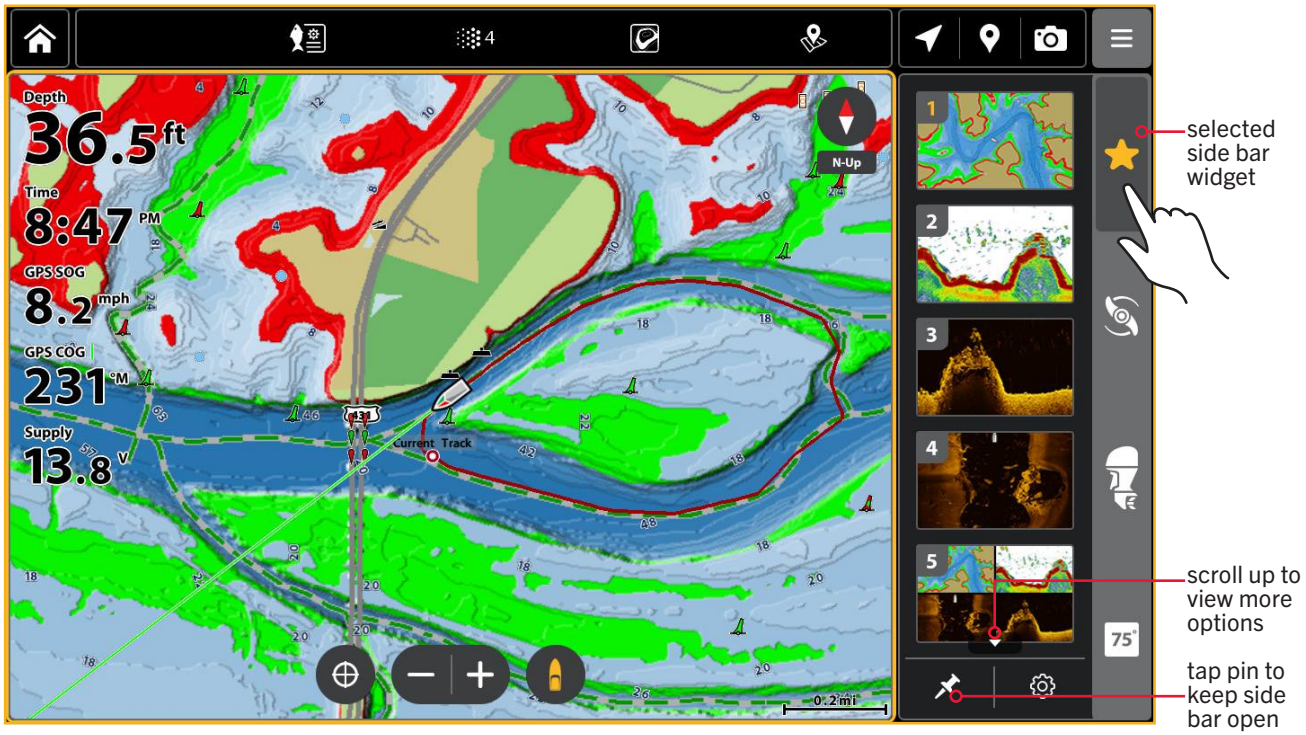
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## SIDE BAR WIDGETS ❯

The Side Bar includes widgets that allow you to quickly access your favorite views, data bars, and digital remotes for networked accessories, like the Advanced GPS Wireless Remote.

The Side Bar is set to be minimized. Tap the Side Bar to view the widgets and tap the Pin icon to keep the Side Bar open. See V***iew Settings Menu: Turn the Side Bar On/Off***.

**Opening a Side Bar Widget**



## Available Side Bar Widgets

When you connect an accessory to the fish finder, a related widget may also be displayed in the Side Bar.

| Icon | Name | Function |
|---|---|---|
|  | **Favorite Views** | Allows you to create a list of your favorite views. There are two tabs of favorite views. Use the widget to quickly display your favorite views (see Views). These favorites are linked to the favorites selected from the Home screen. |
|  | **Data Bar** | Displays the standard Data Bar with data box readouts. There are two tabs and each data box can be customized (see Views: Understand the Data Box Digital Readouts). |
|  | **Trolling Motor*** | Displays the trolling motor digital remote. |
|  | **Talon*** | Displays the Talon digital remote, which includes quick access menus to deploy and retract the Talon, change the anchor mode, turn the work light on/off, etc. |
|  | **Raptor*** | Displays the Raptor digital remote, which includes quick access menus to deploy and retract the Raptor, change the anchor mode, and adjust deployment speed. |
|  | **Engine** | Displays engine data via a NMEA 2000 connection. |
|  | **Audio*** | Displays the audio settings for a connected audio accessory. |
|  | **Audio Fusion*** | Displays the audio settings for a connected Fusion radio accessory. |

**separate purchase accessory*

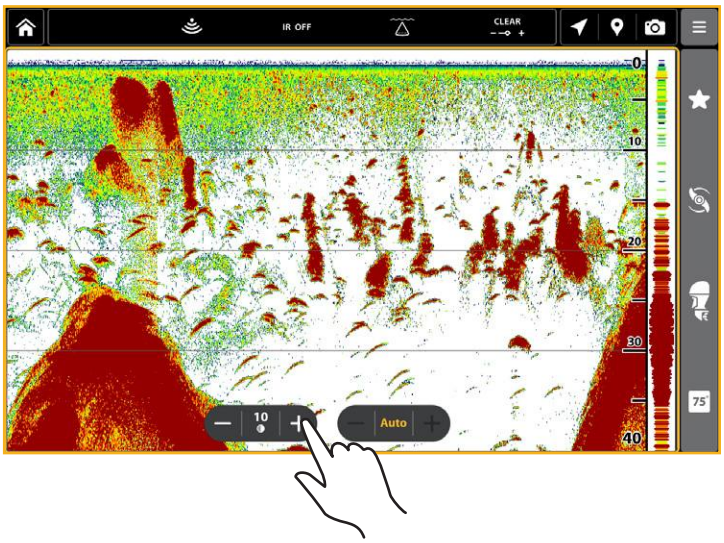

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## IN-PANE BUTTONS

The In-Pane buttons are on-screen touch controls that allow you to make quick adjustments for settings like sensitivity and range directly on the active sonar or map view.

The In-Pane buttons are set to be displayed. To hide the In-Pane buttons, see ***View Settings Menu: Turn the In-Pane Buttons On/Off***.

**Using an In-Pane Button**



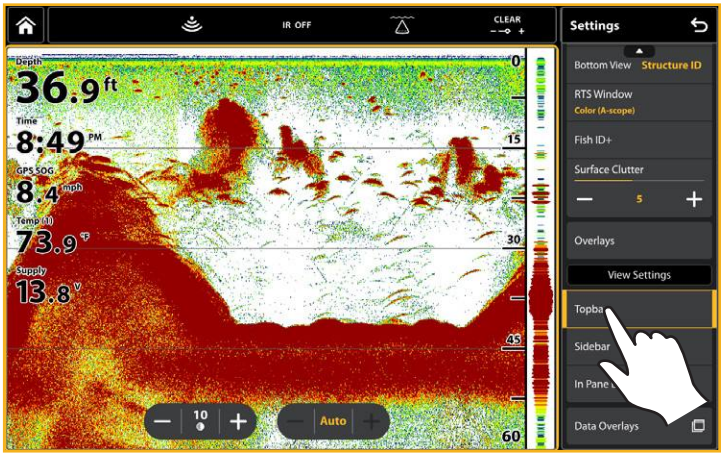

## THE VIEW SETTINGS MENU

The View Settings menu provides options to show or hide features on the selected view, including the Top Bar, the Side Bar and the In-Pane Buttons.

### Open the View Settings Menu

1. With a view displayed on-screen, tap the Menu ☰ icon in the Top Bar, or press the MENU ☰ key.
2. Tap Settings, and scroll down to View Settings.

**Changing the View Settings**




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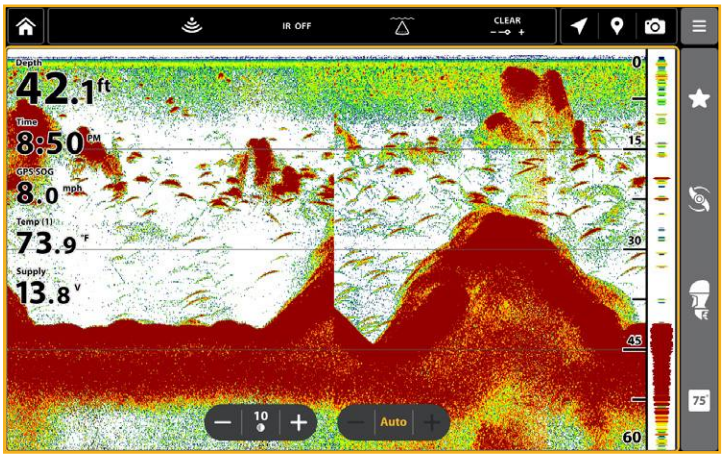
## Turn the Top Bar On/Off

To maximize the size of your application, use the following directions to hide the Top Bar.

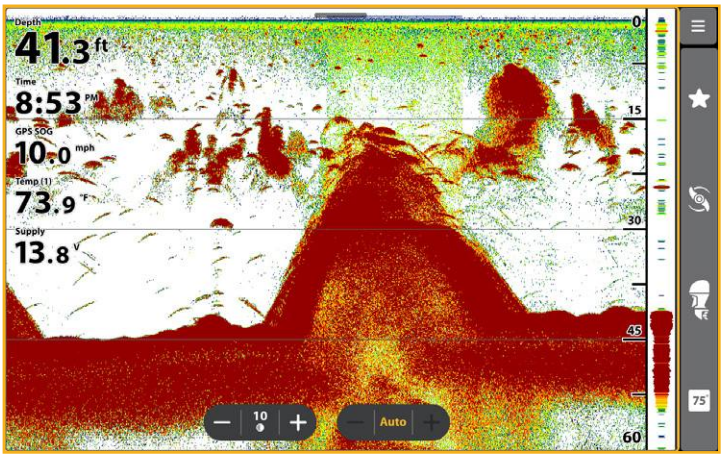
1. With a view displayed on-screen, tap the Menu icon in the Top Bar, or press the MENU key.
2. Tap Settings, and scroll down to View Settings.
3. Select Top Bar.
4. Tap the On/Off toggle to turn off the Top Bar.

   View the Top Bar when hidden: To view the Top Bar in the hidden state, swipe down on the gray bar at the top of the screen. The Top Bar will then stay open, unless you swipe up on the gray bar or select Auto Close On from the View Settings menu.

**Sonar View with Top Bar Set to On**




**Sonar View with Top Bar Set to Off**

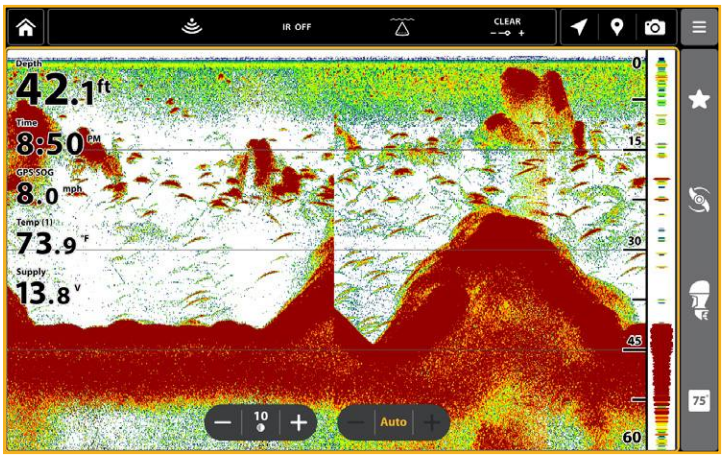



## Turn the Side Bar On/Off

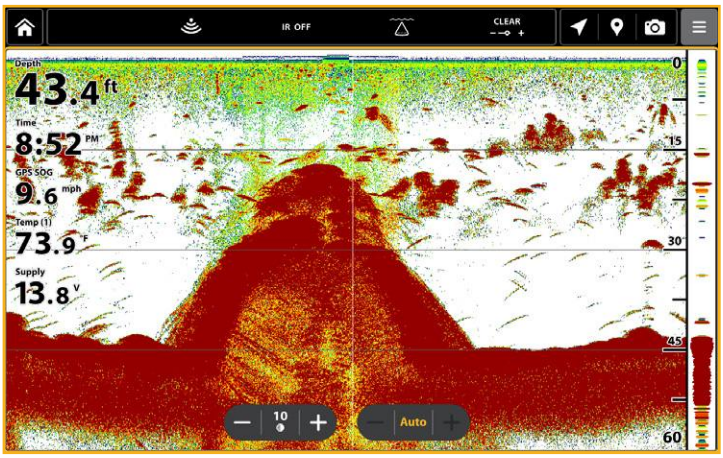
To maximize the size of your application, use the following directions to hide the Side Bar.

1. With a view displayed on-screen, tap the Menu icon in the Top Bar, or press the MENU key.
2. Tap Settings, and scroll down to View Settings.
3. Select Side Bar.
4. Tap the Sidebar On/Off toggle to turn off the Side Bar.

**Sonar View with Side Bar Set to On**




**Sonar View with Side Bar Set to Off**





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## Pin the Side Bar Open

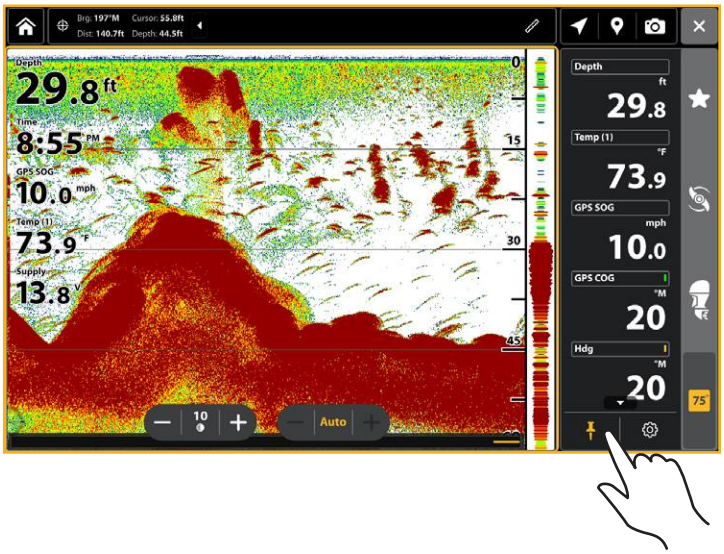
The Side Bar is set to minimize unless it is pinned open. There are two options to pin the Side Bar.

1. With a view displayed on-screen, tap the Menu ☰ icon in the Top Bar, or press the MENU ☰ key.
2. Tap Settings, and scroll down to View Settings.
3. Select Side Bar.
4. Tap the on/off button, or press the ENTER key, to change the setting.

   OR

1. With a View displayed on-screen, tap the Side Bar to open it.
2. Tap the Pin button at the bottom of the screen.

**Pinned Side Bar**

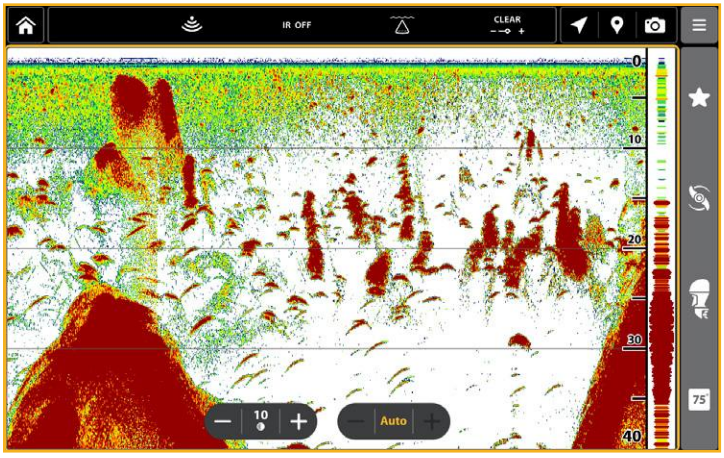



## Turn the In Pane Buttons On/Off

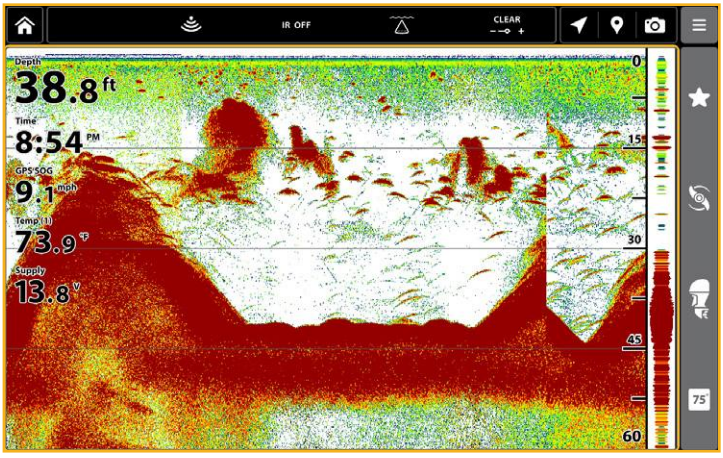
Each View has In Pane Buttons for quick setting adjustments. Use the View Options menu to turn the In Pane Buttons on or off.

1. With a view displayed on-screen, tap the Menu ☰ icon in the Top Bar, or press the MENU ☰ key.
2. Tap Settings, and scroll down to View Settings.
3. Select In Pane Buttons.
4. Tap, or press the ENTER key, to change the setting. (check mark = visible, blank = hidden).

**Sonar View with In-Pane Buttons Set to On**




**Sonar View with In-Pane Buttons Set to Off**




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**DISPLAY DATA OVERLAYS ›**

Digital readout data can be displayed as an overlay, and it can be displayed in the data bar. To turn on the data bar, see the next section Display a Data Bar.

## › Display an Overlay on the View

1. Press and hold an overlay.

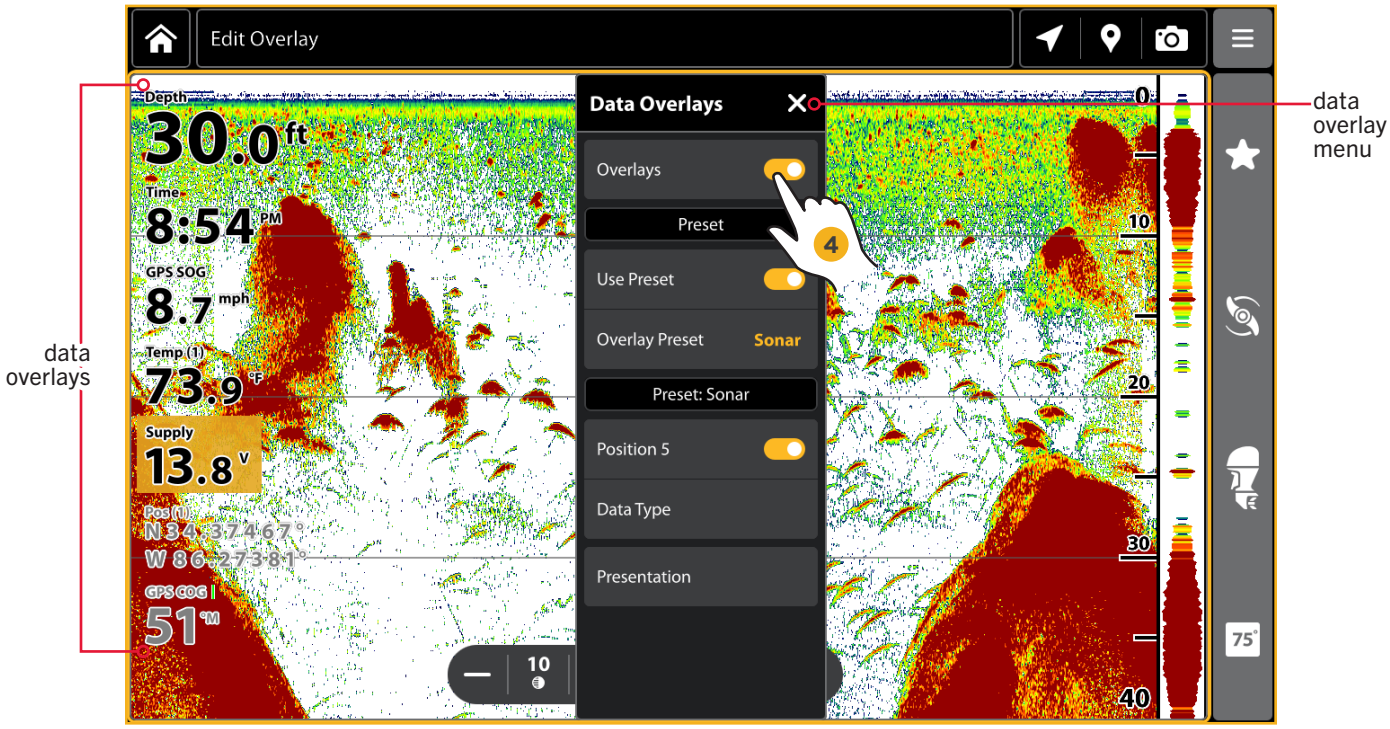
   OR

1. With a view displayed on-screen, tap the Menu ☰ icon in the Top Bar, or press the MENU ☰ key.
2. Select Settings.
3. Select Data Overlays. The Data Overlays menu will appear.
4. **Turn On Data Overlays:** Under Overlays, tap the on/off button, or press the ENTER key, to turn it on.
5. **Select a Data Overlay Preset:** Under Preset, select the type of data overlay.

   There are presets grouped for certain functions (Sonar, Map, Navigation), and presets grouped by position, size and color (Overlay 1 through Overlay 7).

   For example, to display navigation data like Heading, Course Over Ground (COG), Speed, etc., select Navigation.

**Display Data Overlays**





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## Change the Overlay Data

Use the following instructions to customize the data displayed in the data overlay. You can also change the overlay color, size, and position on the view.

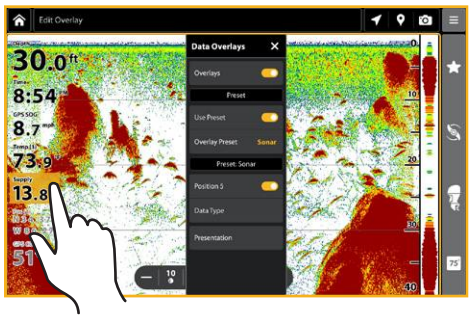
1. Press and hold an overlay, or open the Data Overlays menu from the Menu tab (see ***Display an Overlay on the View***) and select the overlay to edit.
2. Select to edit a Preset or a Custom overlay. Any changes to the selected overlay will be applied to other views.
3. Tap an overlay position to change. The data box will be highlighted in yellow, and the position will be updated on the Data Overlays menu.
4. Tap Data Type.
5. Select the new data category.

   To turn the readout off, tap the on/off button by the Position.
6. Select the data type.
7. Tap the Back button.
8. **Repeat:** Repeat steps 3 through 8 to change more data overlays.

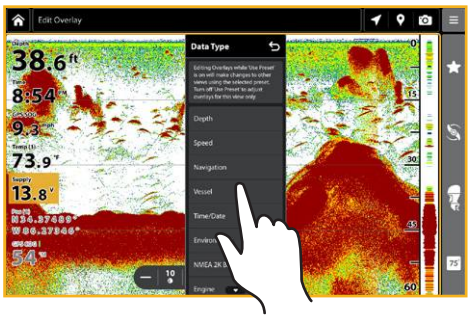
   OR

   **Close:** Press the EXIT key until the menu is closed.

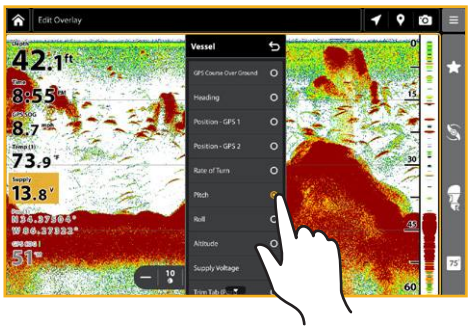
**Selecting an Overlay Position**




**Selecting the Data Type**




**Selecting the Data Label**




## Change the Overlay Appearance

You can also change the overlay color, size, and position on the view.

1. Press and hold an overlay, or open the Data Overlays menu from the Menu tab (see ***Display an Overlay on the View***) and select the overlay to edit.
2. Select Presentation.
3. Set the following menus to your preference:

| | |
|---|---|
| **Position** | Change the position of the overlay on the screen (top or bottom). |
| **Size** | Change the font size (large or small). |
| **Color** | Change the font color (white or black). |

4. **Back:** Tap the Back icon to return to the previous menu.

   OR

   **Close:** Press the EXIT key until the menu is closed.

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## DISPLAY A DATA BAR

Your fish finder allows you to display a data bar with preset data boxes. The data boxes in the data bar can also be changed. To turn on the data overlay, see the previous section ***Display Data Overlays***.

### Display a Data Bar

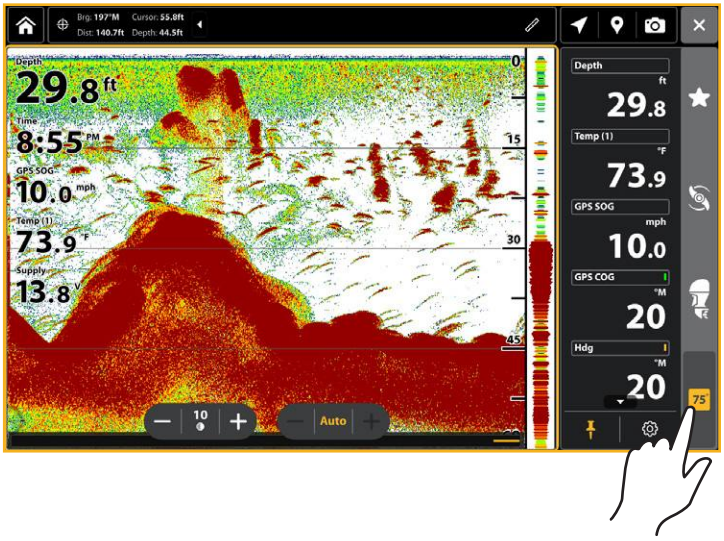
1. With a view displayed on-screen, tap the Side Bar to expand it.
2. Select the Data Bar icon 75° from the Side Bar. Swipe up to see more data boxes.

   To keep the data bar displayed on the view, tap the pin icon at the bottom of the data bar.

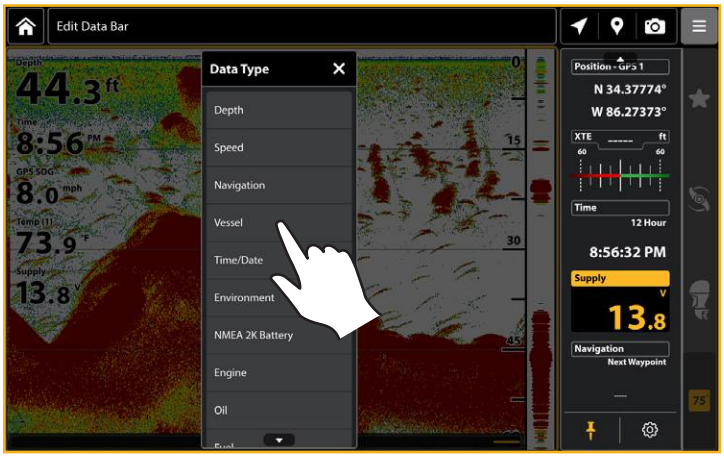
### Change the Data Bar

1. With a view displayed on-screen, tap the Side Bar to expand it.
2. Select the Data Bar icon 75° from the Side Bar.
3. Press and hold the data box to select it.
4. Select a data type from the menu.
5. Select a data label.
6. **Close:** Press the EXIT key.

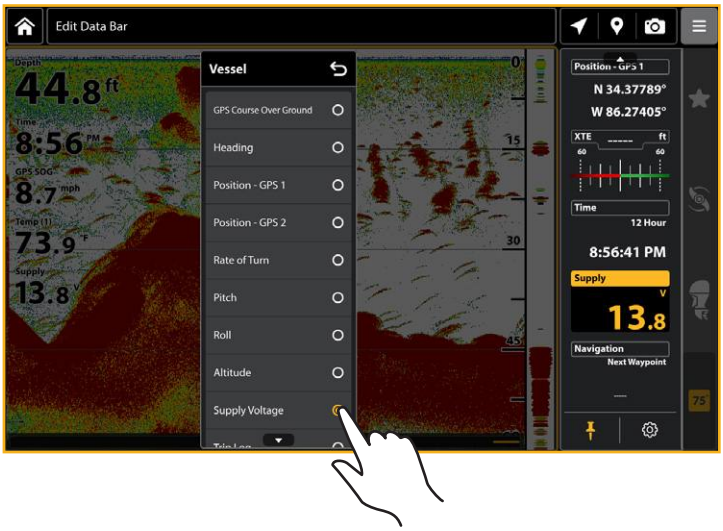
**Displaying a Data Bar**




**Data Bar - Selecting the Data Type**




**Data Bar - Selecting the Data Label**





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## Understand Data Bar Digital Readouts

The table below displays the basic data box options that are shown in the Standard data bar and the Navigation data bar, as well as the additional data box options for vessel, wind, and engine. The data box options are determined by the installed equipment and the selected sources on the network. Your fish finder provides a wide variety of data box options, more than the information shown here.

The number on the data label (Temp 1, Temp 2, Temp 3, etc.) corresponds with the source number. For more information about sources and networking, see Installation Information, Set up your ***NMEA 2000 Network***, and ***Set up your Fish Finder Network: Select Data Sources***.

| Label | Name | Description | Data Type |
|---|---|---|---|
| **ALT** | Altitude | The height measurement above sea level. | Vessel |
| **AWA** | Apparent Wind Angle | The direction of wind relative to the bow of the vessel. | Wind |
| **AWS** | Apparent Wind Speed | The speed of wind with respect to the speed of the vessel. | Wind |
| **Brg** | Bearing | The compass direction from the vessel position to the next waypoint or route point. | Navigation |
| **Brg (End)** | Bearing (To End) | The compass direction from the vessel position to the final point in a route. | Navigation |
| **Course** | Course | The intended direction of travel measured between the start point and end point. | Navigation |
| **CMG** | Course Made Good | The bearing from your starting position to the present vessel position. The goal is to have CMG and Track equal to the same number. | Navigation |
| **COG** | Course Over Ground | The current direction the boat is traveling measured in degrees from North. When the COG is equal to Bearing, the boat is said to be on course and will arrive at the destination in the most efficient manner. | Vessel |
| **CTS** | Course to Steer | The heading that must be maintained in order to reach the planned destination. | Navigation |
| **Depth (#)** | Depth | The depth of the water from the transducer or digital depth sensor to the bottom. This measurement includes the depth offset setting. | Depth |
| **Dest Wpt ID** | Next Waypoint | The next point (waypoint, route point, Man Overboard point, etc.) that the vessel is navigating towards in a route or other navigation mode. | Navigation |
| **DBT** | Depth Below Transducer | The depth of the water below the transducer. This measurement does not include the depth offset setting. | Depth |
| **DMG** | Distance Made Good | The straight line distance actually traveled between the start position to the current vessel position. | Navigation |
| **DTG** | Distance to Go | The distance between the vessel position and the next waypoint or route point. | Navigation |
| **Eng Temp (#)** | Engine Temperature | The engine temperature from the engine source. | Engine |
| **Eng Volt (1)** | Engine Voltage | The power supplied to the engine source. | Engine |
| **ETA** | Estimated Time of Arrival | The estimated time of arrival to the next waypoint on the route. | Navigation |

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| Label | Name | Description | Data Type |
|---|---|---|---|
| **Fuel (#)** | Fuel Level | The fuel level of the fuel source. | Fuel |
| **Hdg** | Heading | The direction the boat is pointing, measured in degrees. Due to wind and waves, the boat is often traveling in a slightly different direction than its heading. See Course Over Ground (see COG). | Vessel |
| **Heat Index** | Heat Index | The perceived temperature derived from air temperature and relative humidity. | Environment |
| **Next Turn** | Next Turn | The course of the next route leg with respect to the current heading. | Navigation |
| **Odo** | Odometer | The distance traveled. | Vessel |
| **Pitch** | Pitch | The rotation angle of the boat from front to back (bow to stern). | Vessel |
| **Position (#)** | GPS | The latitude and longitude coordinates of the vessel position based on the GPS receiver installation location. | Vessel |
| **Roll** | Roll | The rotation angle of the boat from side to side (port to starboard). | Vessel |
| **ROT** | Rate of Turn | The rate at which the boat is turning, measured in degrees per second. | Vessel |
| **RPM** | Revolutions Per Minute | The number of engine revolutions per minute. | Engine |
| **SMG** | Speed Made Good | The distance from the starting waypoint on the route divided by the time elapsed since starting navigation on the route. | Speed |
| **SOG** | Speed Over Ground | The measurement of the boat's progress across a given distance and the speed measurement provided by GPS. SOG is optimal for navigation because accurate destination times can be derived from this measurement. | Speed |
| **STW** | Speed Through Water | The measurement of the flow past the boat, which may vary depending on current speed and direction. | Speed |
| **Temp (#)** | Water Temperature | The detected water temperature. | Environment |
| **Temp (Air)** | Air Temperature | The detected air temperature. | Environment |
| **TTG** | Time to Go | The estimated time required to reach the next waypoint on the route. TTG is calculated using the SOG (Speed Over Ground) and DTG (Distance to Go). | Navigation |
| **TWA** | True Wind Angle | The wind angle detected when the vessel is stationary. | Wind |
| **TWS** | True Wind Speed | The wind speed detected when the vessel is stationary. | Wind |
| **VMG** | Velocity Made Good | The speed of travel relative to the next waypoint on the route. | Speed |
| **XTE** | Cross Track Error | The straight-line distance of the boat from the intended Track. XTE measures how far the boat is off course. | Navigation |


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# INSTRUMENT VIEW

The Minn Kota fish finder provides Instrument Views in a variety of combinations to display on-screen. You can also customize the gauges, data boxes, and ranges.

**NOTICE:** The data boxes and gauges must have input from connected and powered equipment. The Engine data boxes must have input from a NMEA 2000 network to provide source data. For more information about sources and networking, see ***Installation Information, Set up your NMEA 2000 Network,*** and ***Set up your Fish Finder Network***.

## Display an Instrument View

1. Press the HOME key.
2. Select the Views tool.
3. Under Groups, select Instrument.
4. Tap an Instrument View.

**Instrument View**



## Customize an Instrument View

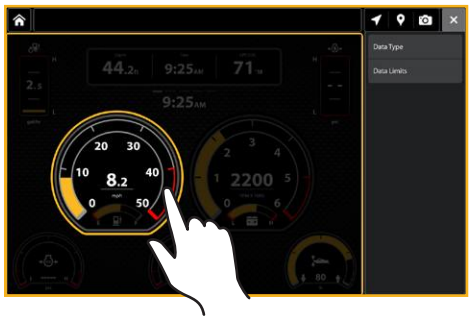
In an Instrument View, you can customize the gauges, data boxes, and ranges. You can change each item in the same way you change data boxes in a view. You can also set up warning limits for the selected data range.

**NOTICE:** The available changes and sources are determined by the selected gauge or data box. As you change data, the available sources are displayed in white, and the unavailable sources are displayed in black.

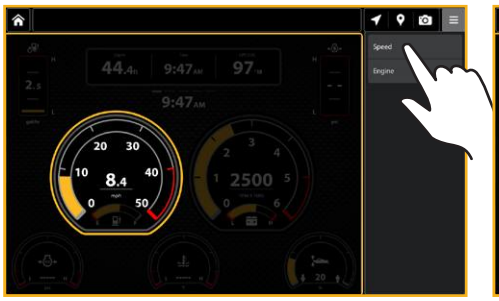
1. With an Instrument view displayed on-screen, tap the Menu ☰ icon, or press the MENU ☰ key once.
2. Select Edit Instrument.
3. Tap a gauge or data box.
4. Change the Type of Data: Select Data Type. Select a category and a data type from the menus.
5. Change the Displayed Range and Warning Threshold: Select Data Limits. Select a range from the list.

   Select a warning (if available), and tap the on/off button to turn it on. Tap the +/- buttons or press the +/- ZOOM keys to set the warning threshold.
6. **Close:** Press and hold the EXIT key.

**Selecting a Data Box or Gauge**




**Selecting a Data Type**




**Selecting a Data Limit**





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# MAP VIEW

To enable the navigation features, the fish finder must have a GPS fix from an internal or external GPS receiver (see ***Getting Started*** to check the sensor reception). Some of these features also require a compass/heading sensor to be connected to the fish finder.

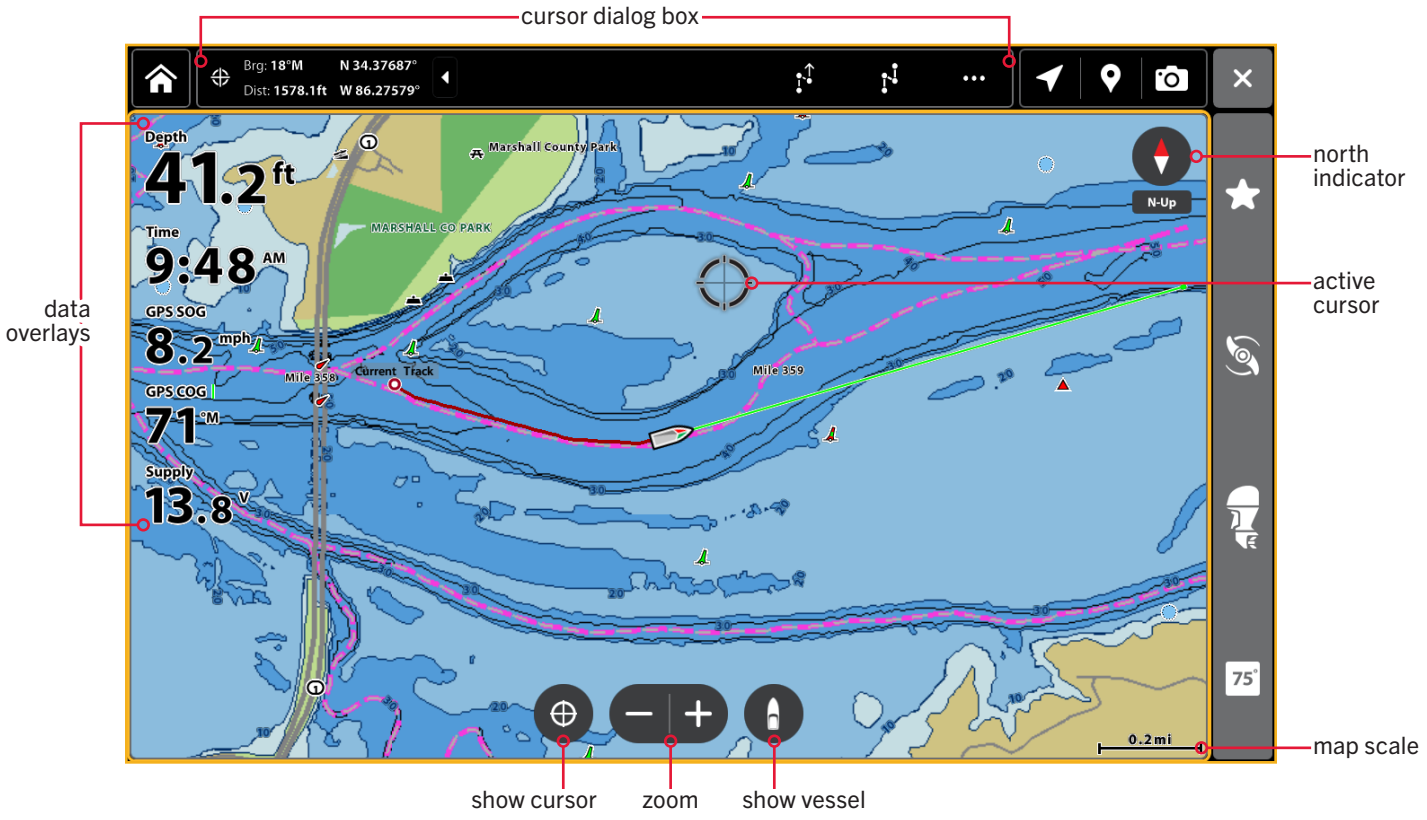
## DISPLAY A MAP VIEW ❯

1. Press the HOME key.
2. Tap the Views tool.
3. Tap Map to view the Map group.
4. Tap a Map view to display.

OR

1. Press the HOME key.
2. Tap the Favorites tool.
3. Tap a Map view to display.

**Map View (Basemap)**




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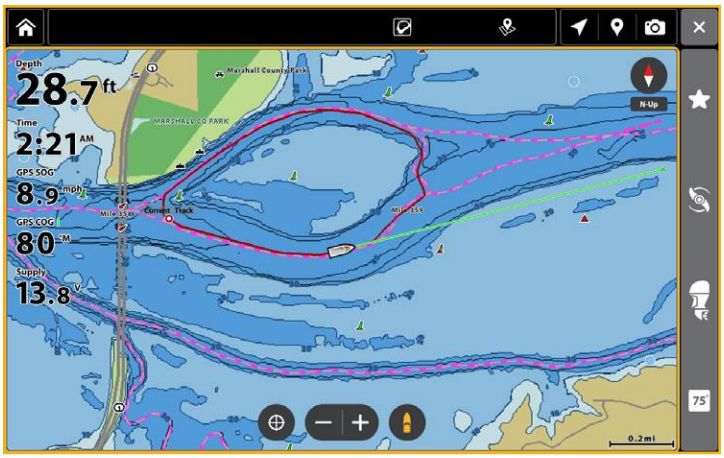
## MAP SOURCE OVERVIEW ❯

The Minn Kota fish finder includes a built-in base map. You can also install a microSD or SD map card with additional map information for a particular location (separate purchase required). Minn Kota is the default map source, but you can change the map source at any time (see Using the Built-in Maps).

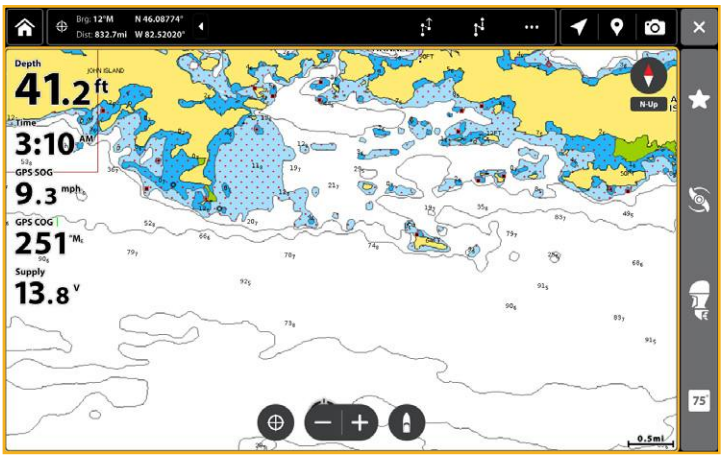
Your fish finder supports the following maps (some require a separate purchase):

| | |
|---|---|
| **Minn Kota** | Basemap (built in)<br>Minn Kota Maps, CoastMaster, LakeMaster, LakeMaster PLUS, SmartStrike, Aerial View, ChartSelect-downloaded maps and layers<br>AutoChart, AutoChart PRO, AutoChart Live (built in), SI Mosaic |
| **Navionics** | Navionics (built in), Navionics Gold, HotMaps, Navionics Platinum+ |

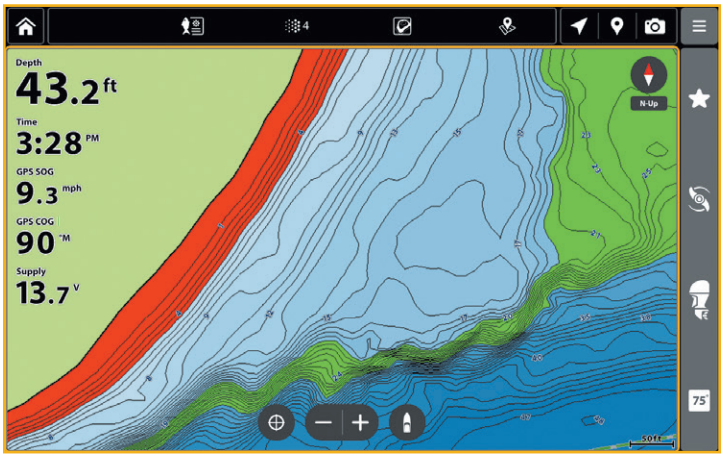
**Map Source: Minn Kota Basemap**



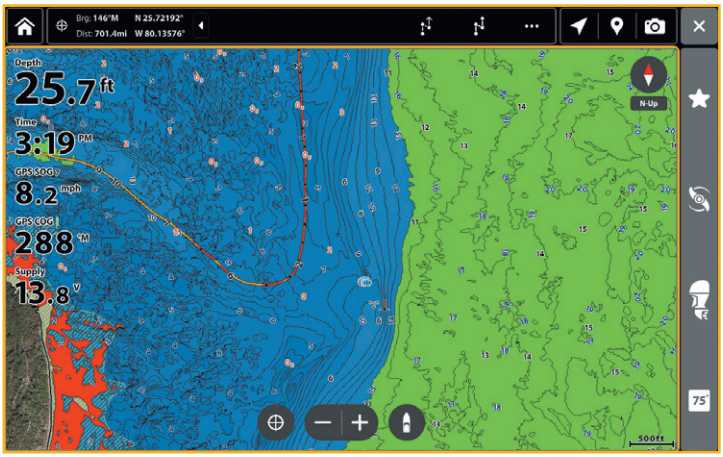

**Map Source: Navionics**




**Map Source: Minn Kota Inland Map Card**




**Map Source: Minn Kota Coastal Map Card**





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## How the Map Source Affects your Map View Operations

The selected map source influences the menu system. When you change the map source, the menu options for the Map Views change, allowing you to add navigation data, shading, or overlays. Install an SD or microSD map card (separate purchase required) with specific maps or layers to add more detail to your Map views (see ***Using Map Cards***).

**USING BUILT-IN MAPS**

Your Minn Kota fish finder includes built-in maps. Display the built-in maps and add data overlays and map layers to customize your Map view.

## Change the Built-in Map Source

1. With a Map View displayed on-screen, tap the Menu icon in the Top Bar, or press the MENU key once.
2. Select Settings.
3. Under System Settings, select Map Source.
4. Select between Minn Kota and Navionics.

## Minn Kota Maps

When Minn Kota is selected as the map source, you can use the system defaults, or you can set the menu settings to your preference. You can use the built-in Minn Kota Basemap or a Minn Kota VX Map Card (see ***Using Map Cards***).

1. Select Minn Kota as the map source.
2. Under Minn Kota Maps, select Basemap or Legacy Map Cards.

| | |
|---|---|
| **Minn Kota Basemap** | Select the Minn Kota Basemap to display contour data and navigation aids, including hazards, buoys, daymarkers, marinas, and other points of interest. The Basemap also shows depth markings and spot soundings (for coastal areas). |
| **Legacy Map Cards*** | Select the Legacy Map Card to display the map data from the installed legacy map card.<br>**Required Equipment: Legacy map card. See Using Map Cards for more information.* |

## Change Basemap System Settings

1. With a Map View displayed on-screen, tap the Menu icon in the Top Bar, or press the MENU key once.
2. Select Settings.
3. Under System Settings, select Basemap Settings.
4. Set the following menus to your preference:

| | |
|---|---|
| **Text Size** | Adjust the setting to change the size of font used in the Basemap. |
| **Symbol Size** | Adjust the setting to change the size of the symbols used in the Basemap. |

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## Navionics

When Navionics is selected as the map source, you can use the system defaults, or you can set the menu settings to your preference. You can use the built-in map, or you can install an SD map card with additional features. To change Navionics Basemap settings:

1. With a Map View displayed on-screen, tap the Menu ☰ icon in the Top Bar, or press the MENU ☰ key once.
2. Select Settings.
3. Under System Settings, select Basemap Settings.
4. Set the following menus to your preference:

| | |
|---|---|
| **Easy View** | Turn on Easy View to simplify the Map View. The icon size and text size increase for easier viewing. |
| **Dynamic Tides/ Currents** | Turn on Dynamic Tides/Currents to display an icon on the Map View that indicates the status of the tides and currents. The provided data is affected by the station's time zone. |
| **Symbols** | Select USA or International symbols to display on the Map View. |
| **Map Datum** | Use Map Datum to change the map coordinate system used by the fish finder to match those of a paper map. Almost all electronic charts use the WGS84 Map Datum and most likely do not require a setting change. (Default = WGS84) |
| **Chart Offset** | Use Chart Offset to move the chart position on-screen and correct a position error in the cartography. Turn on Chart Offset, and use the sliders to adjust the latitude/longitude coordinates. The Chart Offset setting applies to all charts, not just the chart that requires correction. |
| **Chart Boundaries** | Turn on Chart Boundaries to display chart boundaries on the Map View. The dotted lines of a chart boundary indicate an area that contains a different map. Use the Joystick to move the cursor within a chart boundary, and press the +ZOOM key to see a closer view of the map. |

**NOTICE:** There are also alarm and display options that are exclusively available for Navionics charts. See ***Navigation Alarms Overview*** and ***Customize the Map View*** for more information.

### USING MAP CARDS

When you install an SD or microSD map card (separate purchase required), the fish finder automatically chooses the best map to display. If you install more than one SD or microSD card, you can choose which map source you want to use.

Your fish finder may be compatible with an SD or microSD card (depending on your fish finder model). Locate the instructions to install your SD card below and proceed to ***Change the Map Source***.

## Insert an SD Card

If your fish finder is compatible with SD cards, use the following instructions to install and eject it from the fish finder. If your fish finder is compatible with microSD cards, proceed to the next section below.

1. Insert the card into the slot with the label facing left.
2. The fish finder automatically chooses the best map to display. If more than one type of SD card is installed, follow the on-screen prompts to select the map source.
3. **Remove:** Press the SD card into the slot and then release it. Pull the card from the slot.


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## Insert a microSD Card

1. Remove the microSD card slot cover.
2. Position the microSD card so that the label faces up.
3. Insert the card into the slot until it clicks into place.
4. Replace the slot cover so it is secure.
5. **Remove:** Press the card into the slot and then release it. Pull the card from the slot.

**⚠ CAUTION**

Do not leave the card slot cover open. The slot cover should always be closed to prevent water damage to the unit.

### CHANGE THE MAP SOURCE

When you install an SD card, the map source is changed automatically to match the SD card map source. You can also change the map source using the Settings menu.

When you change the map source, the menu options for the Map Views also change, allowing you to add navigation data, shading, alarms, and more. See each section for details.

1. With a Map View displayed on-screen, tap the Menu ☰ icon in the Top Bar, or press the MENU ☰ key once.
2. Select Settings.
3. Under System Settings, select Map Source.
4. Select the Map Source to display.

## View Map Card Info

Use the following steps to review the information about the installed map card.

1. With a Map View displayed on-screen, tap the Menu ☰ icon in the Top Bar, or press the MENU ☰ key once.
2. Select Settings.
3. Under System Settings, select Map Source.
4. Select Map Card Info.
5. Select between SD Card (1) and SD Card (2).

## Select between Multiple Map Cards

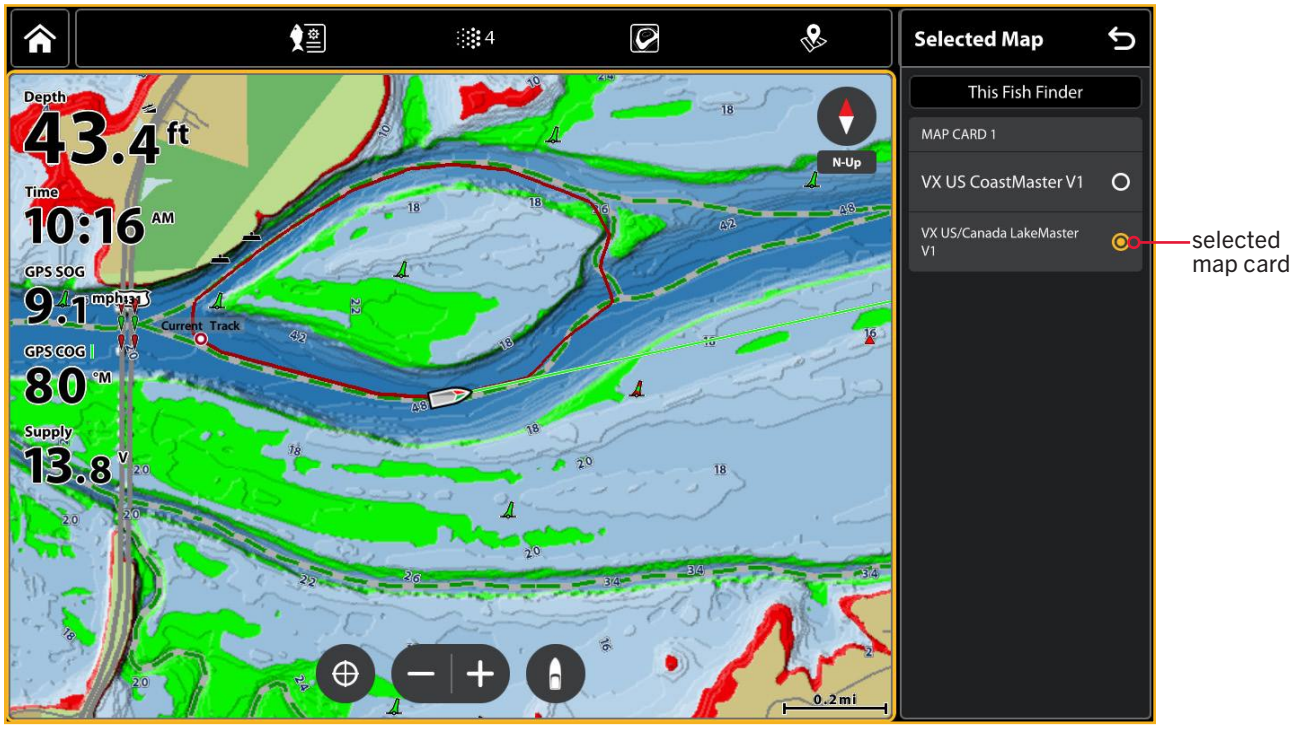
If you have more than one map card in your fish finder or shared across the network, select which card you want to use.

**NOTICE:** XPLORE fish finders come with LakeMaster VX and CoastMaster VX maps on one card. Use these instructions to switch between LakeMaster and CoastMaster.

1. With a Map View displayed on-screen, tap the Menu ☰ icon in the Top Bar, or press the MENU ☰ key once.
2. Select Selected Map.
3. Select the map card you want to display.
4. Select Map Card Info.
5. Select between SD Card (1) and SD Card (2).

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**Selecting a Map**




## Map Settings

Minn Kota Map cards have additional Map Settings available.

1. With a Map View displayed on-screen, tap the Menu ☰ icon in the Top Bar, or press the MENU ☰ key once.
2. Select Settings.
3. Under System Settings, select VX Settings.
4. Set the following menus to your preference:

| | |
|---|---|
| **Dynamic Tides/ Currents** | Turn on Tides and Currents to review information for the nearest tide and current stations to your present position.<br>**CoastMaster or Coastal map card required* |
| **Text Size** | Adjust the setting to change the size of font used in the map. |
| **Symbols** | Adjust for International or U.S. symbols. |
| **Symbol Size** | Adjust the setting to change the size of the symbols used in the map. |
| **Safe Depth** | Select this menu to set the minimum depth level for your vessel and to turn on highlights for hazards shallower than that level. |


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## ADJUST THE WATER LEVEL OFFSET ❯

It is important to note if the water level is higher or lower than normal for the selected lake. For example, if the water level is down 3 feet, set the Water Level Offset to -3. Depth labels on the Contour Lines will adjust based on the Water Level Offset setting.

1. From the Map Menu, select Water Level Offset.

   Tap the on/off button, or press the ENTER key, to turn it on.

2. Tap the +/– buttons or press and hold the slider to adjust the setting.
   - If the water level is higher than normal, set a positive amount.
   - If the water level is lower than normal, set a negative amount.
   - If the water level has not changed (normal), turn Water Level Offset off.

## CHANGE THE MAP ORIENTATION ❯

Select your display preference: North-Up, Head-Up, Course-Up, etc.

1. Map Menu > Settings > General > Orientation.

   OR

   Tap the Orientation icon 

in the Map View.

| | |
|---|---|
| **Head Up** | The vessel's current heading points up, and the map rotates around the vessel icon so it always points up on the view. The heading is provided by the connected compass/heading sensor. If a compass is not connected, the vessel will be oriented according to the COG (Course Over Ground). |
| **North Up** | The map is oriented with North up on the display, and the vessel rotates according to its heading or COG (Course Over Ground). |
| **COG Up** | The map is displayed with the vessel oriented in a fixed position pointing up, and the map rotates according to the vessel COG (Course over Ground). |
| **Course Up** | During navigation, the intended course or route leg is shown at the top of the view. Objects ahead of the vessel are drawn above the vessel. When the vessel is not navigating, the current heading is displayed. |

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# CUSTOMIZE THE MAP VIEW

The settings in this section are optional. You can use the default settings for the map appearance and map source, or you can customize the Map View for your navigation preferences. See ***Views*** for more information.

## CUSTOMIZE THE MINN KOTA MAP DISPLAY ❯

When Minn Kota is selected as the map source, additional menus to customize the map display are added to the menu system.

## SELECT A MAP PRESET ❯

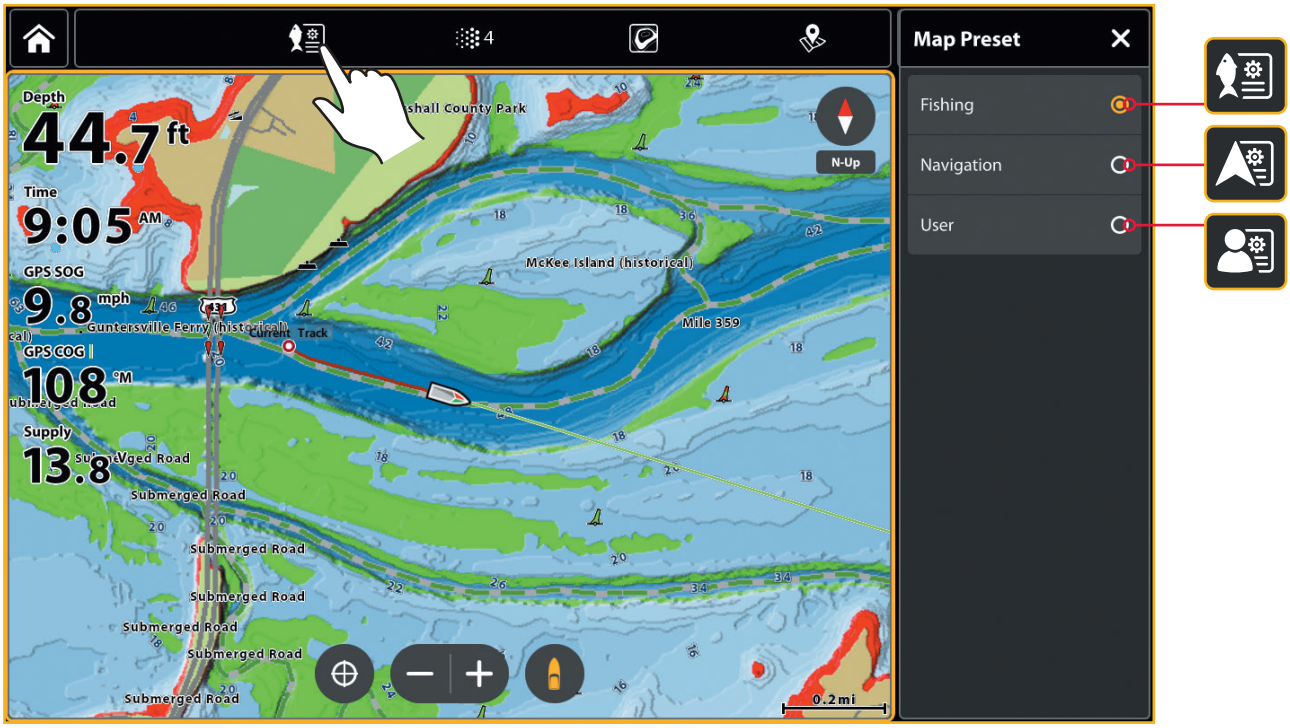
Use Map Presets to quickly alternate between settings. You can use the default Fishing or Navigation settings provided, or you can create a custom User preset with your preferences. The Fishing and Navigation presets are also fully customizable. You can restore each preset back to its default settings at any time.

1. With a Map View displayed on-screen, tap the Map Preset icon in the Top Bar.

   OR

   From the Map Menu, select Settings > Map Preset.
2. Select a preset.

**Map Preset**





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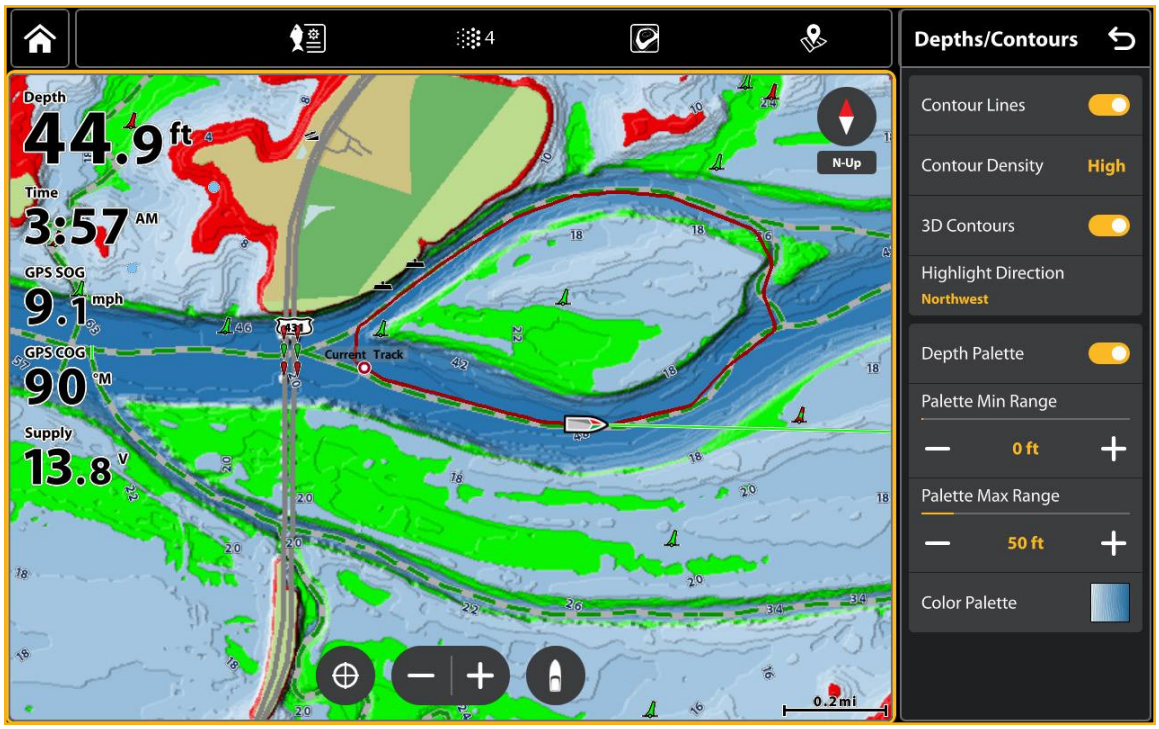
DEPTHS/CONTOURS MENU ›

## Open the Depths/Contours Menu

You can display or hide the contour lines on the map, and you can adjust the distance between each contour line.

1. From the Maps Menu, select Settings.
2. Select Depths/Contours.

**Depths/Contours Menu**




## Show/Hide Contour Lines

Show or hide water contour lines in Map Views.

1. From the Depths/Contours Menu, select Contour Lines.
2. Tap the on/off button, or press the ENTER key, to show or hide contour lines.

## Adjust the Contour Density

Use Contour Density to adjust the density of the contour lines displayed on the map. You can set the density to High, Medium, or Low. Contour lines must be turned on to adjust this feature.

**NOTICE:** Contour density can only be customized in the Fishing and User presets. Navigation contour density cannot be changed.

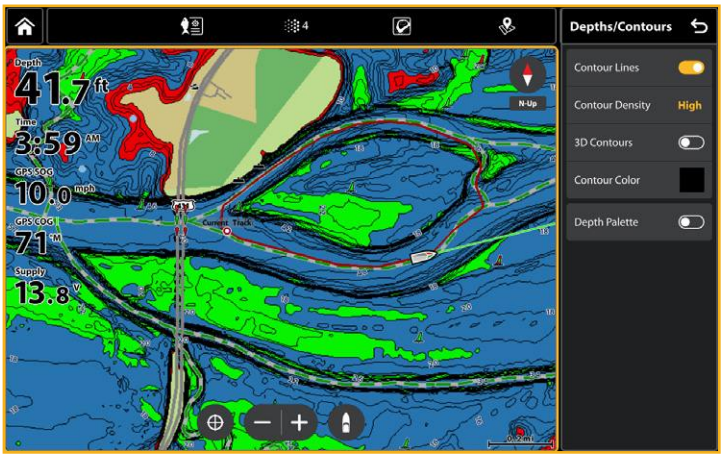
1. From the Depths/Contours Menu, select Contour Density to open the submenu.
2. Select a Contour Density setting.

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**Adjusting the Contour Density (High)**




**Adjusting the Contour Density (Low)**




## Change the Contour Lines Color

Contour lines must be turned on to adjust this setting.

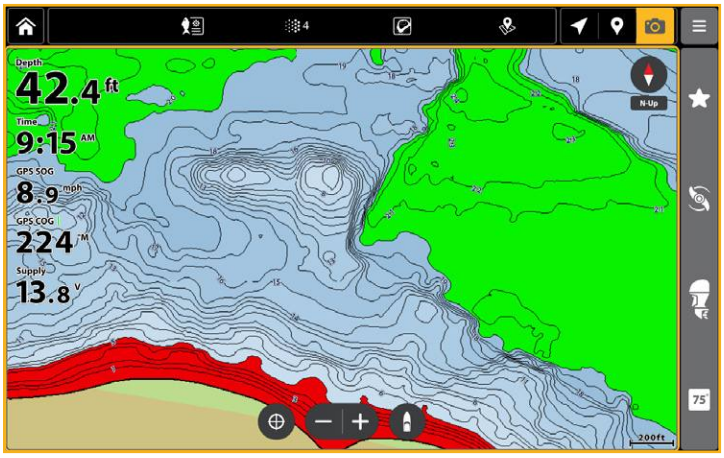
1. From the Depths/Contours Menu, select Contour Color to open the submenu.
2. Select a color. Tap, or press the ENTER key, to turn it on.

## 3D Contours

Switch between 2D contour lines and 3D contour imaging for your preferred view.

1. From the Map Menu, select Settings > Depth/Contours and then toggle 3D Contours on or off.

**2D Contour**




**3D Contour**




## Show/Hide Depth Palette Colors

Turn depth area colors in the Map Views Off or On.

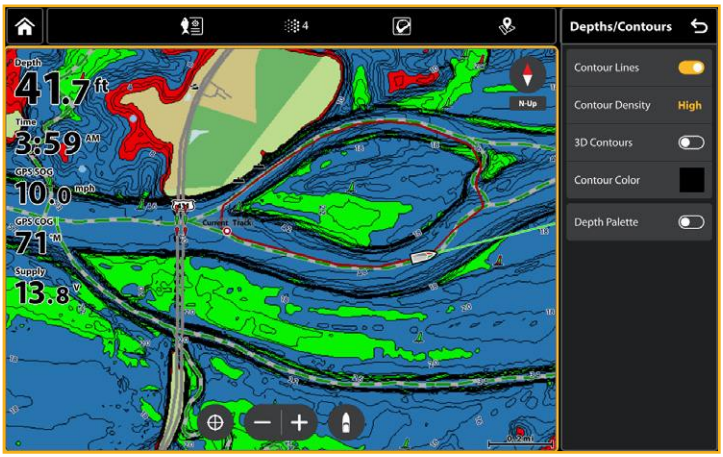
1. From the Depths/Contours Menu, select Depth Palette.
2. Tap the on/off button, or press the ENTER key, to show or hide depth colors.


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Depth Palette (ON)




Depth Palette (OFF)




## Adjust the Palette Range

You can adjust the range of data shown on the map by changing the minimum range and maximum range on the display. The range you select affects how the depth colors are displayed. For best results, set a narrow depth range threshold.

1. From the Depths/Contours Menu, select Palette Min Range.
2. Press and hold the slider, or press and hold the ENTER key, to adjust the setting.
3. Select Palette Max Range.
4. Press and hold the slider, or press and hold the ENTER key, to adjust the setting.

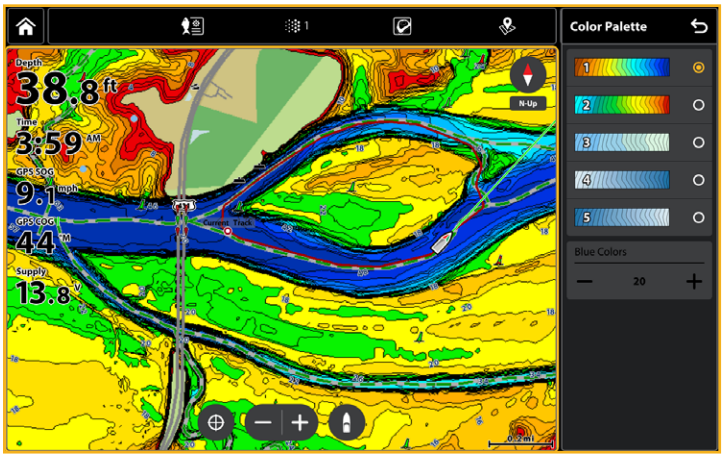
## Change the Color Palette

The Color Palette menu changes the colors used to display the map.

1. From the Depths/Contours Menu, select Color Palette.
2. Select a color palette.
3. If you have selected a blue color palette, you can adjust the number of shades displayed. Select Blue Colors, and press and hold the slider, or press and hold the ENTER key, to adjust the setting.

   **QUICK TIP!** You can also change this setting by tapping the color palette 1 icon in the Top Bar. See ***Using the Top Bar*** for more information.

Color Palette 1




Color Palette 4




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## SET DEPTH HIGHLIGHTS ›

Highlight deep and shallow waters in Map View and Map Combo Views using the following features.

**NOTICE:** Changing these settings will affect all presets, not just the active preset.

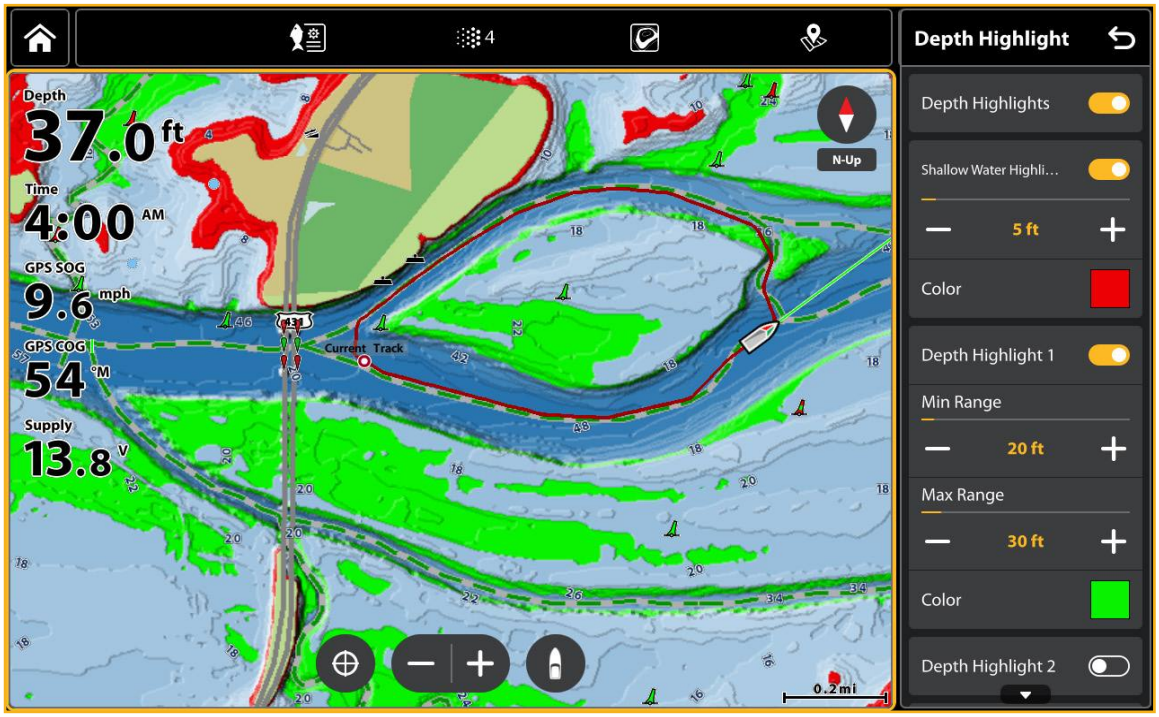
## › Open the Depth Highlights Menu

1. With a Map view displayed on-screen, tap the Depth Highlight icon in the Top Bar.

   OR

1. From the Map Menu, select Settings.
2. Select Depth Highlight.

**Depth Highlight Menu**




## › Highlight a Depth Range

The Depth Highlight Menu allows you to select up to four depth ranges to be highlighted on the map.

1. From the Depth Highlight Menu, select Depth Highlights.

   Tap the on/off button, or press the ENTER key, to show or hide depth highlights.

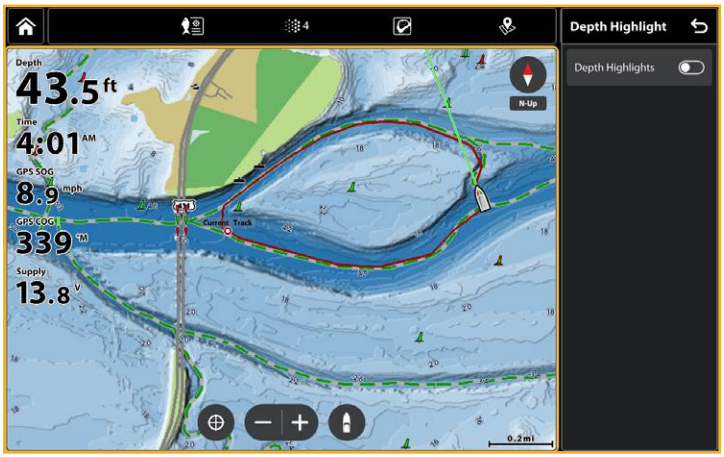
2. With depth highlights turned on, set the depth range for Depth Highlight 1 by selecting Min Range or Max Range.

   Press and hold the slider, or tap the +/– buttons, to adjust the setting.

3. To turn on an additional highlight, select Depth Highlight 2 and tap the on/off button, or press the ENTER key.
4. Repeat Step 2 with Depth Highlight 2 to adjust the depth range.
5. Repeat Steps 2-3 for each additional depth highlight (up to four).


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**Depth Highlight (OFF)**




**Depth Highlight (ON)**




## Change the Highlight Color

If you've set Depth Highlights and they're not easy to see with the color palette you've selected, you can change the Highlight Color.

1. From the Depth Highlight Menu, select the Depth Highlight Color you wish to change.
2. Tap, or use the Cursor Pad/Joystick and Enter key, to select a new color.
3. Repeat these steps for each additional highlight you wish to change.

**Orange Depth Highlights**




**Magenta Depth Highlights**




## Highlight Shallow Water

The Shallow Water Highlight identifies shallow waters when the depth is equal to or less than the level you set. Depth Highlights must be turned on to enable this feature.

1. From the Depth Highlights Menu, select Shallow Water Highlight.
2. Tap the on/off button, or press the ENTER key, to show or hide shallow water highlights.
3. Press and hold the slider, or tap the +/– buttons, to adjust the highlighted depth level.

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## Change the Shallow Color

If you've set Shallow Water Highlights and they're not easy to see with the color palette you've selected, you can change the Shallow Water Highlight Color.

1. From the Depth Highlights Menu, select the Shallow Water Highlight Color.
2. Tap, or use the Cursor pad/Joystick and Enter key, to select a new color.

### SET SAFE DEPTH LEVELS

Use the Safe Depth feature to set the minimum depth level for your vessel and to turn on highlights for hazards shallower than that level.

**NOTICE:** Changing these settings will affect all presets, not just the active preset.

1. From the Map Menu, select Settings.
2. Select VX Settings.
3. Select Safe Depth and press and hold the slider, or press and hold the ENTER key, to set the minimum depth level for your vessel.

| | |
|---|---|
| **Sounding Highlight** | Displays soundings shallower than the safe depth in red |
| **Symbol Highlight** | Displays hazardous objects shallower than the safe depth with a red outline |
| **Always Show Hazards COG Up** | Forces hazardous objects and spot soundings shallower than the safe depth to display even if the map object data is hidden |

### FILTER MAP OBJECTS

Use Map Objects to add or hide map details and navaids on the Map View.

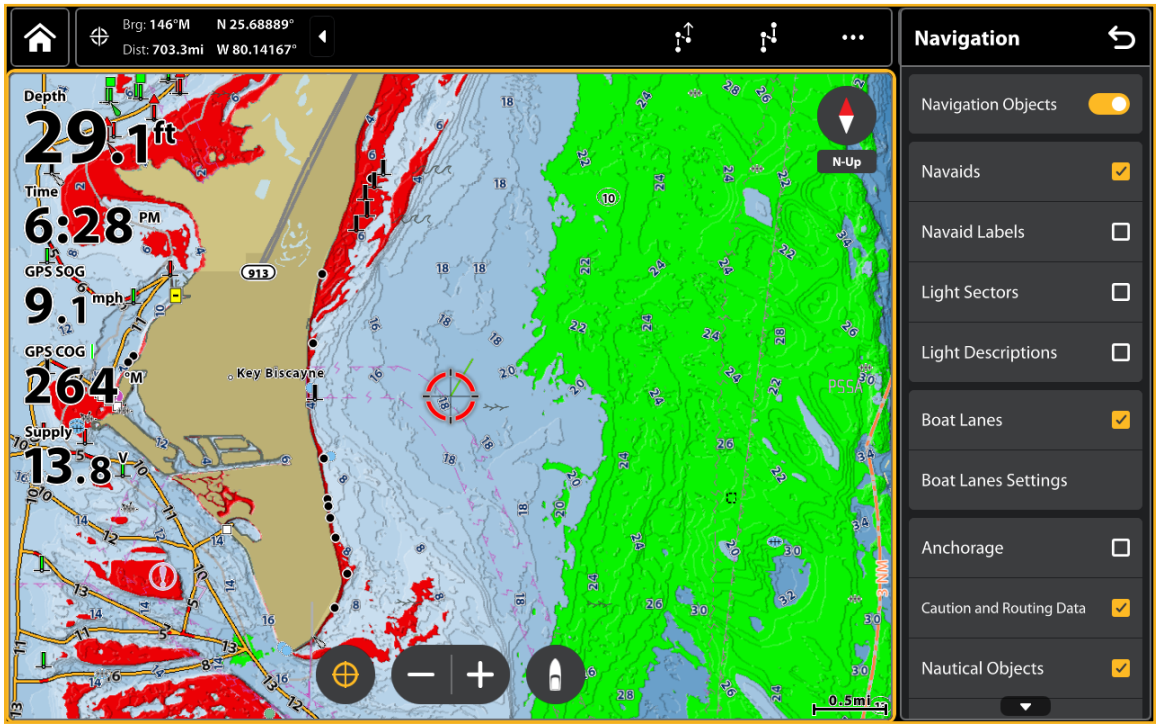
## Open the Map Objects Menu

1. From the Map Menu, select Settings.
2. Select Map Objects.
3. Select one of the following:

| | |
|---|---|
| **Navigation** | Shows navaids and labels, light sectors and descriptions, anchorage, caution and routing data, nautical objects, tides and currents, spot soundings, and oil and gas production areas |
| **Water** | Shows wrecks, rocks, obstructions, natural water features, fishing objects, and the nature of the seabed |
| **Land** | Shows ports, shoreline objects, roads, points of interest (POIs) and POI labels, and natural land features |


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**Map Objects (Navigation Menu)**




## Show/Hide Spot Soundings

Spot Soundings are depth measurements shown on the map.

1. From the Map Objects Menu, select Navigation > Spot Soundings.
2. Tap, or press the ENTER key, to show or hide spot soundings. (check mark = visible, blank = hidden)
3. To hide only the spot soundings deeper than a depth you set, select Soundings Filter.
4. Tap the on/off button, or press the ENTER key to enable or disable the filter.
5. Tap the +/– buttons, or press and hold the slider, to adjust the depth level.

## Show/Hide Rocks

Spot Soundings are depth measurements shown on the map.

1. From the Map Objects Menu, select Water > Rocks.
2. Tap, or press the ENTER key, to show or hide rocks. (check mark = visible, blank = hidden)
3. To hide only the rocks below a depth you set, select Rock Filter.
4. Tap the on/off button, or press the ENTER key to enable or disable the filter.
5. Tap the +/– buttons, or press and hold the slider, to adjust the depth level.

## Show/Hide Tides and Currents

Turn on Tides and Currents to review information for the nearest tide and current stations to your present position.

1. From the Map Objects Menu, select Navigation.
2. Select Tides and Currents.
3. Tap, or press the ENTER key, to show or hide tide and current icons. (check mark = visible, blank = hidden)

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## Show/Hide Dynamic Tides and Currents

Turn on Dynamic Tides and Currents to display an icon on the Map View that indicates the status of the tides and currents. The provided data is affected by the station's time zone.

**NOTICE:** Tides and Currents must be turned on to enable Dynamic Tides and Currents.

**NOTICE:** Changing these settings will affect all presets, not just the active preset.

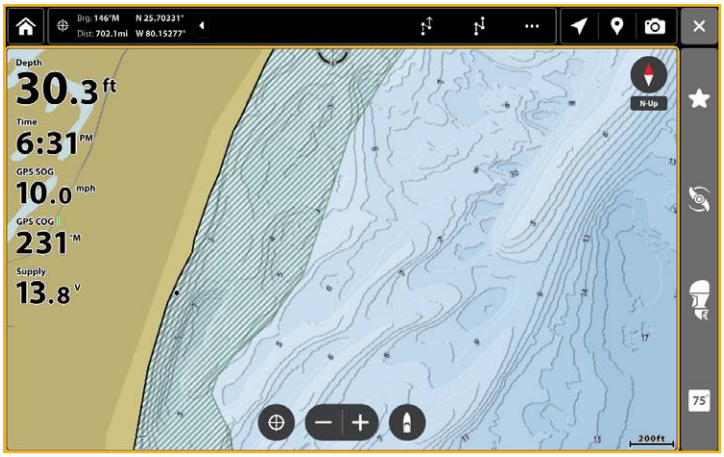
1. From the Map Menu, select Settings.
2. Select VX Settings.
3. Select Dynamic Tides/Currents.
4. Tap the on/off button, or press the ENTER key, to show/hide dynamic tides and currents.

## Show/Hide Drying Areas

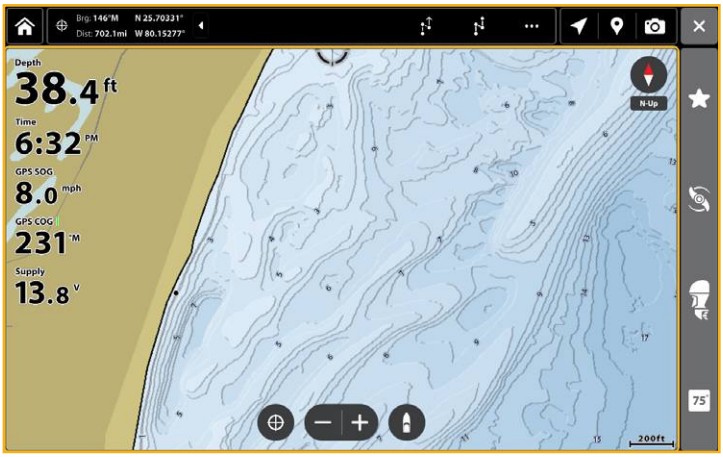
Tidal drying areas are highlighted on your map by a green and tan hatched pattern (Navigation Preset) or in seafoam green (Fishing and User Presets). Drying areas can be turned on and off through the Natural Land Features option.

1. From the Map Objects Menu, select Land > Natural Features.
2. Tap, or press the ENTER key, to show or hide drying areas. (check mark = visible, blank = hidden)

**Drying Areas (ON)**




**Drying Areas (OFF)**





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**MAP LAYERS ›**

Premium map cards unlock additional map layers in Map View and Map Combo Views, including aerial imagery and shaded relief. Layer transparency can be customized to adjust how much detail appears on the map.

- Aerial Imagery can be applied to land only or to both land and water.
- Shaded Relief uses shadows to highlight lakebed features.
- Bottom Hardness, available on Premium coastal maps, uses color shading to show seabed composition, with lighter colors indicating harder bottom and darker colors indicating softer bottom.

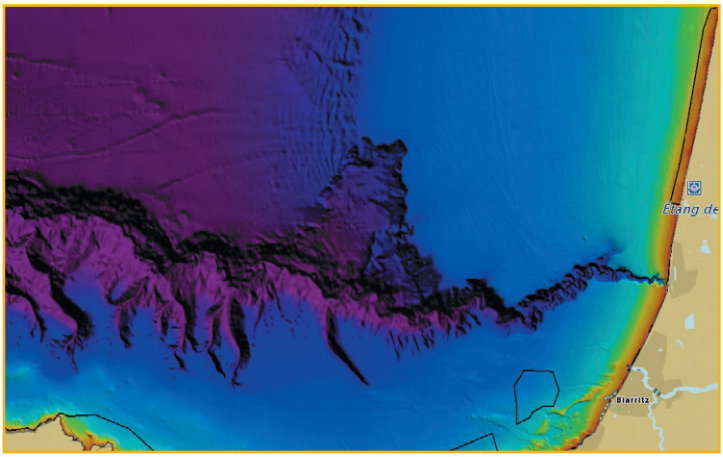
## Change Layers

1. With a Map view displayed on-screen, tap the Layers icon in the Top Bar.
   OR
2. From the Map Menu, select Settings > Layers.

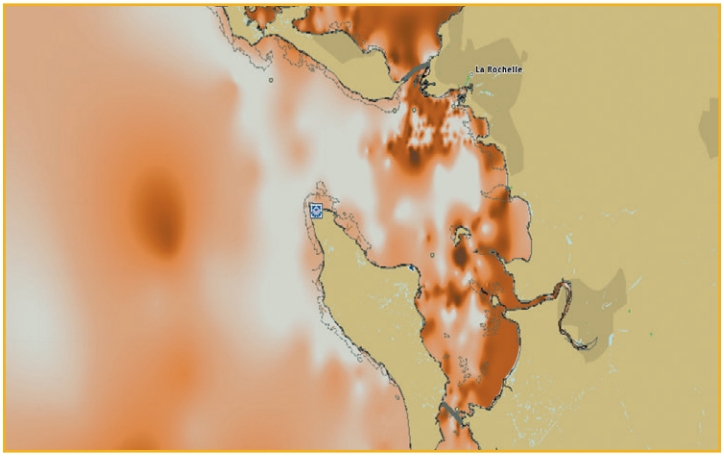
**Aerial imagery**



**Shaded Relief**



**Bottom Hardness**







**Layer Transparency**




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# CUSTOMIZE THE MAP VIEW

## TURN ON AUTO ZOOM

Auto Zoom focuses the view on the current route leg as it is being navigated. As the vessel's speed increases, the map range will increase. If you press the ZOOM keys to see more or less of the view, Auto Zoom will pause.

**NOTICE:** The Auto Zoom setting does not apply to the 3D Views.

1. Press the HOME key.
2. Select Settings.
3. Select My Boat.
4. Under Navigation Options, select Auto-Zoom. Tap the on/off button, or press the ENTER key, to turn it on.

## CHANGE THE MAP VIEW DATA OVERLAYS

Use the Vessle Overlays menu to display or hide information on the view. In a Map View, you can display or hide the vessel icon, data overlays, and range rings. The available menu options are determined by the accessories attached to the fish finder network. Also, see Views for more information about Overlays.

1. With a Map View displayed on-screen, tap the Menu icon in the Top Bar, or press the MENU key once.
2. Select Settings.
3. Select Vessel Overlays.
4. Tap, or press the ENTER key, to select an overlay. (check mark = visible, blank = hidden).

## CUSTOMIZE THE NAVIONICS MAP DISPLAY

Navionics must be selected as the map source to enable the following features.

### Select Map Data

When a Navionics map is selected as the map source, you can set navaids, marine, and land icons to hidden or visible. The Depth menu option allows you to see shading on the map based on the set depth.

1. With a Map View displayed on-screen, tap the Menu icon in the Top Bar, or press the MENU key once.
2. Select Settings.
3. Under Navionics Settings, use the touch screen or the Cursor pad/Joystick to select a menu and change the settings.

### Change the Map Mode

Use the instructions in this section to switch the Map View from 2D to 3D.

1. With a Map View displayed on-screen, tap the Menu icon in the Top Bar, or press the MENU key once.
2. Select a map mode.


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## Display Layers

Display Layers on the Map View to add more details and data. With those locations, you just have Satellite Maps (ON), 100%, and Land highlighted. The zoom level has to be less than 2 miles.

| | |
|---|---|
| **Layers** | Select to turn Layers on. |
| **Satellite Maps** | Press and hold the slider, or press the +/- Zoom keys, to adjust the setting. |
| **Display Area** | Land: Select to display the satellite layer over land only.<br>Land + Shoals: Select to display the satellite layer over land and shallow water.<br>Land + Sea: Select to display the full satellite layer. |

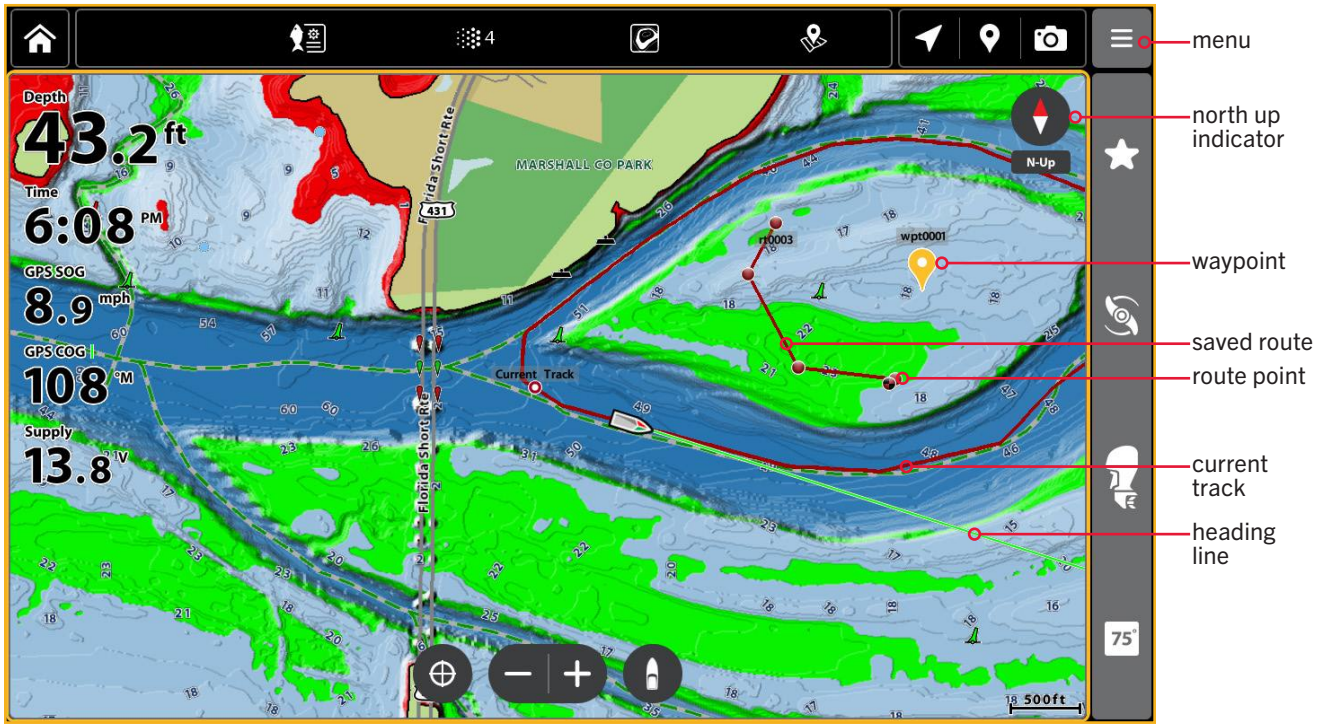
**2D Map View (Navionics)**



# INTRODUCTION TO NAVIGATION

Your fish finder allows you to mark waypoints, create a route, and start navigating. Waypoints, routes, and tracks can be managed on-screen so you can save your favorites, edit names, and easily return to your favorite destinations. There are many ways to start navigation or edit navigation data with your fish finder. The instructions in this section review navigation features on the Map View. To use navigation features from the My Data tool, see ***Manage your Navigation Data***.

**Map View with Waypoints, Routes, Tracks**




**NAVIGATION X-PRESS MENU ›**

The Navigation X-Press Menu allows you to start a Quick Route, navigate to a cursor, route or point, draw and navigate and initiate Minn Kota Motor features (if equipment is connected). The Navigation X-Press Menu is only available in the Map View, Sonar Views, or Radar View displayed on-screen with Navigation enabled.

## › Open the Navigation X-Press Menu

1. With a Map View displayed on-screen, tap the Navigation icon in the Top Bar.
2. Select an action from the sub-menu.

OR

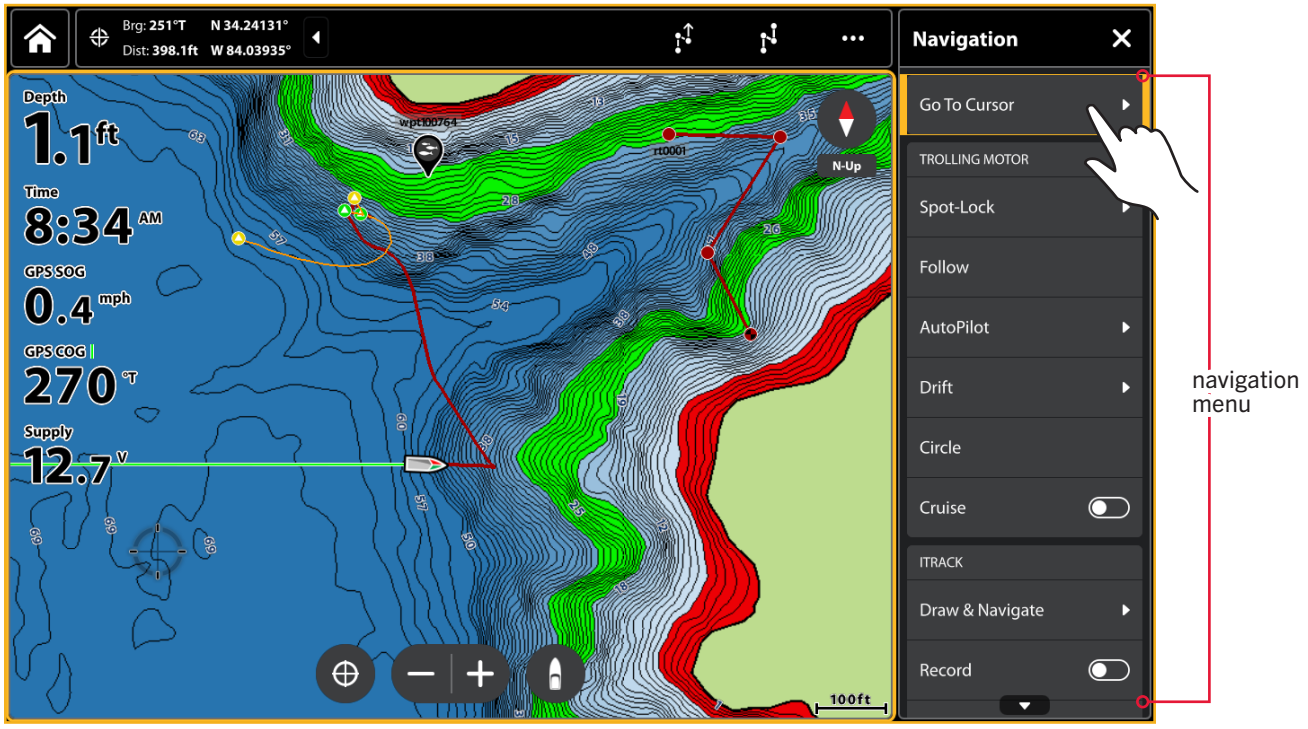
1. With a Map View displayed on-screen, tap the Menu ☰ icon in the Top Bar, or press the MENU ☰ key once.
2. Select Navigation.
3. Select an action from the sub-menu.

OR

1. With a Map View displayed on-screen, press the NAVIGATION key.
2. Select an action from the sub-menu.


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**Using the Navigation Menu**




The following options are available from the Navigation X-Press menu when navigation is not in progress. See Routes for more information about using this menu.

| | |
|---|---|
| **Go To Cursor** | If the cursor is active, navigation will start to the cursor position. |
| **iTrack** | Select to navigate a saved iTrack. |
| **Quick Route** | Select Quick Route to mark quick route points and start navigation. See ***Routes*** for more information. |
| **Nav Data** | Open the My Data tool to select saved navigation data and start navigation. |

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When the Navigation X-Press menu is opened during navigation, additional menu options are available, including the following:

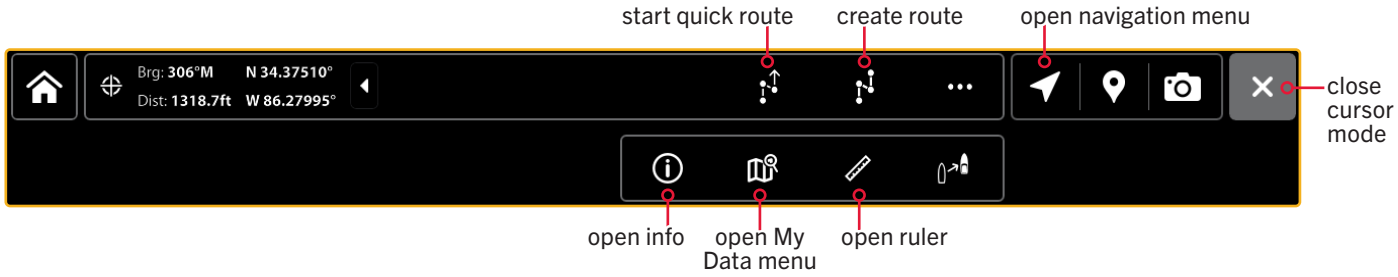
| | |
|---|---|
| **Cancel Navigation** | Select Cancel Navigation to cancel navigation with the fish finder. |
| **Restart Course** | Select Restart Course to start navigation from the current vessel position instead of from the first route point. The fish finder will recalculate navigation to the next closest point in the route. This is helpful if the boat has navigated off course from the current route. |
| **Next Point** | Select Next Point to skip the current point and navigate to the next route point in the route. |
| **Reverse Route** | Select Reverse Route to reverse the currently navigated route. Navigation will start from the vessel position and continue in the opposite order. |

## CURSOR MENU

The Cursor menu is another way to use the touch screen to open the Navigation X-Press menu, create a route, or start a search. The Cursor menu is only available with the 2D Map View, Sonar Views, or Radar View displayed on-screen.

## Open the Cursor Menu

1. Tap a position on the Map View to activate the cursor, or use the Cursor pad/Joystick, to move the cursor to a position on the map.




| Cursor Menu Options | | |
|---|---|---|
| | **Navigation** | Opens the Navigation X-Press menu to start or change navigation. |
| | **Quick Route** | Starts Quick Route navigation by letting you to connect route points and waypoints and start navigation immediately. |
| | **Mark Route** | Create a route in the Map View and save it for navigation later. |
| | **Ruler** | Open ruler to measure distance between two points. |
| | **Find Nearest** | Search for nearest waypoints, routes, and tracks. |
| | **Info** | Open Map Info menu. |


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**INFO MENU ❯**

Use the Info menu to start a proximity search. If you are using a map card as the map source, you can search lake information.

## ❯ Open the Info Menu

1. With a Map View displayed on-screen, tap the Menu ☰ icon in the Top Bar, or press the MENU ☰ key once.
2. Select Info.
3. Select an action from the sub-menu.

**NOTICE:** If you select a waypoint, route, or track with the cursor, and then press the ENTER key, the Info menu for the selected item will display.

| | |
|---|---|
| **Map Info** | Select Map Info to search the area within a preset range for a variety of data, including cautions, tide stations, current stations, and ports. The available information is determined by the selected map source and the information available in the search area. See ***Search*** for more information. (Navionics only) |
| **Ruler** | Select Ruler to measure the distance between two positions on the view. Press the ENTER key to select the measurement start point. Move the Cursor pad/Joystick to the second selected position, and press the ENTER key to mark the measurement end point. |
| **Lake List** | Select Lake List to search for lakes within a preset range. Minn Kota must be selected as the map source. See ***Search*** for more information. |
| **Find Nearest** | Select Find Nearest to search the closest waypoints, routes, and tracks within a preset range. See ***Search*** for more information. |

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## SEARCH ›

There are many ways to search the area for ports, services, tide stations, current stations, and other points of interest. You can also search the nearest waypoints, routes, and tracks. In many cases, you can also use the Navigation menu to start navigation to your selection. The search options and the search area distance are determined by the selected map source.

### › Search for a Lake

If Minn Kota is selected as the map source, you can search for lakes in the area.

1. With a Map View displayed on-screen, tap the Menu ☰ icon in the Top Bar, or press the MENU ☰ key once.
2. Select Info.
3. Select Lake List.
4. Select an item from the displayed list.

   OR

   To search by name, select Lake Name. Use the on-screen keyboard to enter a name.

### › Find the Nearest Navigation Data

Use the Find Nearest menu to search for the ports, services, tide stations, current stations, and other points of interest.

1. With a Map View displayed on-screen, tap the Menu ☰ icon in the Top Bar, or press the MENU ☰ key once.
2. Select Info.
3. Select Find Nearest.
4. Select an item from the displayed list. Tap the item, or press the ENTER key, to see more information if it is available.
5. To start navigation to your selection, press the NAVIGATION/GO TO key.

   OR

1. Tap a position on the Map View.

   OR

   Use the Cursor pad/Joystick to move the cursor to a position on the Map View.
2. Select Find Nearest in the Cursor Menu.
3. Choose an item from the displayed list. Tap the item, or press the ENTER key, to see more information if it is available.
4. To start navigation to your selection, press the NAVIGATION key.


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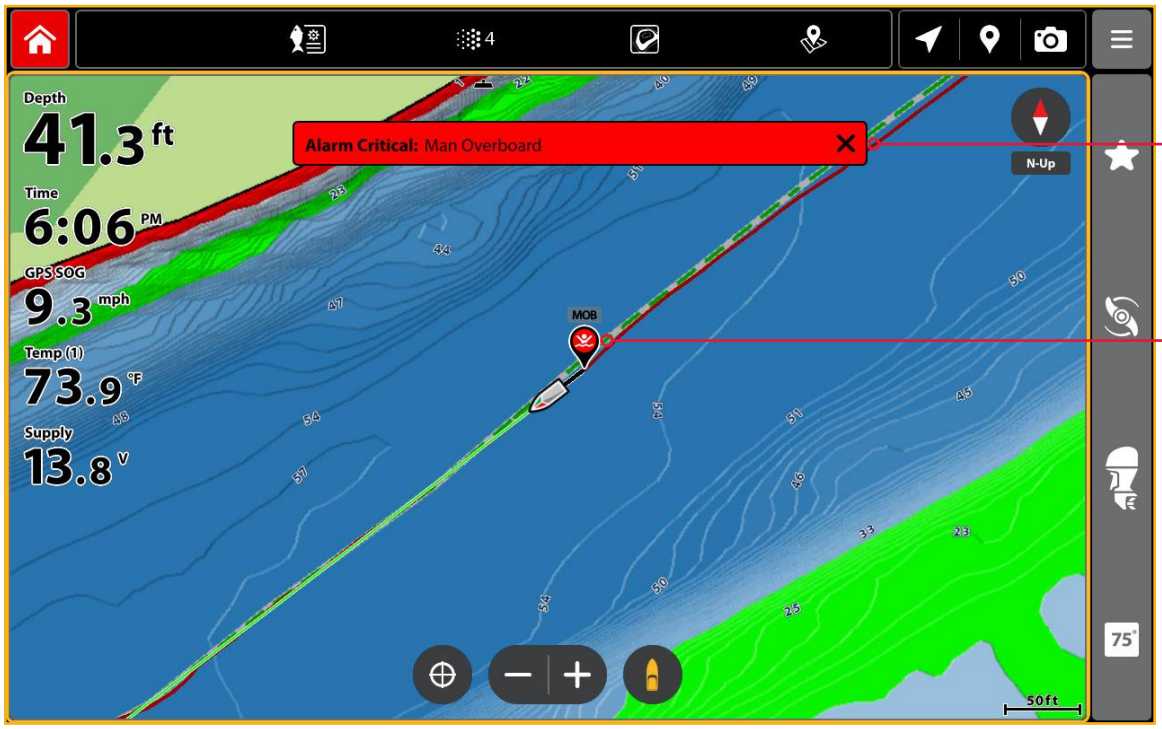
# MAN OVERBOARD (MOB)

As soon as you know that you have a man overboard (MOB), you should activate Man Overboard navigation to maximize the chances for a successful rescue. Man Overboard navigation marks the approximate point where the person went overboard and starts continuous navigation toward the Man Overboard waypoint.

## ACTIVATE MAN OVERBOARD NAVIGATION ❯

1. Press and hold the Man Overboard icon on the Home screen.

**Man Overboard Navigation (in progress)**




When Man Overboard is activated, any current navigation will be canceled and the current route will be discarded without notification. Man Overboard navigation will begin immediately, and you will see the following on the screen:

**Map View:** The view will switch to Map View automatically.

**Man Overboard Waypoint:** A waypoint is created at the vessel's current position, regardless of whether the map cursor is active or not.

**Continuous Navigation:** The fish finder will begin continuous navigation toward the Man Overboard waypoint.

**Auto Zoom:** The screen magnifies to show the Man Overboard waypoint and the vessel on the screen.

**Data Bar:** The data bar will display digital readouts for Man Overboard, including the Distance to Go and Time to Go to the MOB waypoint (DTG + TTG ).

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# MAN OVERBOARD (MOB)

### CANCEL MAN OVERBOARD NAVIGATION ❯

1. Press and hold the Cancel Man Overboard icon from the Home screen.

   OR

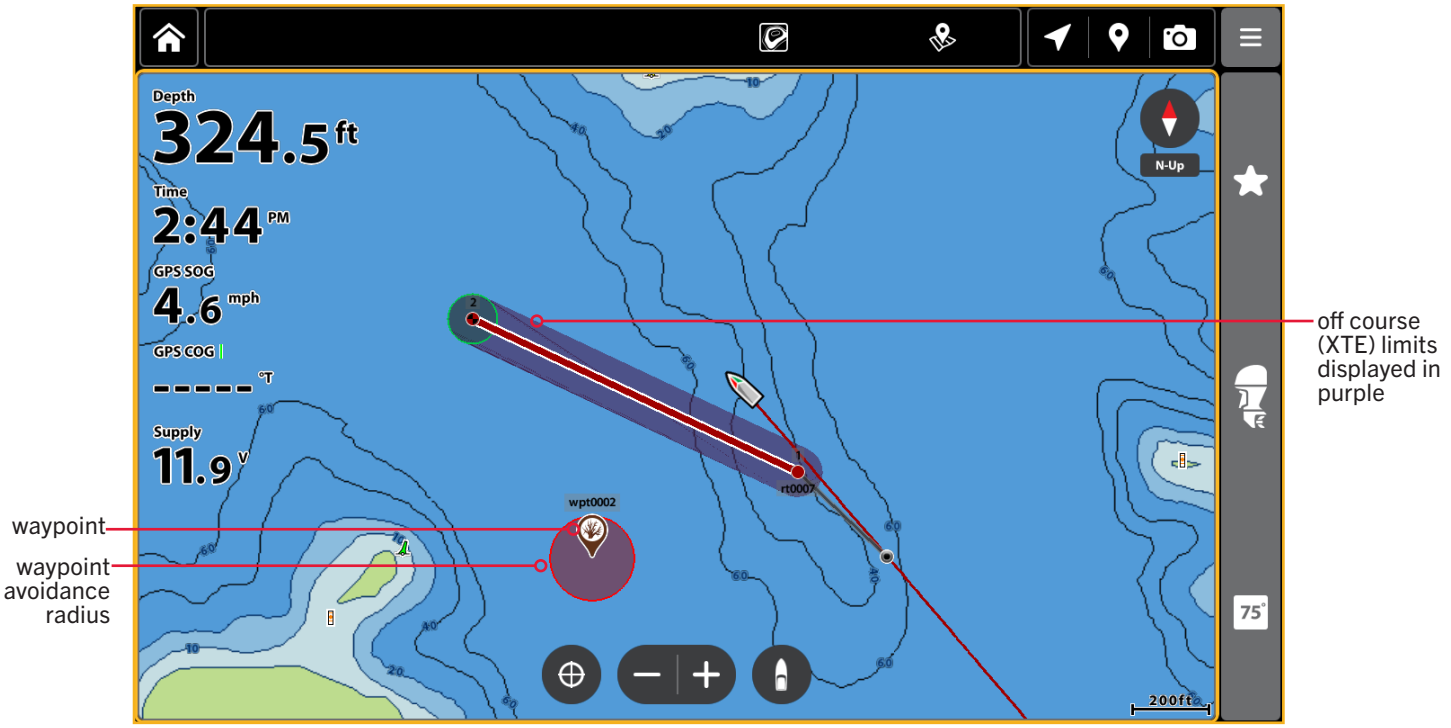
1. With a Map View displayed on-screen, tap the Menu ☰ icon in the Top Bar, or press the MENU ☰ key once.
2. Select Cancel Navigation.


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# NAVIGATION ALARMS

When an alarm is turned on, an alert will sound or display on the fish finder to indicate the threshold has been exceeded. The settings in this section describe how to turn on a Navigation alarm, adjust the threshold, and display the limits on the view if they are available. The alarm options are determined by the map source.

**Map View with Alarm Overlays Displayed**




## OFF COURSE (XTE) ALARM

Turn on Off Course (XTE) to receive an alert if the vessel has traveled outside the selected route. You can also set how far the vessel is allowed to move off course before the alarm is triggered. If the alarm is turned off, the Off Course limit can be displayed on the Map View, but you won't receive an alert if the vessel crosses it.

### Turn on the Alarm

1. From the Home screen, tap the Tools icon.
2. Select Tools.
3. Select Alarms.
4. Select Settings > Navigation.
5. Select Off Course (XTE). Tap the on/off button, or press the ENTER key, to turn it on.

### Adjust the Parameters (optional)

1. From the Home screen, tap the Tools icon.
2. Select Tools.
3. Select Alarms.
4. Select Settings > Navigation.
5. Under Trolling Motor Alarms, select Off Course (XTE) and tap the + / - buttons, drag the slider, or press the + / -keys to set the amount the vessel can move off course.

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## Display the Off Course (XTE) Limit (optional)

1. With a Map View displayed on-screen, tap the Menu icon in the Top Bar, or press the MENU key once.
2. Select Settings > General.
3. Select XTE Limits.
4. Tap the check box, or press the ENTER key, to add a check mark and make it visible on the view.

### ARRIVAL ALARM

Turn on Arrival to receive an alert when the vessel has reached the destination waypoint, route point, or track point. You can also set the Arrival Radius to indicate how close to the destination point the alarm is triggered. If this alarm is turned off, the Arrival Radius will be displayed on the Map View, but you won't receive an alert if the vessel crosses it.

The Arrival Radius also influences navigation. If the Arrival Radius is set to 60 feet from the destination point, the arrival is accomplished at 60 feet from the destination point. If there is another point in the route, navigation will then start to the next point.

## Turn on the Alarm

1. From the Home screen, tap the Tools icon.
2. Select Tools.
3. Select Alarms.
4. Select Settings > Navigation.
5. Select Arrival. Tap the on/off button, or press the ENTER key, to turn it on.

## Adjust the Parameters (optional)

1. From the Home screen, tap the Tools icon.
2. Select Tools.
3. Select Alarms.
4. Select Settings > Navigation.
5. Under Trolling Motor Alarms, select Pre-arrival, tap the on/off button, and tap the + / - buttons, drag the slider, or press the + / -keys to adjust the radius.

### WAYPOINT AVOIDANCE ALARM

Turn on Waypoint Avoidance to receive an alert if the vessel has crossed the Waypoint Avoidance Radius. If the alarm is turned off, the Waypoint Avoidance Radius can be set for a waypoint, and it will be displayed on the Map View, but you won't receive an alert if the radius is crossed.

## Turn on the Alarm

1. From the Home screen, tap the Tools icon.
2. Select Tools.
3. Select Alarms.
4. Select Settings > Navigation.
5. Select Waypoint Avoidance. Tap the on/off button, or press the ENTER key, to turn it on.


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## Create an Avoidance Waypoint

1. See ***Waypoints: Set the Waypoint Radius and Avoidance*** to identify a waypoint for avoidance.

**ANTI-COLLISION ALARM**

If Navionics is selected, and the Anti-Collision alarm is turned on, an alert will be provided based on potential dangers detected in the map data ahead of the vessel, such as land, rocks, and restricted areas. You can also select Anti-Collision Objects and how far in front of the vessel the area will be scanned based on distance or time.

**NOTICE:** Navionics must be selected as the map source to enable this feature.

## Turn on Anti-Collision

1. From the Home screen, tap the Tools icon.
2. Select Settings.
3. Select My Boat > Navigation Settings.
4. Select Settings > Navigation.
5. Select Anti-Collision. Tap the on/off button, or press the ENTER key, to turn it on.

   Use the Anti-Collision default settings, or use the menus in this section to set how the area is searched (Search Parameters, Search (Time) or Search (Distance), and Anti-Collision Objects).

## Turn on Anti-Collision Alarm

1. From the Home screen, tap the Tools icon.
2. Select Tools.
3. Select Alarms.
4. Select Settings > Navigation.
5. Select Anti-Collision Alarm. Tap the on/off button, or press the ENTER key, to turn it on.

## Display the Anti-Collision Overlay

When the overlay is turned off, the scan area is shown only when a danger is detected.

When the overlay is turned on, the scan area is displayed at all times. When a potential danger is detected, the scan area will turn red.

1. With a Map View displayed on-screen, tap the Menu ☰ icon in the Top Bar, or press the MENU ☰ key once.
2. Select Settings > Overlays > Vessel.
3. Select Anti-Collision.
4. Tap the check box, or press the ENTER key, to add a check mark and make it visible on the view.

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# INTELLIGENT DEPTH CONTROL

Intelligent Depth Control (IDC) is a feature that detects depth changes, alerts you immediately, and if configured, automatically engages Spot-Lock® and deploys your shallow water anchors.

IDC requires a Minn Kota fish finder, an Advanced GPS trolling motor and sonar/depth transducer on the Minn Kota integrated system. Shallow water anchors can optionally be connected to physically anchor the boat when the IDC threshold is met. In addition, the IDC status is displayed on the fish finder, trolling motor remote control and Minn Kota Fishing App.

## ⚠ WARNING

All electronic chart data and features, from memory or external digital media, should not be used as a navigational aid to prevent collision, grounding, boat damage, or personal injury. They are aids to navigation designed to facilitate the use of government charts, not to replace them.

This product provides general route guidance only. Always rely on official charts and current water conditions.

Any automated navigation modes require the captain of the vessel to continue to maintain watch and ensure proper and safe navigation at all times.

The vessel's captain is responsible for safe, lawful operation, maintaining a vigilant watch, and preventing damage or injury.

## 1 | SET UP INTELLIGENT DEPTH CONTROL ON THE FISH FINDER ❯

When an Advanced GPS trolling motor is connected to your compatible Minn Kota fish finder, a Trolling Motor Setup Guide is launched. Complete the Trolling Motor Setup Guide on the fish finder connected to the preferred depth source to set up the IDC threshold. This setup can be completed configured later in Network + Devices.

The Trolling Motor Setup Guide is divided into two sections: 1) General Setup and 2) Intelligent Depth Control.

1. When the Trolling Motor Setup Guide is launched, complete or skip the General Setup section.
2. Tap the next arrow on Intelligent Depth Control Trolling Motor Setup.
3. Under Set Depth Threshold, tap the + / - buttons to set the depth threshold, and tap the next arrow.
4. Under Depth Source, select Auto or specify which depth source you would like to use, and tap the next arrow.
5. Under Water Level Offset, use the + / - buttons to set the water level offset. Tap the next arrow.
6. Under Anchor Mode, select if you want IDC to activation to initiate Spot-Lock or Spot-Lock and Shallow Water Anchor. If you select Spot-Lock and Shallow Water Anchor, the system will walk you through connecting your shallow water anchors.
7. Review the IDC Status Icons and tap the check mark to confirm setup.

## 2 | TURN ON INTELLIGENT DEPTH CONTROL ❯

Once IDC has been set up, the user can enable or disable IDC when the Minn Kota system detects all of the following: a deployed trolling motor, a valid GPS fix, a connected fish finder, and an available sonar depth source.

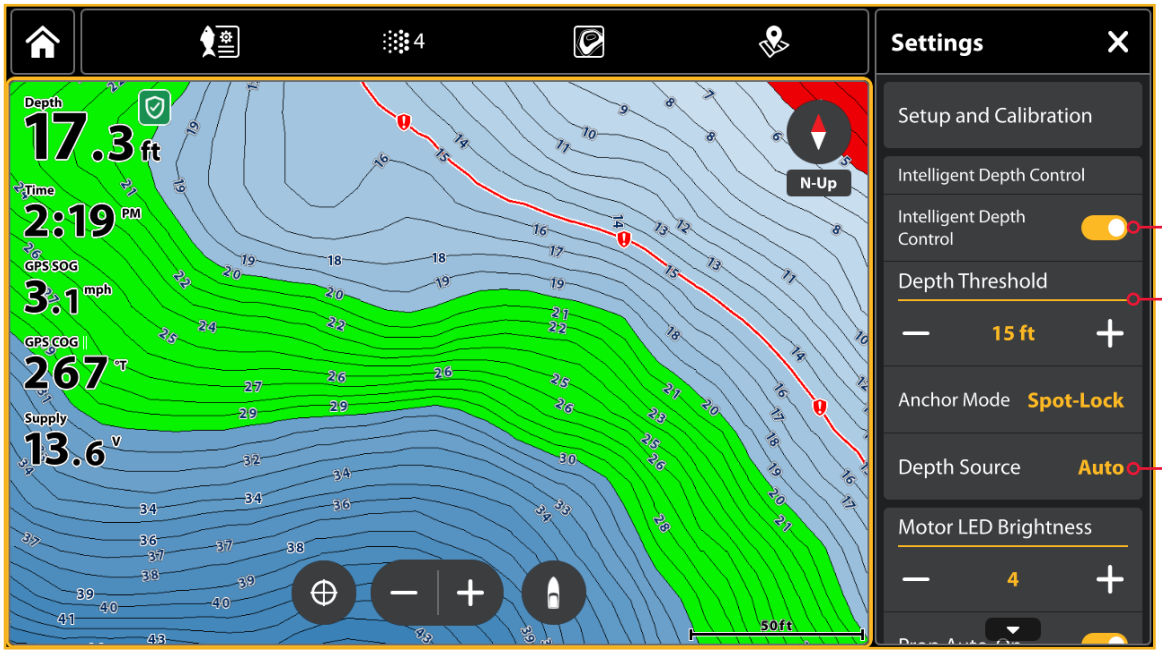
1. Open the Trolling Motor Virtual Remote.
2. Select Settings.
3. Under Setup and Calibration, select Intelligent Depth Control.

   **On/Off:** Tap the on/off button, or press the ENTER key, to turn it on

   **Adjust:** Tap the + / - buttons to change the shallow water depth threshold.
4. Tap Anchor Mode and select one of the following options: Spot-Lock or Spot-Lock and Shallow Water Anchor.
5. Tap Depth Source to turn Depth Source Auto-Configure on/off.
6. Exit the Settings menu. The IDC Armed icon will display on all screens.


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**Setting the Intelligent Depth Control Threshold**




## 3 | REVIEW INTELLIGENT DEPTH CONTROL STATUS AND ACTIONS ❯

When IDC is turned on and ready, notification appears on all networked fish finder displays. Review the different IDC states and what actions are initiated.

| Intelligent Depth Control (IDC) Status | |
|---|---|
| **IDC Off** | IDC is turned off by default. IDC is not monitoring or active. |
| **IDC On (Disarmed)** | IDC is on but not actively armed due to conditions (e.g., the motor is turned off, the current depth is already shallow). IDC will disarm whenever manual motor control from the fish finder, foot pedal, remote or mobile app is initiated. |
| **IDC On (Armed)** | IDC is turned on and all conditions are nominal. IDC is continually monitoring depth in the background and is poised to engage as configured. A green activation icon is displayed on all networked fish finders. |
| **Pre-Alarm** | When the water depth is about to hit the shallow water threshold, IDC enters a pre-alarm phase. A red pre-alarm visual alert displays on all fish finder screens and an audible beep sounds indicating that the boat is about to hit shallow water and allowing the user to ignore or continue with automatic intervention. |
| **Active Alarm** | When the water depth becomes shallower than the threshold, IDC triggers the alarm and takes control of the boat by engaging Spot-Lock or Spot-Lock and Shallow Water Anchors (if configured). In order for a shallow water anchor to be deployed, the SOG must be less than 3 mph and the DTG must be less than 3 feet.<br>The red Active Alarm notification is displayed on all fish finders, mobile app and the remote. The trolling motor's control head LED glows red and the foot pedal autopilot LED is illuminated. |

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## Pre-Alarm

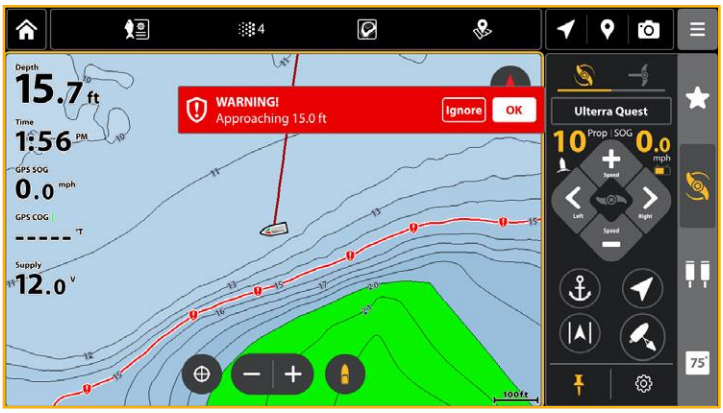
When the system is within 1 foot of the IDC thresold, the Pre-Alarm notifies the user with a pop-up message and audio beep. The user can select to ignore or confirm the Pre-Alarm.

- **Ignore:** Select Ignore. Navigation continues in its current state and the system will remain unarmed until the user returns to deeper water to reset IDC.
- **OK:** Select OK or provide no action. The Pre-Alarm stays triggered until the system enters the IDC threshold and the IDC Alarm is activated.

**IDC Armed**



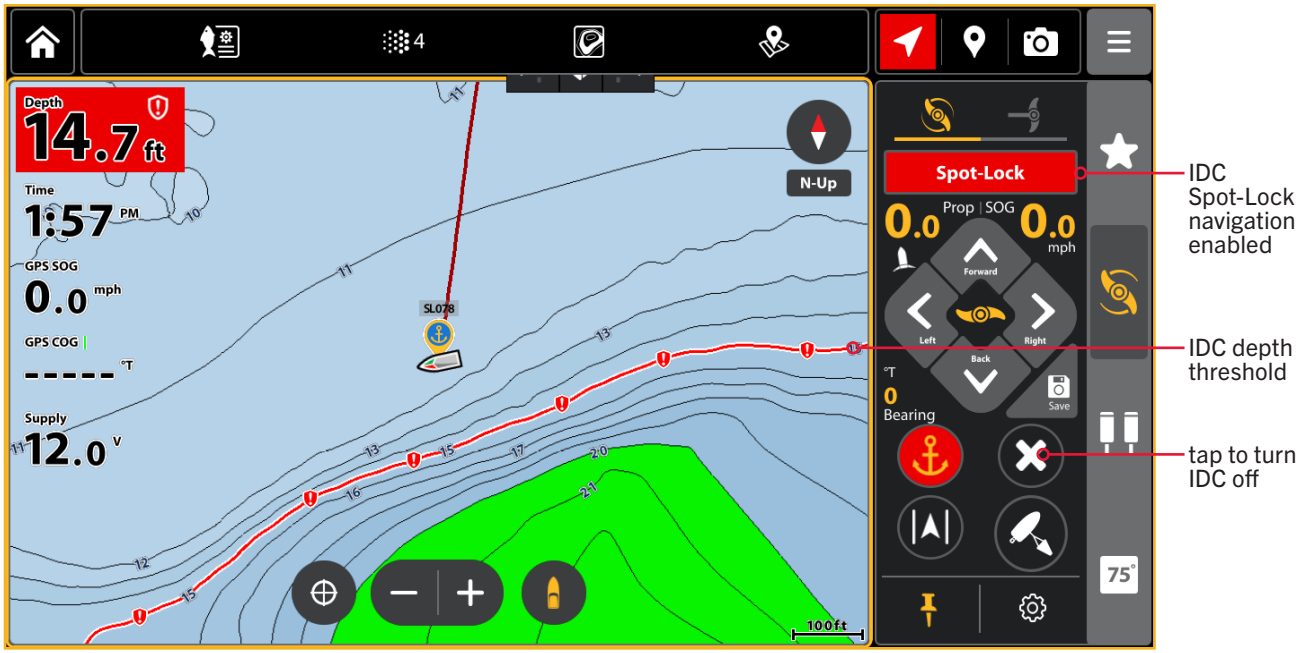

**IDC Pre-Alarm Message**




## IDC Alarm

When the IDC Alarm is activated, the system will immediately engage Spot-Lock on the trolling motor to hold the boat's current GPS position, and if configured, the shallow water anchors will deploy. The IDC Activated Alarm notification will remain on all devices.

**Active IDC**





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## 4 | CANCEL INTELLIGENT DEPTH CONTROL ❯

The user can override Intelligent Depth Control at any time. When IDC is cancelled, the Spot-Lock is turned off and the trolling motor returns to manual control. If shallow water anchors are configured, the anchors will stow automatically. All alarm indicators are cleared and IDC remains on but disarmed until the boat moves back into deeper water.

Use one of the following methods to override or cancel IDC:

1. Manually steer with the fish finder, foot pedal, remote, or app.

   OR

1. Select Cancel on the Alarm pop-up.

   OR

1. Cancel Navigation.

## 5 | RE-ARM INTELLIGENT DEPTH CONTROL ❯

IDC will automatically re-arm when one of the following conditions take place:

- The water depth becomes 2 feet deeper than the IDC threshold.
- There are no manual inputs to the trolling motor for a minimum of 5 seconds. Any manual input will reset the timer.

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# WAYPOINTS

Waypoints are saved latitude/longitude positions. They mark a position of interest such as your favorite fishing area, structure, or marker buoy. The fish finder saves the position and allows you to edit the waypoint name, icon, and more (see ***Manage your Navigation Data***). You can save 10,000 waypoints to the fish finder.

## MARK WAYPOINTS ›

Waypoints can be marked at the vessel position or cursor position. To edit the waypoint, see ***Edit a Waypoint in the Map View*** or ***Manage your Navigation Data***.

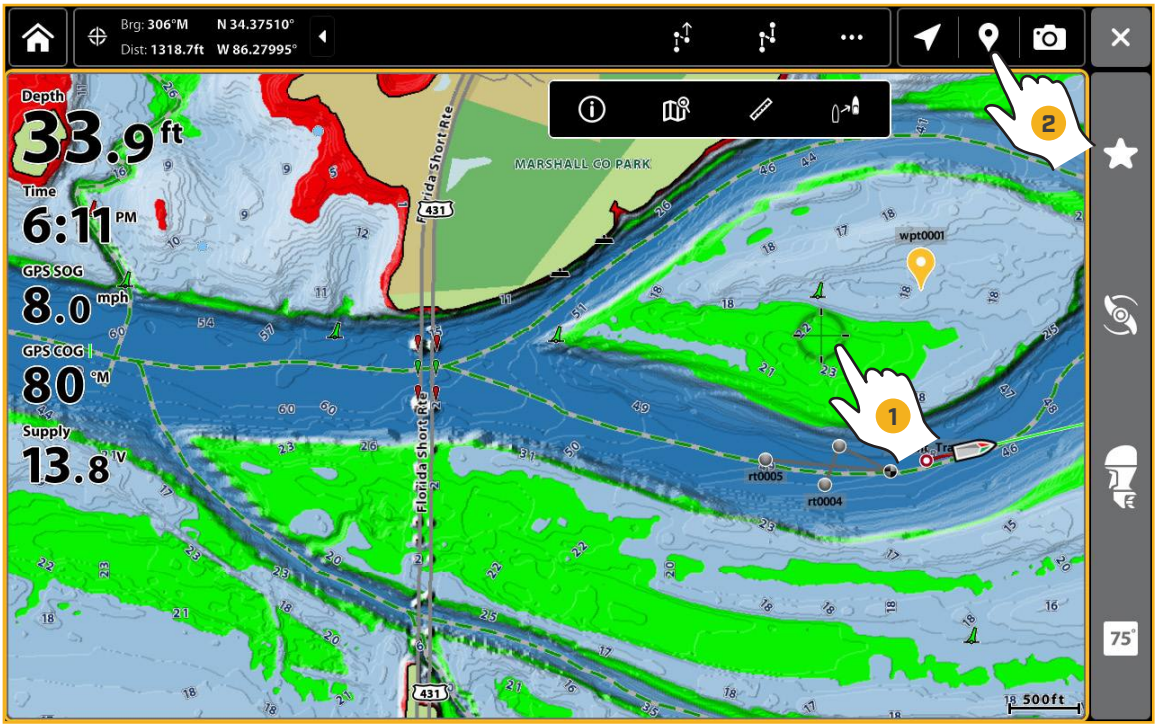
### › Mark a Waypoint at the Vessel Position

1. With a Map View displayed on screen, tap the Mark icon in the Top Bar or press the MARK key.
2. Select a waypoint color icon and color from the Favorites menu.

### › Mark a Waypoint at the Cursor Position

1. Tap a position on the Map View to activate the cursor, or use the Cursor pad/Joystick to move the cursor to a position on the map.
2. Tap the Mark icon in the Top Bar or press the MARK key.
3. Select a waypoint color icon and color from the Favorites menu.

**Marking a Waypoint at the Cursor Position**





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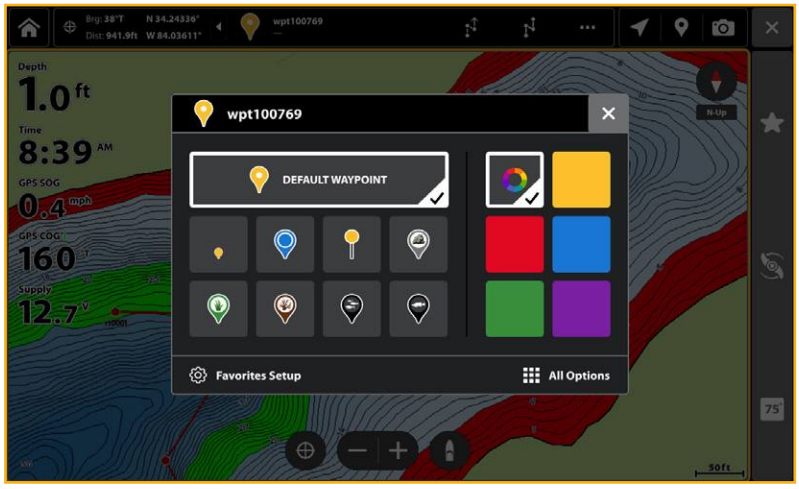
## Mark a Waypoint at the Vessel Position

Use the instructions in this section to preset your favorite icon and color. When you mark a waypoint, you will be given the menu options from your favorite settings to edit the waypoint.

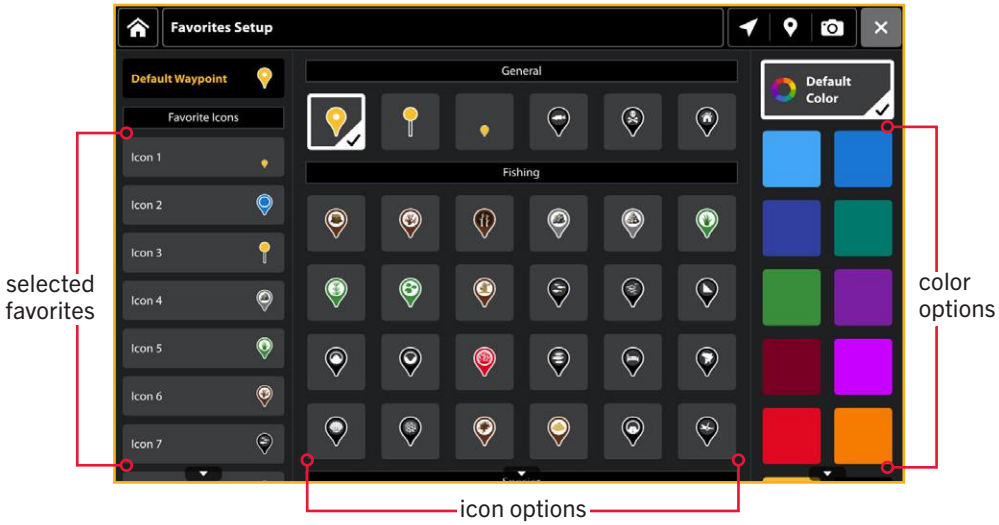
1. Tap the Mark icon in the Top Bar or press the MARK key.
2. Select Favorite Setup.
3. Tap an icon and color or use the Cursor pad/Joystick to make your selections.

| Editing Options for Favorite Waypoint Settings | |
|---|---|
| **Icon** | Select 5 icons to be your favorite icons. The icons are grouped by category. |
| **Color** | Select 5 colors to be your favorite colors. |

**Favorites Setup**




**Setting Favorites**



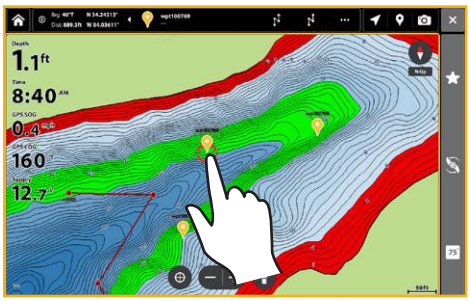

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# WAYPOINTS

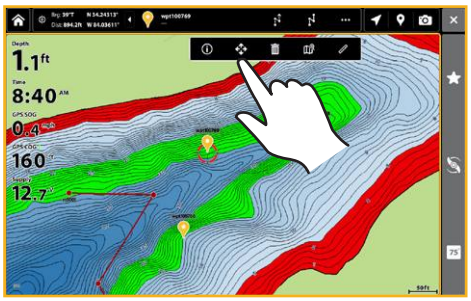
## MOVE A WAYPOINT IN THE MAP VIEW ❯

1. Tap a waypoint on the map, or use the Cursor pad/Joystick to move the cursor to a waypoint on the map.
2. Tap the More icon ••• in the Cursor menu.
3. Tap Move ✥.
4. Tap a new position on the map, or use the Cursor pad/Joystick to move the waypoint to a new position.
5. Tap the Check icon ✓ or press the ENTER key to confirm the new position.

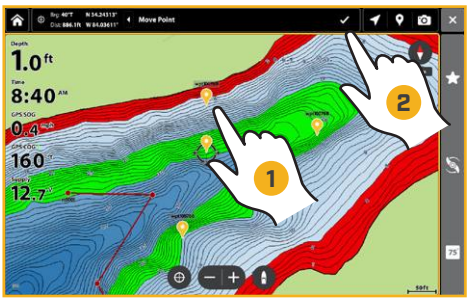
**Selecting a Waypoint**



**Selecting Move from the Cursor Menu**

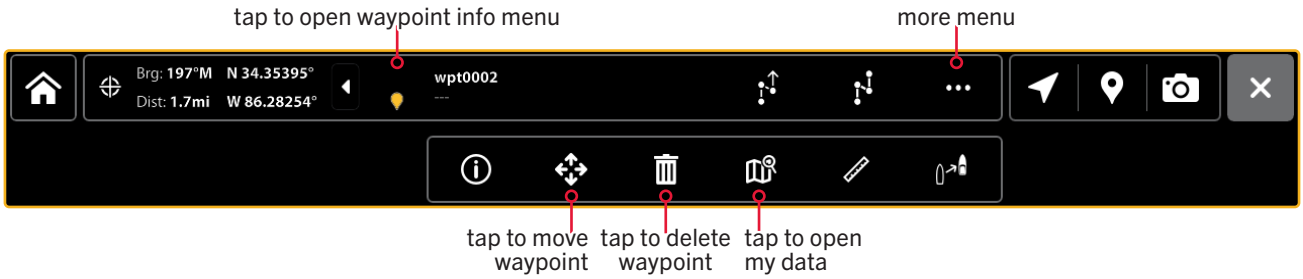


**Moving the Waypoint**




## EDIT A WAYPOINT IN THE MAP VIEW ❯

1. Tap a waypoint on the map, or use the Cursor pad/Joystick to move the cursor to a waypoint on the map. The waypoint icon, name and depth will display in the Top Bar.
2. Tap the waypoint in the Top Bar to open the Waypoint Info menu.
3. Edit the waypoint name, icon, color, and more (see ***Manage your Navigation Data*** for more information).
4. **Close:** Press the EXIT key.





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## SET THE WAYPOINT AVOIDANCE RADIUS ❯

An avoidance radius can be set around a selected waypoint. A radius will be highlighted around the waypoint. To receive an alarm when the waypoint avoidance radius has been crossed, turn on the Waypoint Avoidance Alarm (see ***Navigation Alarms***).

1. Tap a waypoint on the map, or use the Cursor pad/Joystick to move the cursor to a waypoint on the map. The waypoint icon, name and depth will display in the Top Bar.
2. Tap the waypoint in the Top Bar to open the Waypoint Info menu.
3. Under Avoidance, tap the check box, or press the ENTER key, to add a check mark to it.
4. Drag the slider, tap the +/- buttons or press the +/- ZOOM key, to adjust the radius setting.
5. **Optional:** To receive an alarm when the radius has been crossed, turn on Waypoint Avoidance in the Navigation Alarms menu (Home > Tools > Alarms > Settings > Navigation > Waypoint Avoidance > On).

## DELETE A WAYPOINT IN THE MAP VIEW ❯

1. Tap a waypoint on the map, or use the Cursor pad/Joystick to move the cursor to a waypoint on the map.
2. Tap the More icon ●●● in the Cursor menu.
3. Select Delete 🗑.

## DRAW TO SELECT ❯

Use the Draw to Select feature in Map View to freehand draw around waypoints to select multiple waypoints at one time.

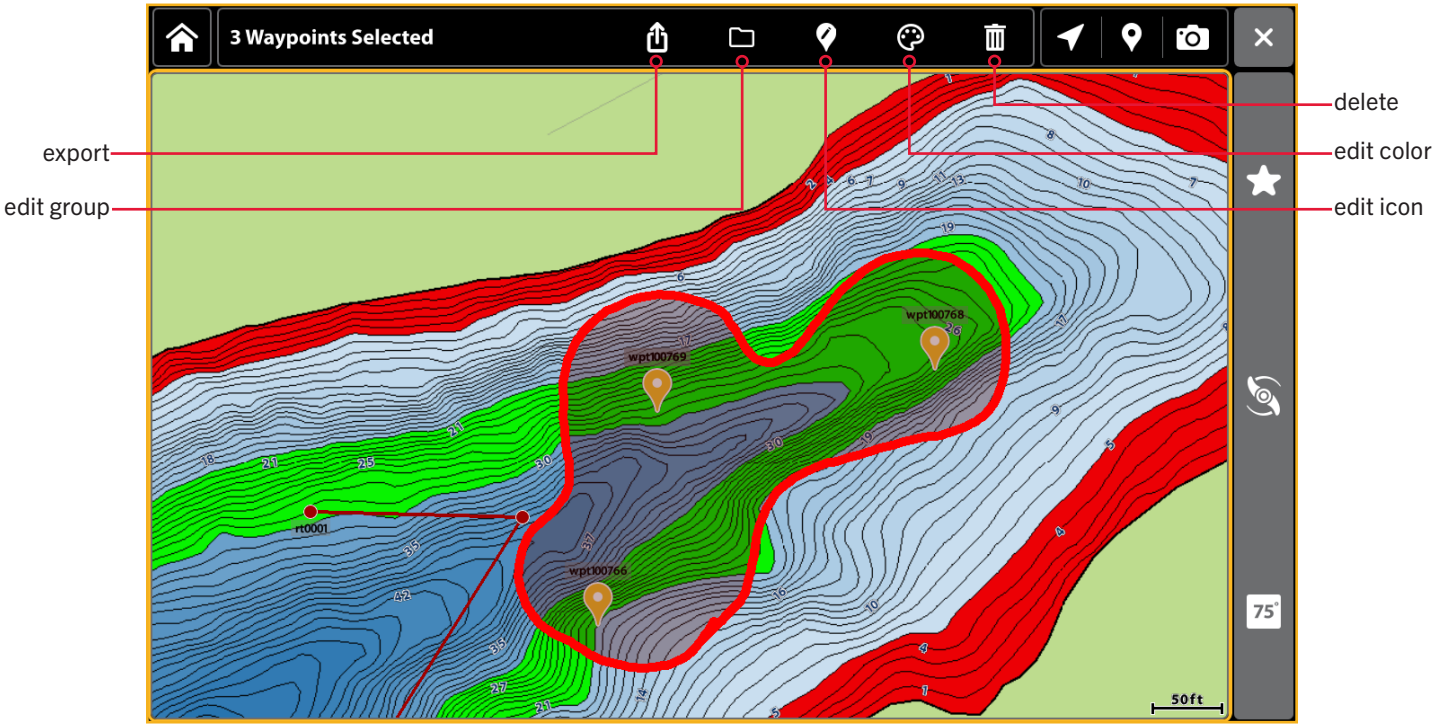
1. With a Map View displayed on-screen, tap the My Data icon  in the Top Bar.
2. Tap Draw to Select.
3. Use the touchscreen to draw around the waypoints you want to select. The drawn area will be outlined in red.
4. Select an action from the Top Bar.

| Editing Options for Selected Waypoints | | |
|---|---|---|
|  | **Export** | Transfer data to a selected SD card or to the Minn Kota Fishing App. |
|  | **Edit Group** | Select an existing group or create a new group. |
|  | **Edit Icon** | Select a new icon for all of the selected waypoints. |
|  | **Edit Color** | Select a new color for all of the selected waypoints. |
|  | **Delete** | Delete all of the selected waypoints. |

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# WAYPOINTS

**Map Objects (Navigation Menu)**





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# ROUTES



Routes link two or more points together to create a path for navigation. A route represents your intended navigation and shows the shortest path from each data point to the next. The distance between each route point is a route leg. You can save 200 routes to the fish finder.



Route Points are stored latitude/longitude positions that connect to form route navigation.



Route Start Point



Route End Point

## ⚠ CAUTION

You should always be aware of your surroundings and watch for any potential obstacles.

**QUICK ROUTE NAVIGATION ›**

A Quick Route allows you to connect route points and waypoints and start navigation immediately. A Quick Route can be started with the NAVIGATION key or with the touch screen. Quick Routes can be saved or discarded. To create a saved route, see ***Create a Saved Route*** or ***Manage your Navigation Data***.

## › Start Quick Route Navigation from Navigation X-Press Menu

1. Open the Navigation X-Press Menu: With a Map View displayed on-screen, tap the Menu ☰ icon in the Top Bar, or press the MENU ☰ key once. Select Navigation.

   OR

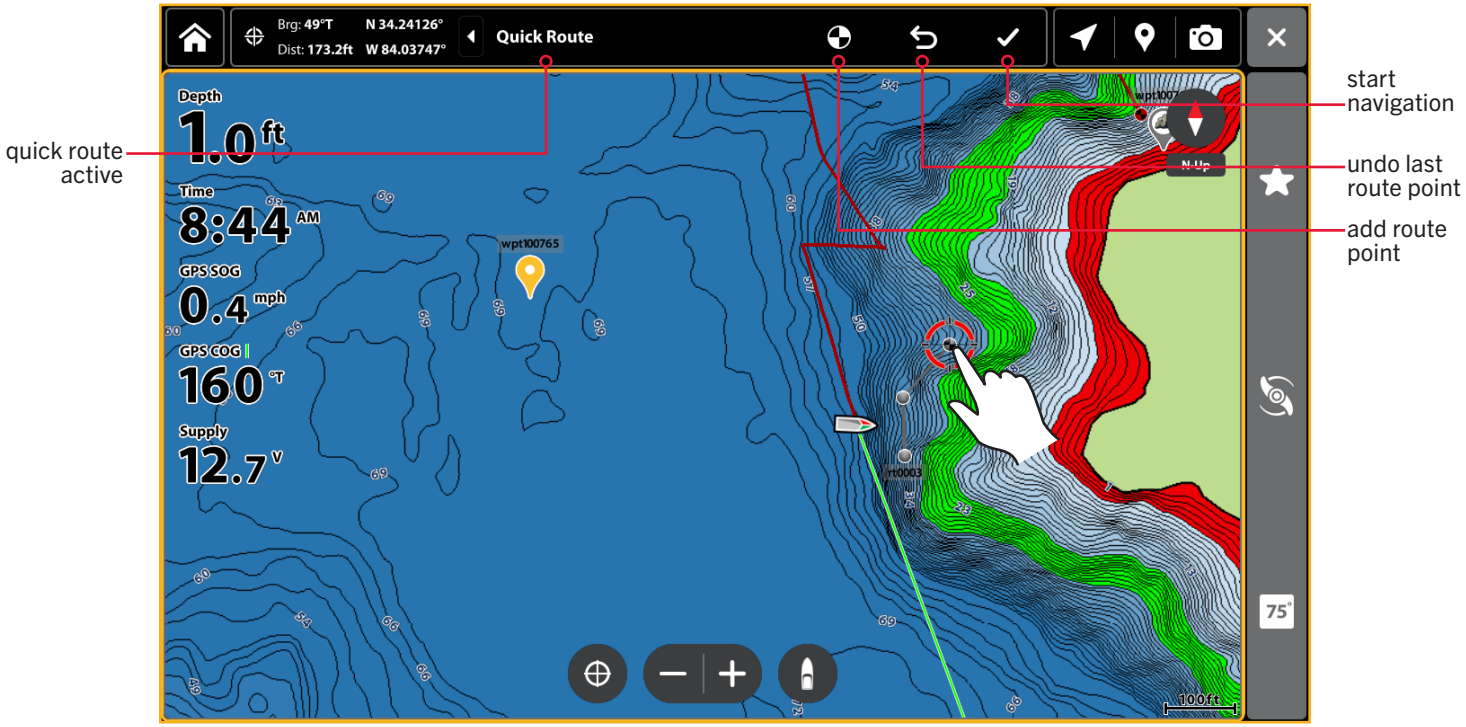
   With a Map View displayed on-screen, press the NAVIGATION key.
2. Select Quick Route.
3. Tap points on the screen to add route points. Use the Route Point icon ◓ or Back icon ⮌ to make changes. Select the Check icon ✔ when complete. Navigation will begin.

## › Start Quick Route Navigation from Cursor Menu

1. Tap a waypoint on the map, or use the Cursor pad/Joystick to move the cursor to a waypoint on the map. The waypoint icon, name and depth will display in the Top Bar.
2. Tap the Quick Route icon ⇡ in the Cursor Menu.
3. Tap points on the screen to add route points. Use the Route Point icon ◓ or Back icon ⮌ to make changes. Select the Check icon ✔ when complete. Navigation will begin.

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**Marking a Quick Route**




## Change Route Order During Navigation

1. During navigation, tap the Menu ☰ icon in the Top Bar, or press the MENU ☰ key once. Select Navigation.

   OR

   Press the NAVIGATION key.
2. Select one of the following menu options:

   **Restart Course:** Resets navigation to start from the current vessel position to the next point in the route.

   **Next Point:** Skips to the next point in the route.

   **Reverse Route:** Reverses the currently navigated route. Navigation will start from the vessel position and continue in the opposite order.

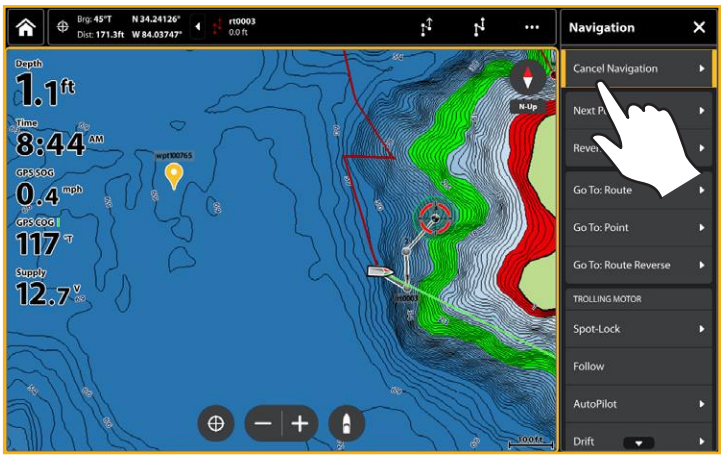
## Cancel Quick Route Navigation

1. During navigation, tap the Menu ☰ icon in the Top Bar, or press the MENU ☰ key once. Select Navigation.

   OR

   Press the NAVIGATION key.
2. Select Cancel Navigation.
3. Select Save Route or Discard Route.

**Canceling Quick Route Navigation**





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## START NAVIGATION TO A SAVED WAYPOINT OR ROUTE

Use the cursor to select a saved waypoint or route point on the Map View, and you can start navigation to it. If you select a route point, you can also choose a navigation order for the selected route.

# Start Quick Route Navigation from Navigation X-Press Menu

1. Tap a waypoint or route point on the map, or use the Cursor pad/Joystick to move the cursor to a waypoint or route point on the map.
2. Tap the Navigation icon in the Top Bar or press the NAVIGATION key.
3. Select Go To: Route or Go To: Point.

   **Cancel Navigation:** Tap the Navigation icon or press the NAVIGATION key. Select Cancel Navigation.

## CREATE A SAVED ROUTE

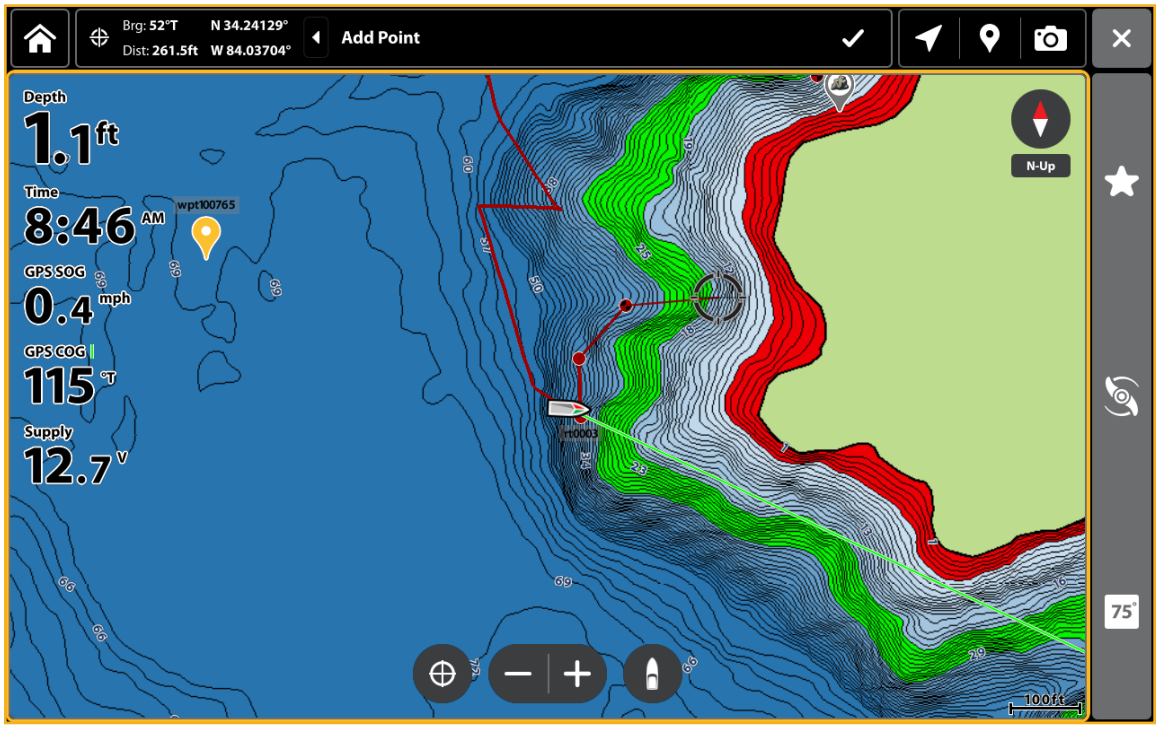
The instructions in this section allow you to create a route in the Map View and save it for navigation later. The steps are similar to creating a Quick Route, but you will use the Mark Route icon in the Cursor menu.

**Save Location:** The route is saved to the My Data tool.

**Navigation:** To start navigation on the route, see ***Start Navigation to a Saved Waypoint or Route***.

**Overlay:** To display saved routes on the Map View, press the MENU key once. Select Map Options > Overlays > Nav Data > Routes (Saved).

**Creating a Saved Route**



## Create a Saved Route

1. Activate the cursor on the map using the touchscreen or cursor pad.
2. Tap the Mark Route icon in the Cursor Menu.
3. Tap points on the screen to add route points. Use the Route Point icon or Back icon to make changes. Select the Check icon to save the route.

### DRAW & NAVIGATE

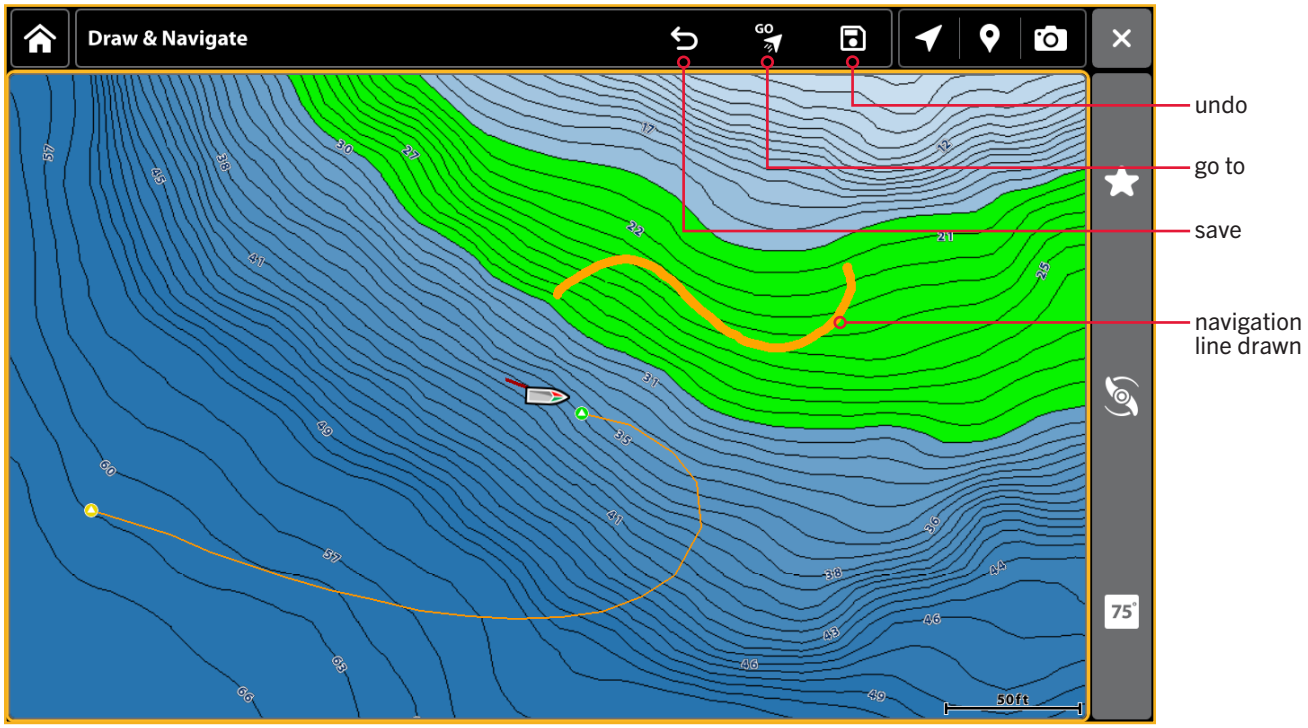
The Draw & Navigate features allows you to draw custom routes on the Map View and start navigation to that route.

1. Tap the Navigation icon in the Top Bar or press the NAVIGATION key.
2. Select Draw & Navigate.
3. Use the touchscreen to draw your route.
4. **Start Navigation:** Tap the Go To icon in the Top Bar to start navigation.

   **Save:** Tap the Save icon in the Top Bar to save the route drawn.

   **Undo:** Tap the Undo icon in the Top Bar to undo the drawing.

**Using Draw & Navigate**





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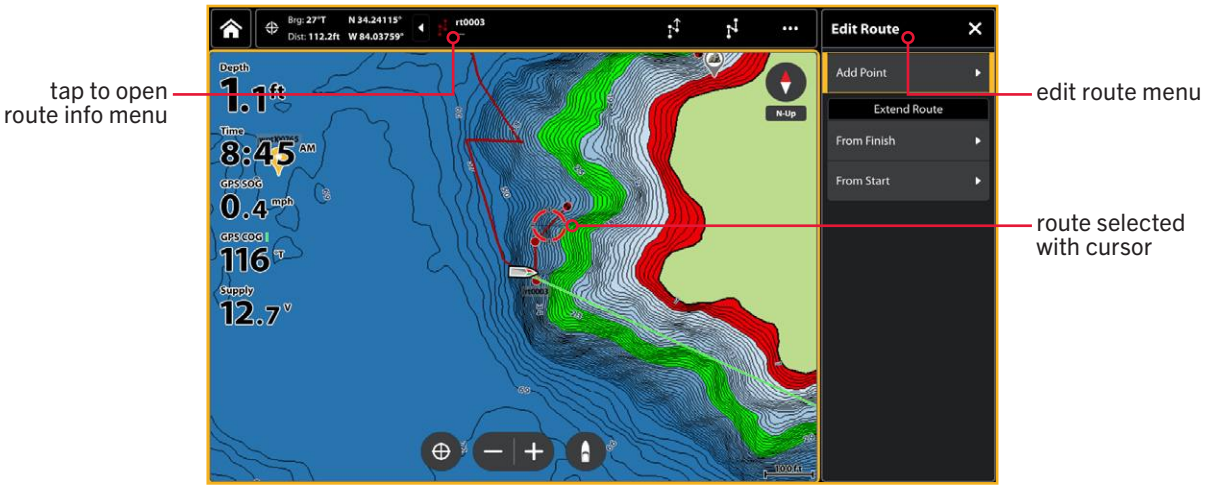
## EDIT A ROUTE IN THE MAP VIEW ❯

1. Tap the route to select it.

   OR

   Use the Cursor pad/Joystick to move the cursor to a route on the map. Press the ENTER key.
2. Use the Route Info menu to edit the route name, color, and more (see ***Manage your Navigation Data*** for more information).
3. **Close:** Press the EXIT key.

**Editing a Route on the Map View**




## ADD OR DELETE POINTS IN A ROUTE ❯

1. Tap the route to select it. Tap the Route Name.

   OR

   Use the Cursor pad/Joystick to move the cursor to a route on the map.
2. Tap the More icon ••• in the Cursor menu.
3. Tap the Edit icon .
4. Select Add Point or Extend Route From Finish or Extend Route From Start.

## DELETE A ROUTE IN THE MAP VIEW ❯

1. Tap the route to select it.

   OR

   Use the Cursor pad/Joystick to move the cursor to a route on the map. Press the ENTER key.
2. Tap the More icon ••• in the Cursor menu.
3. Tap the Delete icon .

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# TRACKS



A track is a collection of track points that contains the vessel's detailed position history at set intervals. The Current Track shows the position history since the fish finder was powered on. Record Track must be turned on to enable this feature (see ***Record a Track***). You can clear the Current Track or save it at any time. To change the track point interval, edit saved tracks, and create track settings, see ***Manage your Navigation Data***. You can save 50 tracks (each with 20,000 track points) to the fish finder.

Start Point

End Point

## SET UP TRACKS ❯

Your fish finder is set to record tracks and display them on the view. Use the instructions in this section if you've changed the fish finder default settings.

### ❯ Record a Track

When Record Track is turned on, the fish finder will save the current track. If Record Track is turned off, the track will not be recorded or saved.

1. Press the HOME key.
2. Select the My Data tool.
3. Select My Data Settings.
4. Select Tracks.
5. Select Record Track. Tap the on/off button, or press the ENTER key, to turn it on.

### ❯ Display Tracks on the Map View

You can display saved tracks or active tracks on the Map View.

1. With a Map View displayed on-screen, tap the Menu icon in the Top Bar, or press the MENU key once.
2. Select Settings.
3. Select Overlays > Nav Data.
4. Add a check mark to Tracks (Active) or Tracks (Saved) to make them visible on the Map View.

**NOTICE:** To set an individual track to visible or hidden, see ***Manage your Navigation Data: Edit a Saved Track***.

## SAVE THE CURRENT TRACK ❯

Use the following instructions to save the current track and start a new track.

1. With a Map View displayed on-screen, tap the Menu icon in the Top Bar, or press the MENU key once.
2. Select Current Track.
3. Select Save Current Track.

**NOTICE:** You can also start a new track from the My Data tool. See ***Manage your Navigation Data: Manage Tracks***.

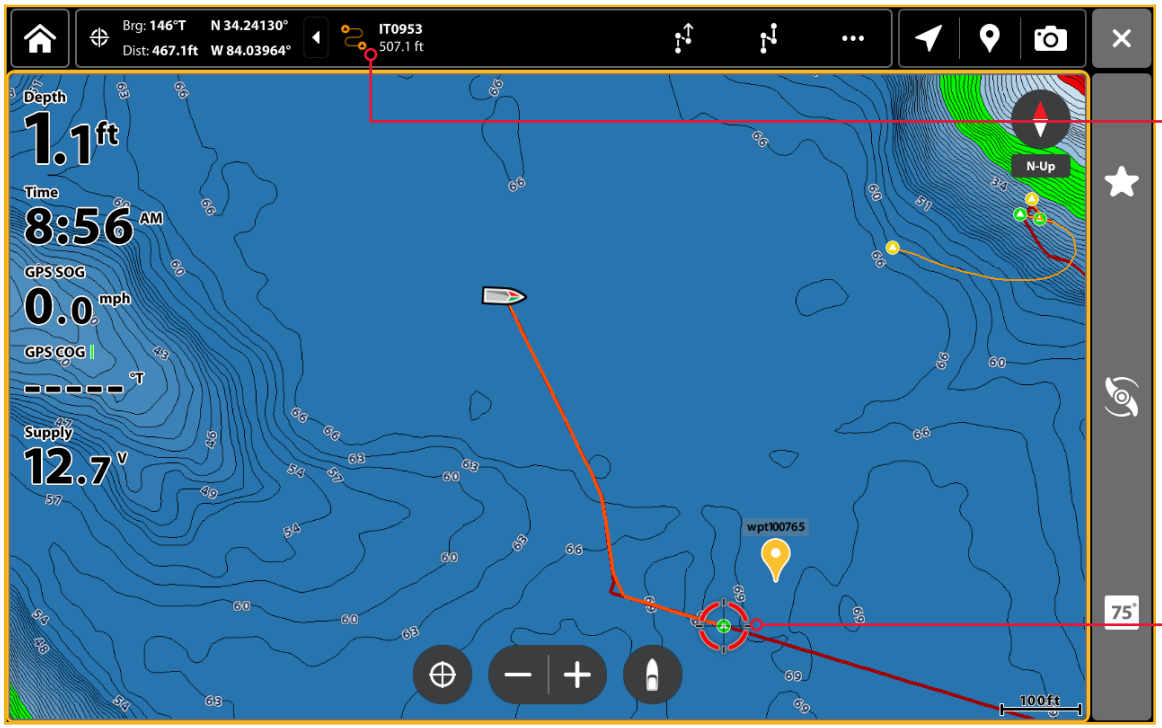

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## CLEAR THE CURRENT TRACK ❯

Use the following instructions to clear the current track and start a new track at the current vessel position.

1. With a Map View displayed on-screen, tap the Menu ☰ icon in the Top Bar, or press the MENU ☰ key once.
2. Select Current Track.
3. Select Clear Current Track.

**Map View with a Track Displayed**




## EDIT A TRACK IN THE MAP VIEW ❯

1. Tap a track start point or end point, or use the Cursor pad/Joystick to move the cursor to a track start point or end point.
2. Tap the Track name in the Top Bar. The Track Info menu will open.
3. Edit the track name, style, color, and more from the Track Info menu.
4. **Close:** Press the EXIT key.

**NOTICE:** To change the default appearance for new tracks, or to change the Track Point Interval, see ***Manage your Navigation Data: Manage Tracks***.

## DELETE A SAVED TRACK ❯

1. Tap a track start point or end point, or use the Cursor pad/Joystick to move the cursor to a track start point or end point.
2. Tap the More icon ••• in the Cursor menu.
3. Tap the Delete icon 🗑.

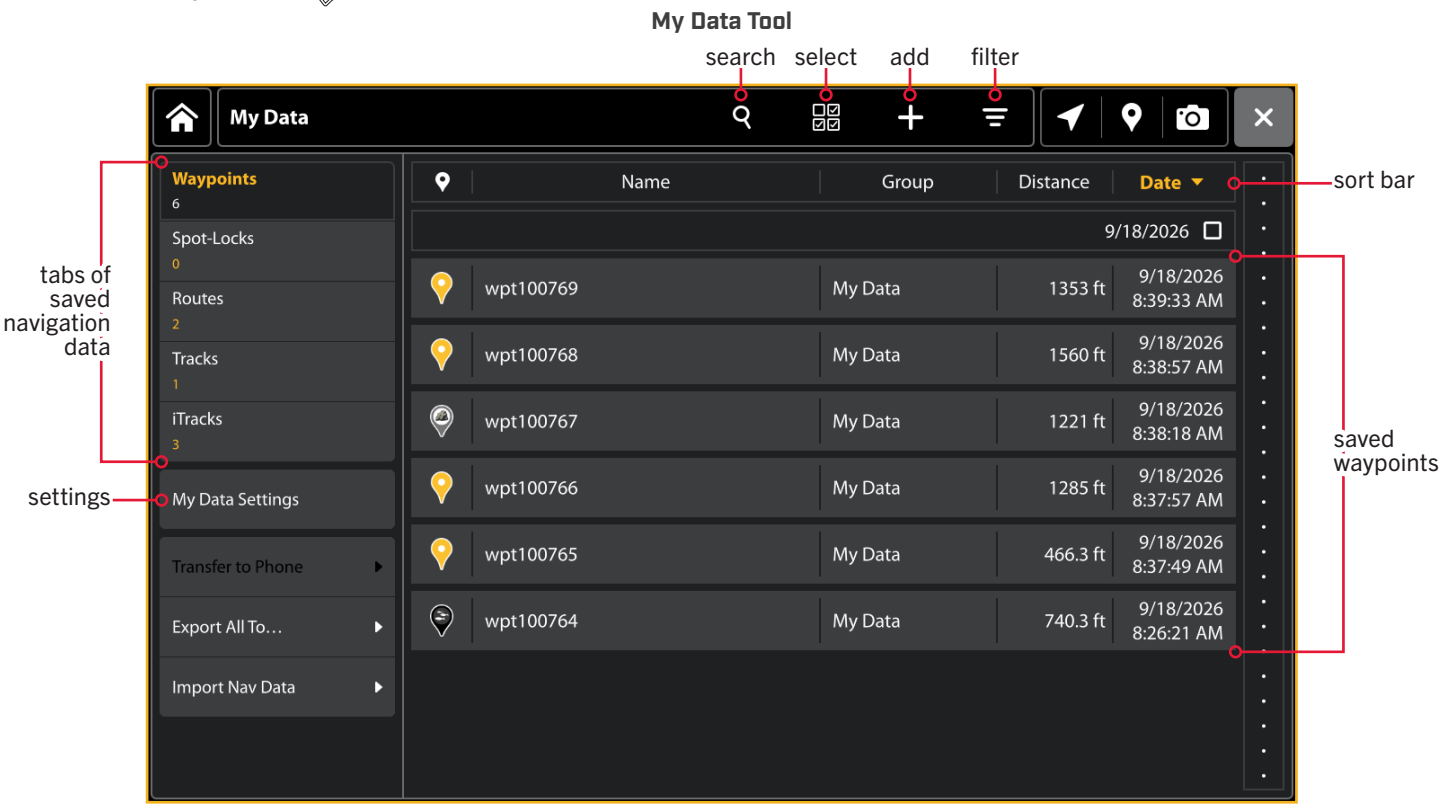
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# MANAGE NAVIGATION DATA

Use the My Data tool to manage your saved waypoints, spot-locks, routes, and tracks. You can edit your saved navigation data and start navigation from this tool.

## Open the My Data Tool

1. Press the HOME key.
2. Select the My Data tool.




## Sort Lists

1. Select a navigation data tab: Waypoints, Spot-Locks, Routes, Tracks or iTracks.
2. Tap a column name, or move the Cursor pad/Joystick and press it on a column name. The first tap will sort the column low to high or A to Z. The second tap will sort it high to low or Z to A.

## Filter Lists

1. Select a navigation data tab: Waypoints, Spot-Locks, Routes, Tracks or iTracks.
2. Tap the Filter icon in the Top Bar.
3. Select a category.

## Select Data

1. Select a navigation data tab: Waypoints, Spot-Locks, Routes, Tracks or iTracks.
2. Tap the Select icon in the Top Bar.
3. Select Select All to select each data point in the list.
4. Select an option from the Top Bar to apply to all selected data.


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## Add

1. Select a navigation data tab: Waypoints, Spot-Locks, Routes, Tracks or iTracks.
2. Tap the Add icon + in the Top Bar.
3. Select one of the following menu options:

| Add Menu Actions | |
|---|---|
| **Waypoint at Position** | Adds a Waypoint at the keyed in latitude and longitude. |
| **Group** | Adds the selected data to a new or existing group. |
| **Import Nav Data** | Transfer data to the selected media. |

## Open the Data Info Menu

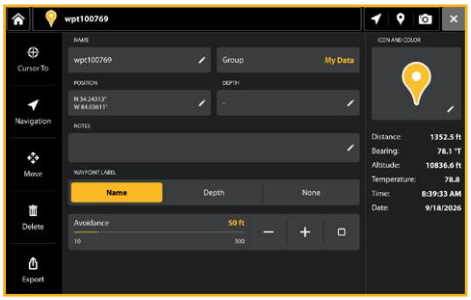
1. Select a navigation data tab: Waypoints, Spot-Locks, Routes, Tracks or iTracks.
2. Tap one of the data points.

## Info Menu Actions

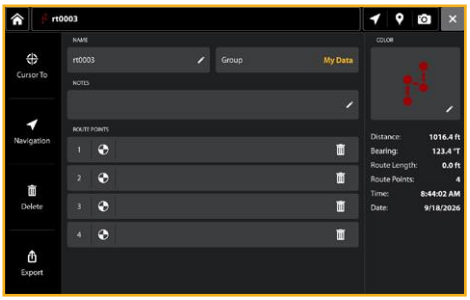
Tapping on a navigation data point will open the Info Menu. Use this menu to edit information about the navigation point and to start one of the following actions:

| Info Menu Actions | |
|---|---|
| **Cursor To** | Select to display cursor at the data point in map view. |
| **Navigation** | Select to start navigation to the selected waypoint, spot-lock, route or track. |
| **Delete** | Select to delete the selected navigation data. |
| **Export** | Select to export navigation data to an SD card or to the Minn Kota Fishing App. |

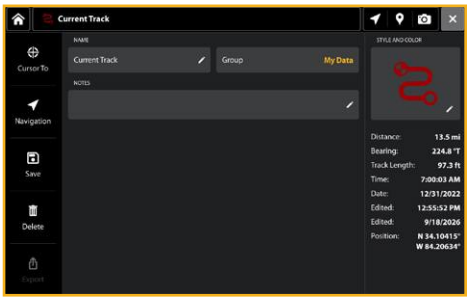
**Waypoint Info Menu**




**Route Info Menu**




**Track Info Menu**




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MANAGE WAYPOINTS ›

## Edit a Waypoint

1. Select the Waypoints tab.
2. Tap a waypoint, or use the Cursor pad/Joystick to select a waypoint and press the ENTER key. The Waypoint Info Menu will open.
3. Select the Edit icon in the field you want to edit.

| Editing Options for Saved Waypoints | |
|---|---|
| **Waypoint Name** | Select the waypoint name and use the on-screen keyboard to change it. |
| **Icon and Color** | Select an icon category (water, fishing, navigation, POI [point of interest], etc.) and select an icon to represent the selected waypoint. Then, select a color to represent the waypoint. |
| **Group Name** | The menu name will vary with the default group name. Select the group name to change where the selected waypoint is saved. See ***Groups*** for more information. |
| **Position** | Use the on-screen keyboard to edit the latitude/longitude position of the waypoint. |
| **Depth** | Use the on-screen keyboard to enter a depth for the waypoint if it was not marked at the vessel position. |
| **Notes** | Use the on-screen keyboard to add notes about the waypoint. |
| **Waypoint Label** | Select if the waypoint should be labeled by name or depth or have no label. |
| **Avoidance** | Add a check mark to the Avoidance box to display the Waypoint Avoidance Radius. Adjust the radius by tapping the +/- buttons or using the slider. |

## Delete a Waypoint

1. Select the Waypoints tab.
2. Tap a waypoint. The Waypoint Info Menu will open.
3. Tap Delete.

OR

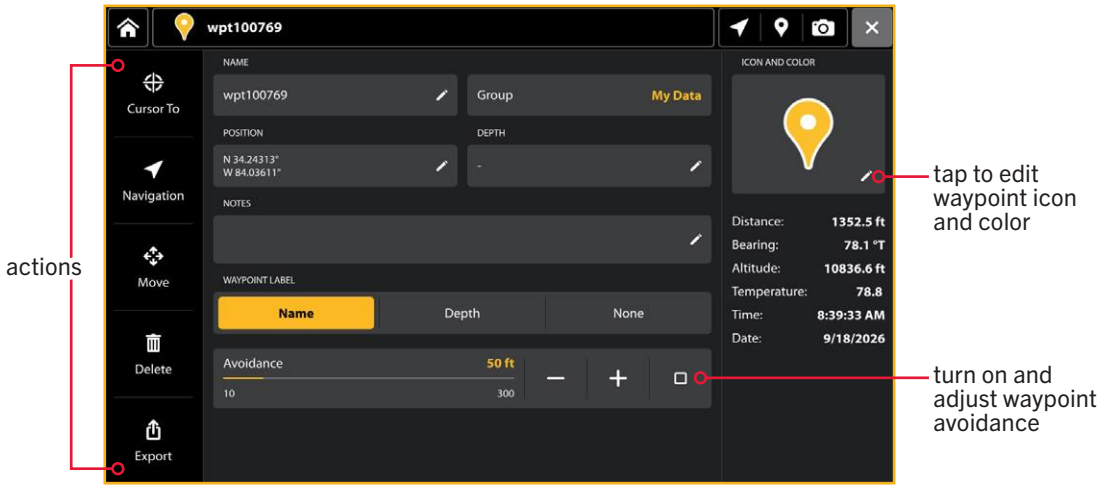
1. Select the Waypoints tab.
2. Tap and hold on a waypoint (or multiple waypoints) to select it. There will be a check mark next to the waypoint.
3. Tap Delete in the Top Bar.

## Navigate to a Selected Waypoint

1. Select the Waypoints tab.
2. Tap a waypoint. The Waypoint Info Menu will open.
3. Tap Navigation.


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**Waypoint Info Menu**




**MANAGE ROUTES ›**

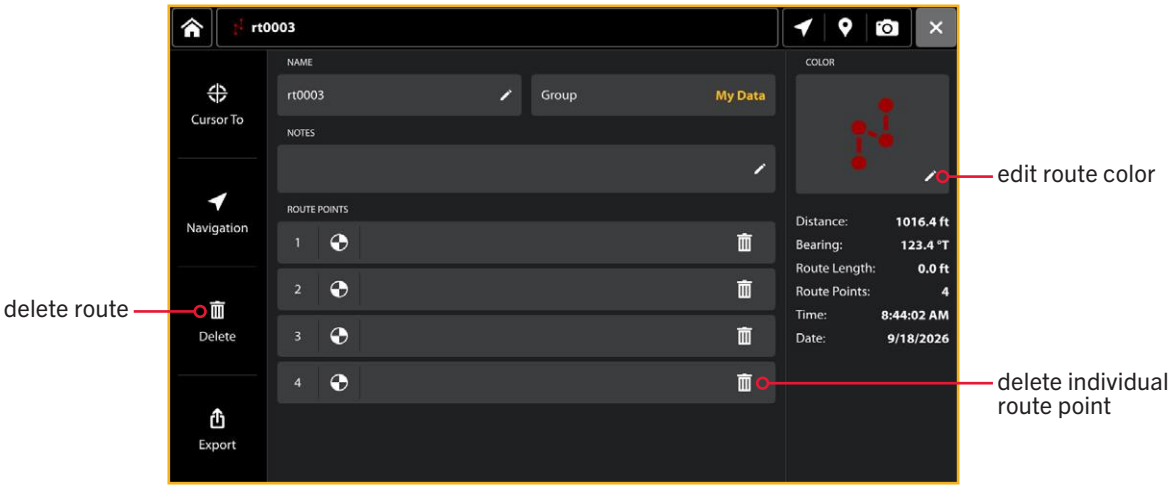
## › Edit a Route

1. Select the Routes tab.
2. Tap a route, or use the Cursor pad/Joystick to select a route and press the ENTER key. The Route Info Menu will open.
3. Select the Edit icon in the field you want to edit.

| Editing Options for Saved Waypoints | |
|---|---|
| **Route Name** | Select the route name and use the on-screen keyboard to change it. |
| **Color** | Select a color to represent the route. |
| **Group Name** | The menu name will vary with the default group name. Select the group name to change where the selected waypoint is saved. See ***Groups*** for more information. |
| **Position** | Use the on-screen keyboard to edit the latitude/longitude position of the waypoint. |
| **Notes** | Use the on-screen keyboard to add notes about the route. |
| **Visibility** | To display the route on the view, select On. To hide the route on the view, select Off. |
| **Route Points** | Tap the Delete icon to delete a specific point in the route. |

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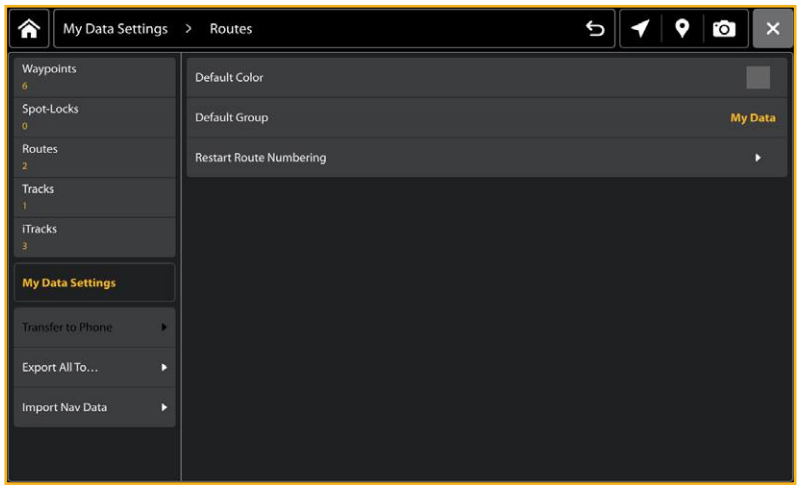
**Changing the View Settings**




## Change Default Settings for New Routes

1. In the My Data tool, select My Data Settings.
2. Select Routes.
3. Select the default color and group.
4. **Optional:** Select Restart Route Numbering to restart the numbering sequence at rt0001.

**Route or Edit Default Settings**




## Delete a Route Point

1. Select the Routes tab.
2. Tap a route, or use the Cursor pad/Joystick to select a route and press the ENTER key. The Route Info Menu will open.
3. Select a point in the route to delete and tap the Delete icon.


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## Delete a Route

1. Select the Routes tab.
2. Tap a route. The Route Info Menu will open.
3. Tap Delete.

   OR

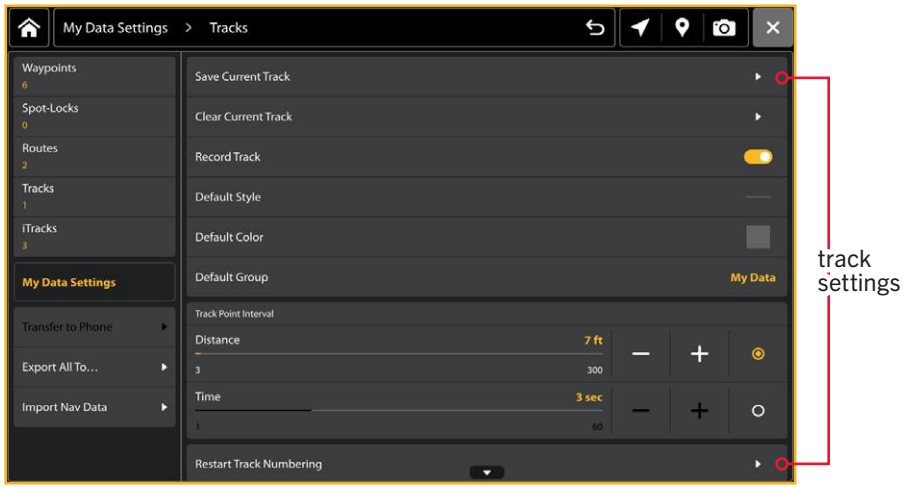
1. Select the Routes tab.
2. Tap and hold on a route (or multiple routes) to select it. There will be a check mark next to the route.
3. Tap Delete in the Top Bar.

## Navigate a Selected Route

1. Select the Routes tab.
2. Tap a route. The Route Info Menu will open.
3. Tap Navigation.

**MANAGE TRACKS**

**Track Settings for the Current Track**




## Start a New Track

The Record Track menu must be turned on to enable this feature.

1. Under Options, select Tracks.
2. Select New Track.

## Record a Track

When Record Track is turned on, the fish finder will save the current track. If you power off the fish finder and then power on the fish finder at a different position, there might be gaps in the track.

If Record Track is turned off, the track will not be displayed on the Map View, and the track will not be recorded or saved.

1. Under Options, select Tracks.
2. Select Record Track. Tap the on/off button, or press the ENTER key, to turn it on.

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## Auto-Save

When Auto-Save is turned on, the fish finder will save the current track each time the fish finder is powered off, and a new track will be started when the fish finder is powered on again.

When Auto-Save is turned off, the current track will continue until you save it (see ***Tracks: Save the Current Track***).

1. Under Options, select Tracks.
2. Select Record Track. Tap the on/off button, or press the ENTER key, to turn it on. The fish finder will start recording the current track at the moment the menu is turned on.

## Change Default Settings for New Tracks

1. Under Options, select Tracks.
2. Select Default Settings.

| Changing the Default Settings for New Tracks | |
|---|---|
| **Style** | Select a line style. |
| **Color** | Select a color. |
| **Group** | Select the group name to change where tracks will be saved. You can also open a new group from this menu. See ***Groups*** for more information. |

## Change the Track Point Interval

1. Under Options, select Tracks.
2. Select Track Point Interval.
3. Select Distance or Time.
4. Select the Back icon on the status bar, or select the Tracks tab under Options to return to the Track Options menu.
5. If you selected Distance in step 3, adjust the Distance slider to adjust the distance between track points.

   If you selected Time in step 3, select Time and open the menu. Select the amount of time between track points.

## Edit a Saved Track

1. Under Lists, select Tracks.
2. Press and hold a track. Select Info.

   OR

   Use the Joystick to select a track. Press the ENTER key.
3. Edit the saved track using the options in the Track Info menu.

   To see the complete list of options to edit the track, select Full Info.


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| Editing Options for a Saved Track | |
|---|---|
| **Track Name** | Select the track name and use the on-screen keyboard to change it. |
| **Style** | Select a line style. |
| **Color** | Select a color. |
| **Visibility** | To display the track on the Map View, select On. To hide the track on the Map View, select Off. |
| **My Data (Group Name)** | The menu name will vary with the default group name. Select the group name to change where the selected track is saved. See ***Groups*** for more information. |
| **Edit Notes (Select Full Info)** | Use the on-screen keyboard to add notes about the selected track. |

## Delete a Track

1. Under Lists, select Tracks.
2. Press and hold a track. Select Delete.

   OR

1. Use the Joystick to select a track. Press the ENTER key.
2. Select Full Info.
3. Select Delete Track.

### MANAGE GROUPS

Use Groups to organize your navigation data (waypoints, routes, and tracks) in one set. Some anglers prefer to group their navigation data by trip, fish-type, body of water, or time of day. Your fish finder can hold up to 50 groups.

**Default Group:** Your navigation data is saved to My Data, the default group for your fish finder. You can create new groups and save new navigation data to them. You can also move saved navigation data to a different group.

## Create a New Group

1. Press the HOME key.
2. Select the My Data tool.
3. Select My Data Settings.
4. Select Groups.
5. Select New Group.
6. Use the on-screen keyboard to name the new group.
7. Select Save.

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## Set the Default Group

Your navigation data is saved to My Data as the default group. The instructions in this section allow you to save your new navigation data to a different group, so as a waypoint, route, or track is saved, it will be saved to the group you've set up. You can assign waypoints, routes, and tracks to different groups, or you can assign them to the same group.

1. Press the HOME key.
2. Select the My Data tool.
3. Select My Data Settings.
4. Select Waypoints, Spot-Locks, Routes, Tracks or iTracks.
5. Select Group.
6. Select a group from the list.

   To create a new group, select New Group.
7. Repeat these instructions for each type of navigation data.

## Move Navigation Data to a Group

1. Press the HOME key.
2. Select the My Data tool.
3. Tap a saved item or use the Selection tool to select multiple items.
4. Select the Group icon from the Top Bar.
5. Select a group from the list.
6. To create a new group, select New Group.

**QUICK TIP!** The Group can also be changed from the Navigation Data Info Menu.

### DELETE ALL NAVIGATION DATA

The Delete All menu allows you to select a navigation data category and delete all items in that category. For example, if you select Delete All > Waypoints, all saved waypoints will be deleted.

To delete individual waypoints, or other individual navigation items, see the previous sections of ***Manage your Navigation Data***.

**⚠ CAUTION**

Use this menu with caution!

1. Press the HOME key.
2. Select the My Data tool.
3. Select Delete.
4. Select a category. **Follow the on-screen prompts to confirm the deletion.**


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**IMPORT/EXPORT NAVIGATION DATA ›**

Your fish finder allows you to export your waypoints, spot-locks, routes, and tracks, so you can view the data on your personal computer. You can also import your navigation data.

## › Import Navigation Data

**Requirements:** Navigation data must be saved as a GPX file.

1. Install the microSD card (with navigation data) into the front fish finder port.
2. Press the HOME key.
3. Select the My Data tool.
4. Select Import.
5. Select a .GPX file. The navigation data will be imported to the fish finder.

## › Export Navigation Data

1. Install a formatted microSD card into the front fish finder port or have the Minn Kota Fishing App synced to your fish finder.
2. Press the HOME key.
3. Select the My Data tool.
4. Select Export All To...
5. **Select a Save Location:** Select which microSD Card to save the data to, or select to transfer the data to the Minn Kota Fishing App.

   All saved navigation data will be exported to the selected location.

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# SONAR OVERVIEW

A functioning transducer must be attached to the fish finder or selected as the transducer source on the Ethernet network to enable sonar functions. To purchase transducers, visit our Web site at minnkota.johnsonoutdoors.com.

The X Series, A Series, XPLORE, APEX and SOLIX fish finders support the following sonar:

- MEGA Imaging+ with Dual Spectrum CHIRP Sonar
- MEGA Imaging with Dual Spectrum CHIRP Sonar
- Dual Spectrum CHIRP Sonar (2D)
- Digital CHIRP Sonar: 2D CHIRP, Side Imaging CHIRP and Down Imaging CHIRP use multiple frequency ranges, either individually or blended together.

**NOTICE:** Depth capability is affected by such factors as boat speed, wave action, bottom hardness, water conditions, and transducer installation. See the ***Specifications*** section for details.

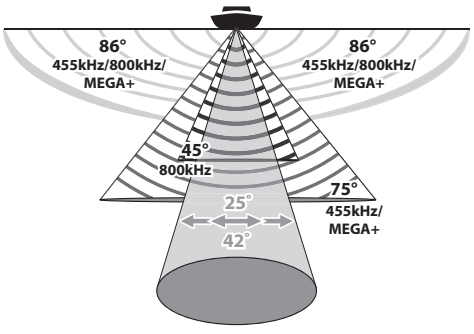
## MEGA IMAGING+

MEGA Side Imaging+ and MEGA Down Imaging+ sonar provides two high frequency options, and includes (2D) Dual Spectrum CHIRP sonar.

| MEGA Imaging+ transducers | |
|---|---|
| **MEGA SI+** | **MEGA DI+** |
| XM 14 HW MSI T | XM 14 HW MDI T |
| XPTH 14 HW MSI T | XTM 14 HW MDI T |
| XM 14 HW CMSI T | Built-in MDI+ |
| XPTH 14 74 MSI T | |
| SSTH 14 HW MSI T | |
| Built-in MSI+ | |

MEGA SI+ sonar uses two very precise sonar beams that are aimed at right angles to the path of the boat. The side beam coverage is very thin from front to back, yet very wide from top to bottom. The beams provide thin slices of the bottom for high resolution imaging. The beams can be operated at one of two display frequencies: MEGA+ or 455 kHz.

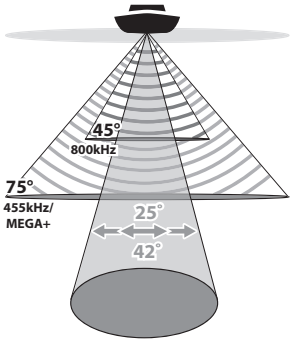
MSI+ sonar also provides MEGA Down Imaging+ and (2D) Dual Spectrum CHIRP sonar.

| MEGA SI+ | | |
|---|---|---|
|  MEGA SI+ Cone Angles | **MEGA+** | Select MEGA for the highest resolution, sharpness, and range (up to 500 ft side to side). |
| | **455 kHz** | Select 455 kHz for deep water and overall coverage (up to 800 ft side to side). |

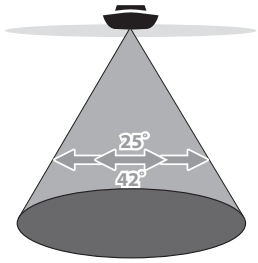

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MEGA DI+ sonar beams point down and scan the water with razor-thin, high definition beams that are wide side to side, but very thin from front to back. The beams can be operated at one of two display frequencies: MEGA+ or 455 kHz.

MDI+ also includes (2D) Dual Spectrum CHIRP sonar.

| MEGA DI+ | | |
|---|---|---|
|  MEGA DI+ Cone Angles | **MEGA+** | Select MEGA for the highest resolution, sharpness, and depth (up to 250 ft). |
| | **455 kHz** | Select 455 kHz for deep water and overall coverage (up to 400 ft). |

Dual Spectrum CHIRP sonar provides conical coverage directly below the boat. The beam can be adjusted to show the full, narrow, or wide frequency range. The sonar returns are displayed on the Sonar (2D) Views.

| (2D) Dual Spectrum CHIRP | | |
|---|---|---|
|  Dual Spectrum Cone Angles | **Full** | Select Full Beam (default) to use the complete frequency range. |
| | **Narrow** | Select Narrow Beam for increased bottom detail and better target separation. |
| | **Wide** | Select Wide Beam to maximize coverage and show big, clearly defined fish arches. |

## MEGA IMAGING ❯

MEGA Side Imaging and MEGA Down Imaging transducers provide high frequency options, and includes either (2D) Dual Spectrum CHIRP sonar or (2D) DualBeam PLUS sonar (see each table below for respective transducer models).

| MEGA Down Imaging Transducers with (2D) Dual Spectrum CHIRP |
|---|
| XM 14 20 MDI T<br>XTM 14 20 MDI T |

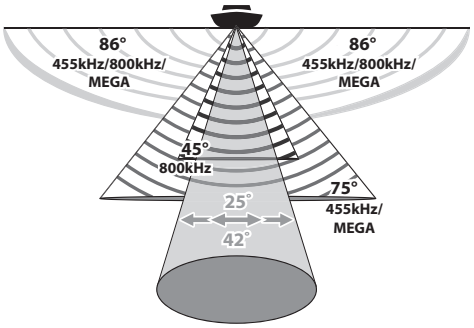
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# SONAR OVERVIEW

| MEGA Imaging Transducers with (2D) DualBeam PLUS | |
|---|---|
| **MEGA SI**<br>XM 14 20 MSI T<br>XPTH 14 20 MSI T<br>XM 14 74 MSI T | **MEGA DI**<br>XM 14 MDI T<br>XTM 14 20 MDI T |

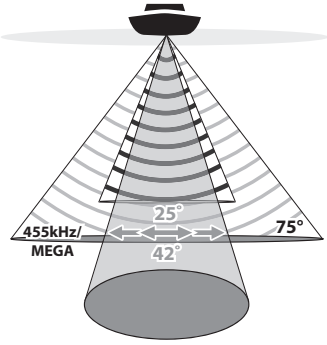
MEGA SI sonar uses two very precise sonar beams that are aimed at right angles to the path of the boat. The side beam coverage is very thin from front to back, yet very wide from top to bottom. The beams provide thin slices of the bottom for high resolution imaging. The beams can be operated at one of three display frequencies: MEGA, 800 kHz, or 455 kHz.

MSI sonar also provides MEGA Down Imaging and (2D) DualBeam PLUS sonar.

| MEGA SI | | |
|---|---|---|
|  <br>MEGA SI Cone Angles | **MEGA** | Select MEGA for the highest resolution, sharpness, and range (up to 250 ft side to side). |
| | **800 kHz** | Select 800 kHz as an alternative frequency with sharp returns (up to 250 ft side to side). |
| | **455 kHz** | Select 455 kHz for deep water and overall coverage (up to 800 ft side to side). |

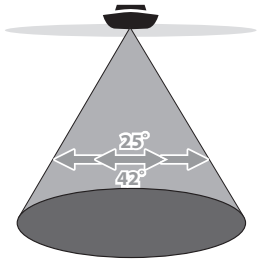
MEGA DI sonar beams point down and scan the water with razor-thin, high definition beams that are wide side to side, but very thin from front to back. The beams can be operated at MEGA, 800 kHz, or 455 kHz.

MDI sonar also provides (2D) Dual Spectrum CHIRP sonar.

| MEGA DI | | |
|---|---|---|
|  <br>MEGA DI Cone Angles | **MEGA** | Select MEGA for the highest resolution, sharpness, and depth (up to 125 ft).<br>**For MEGA SI models, the depth is up to 75 ft.* |
| | **800 kHz** | Select 800 kHz as an alternative frequency with sharp returns (up to 125 ft). |
| | **455 kHz** | Select 455 kHz for deep water and overall coverage (up to 350 ft). |


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Dual Spectrum CHIRP sonar provides conical coverage directly below the boat. The beam can be adjusted to show the full, narrow, or wide frequency range. The sonar returns are displayed on the Sonar (2D) Views.

| (2D) Dual Spectrum CHIRP | | |
|---|---|---|
|  Dual Spectrum Cone Angles | **Full** | Select Full Beam (default) to use the complete frequency range. |
| | **Narrow** | Select Narrow Beam for increased bottom detail and better target separation. |
| | **Wide** | Select Wide Beam to maximize coverage and show big, clearly defined fish arches. |

## DUAL SPECTRUM CHIRP ❯

| Transducers with HW Dual Spectrum CHIRP | | | |
|---|---|---|---|
| **MEGA SI+** | **MEGA DI+** | **MEGA DI** | **(2D) Dual Spectrum CHIRP** |
| XM 14 HW MSI T | XM 14 HW MDI T | XM 14 20 MDI T | XNT 14 HW T |
| XPTH 14 HW MSI T | XTM 14 HW MDI T | XTM 14 20 MDI T | XP 14 HW |
| XM 14 HW CMSI T | Built-in MDI+ | | XP 14 HW T |
| XPTH 14 74 MSI T | | | XTM 14 HW T |
| SSTH 14 HW MSI T | | | Built-in DSC |
| Built-in MSI+ | | | |

## TRADITIONAL (2D) 83/200 KHZ SONAR ❯

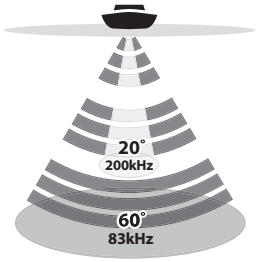
DualBeam PLUS sonar provides conical coverage directly below the boat. DualBeam PLUS sonar returns are displayed in Sonar (2D) Views. The beams can be blended together, viewed separately, or compared side-to-side.

| 83/200 kHz Transducers | |
|---|---|
| **2D Sonar** | **SI** |
| XNT 14 20 T | XM 14 20 MSI T |
| XP 14 20 T | XPTH 14 20 MSI T |
| XP 14 20 | XT 14 20 HDSI T |
| XTM 14 20 T | XPTH 14 20 HDSI T |
| XTH 14 20 | |
| XPTH 14 20 T | |

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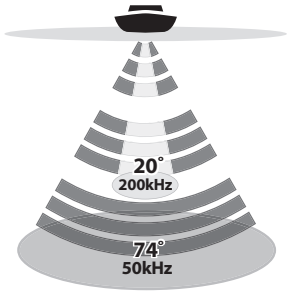
# SONAR OVERVIEW

DualBeam PLUS sonar provides conical coverage directly below the boat. The beam can be adjusted to show the medium, high, or medium-high frequency range. DualBeam PLUS sonar returns are displayed on the Sonar (2D) Views.

| DualBeam PLUS Sonar | | |
|---|---|---|
|  DualBeam Cone Angles | **Medium (83 kHz) Frequency** | Select Medium Frequency for deep water (more than 800 feet). Medium Frequency can be used for deep returns at high speed. If Medium Frequency is selected, the high frequency beam pings in the background but is not displayed. |
| | **High (200 kHz) Frequency** | Select High Frequency for more detail at shallower depths (less than 800 feet). If High Frequency is selected, the medium frequency beam is not available. |
| | **Medium/High (83/200 kHz) Frequency** | Select Medium/High Frequency to ensure both beams ping continuously, so the sonar history is not interrupted if the Sonar View is closed.<br>The returns from both beams are blended by starting with the wide beam return, dimming it, and then overlaying it with the narrow beam return. The narrow beam sonar returns will stand out from the wide beam sonar returns. |

## DIGITAL 50/200 KHZ CHIRP SONAR ❯

| 50/200 kHz Transducers | | |
|---|---|---|
| **2D Models**<br>XNT 14 74 T<br>XP 14 74 T<br>XP 14 74<br>XTM 14 74 T<br>XTH 14 74<br>XPTH 14 74 T | **DI Models**<br>XPTH 14 74 DI T | **SI Models**<br>XPTH 14 74 MSI T<br>XM 14 74 MSI T<br>XT 14 74 HDSI T<br>XPTH 14 74 HDSI T |

| 2D Display | | |
|---|---|---|
|  50/200 kHz Cone Angle | **50 kHz (Low)** | Select 50 kHz for deep water (more than 1500 feet). 50 kHz can be used for deep returns at high speed. If 50 kHz is selected, the 200 kHz beam pings in the background but is not displayed. |
| | **200 kHz (High)** | Select 200 kHz for faster pinging and shallower water (less than 800 feet). |


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# SONAR SETUP

The available sonar views and menus on the fish finder are determined by the connected transducer and the selected transducer source. The selected transducer must be pinging to enable the views.

When you connect a transducer to an X Series, A Series, XPLORE, APEX or SOLIX fish finder, the transducer will be detected in the network automatically. The best sonar source will be chosen and start pinging automatically.

To manually select a sonar source, see ***Installation Information: Set up your Fish Finder Network***.

**Transducer Settings:** To review transducer settings, including sonar frequencies, depth offset, and maximum depth, see ***Installation Information: Set up or Change Transducer Settings***. Also, visit our Web site at minnkota.johnsonoutdoors.com to download the Transducer Setup Guide and review troubleshooting options.

**Sonar Settings:** You can also change the water type, adjust the noise filter, and select transducer beams. The main sonar settings are displayed in the Sonar tab in the Settings tool (Home > Settings > Sonar). If an accessory transducer is added to the configuration (such as a 360 Imaging transducer or an Airmar CHIRP transducer), the related menu options will be added to the menu system. See ***Installation Information: Set up or Change Transducer Settings***.

**NOTICE:** Visit our Web site at **minnkota.johnsonoutdoors.com** for the latest compatible transducers and accessories for your fish finder.

### START PINGING FROM A SONAR VIEW ❯

When a transducer is connected to the fish finder, the Sonar View will be automatically added to the view database.

1. From the Home screen, tap the Views icon or Favorites icon in the menu tray.
2. Tap the sonar category and select your preferred view.
3. The sonar returns will begin to display on the view automatically.

### STOP PINGING FROM A SONAR VIEW ❯

1. With a Sonar View displayed on the screen, tap PING ON/Off button on the Top Bar.

   Ping on:

   Ping off:

### SONAR ALARMS ❯

Before you start navigating and fishing with your fish finder, set up sonar alarms. A functioning transducer must be attached to the fish finder or selected as the transducer source on the network to enable all sonar functions.

## ❯ Turn on Sonar Alarms

1. Press the HOME key.
2. Select the Tools menu.
3. Select Alarms.
4. Select Settings > Sonar.
5. Select an alarm and tap the on/off button, or press the ENTER key, to turn it on.
6. Drag the slider, or tap or press the + / - buttons, to adjust the range setting.

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| | |
|---|---|
| **Fish (Shallow)** | Turn on Fish (Shallow) to receive an alarm if fish are detected in shallow water. You can also adjust the shallow water range with the slider. |
| **Fish (Deep)** | Turn on Fish (Deep) to receive an alarm if fish are detected in deep water. You can also adjust the deep water range with the slider. |
| **Shallow Water** | If the bottom depth is less than the amount you set, the control head will provide an alarm. |
| **Deep Water** | If the bottom depth is more than the amount you set, the control head will provide an alarm. |

## USE CURSOR AND ZOOM IN SONAR VIEWS

You can use the cursor in the 2D Sonar, Side Imaging, and Down Imaging Views. With the cursor activated, you can magnify sonar returns on the view to get a closer look.

**NOTICE:** To display the 2D Sonar View in Split Zoom mode, see ***Customize the 2D Sonar View: Change the Sonar Mode***.

### Change the Zoom Mode

In 2D Sonar View and Down Imaging View, the sonar returns will be magnified based on the Zoom Mode setting. You can magnify the full view (Pane Zoom) or a selected area of the view (Cursor Zoom). See Customize the 2D Sonar View or Customize the Down Imaging View for more information.

1. With a 2D Sonar View or Down Imaging View displayed on-screen, tap the Menu icon in the Top Bar.
2. Select Settings.
3. Select Zoom Mode.
4. Select Pane Zoom or Cursor Zoom.

### Activate the Cursor

1. Tap a position, or move the Cursor/Joystick, on the 2D Sonar, Down Imaging, or Side Imaging View.

### Zoom In/Out

1. Zoom In: Touch the screen with two fingers and move them apart (pinch out).

   OR

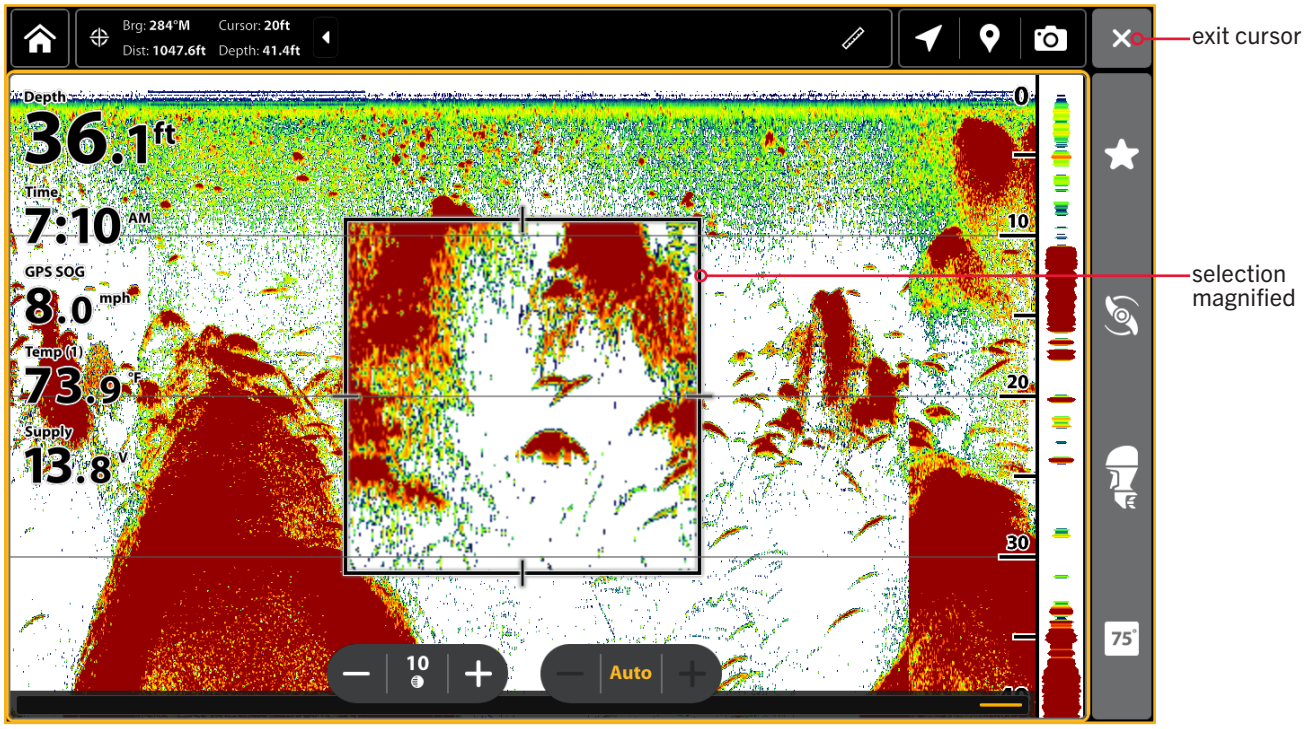
   Press the +ZOOM key.
2. Zoom Out: Touch the screen with two fingers and move them together (pinch in).

   OR

   Press the -ZOOM key.


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## Using Cursor Zoom Mode (2D Sonar View)



# 2D SONAR

## 2D SONAR OVERVIEW ❯

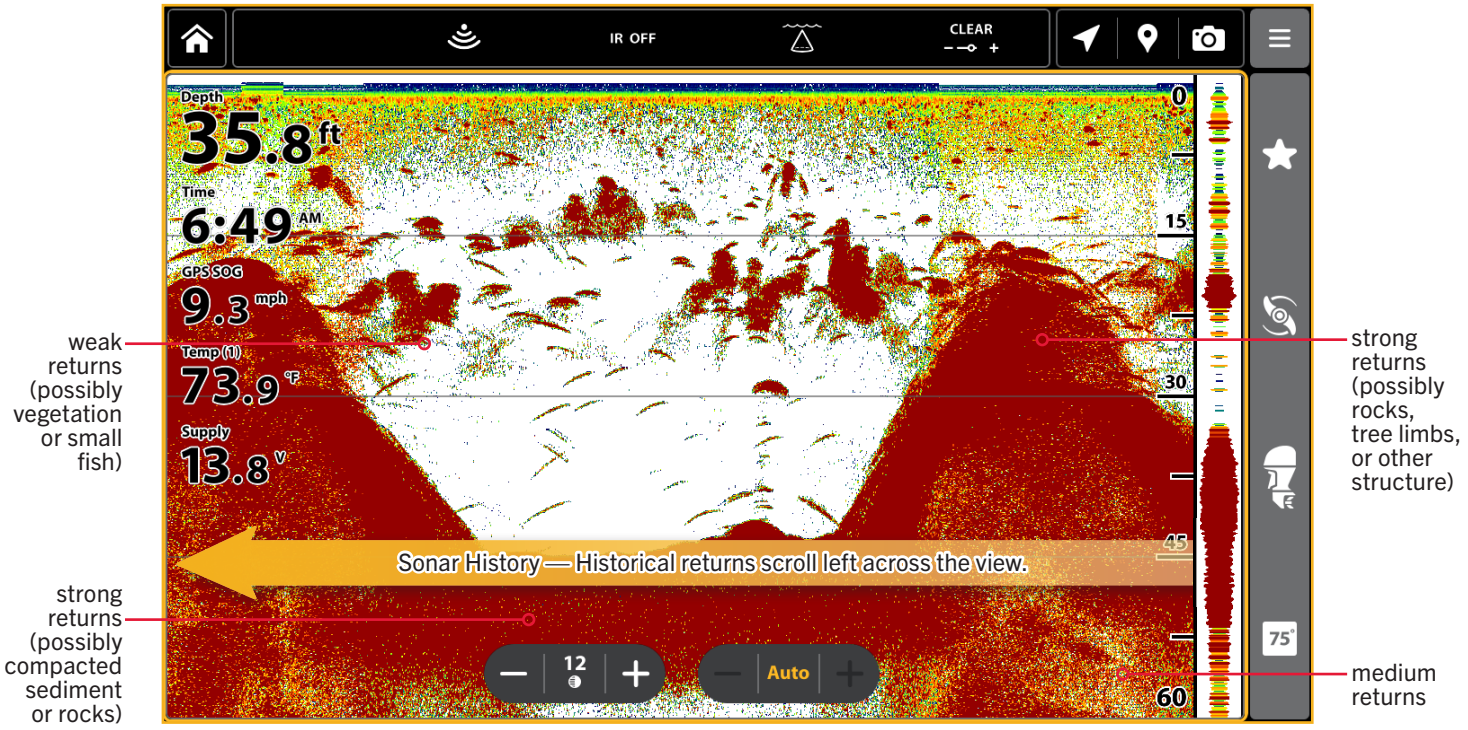
As the boat moves, the unit charts the changes in depth on the display to create a profile of the bottom contour. The 2D Sonar View displays the sonar return intensity with different colors.

Strong returns often result from rocky or hard bottoms (compacted sediment, rocks, fallen trees), while weaker returns often result from soft bottoms (sand, mud), vegetation, and small fish.

The colors used to represent high, medium, to low intensity returns are determined by the palette you choose in the 2D Sonar Menu (see ***Open the 2D Sonar Menu: Change the Sonar Color Palette***).

The fish finder displays the return intensity based on the Sonar Color and Bottom View menu settings. You can display the RTS Window (Real Time Sonar), turn on/off fish symbols (Fish ID+), change the SwitchFire mode, adjust sensitivity, and more.

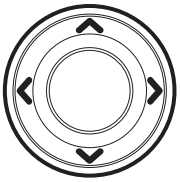
**2D Sonar View: Original Palette**



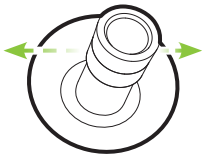



Drag to see History

OR



Move to see History (X Series/XPLORE)



Move to see History (A Series/APEX/SOLIX)


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## CUSTOMIZE THE 2D SONAR VIEW ›

The settings in this section are optional. You can use the default settings for the 2D Sonar View, or you can customize it with your preferences. See ***Views*** for more information.

## › Open the 2D Sonar Menu

The 2D Sonar menu allows you to set the sonar mode, zoom mode, return palette, background color, bottom view, and RTS Window. For more information about view preferences, see ***Views***.

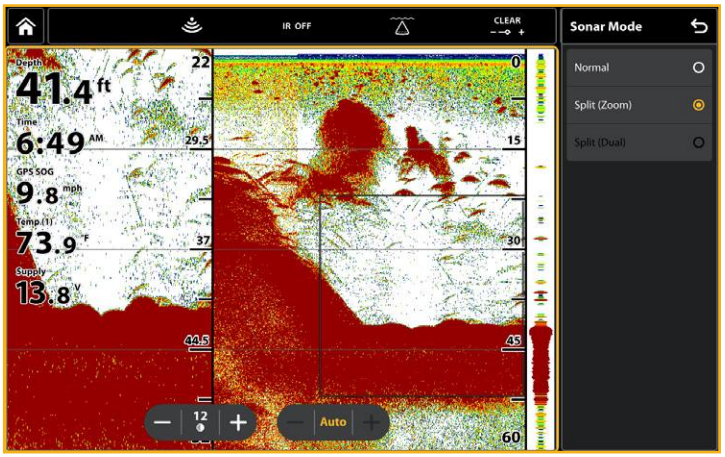
1. With a 2D Sonar View displayed on-screen, tap the Menu ☰ icon in the Top Bar, or press the MENU ☰ key once.
2. Select a display option or select Settings.

## › Change the Sonar Mode

The 2D Sonar data can be displayed on the full screen. You can also choose a split screen to display the beams separately, or you can display a split zoom view.

1. With a 2D Sonar View displayed on-screen, tap the Menu ☰ icon in the Top Bar, or press the MENU ☰ key once.
2. Select Settings.
3. Select Sonar Mode.
4. Select a mode to apply to the view.

**Split (Zoom) Sonar Mode**




| | |
|---|---|
| **Normal** | The 2D Sonar is displayed on the full screen. |
| **Split (Zoom)** | The view is split into two sides. 2D Sonar View is displayed on the right side with a zoom preview box. The zoomed view is shown on the left side. Select Split (Zoom) from the Settings menu, and you can turn on Flat Bottom and change the Zoom Window size. |
| **Split (Dual)** | The view displays sonar returns from each down beam frequency on separate sides of the screen. You can use the split mode to make side by side comparisons between the sonar returns from both beams. |

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## Set the Zoom Mode

The Zoom Mode sets the zoom commands to magnify the full pane or the cursor selection. See Use Cursor and Zoom in Sonar Views to apply the zoom features.

1. With a 2D Sonar View displayed on-screen, tap the Menu icon in the Top Bar, or press the MENU key once.
2. Select Settings.
3. Select Zoom Mode.
4. Select Pane Zoom or Cursor Zoom.

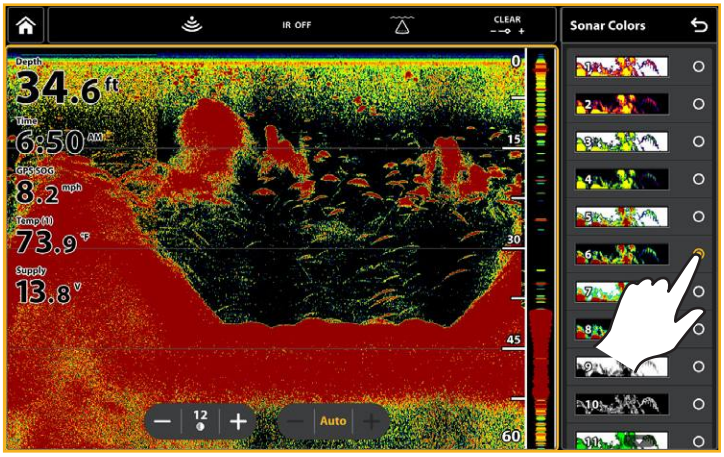
| | |
|---|---|
| **Pane Zoom** | When you use pinch out/in (touch screen) to zoom, or press the +/– ZOOM keys, the view will be magnified. |
| **Cursor Zoom** | When you use pinch out/in (touch screen) to zoom, or press the +/– ZOOM keys, the cursor selection will be magnified. |

## Change the Sonar Color Palette

The Sonar Colors menu changes the colors used to display sonar returns on the view.

1. With a 2D Sonar View displayed on-screen, tap the Menu icon in the Top Bar, or press the MENU key once.
2. Select Sonar Colors.
3. Select a color palette.

**Sonar View with a Customized Palette and Background**





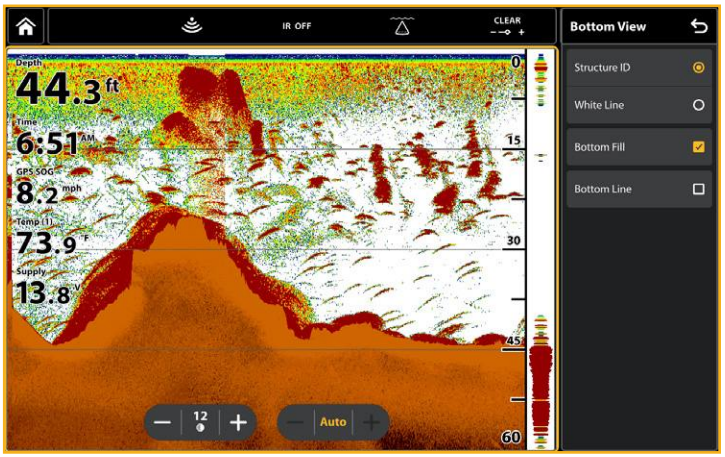
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## Set the Bottom View Preferences

Bottom View selects the method used to represent bottom and structure on the display. There are many ways to display the bottom on the display.

1. With a 2D Sonar View displayed on-screen, tap the Menu icon in the Top Bar, or press the MENU key once.
2. Select Settings.
3. Select Bottom View.
4. Select Structure ID or White Line. Then, select Bottom Fill and/or Bottom Line to add them to the view.

**2D View with Bottom View Options Displayed**




| | |
|---|---|
| **Structure ID** | Structure ID represents weak returns in blue and strong returns in red (original palette). If the color palette is changed, the Structure ID will display the strongest return as specified by the palette. |
| **White Line** | White Line highlights the strongest sonar returns in white. This has the benefit of clearly defining the bottom on the display. |
| **Bottom Fill** | Select Bottom Fill to see the shaded bottom filled in with a solid color on the view. This has the benefit of clearly defining the bottom location on the display. |
| **Bottom Line** | Select Bottom Line to display the depth reading from the Depth Source as a line, either from the selected transducer or another digital depth source. See ***Set up your Fish Finder Network*** for details about selecting sources. |

## Display the RTS Window

The RTS Window plots the depth and intensity of a sonar return. It updates at the fastest rate possible for depth conditions and shows only the returns from the bottom, structure, and fish that are within the transducer beam. When you use the cursor to review sonar history, the sonar history will pause, but the RTS Window will continue to display sonar returns in real time.

1. With a 2D Sonar View displayed on-screen, tap the Menu icon in the Top Bar, or press the MENU key once.
2. Select Settings.
3. Select RTS Window.
4. Tap the on/off button, or press the ENTER key, to turn it on. Then, choose the type of RTS Window to display.

| | |
|---|---|
| **Color (A-Scope)** | Sonar returns are displayed in color. The size of the displayed lines correspond with the intensity of the sonar returns from the transducer beam(s). |
| **Color (Full)** | Sonar returns are displayed in color, and they fill the width of the RTS Window. |
| **Mono** | Sonar returns are displayed in black. |

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## Turn on/off Fish ID+

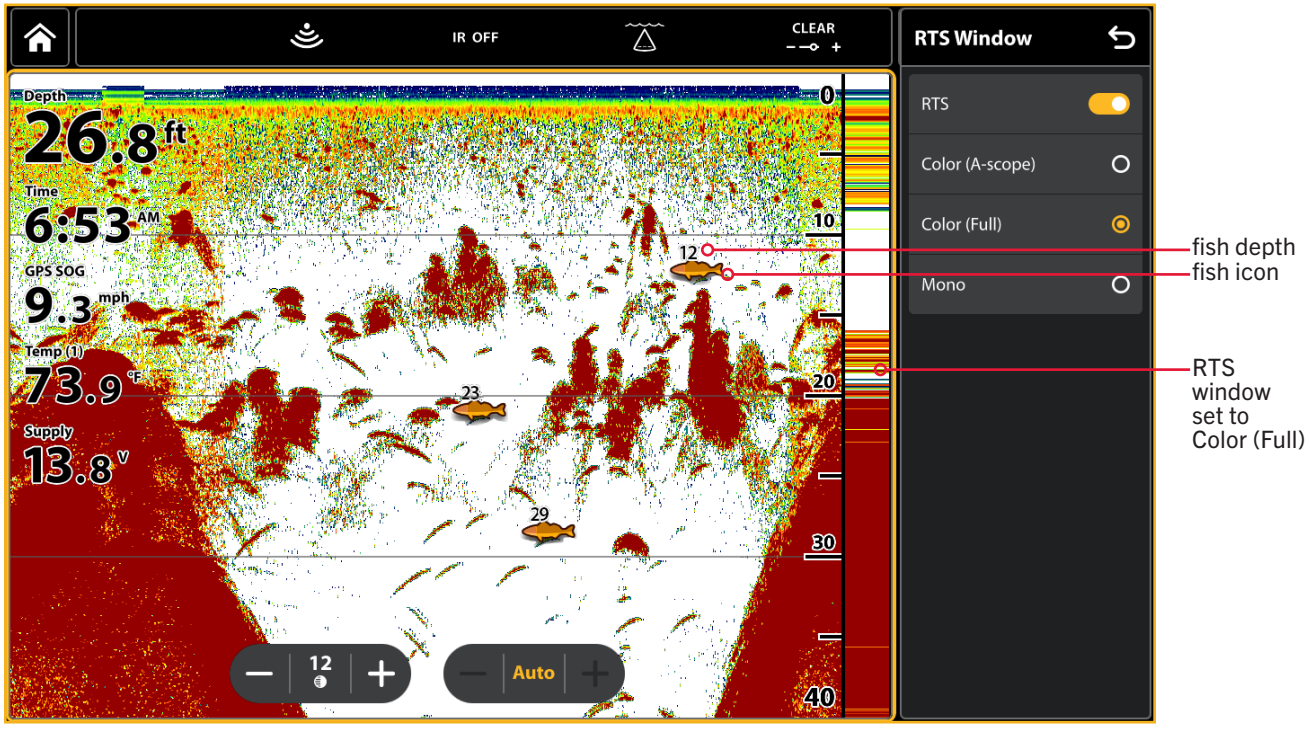
Fish ID+ uses advanced signal processing to interpret sonar returns. When Fish ID+ is selected, fish symbols will be displayed on the Sonar View when very selective requirements are met.

When Fish ID+ is not selected, the fish finder shows only the raw sonar returns on the display. The returns appear as arches on the display to indicate potential targets.

1. With a 2D Sonar View displayed on-screen, tap the Menu ☰ icon in the Top Bar, or press the MENU ☰ key once.
2. Select Settings.
3. Select Fish ID+.
4. Use the following menu options to display fish icons, adjust the sensitivity, and more.

| | |
|---|---|
| **Fish Icons** | Select Fish Icons to display fish symbols on the 2D Sonar View when a fish is detected.<br>Blue Fish Icons = targets detected in the 200 kHz narrow beam.<br>Orange Fish Icons = targets detected in the 83 kHz or 50 kHz wide beam. |
| **White Line** | The depth of the fish is displayed above the fish icon. |
| **Bottom Fill** | Use ID Sensitivity to adjust the threshold used for detecting a fish with Fish ID+. (1 = low sensitivity, where only a large fish will be displayed, and 10 = high sensitivity, where small fish up to large fish will be displayed) |
| **Bottom Line** | To receive an on-screen alert when a fish is detected, turn on this menu option. |

**2D Sonar View with RTS Window and Fish ID+ Turned On**





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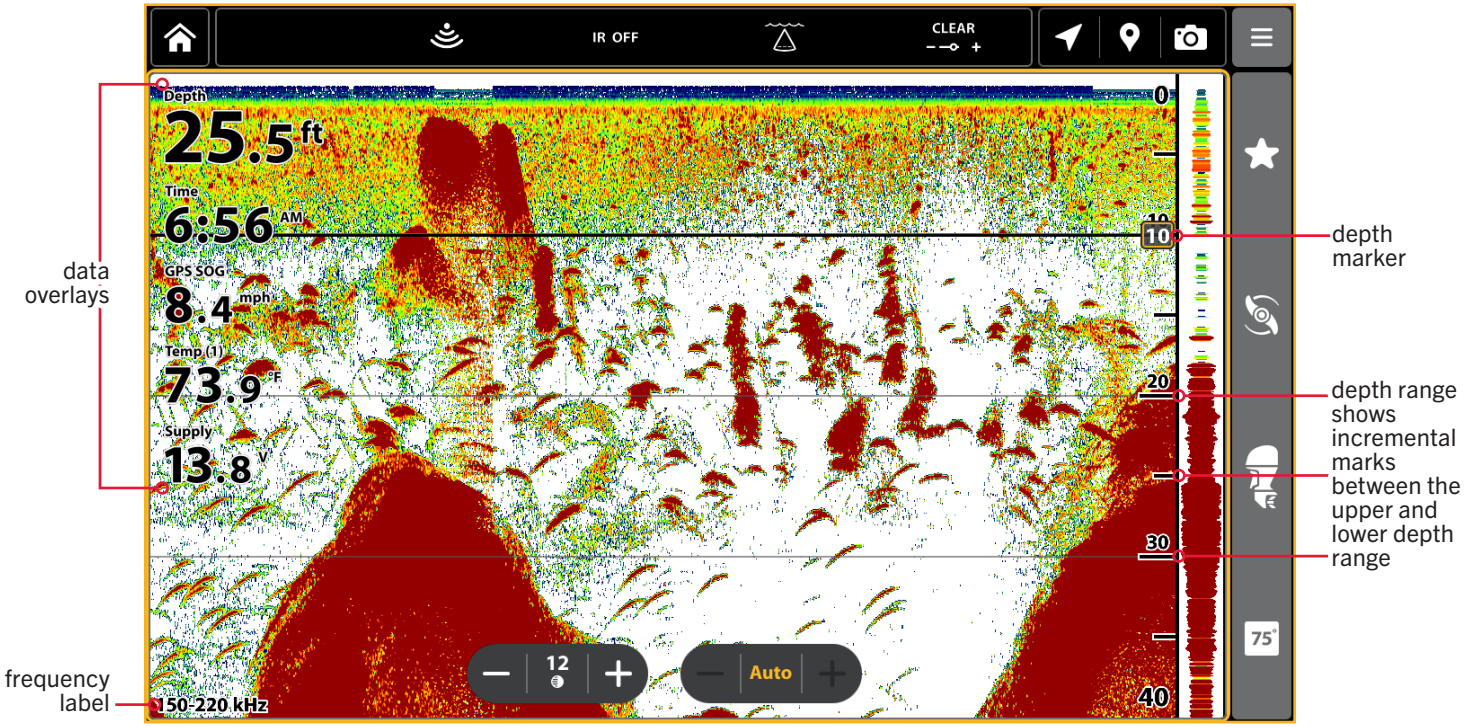
## CHANGE THE 2D SONAR VIEW OVERLAYS ❯

Use the Overlays menu to display or hide information on the view. In the 2D Sonar View, you can display the following: depth lines, depth range, depth marker, temperature graph, beam frequency label, and zoom label.

Digital readout data can be displayed as an overlay, and it can be displayed in the data bar. To turn on the data overlay or data bar, see ***Views: Edit the On-Screen View***. For more information about data overlays, see ***Views***.

1. With a 2D Sonar View displayed on-screen, tap the Menu ☰ icon in the Top Bar, or press the MENU ☰ key once.
2. Select a display option or select Settings.
3. Select Overlays.
4. Tap the menu, or use the Cursor pad to select an item, and add a check mark. (check mark = visible, blank = hidden).

**Selecting Overlays for the 2D Sonar View**

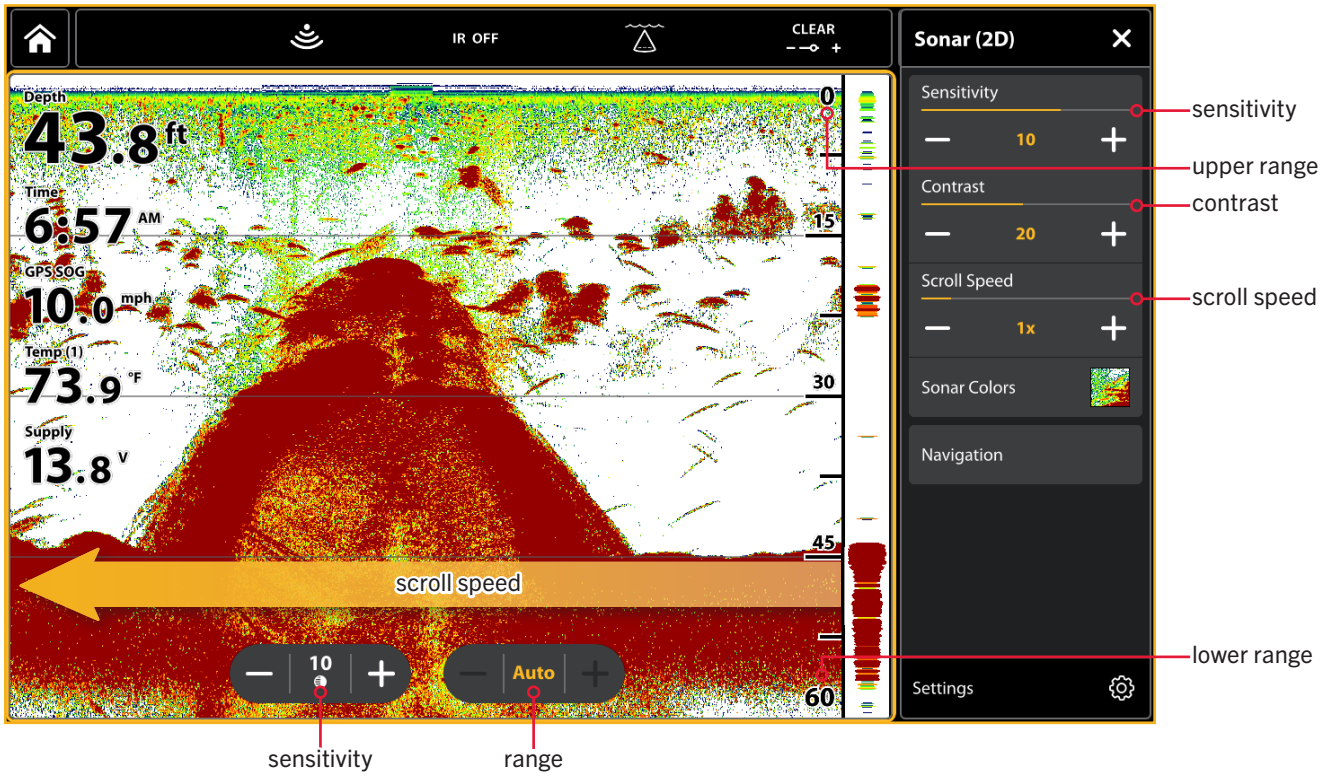



## ADJUST 2D SONAR DISPLAY SETTINGS ❯

The 2D Sonar Menu provides menu options to adjust the sensitivity and range as you fish. You can also mark a particular depth and control how fast the sonar history scrolls across the screen. The menu options allow you to see more or less of the sonar returns from the transducer beams as you adjust each setting.

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**Adjusting Sonar Display Settings**




## Adjust Display Settings

1. With a 2D Sonar View displayed on-screen, tap the Menu ☰ icon in the Top Bar, or press the MENU ☰ key once.
2. Select Sensitivity, Contrast, or Scroll Speed.
3. Tap the + or -, or press the +/– ZOOM keys, to adjust the setting.

| | |
|---|---|
| **Sensitivity** | Sensitivity controls how much detail is shown on the display and will adjust the sensitivity of all sonar frequencies. Decrease sensitivity to eliminate display clutter sometimes present in murky or muddy water. When operating in very clear water or greater depths, increase the sensitivity to see weaker returns that may be of interest.<br>**QUICK TIP!** This setting can also be changed by tapping the sensitivity in-pane button on the Sonar View. |
| **Contrast** | Contrast allows you to choose a range of the Sonar Colors palette to display sonar returns. When Contrast is set to 20 (default), the entire Sonar Colors palette (represented by the Color Bar) is used to display weak and strong sonar returns. As you increase the Contrast, the top range of the Color Bar is used to display all sonar returns (whether weak or strong). As you decrease the Contrast, the bottom range of the Color Bar is used to display all sonar returns (whether weak or strong). |
| **Scroll Speed** | Scroll Speed determines how fast the sonar history moves across the display and how much detail is shown. Select a faster speed to see more detail. Select a slower speed to keep the sonar history on the display longer. |


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## Filter Surface Clutter

Use Surface Clutter to reduce the noise that may appear at the top of the view caused by algae and aeration. The lower the setting, the less surface clutter will be displayed. A higher setting allows more surface clutter to be displayed.

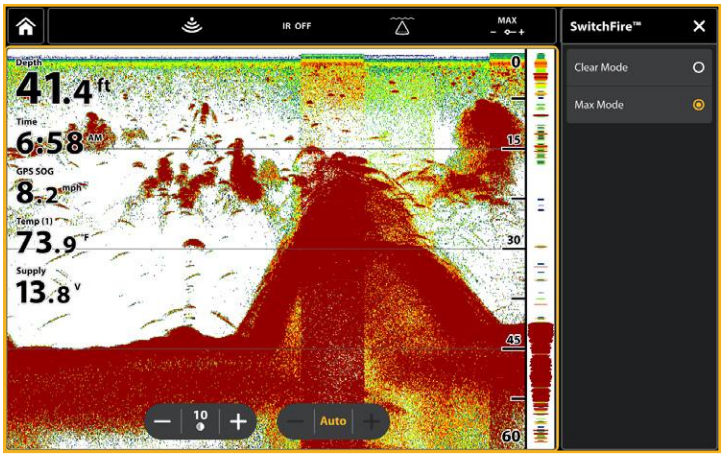
1. With a 2D Sonar View displayed on-screen, tap the Menu icon in the Top Bar, or press the MENU key once.
2. Select Settings.
3. Select Surface Clutter.
4. Tap the + or -, or press the +/– ZOOM keys, to adjust the setting.

## Change the SwitchFire Mode

SwitchFire controls how the sonar returns are displayed in the view.

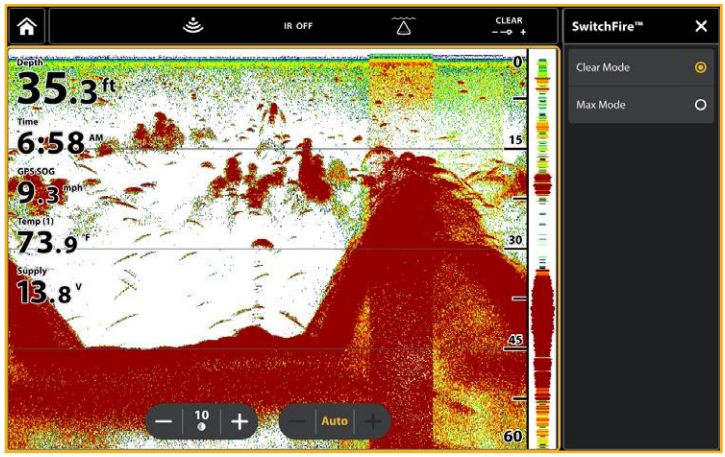
1. With a 2D Sonar View displayed on-screen, tap the SwitchFire icon CLEAR in the Top Bar.
2. Select Clear Mode CLEAR or Max Mode MAX.

**SwitchFire: Max Mode**




Choose Max Mode to see only raw sonar returns on the display. When Max Mode is selected, you will see the maximum sonar information available within the transducer beam, so more fish arches and better jig tracking are shown.

**SwitchFire: Clear Mode**




Choose Clear Mode to see less clutter and more fish size accuracy on the display. When Clear Mode is selected, clutter is filtered, and sonar returns are interpreted to provide more details about objects within the transducer beam, regardless of their location. In other words, a large arch on the display means a large fish has been detected.

## Set the Range

Range controls how much of the water column is displayed on the view. For example, if you are only interested in the area between 20 and 50 feet deep, set the Upper Range to 20 and the Lower Range to 50. The view will not display sonar returns outside of the set ranges, and greater detail for the selected range will be displayed.

1. With a 2D Sonar View displayed on-screen, tap the Menu icon in the Top Bar, or press the MENU key once.
2. Select Settings.
3. Select Range.
4. Select Upper Range. Tap the + or -, or press the +/– ZOOM keys, to adjust the setting.

   OR

   Drag the slider at the bottom of the screen to adjust the setting.

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5. Select Lower Range.

   Auto: Move the slider to Auto. The Lower Range will be adjusted by the fish finder to follow the bottom automatically.

   Man (Manual): Move the slider to Manual and adjust the setting.

   **QUICK TIP!** This setting can also be changed by tapping the Range in-pane button on the Sonar View.

## Display the Depth Marker

To mark a specific depth on the view, turn on Depth Marker.

1. With a 2D Sonar View displayed on-screen, tap the Menu ☰ icon in the Top Bar, or press the MENU ☰ key once.
2. Select Settings.
3. Select Overlays.
4. Select Depth Marker.
5. Tap the on/off button, or press the ENTER key, to turn it on.
6. Drag the slider, or press the +/– ZOOM keys, to adjust the setting.

## Select Frequencies

If there are multiple beams available in a transducer, you can display individual frequencies on the 2D Sonar View. The menu options are determined by the installed transducer and control head model. See ***Installation Information: Set up your Fish Finder Network***, ***Select Sonar Sources*** and ***Set up or Change Transducer Settings*** for details.

Dual Beam CHIRP Models

1. With a 2D Sonar View displayed on-screen, tap the Display Frequency icon **800 kHz** in the Top Bar.
2. Select a frequency from the list.

   **QUICK TIP!** This setting can also be changed by pressing and holding the ENTER key.

**NOTICE:** If the fish finder is using a sonar source with only one beam frequency, the frequency list will not offer additional options.

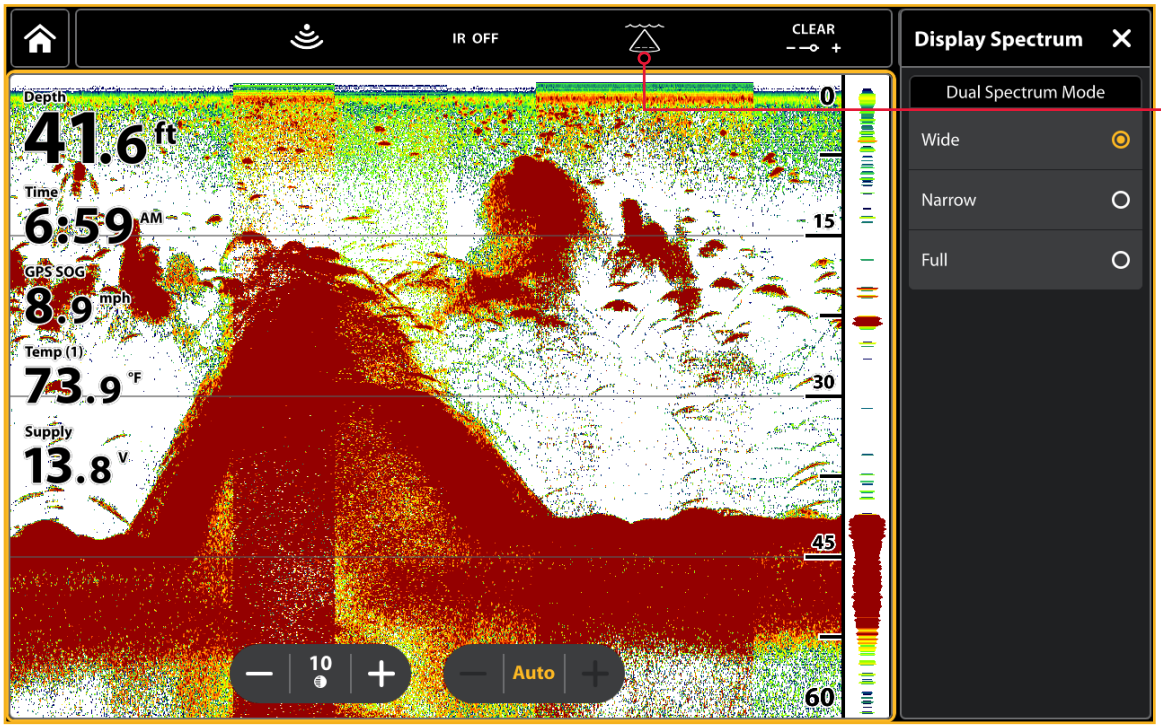
Dual Spectrum High Wide Models

1. With a 2D Sonar View displayed on-screen, tap the Display Spectrum icon  in the Top Bar.
2. Select a spectrum from the list.

| | | |
|---|---|---|
|  | **Full** | Select Full Beam (default) to use the complete frequency range. |
|  | **Narrow** | Select Narrow Beam for increased bottom detail and better target separation. |
|  | **Wide** | Select Wide Beam to maximize coverage and show big, clearly defined fish arches. |


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2D Sonar View




## Adjust Beam Sensitivity

Your fish finder model may allow you to adjust the sensitivity of individual frequencies. The available frequencies are determined by your fish finder model and the installed transducer. Use the following instructions to adjust a single beam.

1. Tap the Sensitivity tool on the Sonar View.

   OR

1. With a 2D Sonar View displayed on-screen, tap the Menu ☰ icon in the Top Bar, or press the MENU ☰ key once.
2. Select Sensitivity.
3. Tap the + or -, or press the +/- ZOOM keys, to adjust the setting.

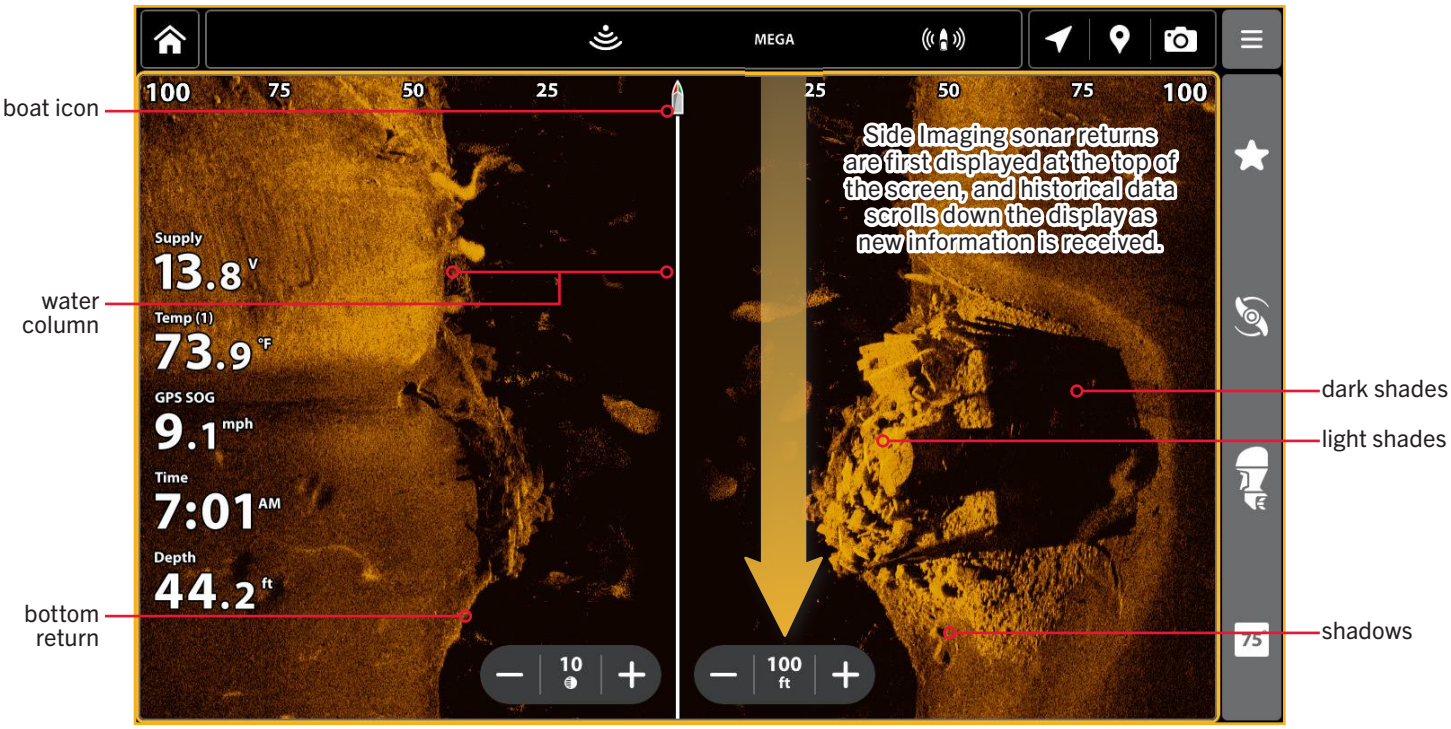
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# SIDE IMAGING

## SIDE IMAGING OVERVIEW ❯

Side Imaging beams “illuminate” the bottom contour, structure, and fish. The side beam coverage is very thin from front to back, yet very wide from top to bottom. The bottom composition determines the intensity of the sonar return, and upward slopes that face the transducer reflect sonar better than downward slopes that face away from the transducer.

**Side Imaging View**

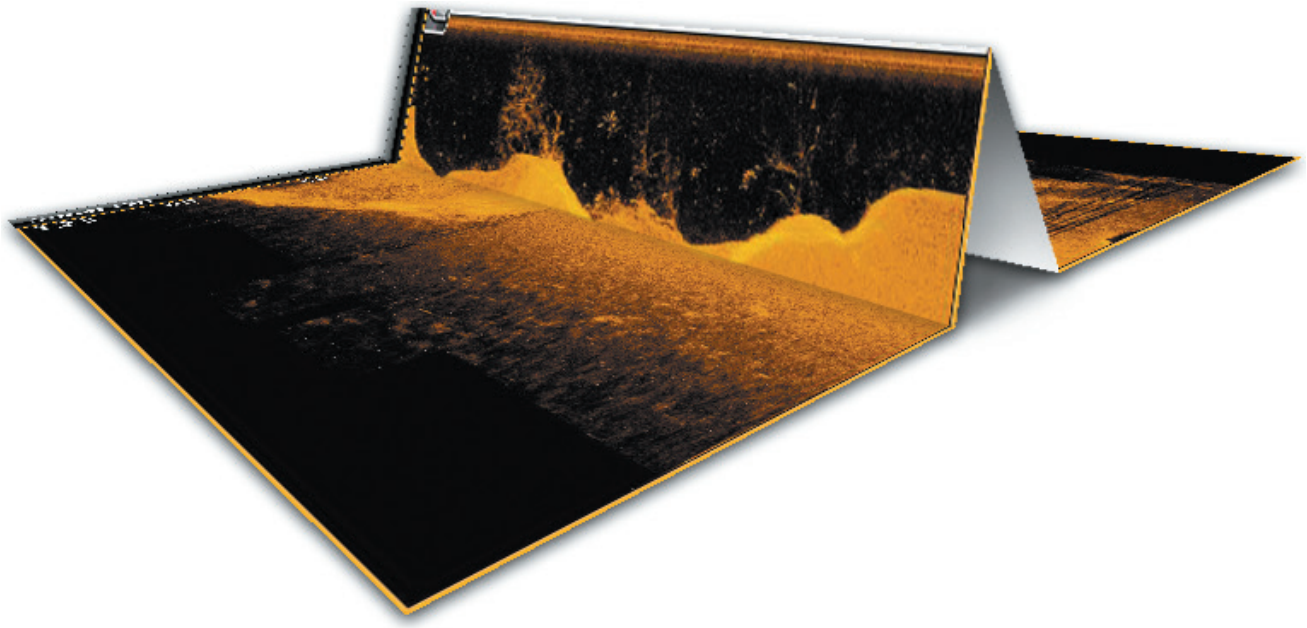



Use the light and dark parts of the display to interpret the objects on the view as follows:

- **Shadows:** The longer the shadow, the taller the object. Fish also cast shadows, and their distance from the bottom can be interpreted by their shadow.
- **Light Shades** represent denser terrain (possibly compacted sediment, timber, rocks) or rising terrain.
- **Water Column:** shows the relative depth of the water under the vessel at any given time. Variations in the width of the water column show variations in the distance to the bottom as the vessel passes over. See the illustration ***Interpreting the Side Imaging View***.
- **White Streaks** or **Clouds** may represent fish on the display.
- **Dark Shades** represent soft returns (possibly sand or mud) or descending terrain.


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**Interpreting the Side Imaging View**



To visualize how Side Imaging works, the Side Imaging View illustration can be folded down the middle and then folded again at the lowest point of the water column. The raised area reveals the water column with its relative depth of the water under the vessel. In the Side Imaging View, variations in the width of the water column show variations in the distance to the bottom as the vessel passes over.

For best side imaging performance:

- Vessel Speed: 2 to 6 mph
- Straight line navigation
- Minimum turning time and wave turbulence

Also, see minnkota.johnsonoutdoors.com for tutorials and Side Imaging videos.

**CUSTOMIZE THE SIDE IMAGING VIEW ›**

The settings in this section are optional. You can use the default settings for the view, or you can customize it with your preferences. See ***Views*** for more information.

## › Open the Side Imaging Menu

The Side Imaging menu allows you to select a beam to display, set the zoom mode, color palette, and turn on Contour Mode and SI Navigation. For more information about view preferences, see ***Views***.

1. With a Side Imaging View displayed on-screen, tap the Menu ☰ icon in the Top Bar, or press the MENU ☰ key once.
2. Select a display option or select Settings.

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## Select Beams to Display

The Side Imaging View displays both beams on the view. You can also choose to display the left side or the right side of the Side Imaging transducer beams.

1. With a Side Imaging View displayed on-screen, tap the SI Side icon in the Top Bar.
2. Select a side to display.

OR

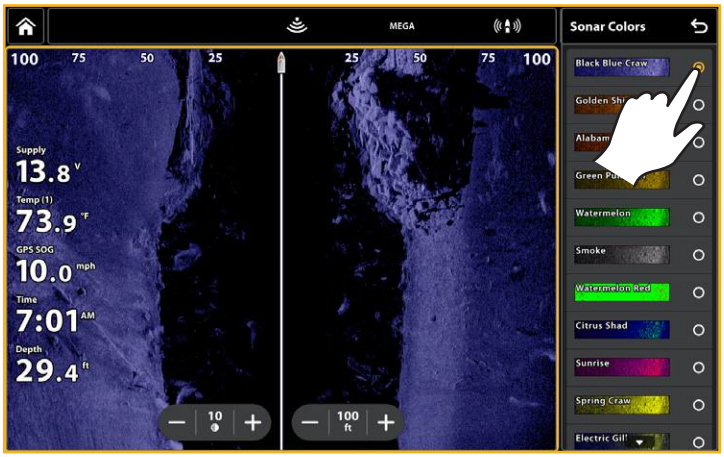
1. With a Side Imaging View displayed on-screen, tap the Menu icon in the Top Bar, or press the MENU key once.
2. Select Settings.
3. Select SI Side.
4. Select a side to display.

## Change the Color Palette

The Sonar Colors menu changes the colors used to display sonar returns on the view.

1. With a Side Imaging View displayed on-screen, tap the Menu icon in the Top Bar, or press the MENU key once.
2. Select Sonar Colors.
3. Select a color palette.

**Side Imaging View with a Customized Palette**




## Turn on/off Dynamic Contrast

Dynamic Contrast automatically enhances the contrast of the selected color palette.

1. With a Side Imaging View displayed on-screen, tap the Menu icon in the Top Bar, or press the MENU key once.
2. Select Dynamic Contrast, and tap the on/off button, or press the ENTER key, to turn it on/off.

## Turn on/off Contour Mode

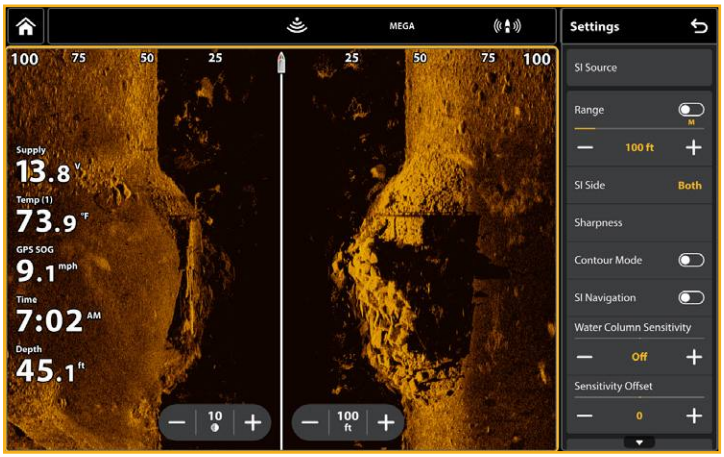
Contour Mode controls how the water column is displayed in the Side Imaging Views. When Contour Mode turned off, the water column is displayed on the view. The location of a target on the display is based on the slant range to the target.

When Contour Mode is turned on, the bottom is graphed at a constant point on the display, regardless of changes in depth. The Side Imaging beams are divided by a vertical line. The water column is removed from the view, which allows the display to show targets at their linear horizontal distance. The location of a target may be easier to interpret when the water column is removed.

1. With a Side Imaging View displayed on-screen, tap the Menu icon in the Top Bar, or press the MENU key once.
2. Select Settings.
3. Select Contour mode, and tap the on/off button, or press the ENTER key, to turn it on/off.

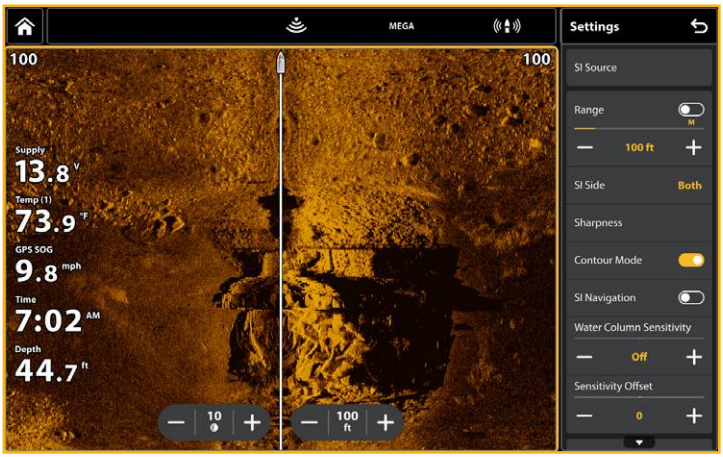

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**Contour Mode Off**




The water column is displayed on the Side Imaging View.

**Contour Mode On**




The water column is removed from the Side Imaging View.

## Turn on/off SI Navigation

SI Navigation controls how the boat icon is displayed in Side Imaging Views. See ***Navigation in Sonar Views*** for more information. If SI Navigation is turned on, the boat icon indicates the direction the boat needs to turn to reach the next waypoint during navigation.

If SI Navigation is turned Off, the boat icon will not change during navigation although you can still mark waypoints and start navigation from a Side Imaging View.

1. With a Side Imaging View displayed on-screen, tap the Menu ☰ icon in the Top Bar, or press the MENU ☰ key once.
2. Select Settings.
3. Select SI Navigation, and tap the on/off button, or press the ENTER key, to turn it on/off.

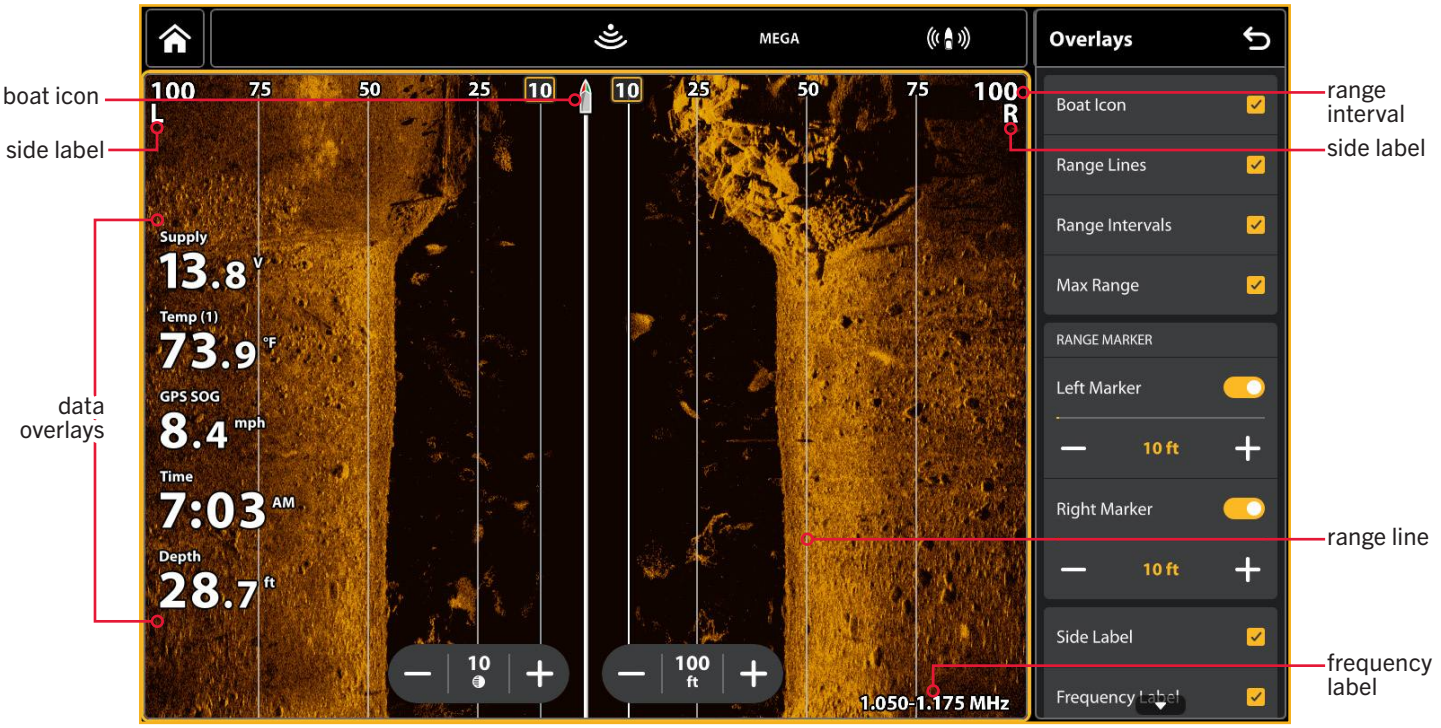
### CHANGE THE SIDE IMAGING VIEW OVERLAYS

Use the Overlays menu to display or hide information on the view. In the Side Imaging View, you can display the following: boat icon, range lines, range intervals, side label, frequency label, and data overlays. To turn on the data overlay or data bar, see ***Views: Edit the On-Screen View***. For more information about data overlays, see Views.

1. With a Side Imaging View displayed on-screen, tap the Menu ☰ icon in the Top Bar, or press the MENU ☰ key once.
2. Select Settings.
3. Select Overlays.
4. Tap the menu, or use the Cursor pad/Joystick to select an item, and add a check mark. (check mark = visible, blank = hidden).

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**Selecting Overlays for the Side Imaging View**




**ADJUST SIDE IMAGING DISPLAY SETTINGS**

The Side Imaging Menu provides menu options to adjust the sensitivity, contrast, sharpness, water column sensitivity, and range as you fish. You can also mark a particular range, and you can control how fast the sonar history scrolls across the screen. The menu options allow you to see more or less of the sonar returns from the transducer beams as you adjust each setting.

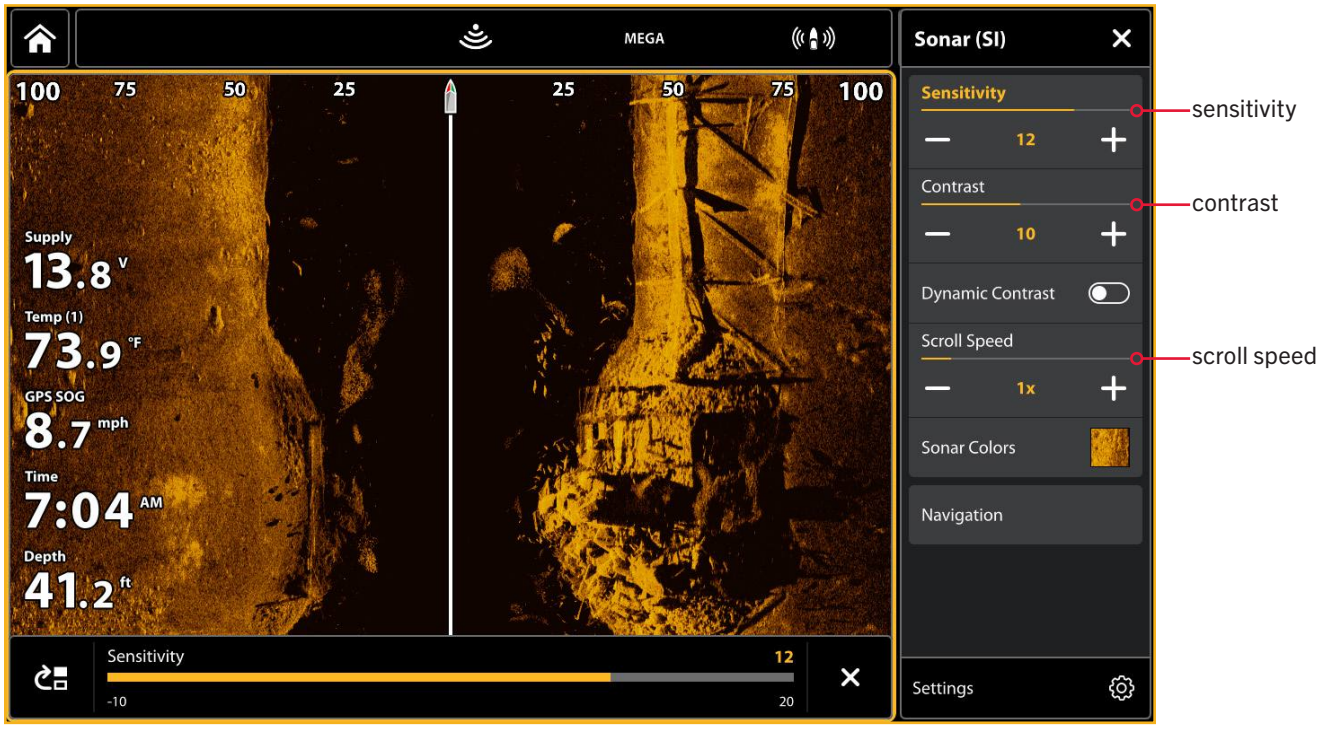
## Adjust Display Settings

1. With a Side Imaging View displayed on-screen, tap the Menu ☰ icon in the Top Bar, or press the MENU ☰ key once.
2. Select Sensitivity, Contrast, or Scroll Speed.
3. Drag the slider, or press the +/- ZOOM keys, to adjust the setting.

| | |
|---|---|
| **Sensitivity** | Sensitivity controls how much detail is shown on the display and will adjust the sensitivity of all sonar frequencies. Decrease sensitivity to eliminate display clutter sometimes present in murky or muddy water. When operating in very clear water or greater depths, increase sensitivity to see weaker returns that may be of interest.<br>**QUICK TIP!** This setting can also be changed by tapping the sensitivity in-pane button on the SI View. |
| **Contrast** | Adjust the Contrast setting to accent the light and dark parts of the Side Imaging data to provide greater definition. |
| **Scroll Speed** | Scroll Speed determines how fast the sonar history moves across the display and how much detail is shown. Select a faster speed to see more detail. Select a slower speed to keep the sonar history on the display longer. |


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**Adjusting Side Imaging Display Settings**




**QUICK TIP!** The Sensitivity setting can also be changed by tapping the Sensitivity in-pane button on the SI View.

## Adjust Water Column Sensitivity

The Water Column Sensitivity settings is used to increase or decrease the sensitivity of the sonar return that is in the water column.

1. With a Side Imaging View displayed on-screen, tap the Menu icon in the Top Bar, or press the MENU key once.
2. Select Settings.
3. Select Water Column Sensitivity.
4. Drag the slider, or press the +/- ZOOM keys, to adjust the setting.

## Adjust the Sharpness

Turn on Sharpness and select a filter level to sharpen the edges of the Side Imaging data.

1. With a Side Imaging View displayed on-screen, tap the Menu icon in the Top Bar, or press the MENU key once.
2. Select Settings.
3. Select Sharpness.
4. Tap the on/off button, or press the ENTER key, to turn it on/off.
5. Select filter level of Low, Medium, or High.

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## Set the Range

Range controls how much of the water column is displayed on the view.

1. With a Side Imaging View displayed on-screen, tap the Menu ☰ icon in the Top Bar, or press the MENU ☰ key once.
2. Select Settings.
3. Select Range.
4. Tap the toggle to select Auto or M (Manual), or press the ENTER key.
5. If M (Manual) is selected, tap the + or -, or press the +/- ZOOM keys, to adjust the setting.

   **Auto**: Toggle to Auto. The Range will be adjusted by the fish finder to follow the bottom automatically.

   **M (Manual)**: Toggle to M (Manual) and adjust the setting.

   **QUICK TIP!** The Range can also be changed by tapping the Range in-pane buttons on the SI View.

| | |
|---|---|
| **Auto** | The Range will be adjusted by the fish finder to follow the bottom automatically. |
| **M (Manual)** | To adjust the display range, drag the slider, or press the +/- ZOOM keys. Select a low range number to focus on a shorter distance of the water column and see greater detail on the screen. Select a higher range number to view farther into the water and see an overview of details on the screen. |

## Select Frequencies

If there are multiple beams available in a transducer, you can display individual frequencies on the view. See ***Installation Information: Set up your Fish Finder Network***, ***Select Sonar Sources*** and ***Set up or Change Transducer Settings*** for details.

1. With a Side Imaging View displayed on-screen, tap the frequency icon in the Top Bar.
2. Select a frequency from the list.

   **455 kHz**
   **800 kHz**
   **MEGA**

   **QUICK TIP!** This setting can also be changed by pressing and holding the ENTER key.

**NOTICE:** If the fish finder is using a sonar source with only one beam frequency, the frequency list will not offer additional options.

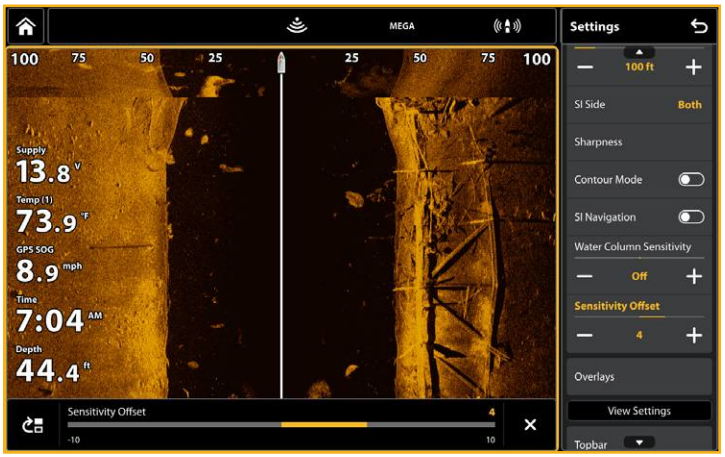

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## Adjust the SI Sensitivity Offset

In the unlikely event that your Side Imaging transducers are not tuned to the same level, you can offset the left Side Imaging beam from the right Side Imaging beam.

1. With a Side Imaging View displayed on-screen, tap the Menu icon in the Top Bar, or press the MENU key once.
2. Select Settings.
3. Select Sensitivity Offset.
4. Drag the slider, or press the +/- ZOOM keys, to adjust the setting.

**Adjusting the SI Sensitivity Offset**




## Turn on Contour Mode

1. With a Side Imaging View displayed on-screen, tap the Menu icon in the Top Bar, or press the MENU key once.
2. Select Settings.
3. Select Contour Mode.
4. Tap the on/off button, or press the ENTER key, to turn it on/off.

## Turn on SI Navigation

1. With a Side Imaging View displayed on-screen, tap the Menu icon in the Top Bar, or press the MENU key once.
2. Select Settings.
3. Select SI Navigation.
4. Tap the on/off button, or press the ENTER key, to turn it on/off.

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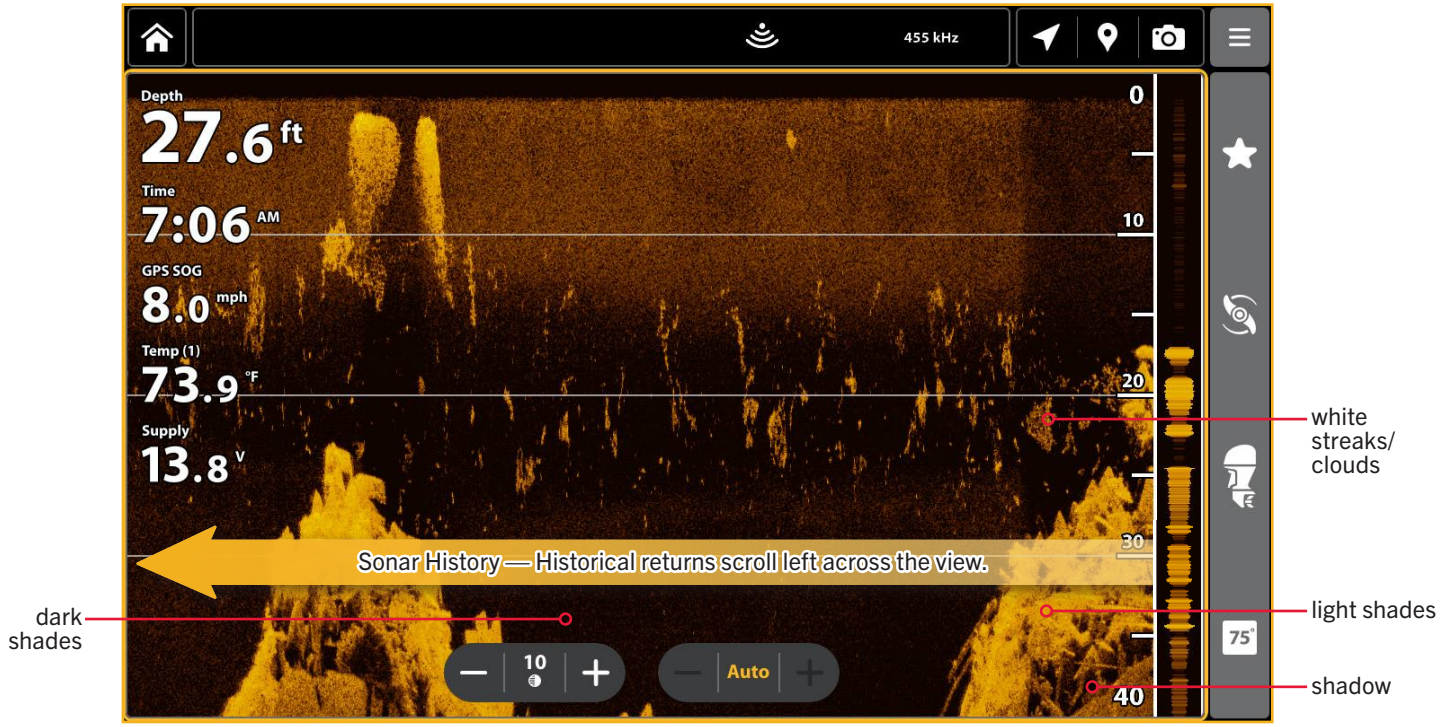
# DOWN IMAGING

## DOWN IMAGING OVERVIEW ❯

The images you see on the Down Imaging display are produced using sonar technology. Each time the unit pings, a strip of data representing all the echoes received by the transducer are put together on the display to form the image that you see. Like traditional 2D Sonar, the sonar history scrolls left across the screen.

Down Imaging beams “illuminate” the bottom contour, structure, and fish. The beams are wide (side to side) but very thin from front to back.

**Down Imaging View: Original Palette**




Use the light and dark parts of the display to interpret the objects under your boat as follows:

- **Dark shades** represent soft returns (mud, sand) or descending terrain.
- **Light shades** represent denser terrain (timber, rocks) or rising terrain. A very hard bottom may appear as white on the display.
- **White Streaks** or **Clouds** may represent fish on the display.
- **Shadows** are not caused by light but by the lack of a sonar return. Objects standing on the bottom cause a sonar shadow to appear on the display. The longer the shadow, the taller the object. Fish may also cast shadows. You can use the shadow to interpret where the fish or object is located in relation to the bottom.

## CUSTOMIZE THE DOWN IMAGING VIEW ❯

The settings in this section are optional. You can use the default settings for the view, or you can customize it with your preferences. See ***Views*** for more information.


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## Open the Down Imaging Menu

The Down Imaging menu allows you to set the color palette, zoom mode, and bottom line. For more information about view preferences, see ***Views***.

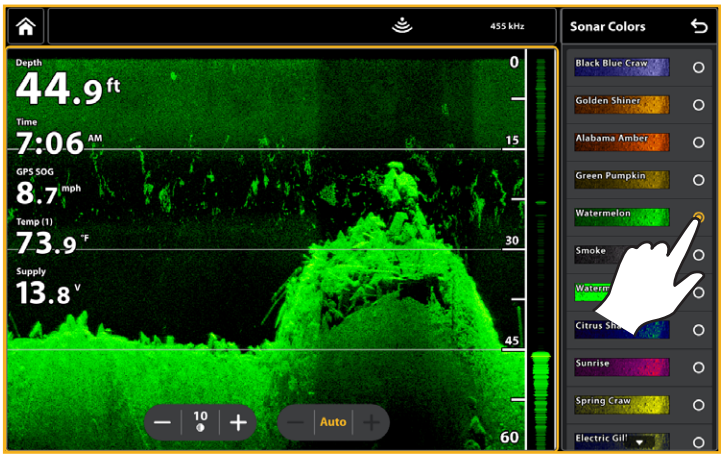
1. With a Down Imaging View displayed on-screen, tap the Menu ☰ icon in the Top Bar, or press the MENU ☰ key once.
2. Select a display option or select Settings.

## Change the Color Palette

The Sonar Colors menu changes the colors used to display sonar returns on the view.

1. With a Down Imaging View displayed on-screen, tap the Menu ☰ icon in the Top Bar, or press the MENU ☰ key once.
2. Select Sonar Colors.
3. Select a color palette.

**Down Imaging View with a Customized Sonar Color**




## Turn on/off Dynamic Contrast

Dynamic Contrast automatically enhances the contrast of the selected color palette.

1. With a Down Imaging View displayed on-screen, tap the Menu ☰ icon in the Top Bar, or press the MENU ☰ key once.
2. Select Dynamic Contrast.
3. Tap the on/off button, or press the ENTER key, to turn it on/off.

## Set the Zoom Mode

The Zoom Mode sets the zoom commands to magnify the full pane or the cursor selection. See ***Use Cursor and Zoom in Sonar Views*** to apply the zoom features.

1. With a Down Imaging View displayed on-screen, tap the Menu ☰ icon in the Top Bar, or press the MENU ☰ key once.
2. Select Settings.
3. Select Zoom Mode.
4. Select Pane Zoom or Cursor Zoom.

| | |
|---|---|
| **Pane Zoom** | When you use pinch out/in (touch screen) to zoom, or press the +/– ZOOM keys, the view will be magnified. |
| **Cursor Zoom** | When you use pinch out/in (touch screen) to zoom, or press the +/– ZOOM keys, the cursor selection will be magnified. |

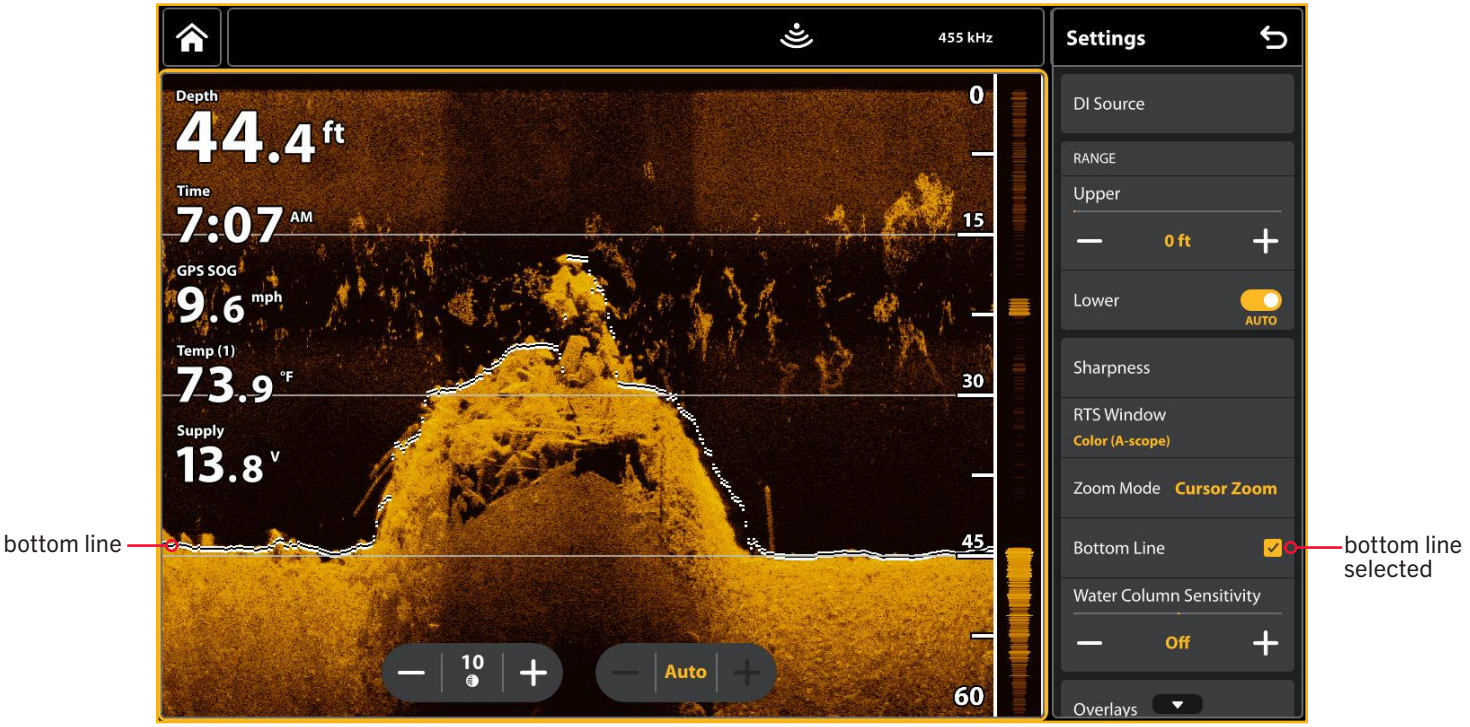
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## Display the Bottom Line

Add a check mark to Bottom Line to display the depth reading from the Depth Source as a line, either from the selected transducer or another digital depth source. See ***Set up your Fish Finder Network*** for details about selecting sources.

1. With a Down Imaging View displayed on-screen, tap the Menu ☰ icon in the Top Bar, or press the MENU ☰ key once.
2. Select Settings.
3. Select Bottom Line, and tap the on/off button, or press the ENTER key, to turn it on/off.

**Down Imaging View with Bottom Line Displayed**




## Display the RTS Window

The RTS Window plots the depth and intensity of a sonar return. It updates at the fastest rate possible for depth conditions and shows only the returns from the bottom, structure, and fish that are within the transducer beam. When you use the cursor to review sonar history, the sonar history will pause, but the RTS Window will continue to display sonar returns in real time.

1. With a Down Imaging View displayed on-screen, tap the Menu ☰ icon in the Top Bar, or press the MENU ☰ key once.
2. Select Settings.
3. Select RTS Window.
4. Tap the on/off button, or press the ENTER key, to turn it on. Then, choose the type of RTS Window to display.

| | |
|---|---|
| **Color (A-Scope)** | Sonar returns are displayed in color. The size of the displayed lines correspond with the intensity of the sonar returns from the transducer beam(s). |
| **Color (Full)** | Sonar returns are displayed in color, and they fill the width of the RTS Window. |
| **Mono** | Sonar returns are displayed in black. |

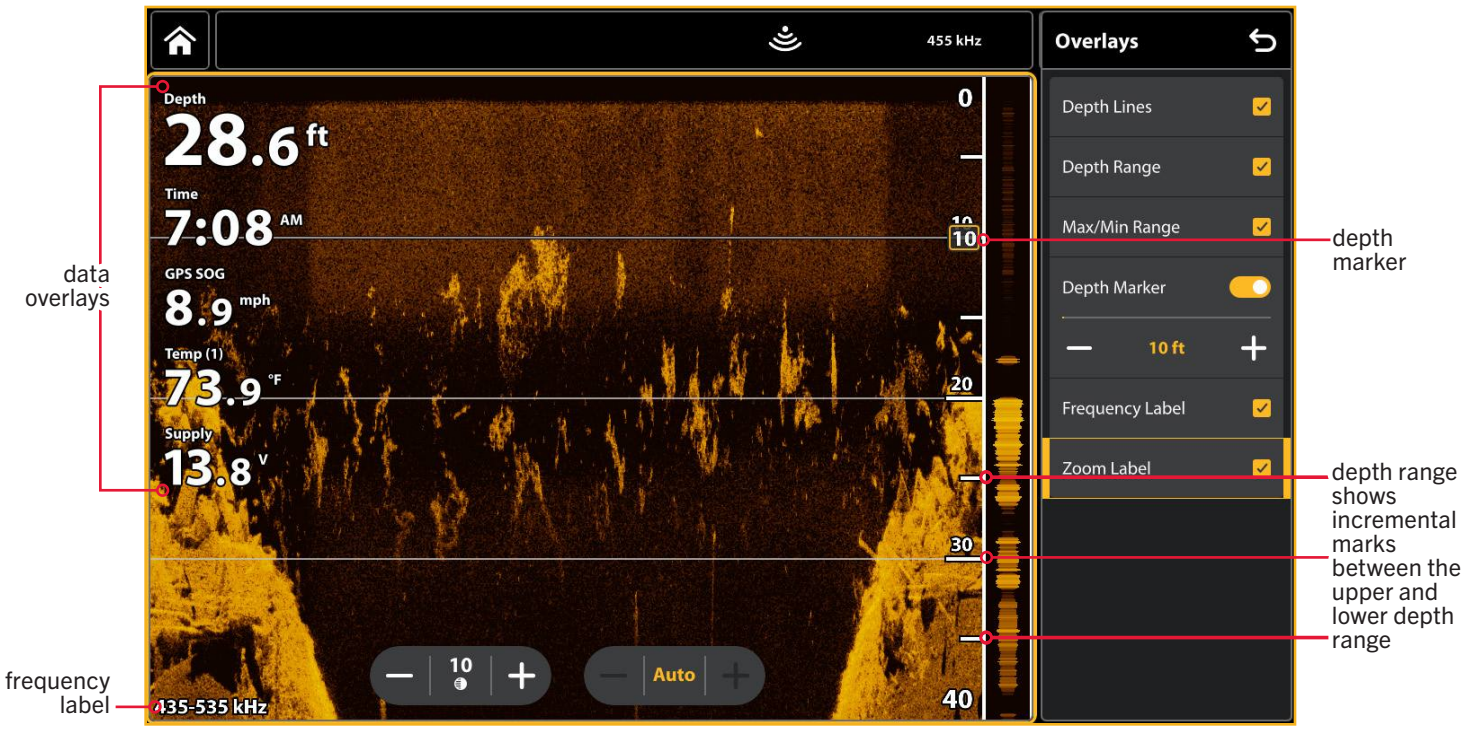

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## CHANGE THE DOWN IMAGING VIEW OVERLAYS ❯

Use the Overlays menu to display or hide information on the view. In the Down Imaging View, you can display the following: depth lines, depth range, depth marker, beam frequency label, and zoom label. Digital readout data can be displayed as an overlay, and it can be displayed in the data bar. To turn on the data bar, see ***Views: Display a Data Bar***. For more information about data overlays, see ***Views***.

1. With a Down Imaging View displayed on-screen, tap the Menu ☰ icon in the Top Bar, or press the MENU ☰ key once.
2. Select Settings.
3. Select Overlays.
4. Tap the menu, or use the Cursor pad/Joystick to select an item, and add a check mark. (check mark = visible, blank = hidden).

**Selecting Overlays for the Down Imaging View**




## ADJUST DOWN IMAGING DISPLAY SETTINGS ❯

The Down Imaging Menu provides options to adjust the sensitivity, contrast, and range as you fish. You can also control how fast the sonar history scrolls across the screen. The menu options allow you to see more or less of the sonar returns from the transducer beams as you adjust each setting.

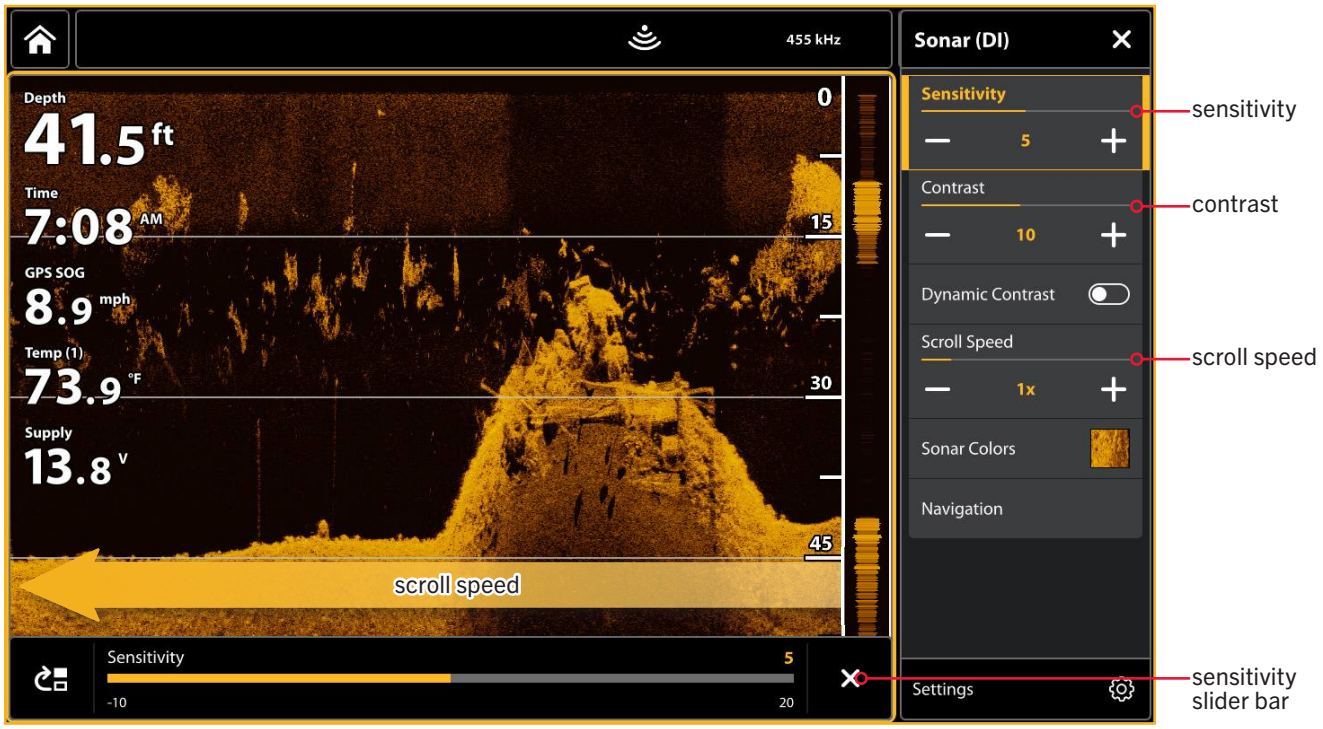
# ❯ Adjust Display Settings

1. With a Down Imaging View displayed on-screen, tap the Menu ☰ icon in the Top Bar, or press the MENU ☰ key once.
2. Select Sensitivity, Contrast, or Scroll Speed.
3. Drag the slider, or press the +/- ZOOM keys, to adjust the setting.

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| | |
|---|---|
| **Sensitivity** | Sensitivity controls how much detail is shown on the display and will adjust the sensitivity of all sonar frequencies. Decrease sensitivity to eliminate display clutter sometimes present in murky or muddy water. When operating in very clear water or greater depths, increase the sensitivity to see weaker returns that may be of interest.<br>**QUICK TIP!** This setting can also be changed by tapping the sensitivity in-pane button on the DI View. |
| **Contrast** | Adjust the Contrast setting to accent the light and dark parts of the Side Imaging data to provide greater definition. |
| **Scroll Speed** | Scroll Speed determines how fast the sonar history moves across the display and how much detail is shown. Select a faster speed to see more detail. Select a slower speed to keep the sonar history on the display longer. |

**Adjusting Down Imaging Display Settings**




**QUICK TIP!** The Sensitivity setting can also be changed by tapping the Sensitivity in-pane button on the DI View.

## Adjust Water Column Sensitivity

The Water Column Sensitivity settings is used to increase or decrease the sensitivity of the sonar return that is in the water column.

1. With a Down Imaging View displayed on-screen, tap the Menu ☰ icon in the Top Bar, or press the MENU ☰ key once.
2. Select Settings.
3. Select Water Column Sensitivity.
4. Drag the slider, or press the +/- keys, to adjust the setting.


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## Adjust the Sharpness

Turn on Sharpness and select a filter level to sharpen the edges of the Down Imaging data.

1. With a Down Imaging View displayed on-screen, tap the Menu icon in the Top Bar, or press the MENU key once.
2. Select Settings.
3. Select Sharpness.
4. Tap the on/off button, or press the ENTER key, to turn it on/off.
5. Select filter level of Low, Medium, or High.

## Set the Range

Range controls how much of the water column is displayed on the view. For example, if you are only interested in the area between 20 and 50 feet deep, set the Upper Range to 20 and the Lower Range to 50. The view will not display sonar returns outside of the set ranges, and greater detail for the selected range will be displayed.

1. With a Down Imaging View displayed on-screen, tap the Menu icon in the Top Bar, or press the MENU key once.
2. Select Settings.
3. Select Range.
4. Select Upper Range. Drag the slider, or press the +/- keys, to adjust the setting.
5. Select Lower Range.

   **Auto:** Toggle to Auto. The Lower Range will be adjusted by the fish finder to follow the bottom automatically.

   **M (Manual):** Toggle to M (Manual) and adjust the setting.

**QUICK TIP!** The Range can also be changed by tapping the Range tool on the DI View.

## Select Frequencies

If there are multiple beams available in a transducer, you can display individual frequencies on the view. See ***Installation Information: Set up your Fish Finder Network***, ***Select Sonar Sources*** and ***Set up or Change Transducer Settings*** for details.

1. With a Down Imaging View displayed on-screen, tap the DI Frequency icon in the Top Bar.
2. Select a frequency from the list.

   **455 kHz**
   **800 kHz**
   **MEGA**

**QUICK TIP!** This setting can also be changed by pressing and holding the ENTER key.

**NOTICE:** If the fish finder is using a sonar source with only one beam frequency, the frequency list will not offer additional options.

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# NAVIGATION IN SONAR VIEW

To mark waypoints and start navigation, the fish finder must have a GPS fix from a connected or internal GPS receiver. The navigation menus can be accessed from the X-Press Menu, touch screen, and the keypad.

## MARK A WAYPOINT

You can mark a waypoint on the Sonar Views using the keypad or touch screen. You can also mark a waypoint at the vessel position or the cursor position.

### Mark a Waypoint at the Vessel Position

1. Select the Mark icon in the Top Bar or press the MARK key.
2. Select a Waypoint icon from the Favorites menu.

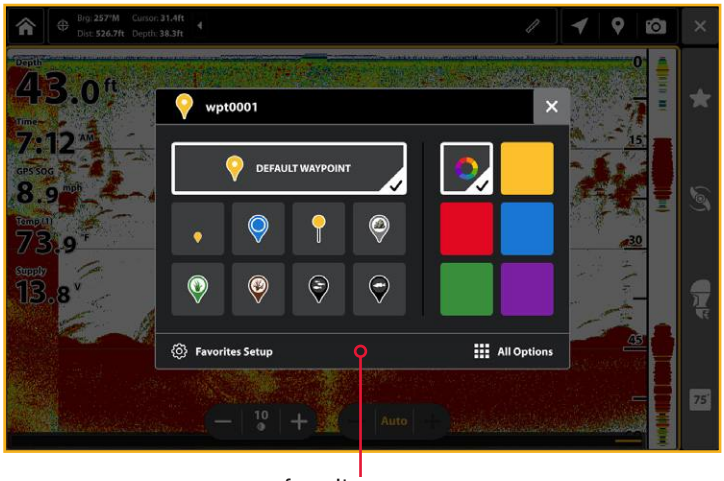
### Mark a Waypoint at the Cursor Position

1. Press and hold a position on the Sonar View.

   OR

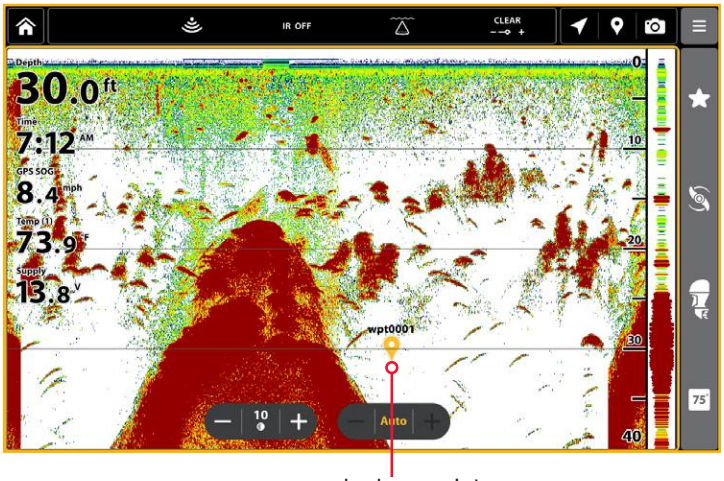
   Use the Cursor pad/Joystick to move the cursor to a position on the Sonar View, and press the MARK key.
2. Select a Waypoint icon from the Favorites menu.

**Marking a Waypoint in 2D Sonar View**




favorites menu

**Waypoint in 2D Sonar View**




marked waypoint


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**NAVIGATE TO A POSITION ›**

Use the instructions in this section to start navigation to a position in the Sonar Views. See ***Introduction to Navigation*** for more information about these features.

## › Start Navigation

1. Tap a position on the Sonar View to activate the cursor, or use the Cursor pad/Joystick to move the cursor to a position on the view.
2. Press the NAV key.

   OR

   Press the MENU ☰ key, and select Navigation.
3. Select Go To Cursor. Navigation will begin.

**NOTICE:** In Side Imaging Views, if SI Navigation is turned on, the boat icon will turn to indicate the direction the boat needs to turn to reach the next waypoint during navigation (see ***Customize the Side Imaging View: Turn on/off SI Navigation***).

## › Cancel Navigation

1. During navigation, tap the Menu ☰ icon in the Top Bar or press the MENU ☰ key.
2. Select Cancel Navigation.

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# SONAR RECORDING

Use the Sonar Recording tool to record active sonar information. Sonar recordings are saved to an installed SD card, and you can play your saved sonar recordings from the Record tool. When the recording is played back, the views that were active during the recording are available. You can also adjust the view settings and mark waypoints during playback.

**NOTICE:** A microSD or SD card must be installed in the fish finder to use the Recording features.

## Start Recording

When you start a sonar recording, you can select which beams will be recorded and where the sonar recording will be saved.

1. Press the HOME key.
2. Select Tools.
3. Select the Record tool.
4. Select Record Sonar, and set up the sonar recording:

   Select Recording Sources, and select the beams to be recorded.

   Select Save Location, and select an installed SD card.
5. Select Start Recording.

   The Sonar Recording icon will display in the Sonar Top Bar.

## Stop Recording

1. Press the HOME key.
2. Select Tools.
3. Select the Record tool.
4. Under Record, select Stop Recording.

   OR

1. With a Sonar View on-screen, tap the Menu icon in the Top Bar, or press the MENU key once.
2. Select Stop Recording.

## Play a Sonar Recording

1. Press the HOME key.
2. Select Tools.
3. Select the Record tool.
4. Tap the recording name, or use the Cursor pad/Joystick to select it.
5. Select Start.

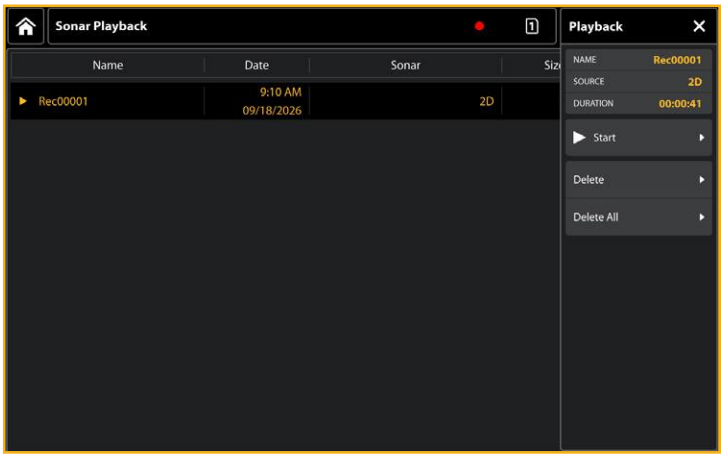

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## Open the Playback Control Menu

The Playback Control menu includes stop, pause, forward or reverse for the recording played on the screen.

1. Play a sonar recording.
2. Tap the Play icon ▶ from the Top Bar.

**Sonar Recording Playback Menu**




## Stop Playback

1. Press the HOME key.
2. Select Tools.
3. Select the Record tool.
4. Tap the recording name, or use the Cursor pad/Joystick to select it.
5. Select Stop.

OR

1. With a Sonar View on-screen, tap the Menu icon in the Top Bar, or press the MENU key once.
2. Tap the Play icon ▶ from the Top Bar to open the Playback menu.
3. Select Stop.

## Delete a Recording

1. Press the HOME key.
2. Select Tools.
3. Select the Record tool.
4. Press and hold the recording name.
5. Select Delete.

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# MEDIA TOOL

The Media tool displays the screen snapshots and sonar recordings saved to the fish finder or to the installed SD cards. You can edit, rename, copy, and delete a screen snapshot.

## TAKE A SCREEN SNAPSHOT ❯

Use the screen snapshot feature to take a picture of the on-screen view. The screen snapshot includes the warnings, menus, and messages that were active when the screen snapshot was taken. If Save Position is turned on, a waypoint will be marked when you take the screen snapshot. See ***Screen Snapshot Settings*** for details.

1. Tap the Capture icon in the Top Bar or press the MEDIA key.
2. Select one of the following options:

   **Save Screen Capture:** Select to save the current screen snapshot.

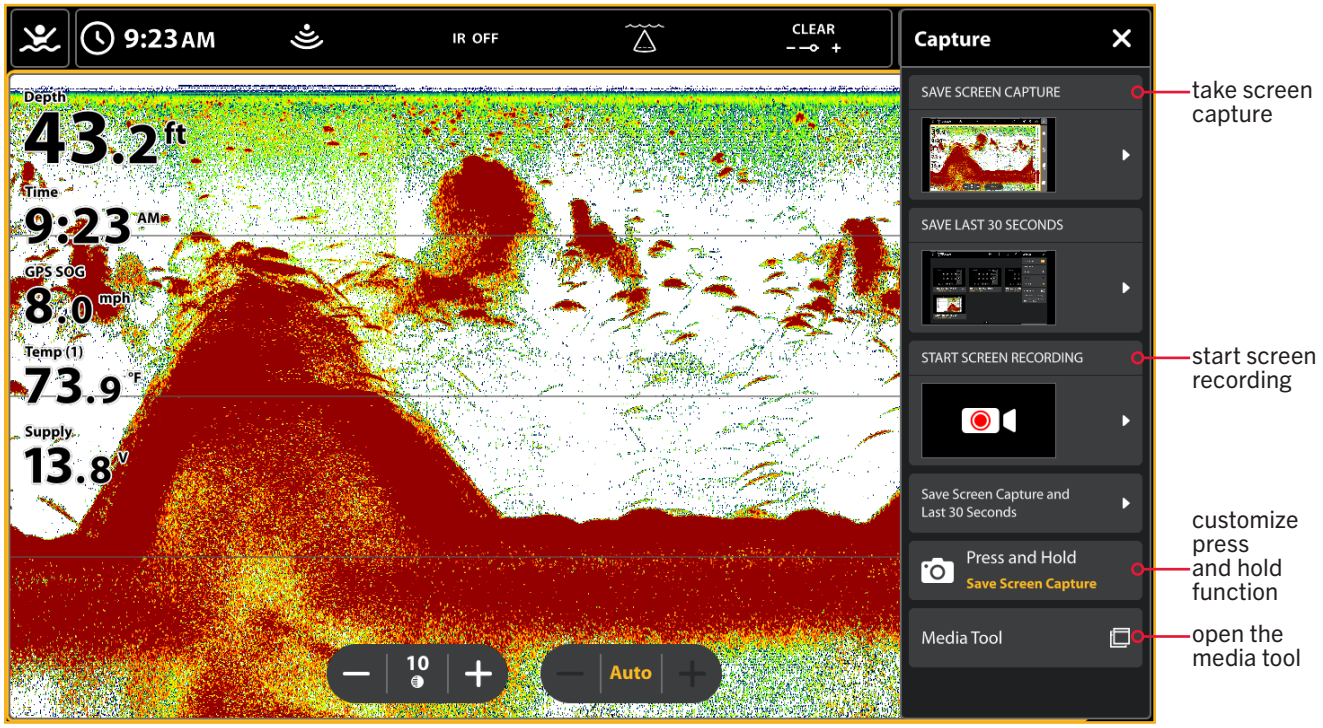
   **Save Last 30 Seconds:** Select to save the the last 30 seconds of activity as a screen recording.

   **Start Screen Recording:** Select to start a screen recording.

   **Edit the Press and Hold function:** Select to edit the function of the Press and Hold Capture icon. The default is set to Save Screen Capture.

   **Open the Media Tool:** Select to open the Media Tool.

**Taking a Screen Capture**





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**OPEN THE MEDIA TOOL ›**

Open the Media tool to see all the screen snapshots saved to the fish finder or installed SD cards. You can also view each save location individually, and the images can be sorted by name or date, or filtered by source and media type.

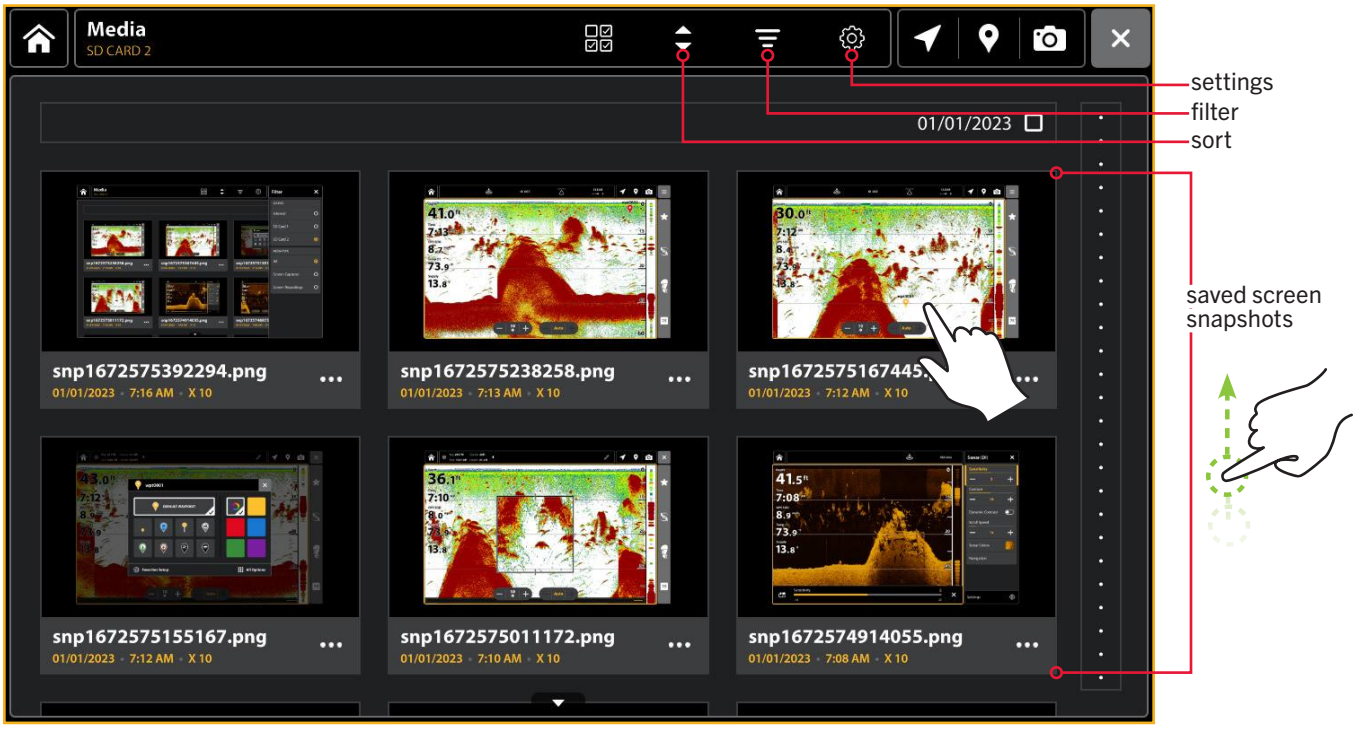
## › Open the Media Tool

1. Press the HOME key.
2. Select Tools.
3. Select the Media tool.

   OR

1. Tap the Capture icon in the Top Bar or press the MEDIA key.
2. Select Media tool.

**Browsing Screen Snapshots in the Media Tool**




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## Sort Screen Snapshots

1. From the Media tool Top Bar, select Sort
2. Select a sort option to sort by Date or Name.

## Filter Media

1. From the Media tool Top Bar, select Filter.
2. Select a filter option to filter by source or media type.

### SCREEN SNAPSHOT SETTINGS

Screen snapshots are automatically saved to the fish finder as JPG files. To save screen snapshots to an SD card, set up the save location in advance.

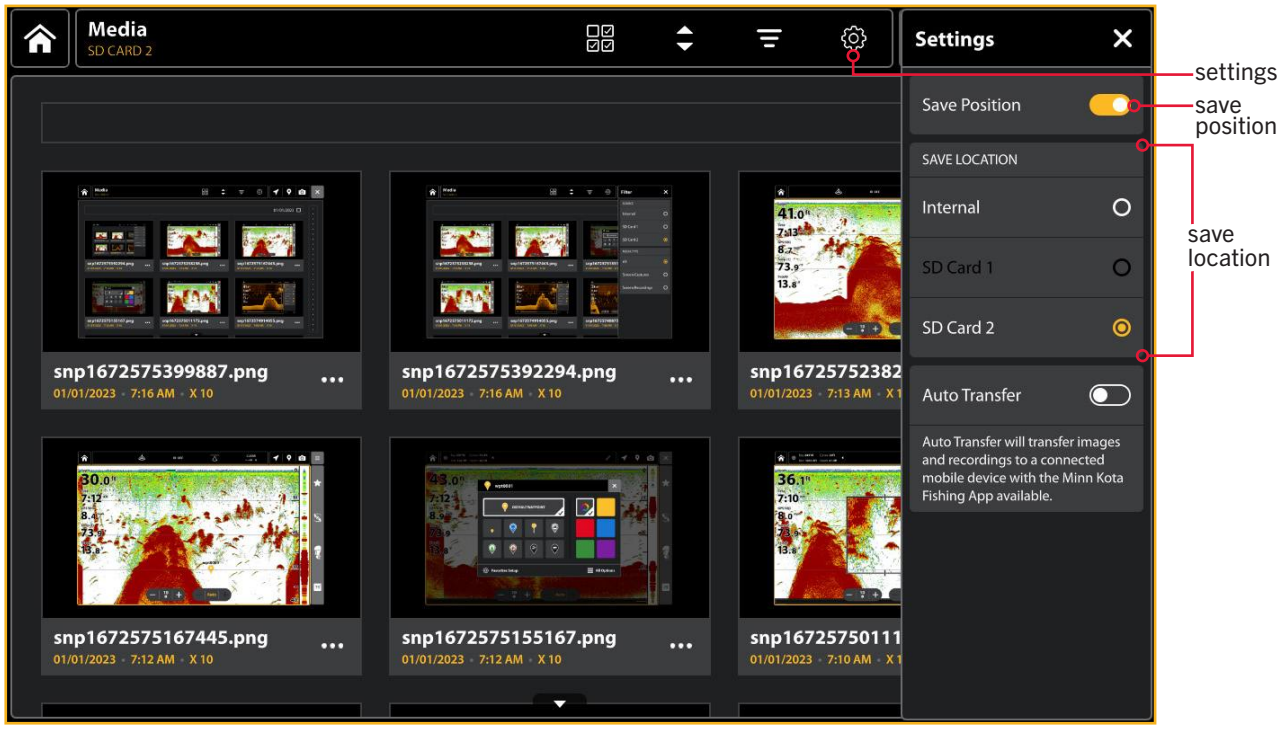
## Save Screen Snapshots to an SD Card

1. Install an SD card into a fish finder port.
2. Press the HOME key.
3. Select Tools.
4. Select the Media tool.
5. From the Media tool Top Bar, select Settings.
6. Under Save Location, select an installed source:

   Fish Finders with Vertical SD Card Slots: left port = SD Card 1 or right port = SD Card 2; default = Internal

   Fish Finders with Horizontal SD Card Slots: top port = SD Card 1 or bottom port = SD Card 2; default = Internal

**Media Tool Settings**





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## Save the Position with a Screen Snapshot

1. From the Media tool Top Bar, select Settings.
2. Under Save Position, tap the on/off button, or press the ENTER key, to turn it on/off.

   When a screen snapshot is taken with Save Position turned on, the screen snapshot will display a waypoint icon in the Media tool preview.

## Select One or More Screen Snapshots

1. From the Media tool Top Bar, select Select.
2. Choose either Select or Select All.

   Select: Tap to place a checkmark next to every snapshot you want to select

   Select All: Tap to select all media.

### DISPLAY SCREEN SNAPSHOTS AND SLIDESHOW

When you select a saved screen snapshot (JPG file) from the Media tool, you can display it in full-screen using the touch screen or keypad.

## Display a Screen Snapshot

1. From the Media tool, tap a screen snapshot.

   **Scroll to the Next Image/Previous Image:** Tap the on-screen arrows.

   **Return to the Media Tool:** Tap the on-screen X icon.

### EDIT SCREEN SNAPSHOTS

The Media Options menu allows you to edit the name and review the file information for the selected screen snapshot. You can also copy screen snapshots to another save location or delete them.

## Change a Screen Snapshot Name

1. From the Media tool, tap the More icon in the bottom right corner of the media file to open the Media Options menu.
2. Select Name. Use the on-screen keyboard to enter a name.
3. Select Save.

## Review Screen Snapshot Information

When you save a screen snapshot, the date and time the screen snapshot was taken is saved. If Save Position is turned on, the position and waypoint name are also saved with the screen snapshot. Use these instructions to review the saved information.

1. From the Media tool, tap the More icon in the bottom right corner of the media file to open the Media Options menu.
2. Select Full Info.

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## Export/Copy a Screen Snapshot

1. From the Media tool, tap the More icon in the bottom right corner of the media file to open the Media Options menu.
2. Select Export/Copy.
3. Select a location to save the copy.

## Delete a Screen Snapshot

1. From the Media tool, tap the More icon in the bottom right corner of the media file to open the Media Options menu.
2. Select Delete.


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# INSTALLATION INFORMATION

This section includes information that may be required to connect new equipment or a new accessory to the fish finder. There are several configurations available for your fish finder. You can network fish finders, connect accessories to an Ethernet network, and connect to a NMEA 2000 network. For configuration options and the latest Minn Kota accessories, visit our Web site at minnkota.johnsonoutdoors.com.

Installation guides are included with each hardware component to install equipment purchased separately (transducer, heading sensor, radar, AIS, autopilot, and accessories). See your installation guides for details.

**Unused Ports:** Any unused ports should be covered with the port covers to prevent potential damage to the fish finder.

**Cables:** We also recommend that you label the cables with waterproof tags for future reference.

## ⚠ CAUTION

Before you connect cables to the fish finder, or disconnect cables, the fish finder power and equipment power sources must be turned off.

**NOTICE:** If you have questions about the installation or troubleshooting, see your fish finder installation guide. Also, contact Minn Kota Technical Support at minnkota.johnsonoutdoors.com.

### SET UP OR CHANGE TRANSDUCER SETTINGS ❯

When you connect a transducer to a Minn Kota fish finder, the transducer will be detected in the network automatically. The best transducer source will be chosen and start pinging automatically. If you connect an accessory transducer to the network, the unit will recognize the new transducer.

## ⚠ CAUTION

The instructions in this section are advanced and not recommended for the typical user. Changing these settings incorrectly could damage the transducer.

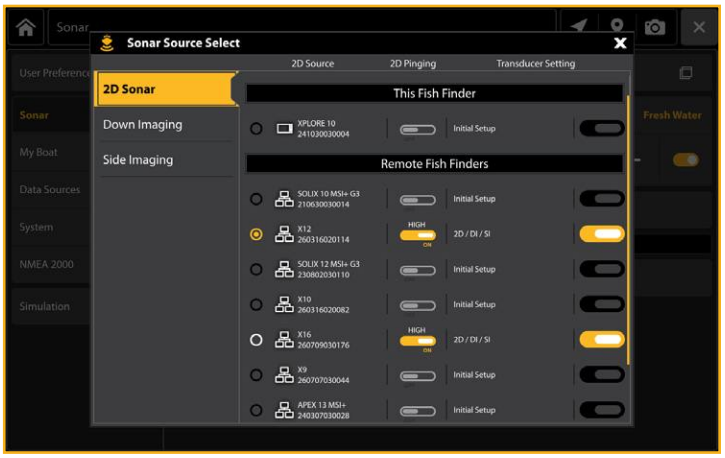
**NOTICE:** Minn Kota has provided the best settings for your unit. You can use the settings included with your fish finder, or you can adjust these advanced options.

## ❯ Change Transducer Sources

Use the instructions in this section to turn on and off transducers.

1. Press the HOME key.
2. Select Settings.
3. Select Sonar.
4. Select Sonar Source.
5. Tap the on/off button, or press the ENTER key, to turn it on/off.

**Changing the Sonar Source**




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## Set up or Change Transducer Settings (not recommended)

Use the instructions in this section to disable auto-configure for a transducer.

1. Press the HOME key.
2. Select Settings.
3. Select Sonar.
4. Select Transducer Setup.
5. Select Auto-Configure.
6. Tap the on/off button, or press the ENTER key, to turn it on/off.
7. Sonar Capabilities: With Auto-Configure turned off, add a check mark next to each sonar capability.

   For example, for a 2D transducer, the 2D Sonar menu needs to be checked. For a Side Imaging transducer, 2D Sonar, SI Sonar, and DI Sonar need to be checked because the transducer includes all three capabilities.

**NOTICE:** The capabilities of your sonar model are shown on the packaging, or you can find your transducer on our Web site at minnkota.johnsonoutdoors.com.

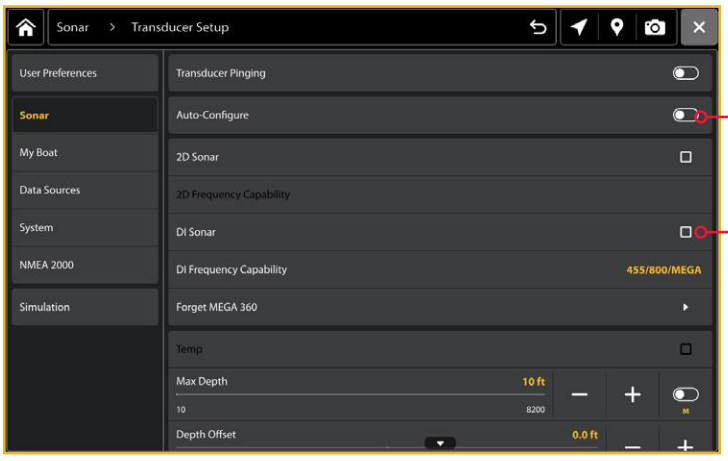
8. Frequencies: Select the Frequency Capability Menu under each checked sonar capability. Select an individual frequency.
9. Temp: If the transducer includes a temperature probe, add a check mark to Temp.
10. Max Depth (optional): When Max Depth is set to Auto, the maximum depth is determined by the transducer frequency, and the fish finder will acquire bottom readings as needed (within the capacity of the unit). Auto is the recommended setting for this menu.

    To manually set the Max Depth, select MAN (Manual), and adjust the slider to the maximum depth setting. The transducer will not attempt to acquire sonar data below that depth, so more detail will be shown on the sonar view.
11. Depth Offset (optional): Depth Offset adjusts the digital depth readout to indicate the distance from the transducer to the waterline.

**NOTICE:** Make sure all capabilities have a check mark so the full functionality of the transducer is enabled. To select sonar sources from the network, see ***Set up your Fish Finder Network***.

**NOTICE:** The menu options are determined by the connected transducer.

**Transducer Setup**





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## Change the Water Type

Use the instructions in this section to change the Water Type setting.

1. Press the HOME key.
2. Select Settings.
3. Select Sonar.
4. Select Water Type.
5. Select Fresh Water, Salt Water (200 ft [61 m) or deeper), or Salt Water Shallow (20 ft [6.1 m] or less). Tap the item or use the Cursor pad/Joystick to make your selection.

## Adjust the Noise Filter (not recommended)

Use Noise Filter to limit the interference that may appear on the sonar views from sources such as your boat engine, turbulence, or other sonar devices.

1. Press the HOME key.
2. Select Settings.
3. Select Sonar.
4. Select Noise Filter.
5. Tap the on/off button, or press the ENTER key, to turn it on.
6. Tap the +/- icons, or press the +/- ZOOM keys, to adjust the setting.

## Change the Side Imaging Orientation (MEGA SI models only)

Use SI Orientation to switch how the Side Imaging beams are displayed on the Side Imaging View. This menu option can be used if the port and starboard beams are reversed during installation, which might be the case if a transducer is installed incorrectly. For further assistance, contact Minn Kota Technical Support.

1. Press the HOME key.
2. Select Settings.
3. Select Sonar.
4. Select Transducer Setup.
5. Turn Auto-Configure off.
6. Select SI Orientation.
7. To display the beams as the transducer(s) is installed, select Normal.

   To change how the beams are displayed so that port and starboard are switched, select Reverse.

## Turn on SI Background Pinging

Use the instructions in this section to turn on SI Background Pinging. This will enable SI to ping even when the view is not displayed.

1. Press the HOME key.
2. Select Settings.
3. Select Sonar.
4. Select SI Background Pinging.
5. Tap the on/off button, or press the ENTER key, to turn it on.

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## CONFIGURE THE FISH FINDER

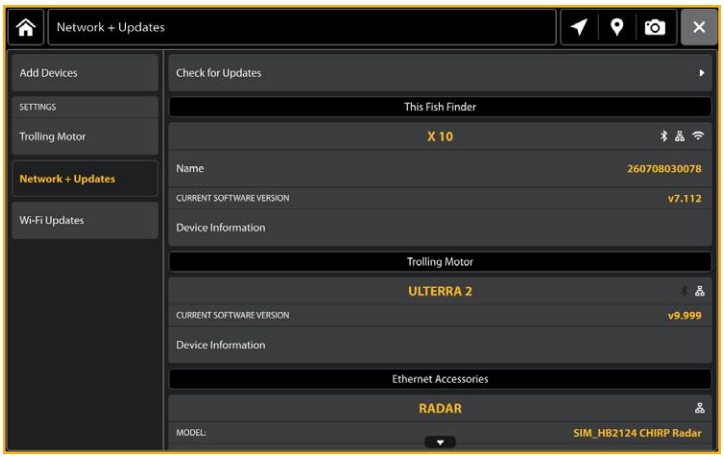
Use the instructions in this section to review fish finder and network connections and name the fish finders and networks.

### Review System Connections

Use the Network + Updates tool to review fish finder information such as the software version and serial number. You can also review connection information for the equipment connected to the fish finder ports, and you can change the fish finder name.

1. Press the HOME key.
2. Select Network + Devices.
3. Select Network + Updates.
4. Scroll to view system information.

**Network + Updates**




### Change the Fish Finder Name

When a fish finder is part of a network, you can change its name so it is easy to identify as a source on the network.

1. From the Network + Updates tab (above), tap the name of the unit. Use the on-screen keyboard to change the fish finder name.
2. Select Save.

## REAR PORT CONNECTIONS (GPS AND NMEA 0183) - APEX ONLY

When equipment is connected to the fish finder, the equipment and its data will be detected automatically. You can also manually select data, set the data offset, baud rate, and NMEA output sentences from the Sensor Port sub-menus. The available menus are determined by the attached equipment.

1. Press the HOME key.
2. Select Settings.
3. Select System.
4. Select Rear Connectors.
5. Select GPS / NMEA 0183.

   If you've connected an external GPS or an external GPS/Heading Sensor or a NMEA 0183 device to the fish finder, use the following menu options to select the Sensor Type, Data Offset, Baud Rate, and NMEA 0183 Output.


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| | |
|---|---|
| **Sensor Type** | Auto-Select is turned on as the default setting, and the available data from the attached sensor will be auto-selected with a check mark.<br>To change the selected data, turn off Auto-Select, and manually change the data by adding or removing a check mark. (check mark = selected) |
| **Data Offset** | To adjust the zero point of the attached sensor, select Data Offsets. Depending on the attached sensor, you can adjust the Depth Offset, Temperature Offset, Heading Adjustment, and STW (Speed Through Water) Calibration from this menu.<br>For example, select Depth Offset to adjust the digital depth readout to indicate the depth from the waterline or the boat's keel for the selected sensor. |
| **Baud Rate** | Select a baud rate for the selected port. (Auto, 4800, 9600, 38400; Default = Auto) |
| **NMEA 0183 Output** | Select NMEA Output sentences for the selected port. See the NMEA 0183 table on the following pages. |

**NOTICE:** To set up a NMEA 2000 network, see Set up a NMEA 2000 Network.

**NMEA 0183 ❯**

| Message | Description | Input | Output |
|---|---|---|---|
| **AAM** | Waypoint Arrival Alarm | | • |
| **APB** | Heading/Track Controller (Autopilot) Sentence "B" | | • |
| **BOD** | Bearing-Origin to Destination | | • |
| **BWC** | Bearing & Distance to Waypoint - Great Circle | | • |
| **BWR** | Bearing & Distance to Waypoint - Rhumb Line | | • |
| **DBT** | Depth Below Transducer | • | • |
| **DPT** | Depth | • | • |
| **GGA** | Global Positioning System Fix Data | • | • |
| **GLL** | Geographical Position - Latitude/Longitude | • | • |
| **GNS** | GNSS Fix Data | • | • |
| **GSA** | GNSS DOP and Active Satellites | • | • |
| **GSV** | GNSS Satellites In View | • | • |
| **HDG** | Heading, Deviation & Variation | • | • |

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| Message | Description | Input | Output |
|---|---|---|---|
| **HDM** | Heading, Magnetic | • | • |
| **HDT** | Heading, True | • | |
| **MTW** | Water Temperature | • | • |
| **MWD** | Wind Direction & Speed | • | |
| **MWV** | Wind Speed & Angle | • | |
| **RMB** | Recommended Minimum Navigation Information | | • |
| **RMC** | Recommended Minimum Specification GNSS Data | • | • |
| **ROT** | Rate of Turn | • | • |
| **VBW** | Dual Ground/Water Speed | • | |
| **VDM** | AIS VHD Data Link (Other Vessels) | • | |
| **VDO** | AIS VHD Data Link (Own Vessel) | • | |
| **VHW** | Water Speed and Heading | • | • |
| **VTG** | Track Made Good & Ground Speed | | • |
| **XDR** | Transducer Measurements | • | |
| **XTE** | Cross-Track Error, Measured | | • |
| **ZDA** | Time & Date | • | • |

## Configure the NMEA Talker ID

Use the following instructions to change the NMEA 0183 Talker ID to match the NMEA 0183 installed accessory.

1. Press the HOME key.
2. Select Settings.
3. Select System > Rear Connectors > GPS / NMEA 0183.
4. Select NMEA 0183 Output.
5. Under Configure NMEA Talker ID, select IN-Integrated Navigation (Default) or GP-Global Positioning System.


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# SET UP A NMEA 2000 NETWORK

Use the instructions in this section if a NMEA 2000 network is connected to the fish finder.

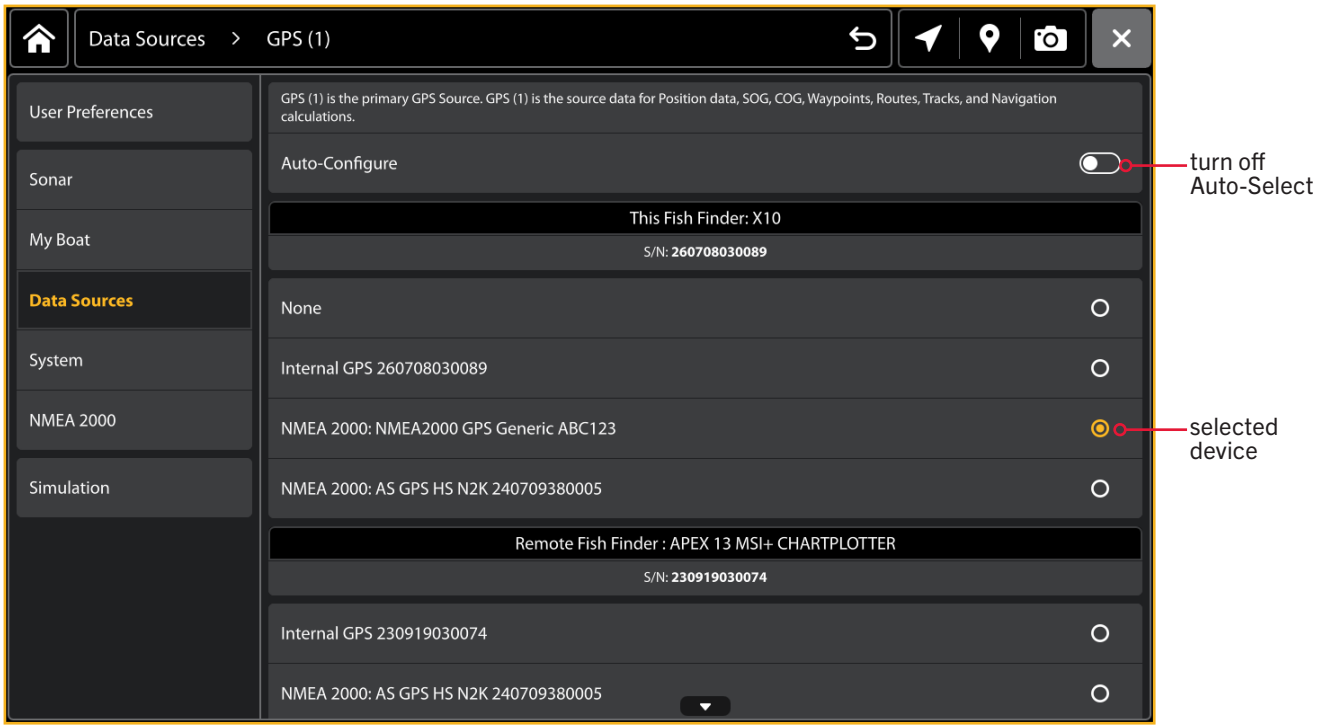
When equipment is connected to the fish finder, the equipment and its data will be detected automatically. You can also manually select equipment. The available menus are determined by the attached equipment.

**NOTICE:** Minn Kota recommends that the NMEA 2000 network be installed by a certified NMEA 2000 technician. See **NMEA.org** for details.

## Turn on the NMEA 2000 Network

1. Press the HOME key.
2. Select Settings.
3. Select NMEA 2000.
4. Select NMEA 2000 Network.
5. Tap the on/off button, or press the ENTER key, to turn it on/off.

**NMEA 2000 Network Devices Selected Manually**




## Select NMEA 2000 Devices Manually (optional)

When equipment is connected to the fish finder, the equipment and its data will be detected automatically. Use the instructions in this section to manually select devices to use on the NMEA 2000 network. See the illustrations on the following pages.

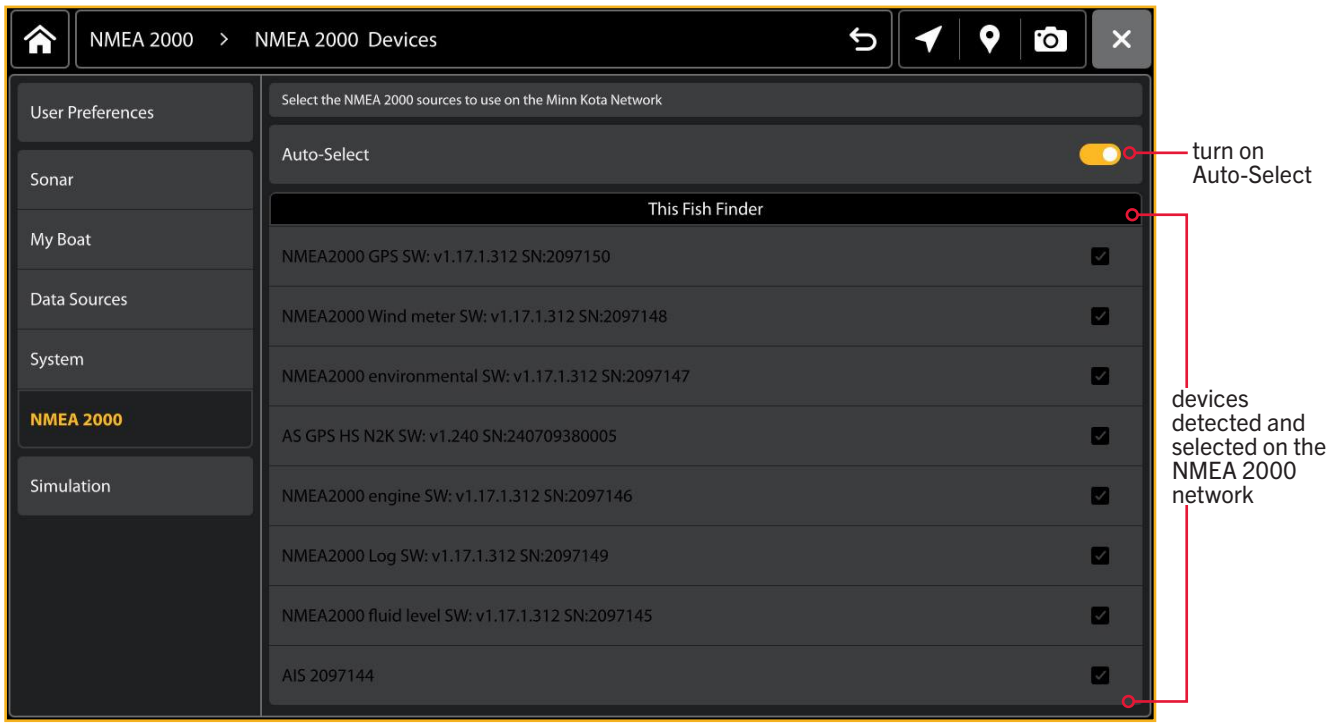
1. Press the HOME key.
2. Select Settings.
3. Select NMEA 2000.

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# SET UP A NMEA 2000 NETWORK

4. Select NMEA 2000 Devices.
5. Select Auto-Select. Tap the on/off button, or press the ENTER key, to turn it off.
6. Select devices to add to the NMEA 2000 network. (check mark = included, blank = not included)

**NMEA 2000 Network Devices Selected Automatically**




## NMEA 2000 MESSAGES (PGN)

The following NMEA 2000 input/output messages are available when NMEA 2000 is turned on and the related NMEA 2000 equipment is detected and selected as a source.

| Message (PGN) | Description | Input | Output |
|---|---|---|---|
| 059392 | ISO Acknowledgment | • | • |
| 059904 | ISO Request | • | • |
| 060928 | ISO Address Claim | • | • |
| 126208 | Group Function | • | • |
| 126464 | Receive/Transmit PGN List | • | • |
| 126992 | System Time | • | • |
| 126996 | Product Information | • | • |
| 127245 | Rudder | • | |
| 127250 | Vessel Heading | • | • |
| 127251 | Rate of Turn | • | |


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| Message (PGN) | Description | Input | Output |
|---|---|---|---|
| **127257** | Attitude | • | |
| **127258** | Magnetic Variation | • | |
| **127488** | Engine Parameters, Rapid Update | • | |
| **127489** | Engine Parameters - Dynamic | • | |
| **127496** | Trip Parameters Vessel | • | |
| **127497** | Trip Parameters Engine | • | |
| **127500** | Load Controller Connection State | • | |
| **127501** | Binary Status Report | • | |
| **127502** | Switch Bank Command | • | |
| **127505** | Fluid Level | • | |
| **127506** | DC Detail Status | • | |
| **127508** | Battery Status | • | |
| **127513** | Battery Configuration Status | • | |
| **128259** | Speed Water Referenced | • | |
| **128267** | Water Depth | • | |
| **129025** | Position Rapid Update | • | • |
| **129026** | COG & SOG, Rapid Update | • | • |
| **129029** | GNSS Position Data | • | • |
| **129033** | Time & Date | • | • |
| **129044** | Datum | • | |
| **129283** | Cross Track Error | • | |
| **129284** | Navigation Data | • | • |
| **129285** | Navigation - Route/WP Information | • | |
| **129539** | GNSS DOPs | • | |
| **129540** | GNSS Sats in View | • | |
| **130052** | Loran C TD Data | • | |
| **130306** | Wind Data | • | |
| **130310** | Environmental Parameters | • | |
| **130311** | Environmental Parameters | • | |
| **130312** | Temperature | • | |
| **130313** | Humidity | • | |

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| Message (PGN) | Description | Input | Output |
|---|---|---|---|
| 130314 | Actual Pressure | • | |
| 130323 | Meteorological Station Data | • | |
| 130569 | Entertainment Current File Status | | • |
| 130570 | Entertainment Library Data File | • | • |
| 130571 | Entertainment Library Data Group | • | • |
| 130572 | Entertainment Library Data Search | • | • |
| 130573 | Entertainment Supported Source Data | • | |
| 130574 | Entertainment Supported Zone Data | • | |
| 130576 | Small Craft Status | • | |
| 130577 | Direction Data | • | |
| 130579 | Entertainment System Config Status | • | |
| 130581 | Entertainment Zone Config Status | • | |
| 130582 | Entertainment Zone Volume Status | • | • |
| 130584 | Entertainment Bluetooth Devices | • | • |
| 130585 | Entertainment BT Source Status | • | |

## NMEA 2000 AIS Messages (PGN)

The following NMEA 2000 input/output messages are available when NMEA 2000 is turned on and an AIS is detected and selected as a source on the NMEA 2000 network.

| Message (PGN) | Description | Input | Output |
|---|---|---|---|
| 129038 | Class A Position Report | • | |
| 129039 | Class B Position Report | • | |
| 129041 | AIS A to N Position Report | • | |
| 129793 | AIS UTC and Date Report | • | |
| 129794 | AIS Static and Voyage Report A | • | |
| 129798 | AIS SAR Aircraft Position | • | |
| 129802 | AIS Broadcast Safety Message | • | |
| 129809 | AIS Class B Static Data, Part A | • | |
| 129810 | AIS Class B Static Data, Part B | • | |


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## SET UP NMEA 2000 ENGINE SOURCES ❯

When a NMEA 2000 Engine is connected to the NMEA 2000 network, it is detected by the fish finder. The fish finder will provide prompts to set up engines in the system. The fish finder assigns a number to each engine. The sources are numbered lowest to highest, where 0 (zero) is the lowest and first source identified. You can use the sources identified by the fish finder, or you can manually assign an engine to each source number.

For example, Engine 1 reports data from the engine identified as the number 0 Instance in installation (typically the engine located on the port side of the boat towards the bow), and Engine 2 is the engine identified as the number 1 instance in installation (typically the engine located on the starboard side of the boat towards the keel).

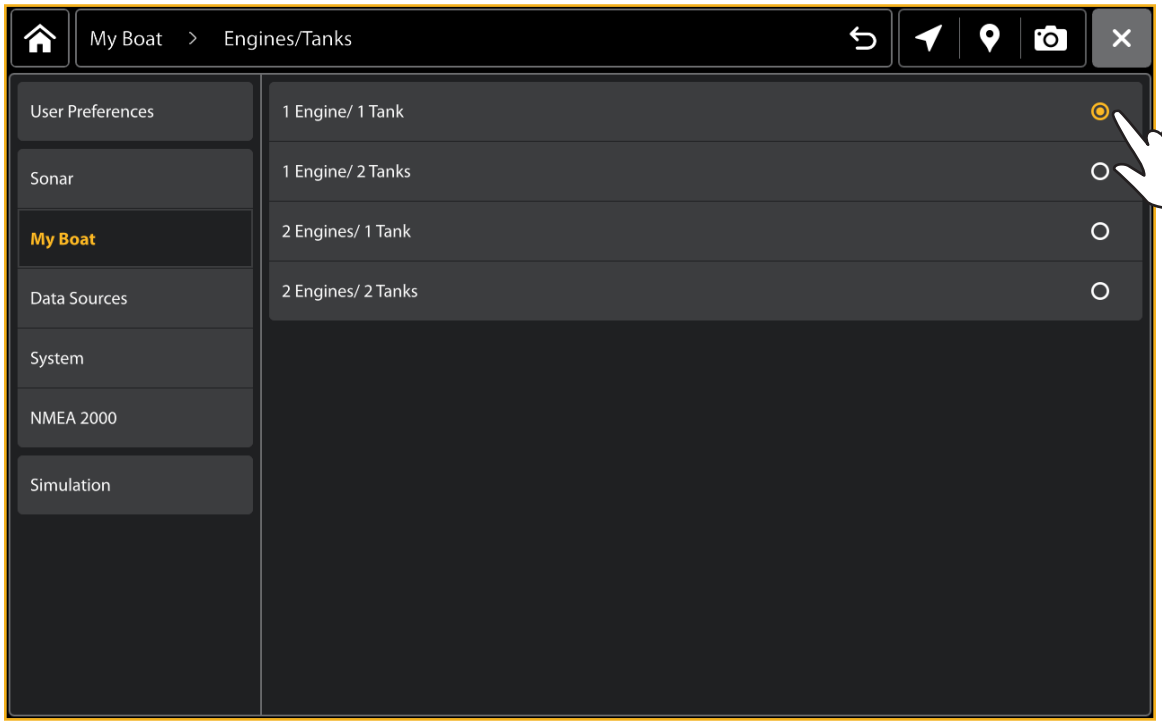
**NOTICE:** See ***Views: Set up an Instrument View*** to set up the instrument views for your engine data.

# ❯ Set up the Number of Engines

The number of engines and tanks are entered using the Setup Guide during initial installation. Use the instructions in this section to change the number of engines and tanks displayed on the fish finder.

1. Press the HOME key.
2. Select Settings.
3. Select My Boat.
4. Select Engines/Tanks.
5. Select the total number of engines and fuel tanks on your boat.

**Engine/Tank Setup**



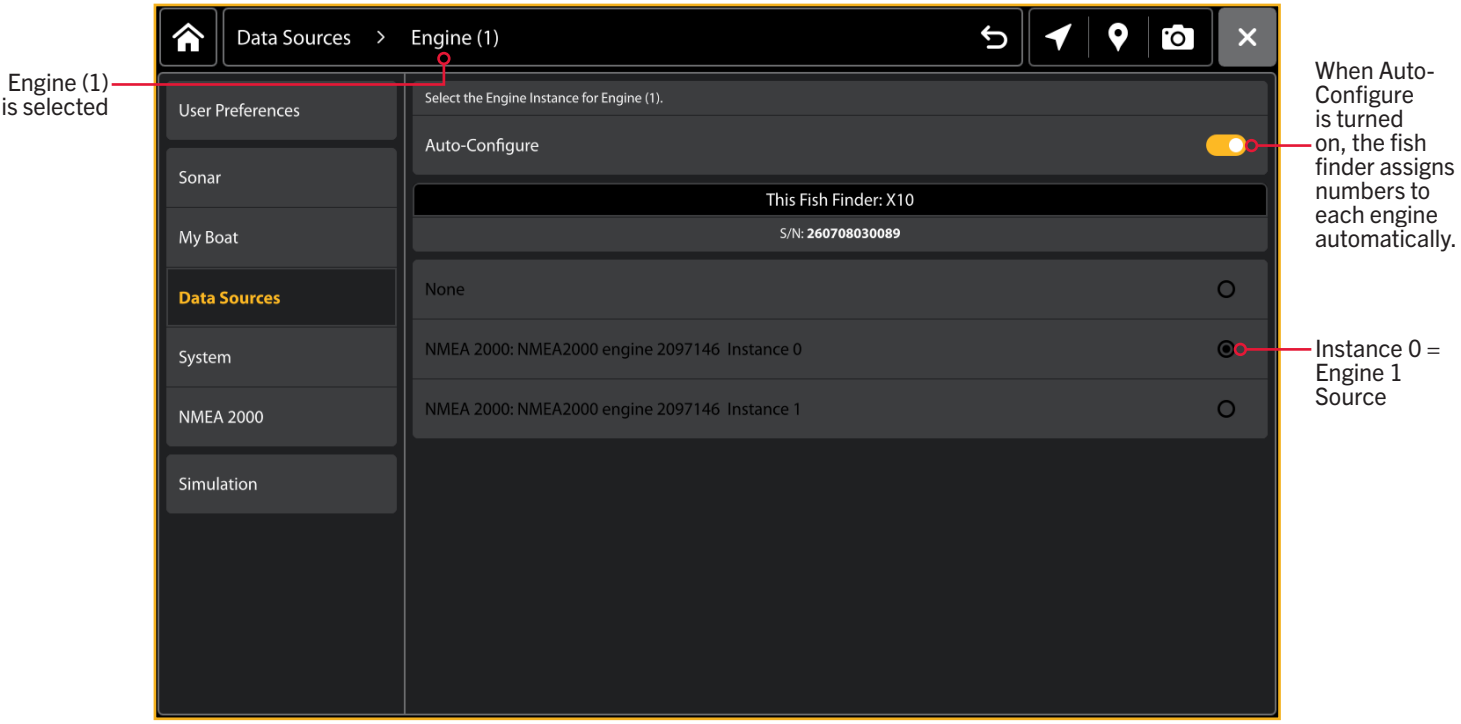

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## Change the Engine Source Assignments

The instructions in this section are optional and allow you to change which engine is assigned as the Engine 1 or Engine 2 source in the fish finder.

1. Press the HOME key.
2. Select Settings.
3. Select Data Sources.
4. Under Engine Data, select Engine 1 or Engine 2.
5. Turn off Auto-Configure.
6. Select an Engine from the list.

**Engine 1 Source Auto-Configured**




**SET UP FUEL TANKS**

The Setup Guide provides prompts to set up the fuel tanks in the system, and it assigns a source number to each fuel tank. If a NMEA 2000 fuel tank sensor and a fuel flow rate sensor are installed, the fish finder can display fuel levels automatically. If only a fuel flow rate sensor is installed, you need to set up the fuel tanks manually to manage fuel levels.

## Set up the Number of Tanks

The number of engines and tanks are entered using the Setup Guide during initial installation. Use the instructions in this section to change the number of engines and tanks displayed on the fish finder.

1. Press the HOME key.
2. Select Settings.
3. Select My Boat.


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4. Select Engines/Tanks.
5. Select the total number of engines and fuel tanks on your boat.

   If you do not have a NMEA 2000 fuel tank sensor, proceed to ***Set the Fuel Tank Capacity***.

## Set the Fuel Tank Capacity

If there is a fuel flow rate sensor installed, but not a NMEA 2000 fuel tank sensor, use the instructions in this section to set up fuel tank data manually. You can also use these instructions to confirm Automatic Fuel Management Mode if you have a NMEA 2000 fuel tank sensor and a fuel flow rate sensor installed.

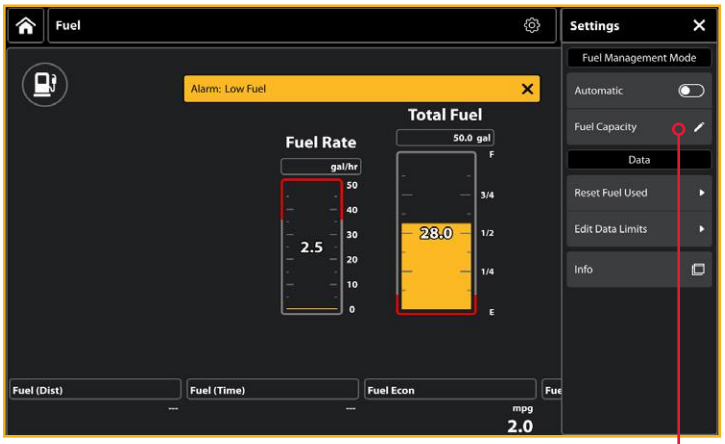
1. Set up the number of fuel tanks on the boat. See ***Set up the Number of Tanks***.
2. Press the HOME key.
3. Select the Fuel tool.
4. Select Settings.
5. Select Manual.

**NOTICE:** If NMEA 2000 fuel tank sensor and a fuel flow rate sensor are installed, select Auto to automatically detect the fuel tank capacity.

6. Select Fuel Capacity.
7. Use the on-screen keyboard to enter the total fuel capacity of the tank.

   If there is more than one tank on the boat, indicate the total amount of fuel from all tanks.
8. Select Save.

**Setting up Fuel Tanks Manually**

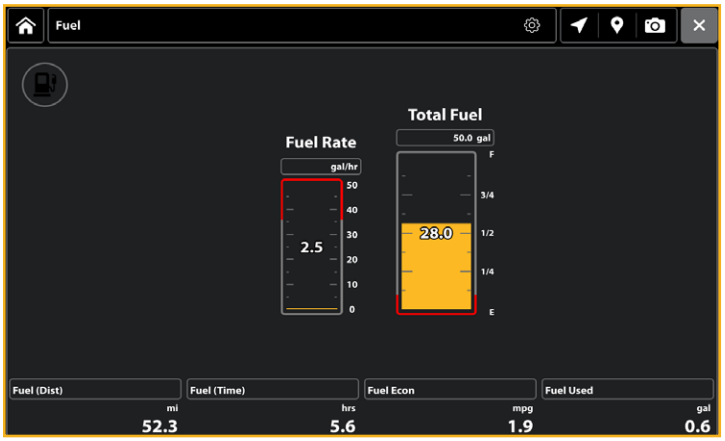



edit fuel capacity

## Open the Fuel Tool

1. Press the HOME key.
2. Select Tools.
3. Select the Fuel tool.

**Displaying the Fuel Tool**




## Refill the Tank(s)

The menu options in this section are determined by the Fuel Management Mode (Manual or Automatic). See ***Set the Fuel Tank Capacity*** for more information.

1. Open the Fuel tool.
2. Select the Settings icon, and select Refuel.
3. **To fill the tank to the top,** select Fill Up or Reset Fuel Used.

   **To add an amount to the tank,** select Add Fuel. Use the on-screen keyboard to enter the amount and save it.

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## Change the Fuel Tank or Fuel Flow Source Assignments

The instructions in this section are optional and allow you to change which fuel tank is assigned as the Tank 1 or Tank 2 source in the fish finder. You can also use these instructions to change the fuel flow rate Sensors (Fuel Flow) assignments. The menu options are determined by the type of sensors installed.

1. Press the HOME key.
2. Select Settings.
3. Select Data Sources.
4. Under Fuel Data, select Tank 1 or Tank 2.

   If fuel flow rate sensors are installed, select Fuel Flow - Engine 1 or 2.
5. Turn off Auto-Configure.
6. Select a fuel tank from the list.


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# SET UP YOUR FISH FINDER NETWORK

When the Minn Kota integrated system is fully installed and everything is connected on the same switch, the network will be auto-configured so the fish finders and equipment are synchronized across the network. Depending on your network configuration, your options may include sources from remote fish finder(s), NMEA 0183, Ethernet, and NMEA 2000.

**NOTICE:** All fish finders must be on the same software version to be connected to the network.

Use the instructions in this section to complete the following network setup requirements:

1. Configure a new network.
2. Select transducers from the network.
3. Change GPS sources.
4. Select data sources.
5. Set vessel display settings.

### 1 | VIEW NETWORK ❯

Use the instructions in this section to view the fish finders connected to the network. The network synchronizes the fish finder settings.

1. Press the HOME key.
2. Select Settings.
3. Select System.
4. Select Network Info.

### 2 | SELECT SONAR SOURCES ❯

When a transducer is first connected to the fish finder or network, it will be detected by all fish finders in the network. The fish finder selects the transducer connected to it as the primary sonar source. See minnkota.johnsonoutdoors.com for transducer configuration options.

**NOTICE:** Minn Kota has provided the best setting for your unit. You can use the settings included with your fish finder, or you can adjust these advanced options.

## ❯ Open the Sonar Source Menu

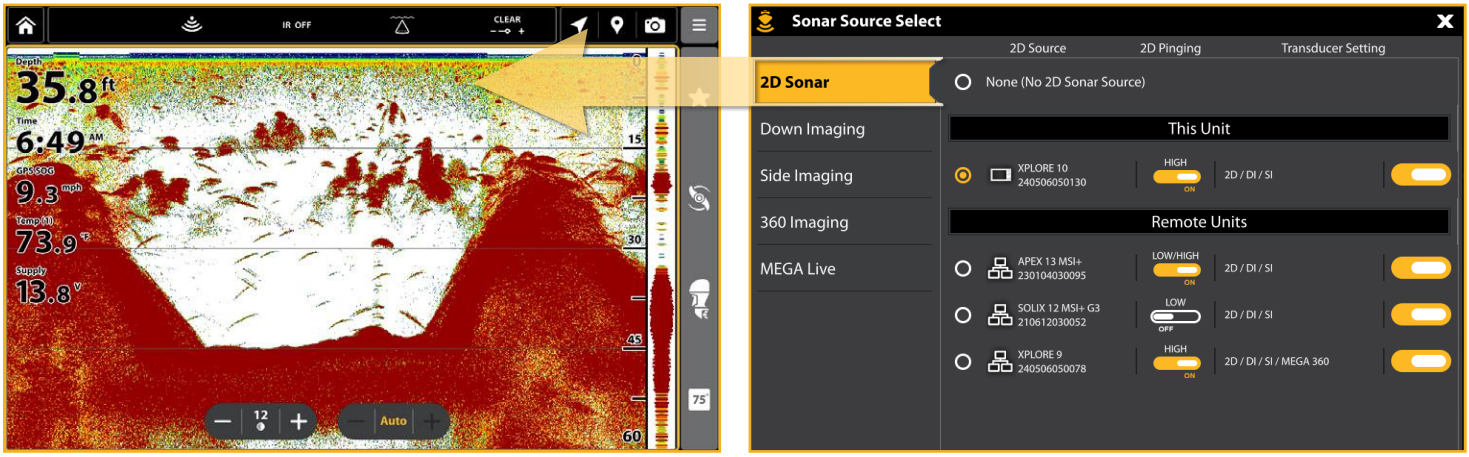
1. Press the HOME key.
2. Select Settings.
3. Select Sonar.
4. Select Sonar Source.

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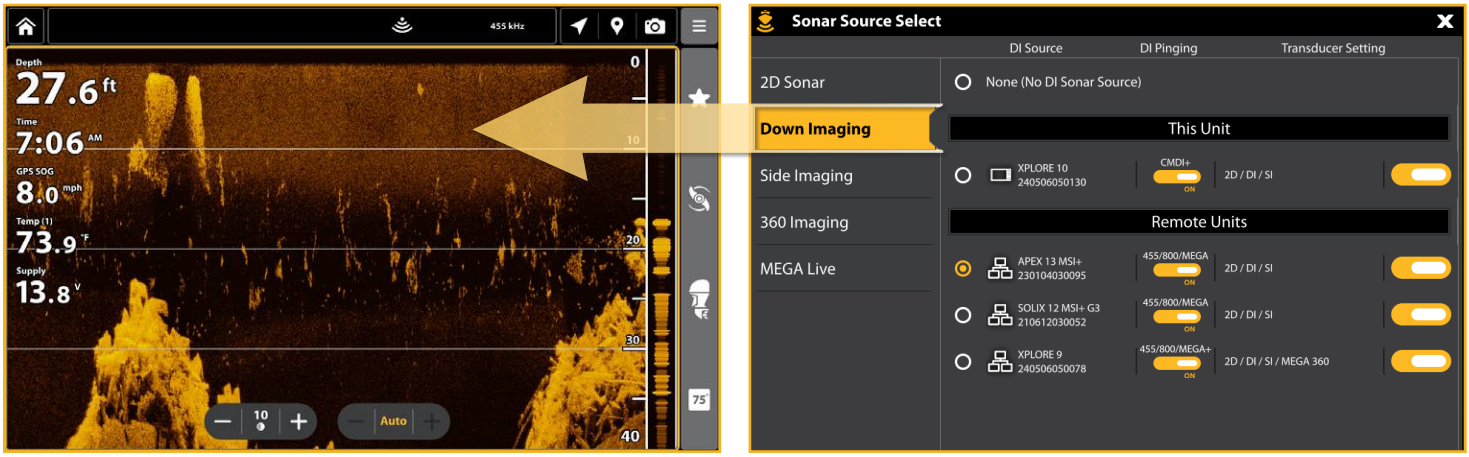
## Sonar Source Overview

When the network is configured, you can select any transducer from the network to provide the sonar data on the fish finder. The sonar sources can be shared between fish finders or you can use individual sonar sources on each fish finder.

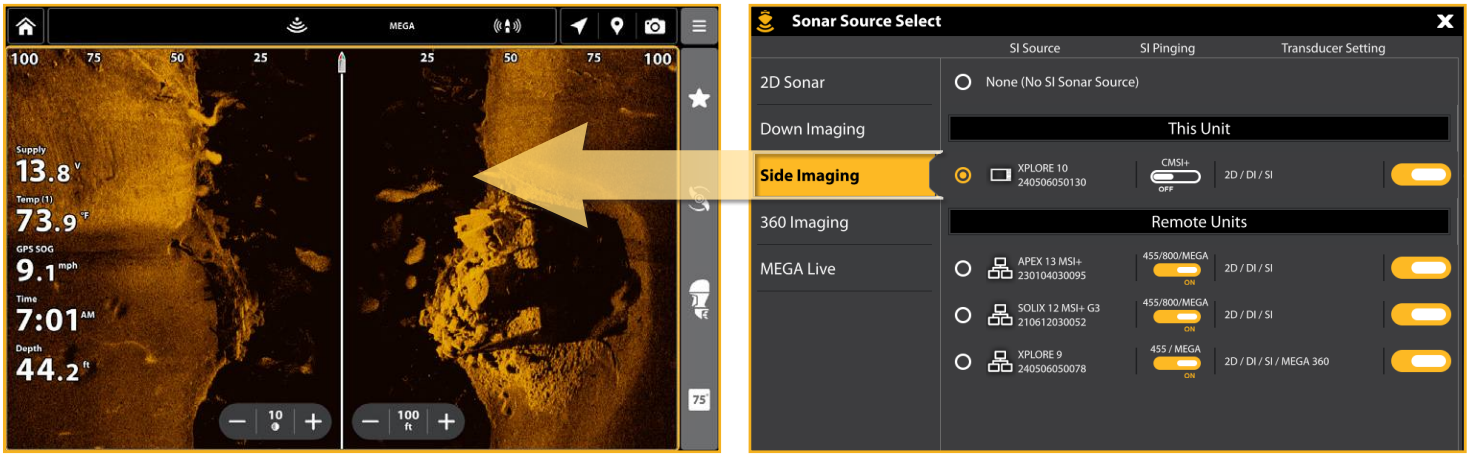
**The transducer you select on the 2D Sonar tab will provide the data for the 2D Sonar Views and related digital readouts.**




**The transducer you select on the Down Imaging tab will provide the data for the Down Imaging Views and related digital readouts.**




**The transducer you select on the Side Imaging tab will provide the data for the Side Imaging Views and related digital readouts.**





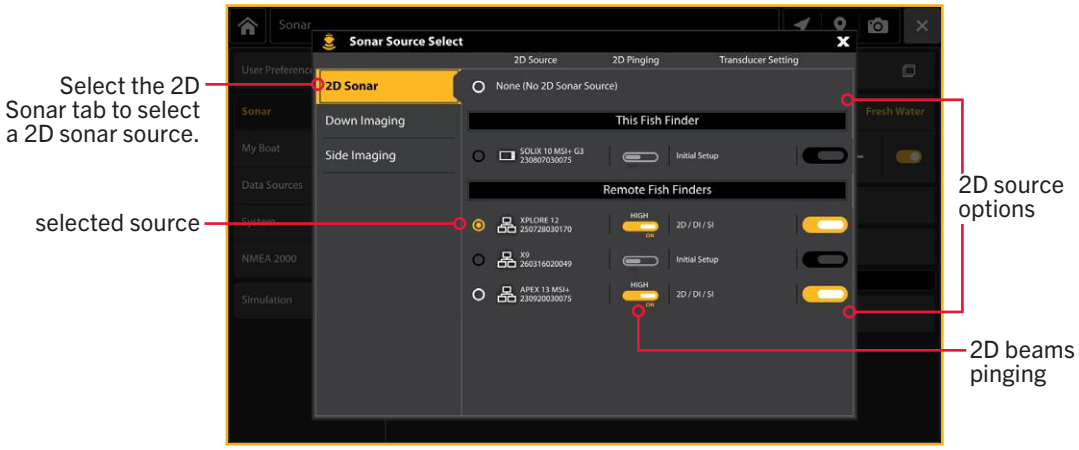
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## Select Sonar Sources

Use the instructions in this section to assign sonar sources to each fish finder. The sonar sources can be shared between fish finders or you can use different sonar sources on each fish finder.

1. From the Sonar Source Menu, select the first tab. In the following illustration, the first tab is 2D.

**Select Sonar Source**




2. Select the transducer connection location. The connection locations are displayed as follows:

   Selected fish finder (Local): the fish finder you are actively using

   Remote fish finder: additional fish finders connected to the network

3. Repeat steps 1 and 2 for each tab. You can select one sonar source on each tab.

**NOTICE:** The list is determined by the connected equipment on the network and the transducer type. DualBeam PLUS sonar sources will only be displayed on the 2D tab, Down Imaging sources will only be displayed on the Down Imaging tab, etc.

**NOTICE:** If you have installed an accessory transducer, and it is not displayed in the transducer list, see ***Installation Information***. When you turn on/off pinging or change the transducer settings, all fish finders sharing the transducer are affected.

### 3 | SELECT GPS SOURCES (OPTIONAL)

The fish finder defaults to the internal GPS receiver as the primary source (GPS [1]). If you connect an external GPS receiver to an APEX or SOLIX fish finder, it will be assigned as the primary source GPS (1). If the fish finder is part of an Ethernet or NMEA 2000 network, you can also select the GPS receivers from the network.

GPS (1) provides position data, Speed over Ground (SOG), Course over Ground (COG), waypoints, routes, tracks, and navigation calculations to the fish finder.

GPS (2) provides position data that is displayed in the GPS (2) data box.

You can also manually change which GPS receiver is the selected source for GPS (1) or GPS (2). For example, if you've connected an external GPS receiver to the fish finder, it will automatically be assigned as GPS (1), but you can assign it to GPS (2). This can be changed from the GPS Tool or from the Data Sources menu in Settings.

1. Press the HOME key.
2. Select Settings.
3. Select System.
4. Select Network Info.

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## Open the GPS Tool

1. Press the HOME key.
2. Select Tools.
3. Select the GPS tool.

## Select GPS Sources Automatically

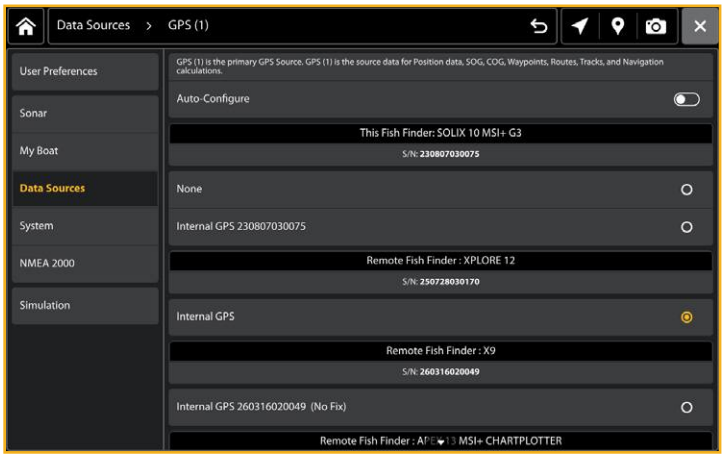
1. Under GPS Source, select GPS (1) or GPS (2).
2. Select Auto-Configure. Tap the on/off button, or press the ENTER key, to turn it on.

## Select GPS Sources Manually

Use the instructions in this section to manually select a GPS source.

1. Under GPS Source, select GPS (1) or GPS (2).
2. Select Auto-Configure. Tap the on/off button, or press the ENTER key, to turn it off.
3. Select a GPS receiver from the list.

**Select GPS Source Manually**




### 4 | SELECT DATA SOURCES (OPTIONAL)

When the network has been configured, you can choose sources from the entire network. Depending on your network configuration, your options may include sources from remote fish finder(s), NMEA 0183, Ethernet, and NMEA 2000. Sources are shared across the network. In some situations, sources can be individualized for each fish finder. For example, Fish Finder A can use one transducer and Fish Finder B can use a different transducer.

Auto-Configure: The Auto-Configure on/off button is displayed in each source category. When Auto-Configure is turned on, the sources are selected automatically by the fish finder. When Auto-Configure is turned off, you can select sources based on your preferences.

For example, if there are multiple heading sensors attached, the fish finder network will choose one sensor to provide the heading.

## Select Sources Automatically (default)

Auto-Configure is turned on by default, so the instructions in this section are only necessary if you've manually changed the source selection and want to return to a source being chosen automatically.

1. Press the HOME key.
2. Select Settings.
3. Select Data Sources.
4. Select a Data Category, and select the data type under that category.
5. Select Auto-Configure. Tap the on/off button, or press the ENTER key, to turn it on.

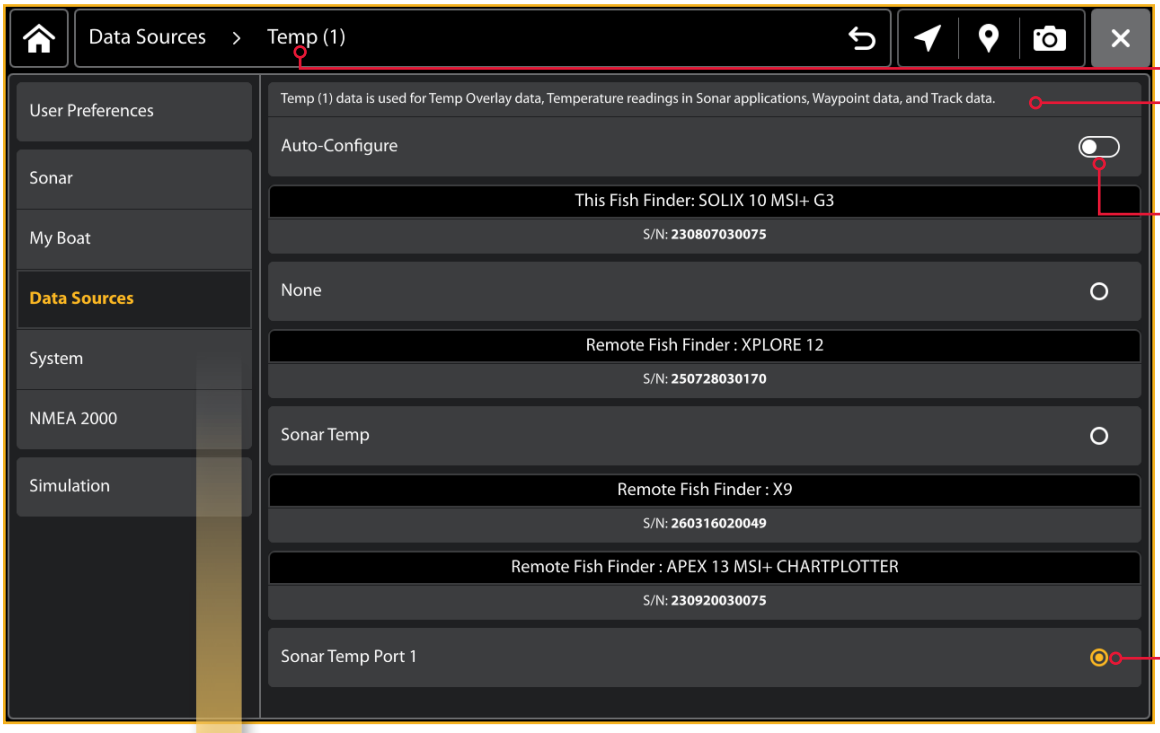
## Select Sources Manually (optional)

Use the instructions in this section to manually select a source.

1. Press the HOME key.
2. Select Settings.
3. Select Data Sources.
4. Select a Data Category, and select the data type under that category.
5. Select Auto-Configure. Tap the on/off button, or press the ENTER key, to turn it off.
6. Select a source from the list.


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## Manually Selecting a Source for Temp (1)



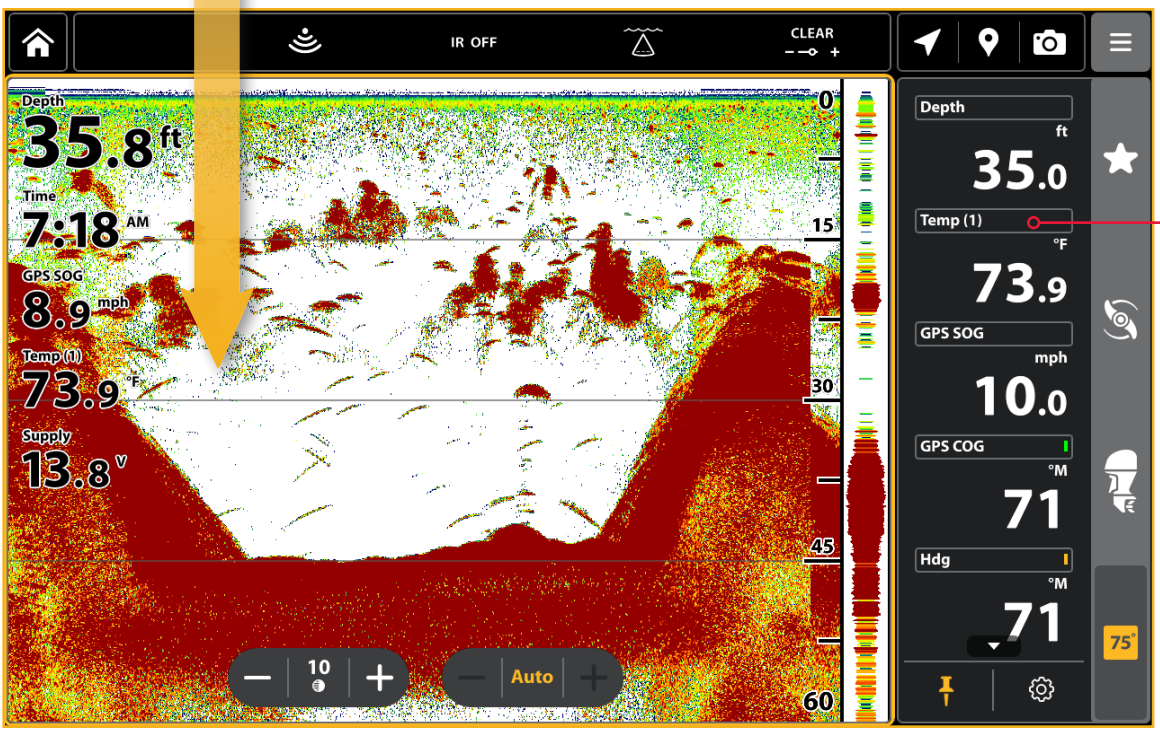

Temp (1) selected

information about selected source

When Auto-Configure is off, you can manually select a source.

selected source assigned to Temp (1)

The sources you select will provide the data for the related digital readouts and more, depending on your selection. In the illustration above, see Information about the Selected Source.




The Temp 1 digital readout data is provided by the Temp (1) source.

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# MANAGE YOUR FISH FINDER

Many of the fish finder settings can be accessed from the Settings tool (User Preferences) or from the Power X-Press Menu.

## Open the Settings Tool

1. Press the HOME key.
2. Select Settings.
3. Select User Preferences.

## Open the Power X-Press Menu

Many of the fish finder settings can be accessed quickly from the Power X-Press Menu. You can also turn off Radar transmission or change the transducer source from this menu.

1. Press the POWER key.

**ADJUST LIGHTING**

The lighting menus can be accessed from the Power X-Press Menu.

## Adjust the Backlight

1. Open the Power X-Press Menu.
2. Select Backlight.
3. Tap the +/- buttons, or use the Cursor pad/Joystick and +/- ZOOM keys, to adjust the setting.

## Turn on/off Night Mode

1. Open the Power X-Press Menu.
2. Select the Settings icon.
3. Select Night Mode and then select On, Off, or Auto.

**CHANGE KEY SOUNDS**

## Turn on/off Key Sounds

1. Press the HOME key.
2. Select Settings.
3. Select User Preferences.
4. Select Key Sounds.
5. Tap the on/off button, or press the ENTER key.


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# SPECIFICATIONS

The following sections contain the product specifications for the X Series, A Series, XPLORE, APEX and SOLIX G3 fish finder and the (included) transducer. For additional information about your product and/or transducers, visit our Web site at minnkota.johnsonoutdoors.com.

## X7 SERIES COMPACT MEGA SI ❯

**Control Head**

| | |
|---|---|
| **X7** Display Size (diagonal) | 7.0 inches (177.8 mm) |
| Pixel Matrix | WSVGA 1024 x 600 |
| Display Type | TFT Color |
| Backlight | LED |
| Communication | Bluetooth, NMEA 2000 Bus (LEN = 2), Ethernet, WiFi |
| Power Input | 10-20 VDC |
| Current Draw | 1.5 Amps |
| Recommended Fuse | 5 Amps |
| IXP Rating | IPX7 Waterproof/Submersible @ 1 m for 30 minutes and dust tight |

**CHIRP Compact MEGA SI Transducer (included)**

**XNT 14 HW CMSI T (includes built-in temperature probe)**

| | |
|---|---|
| Power Output (MAX) | 500 Watts (RMS), 4000 Watts (Peak to Peak) |

**MEGA Side Imaging**

| | |
|---|---|
| Operating Frequency | 455 kHz, MEGA Imaging+ |
| Range Capability | **455 kHz:** 405 - 505 kHz<br>**MEGA Imaging:** 1.100-1.200 MHz |
| Area of Coverage | **455 kHz:** 85° @ -10 dB<br>**MEGA Imaging+:** 75° @ -10 dB |

**MEGA Down Imaging**

| | |
|---|---|
| Operating Frequency | 455 kHz, MEGA Imaging |
| Range Capability | **455 kHz:** 420-520 kHz – 400ft (122m)<br>**MEGA Imaging:** 1.125-1.225 MHz – 200ft (61m) |

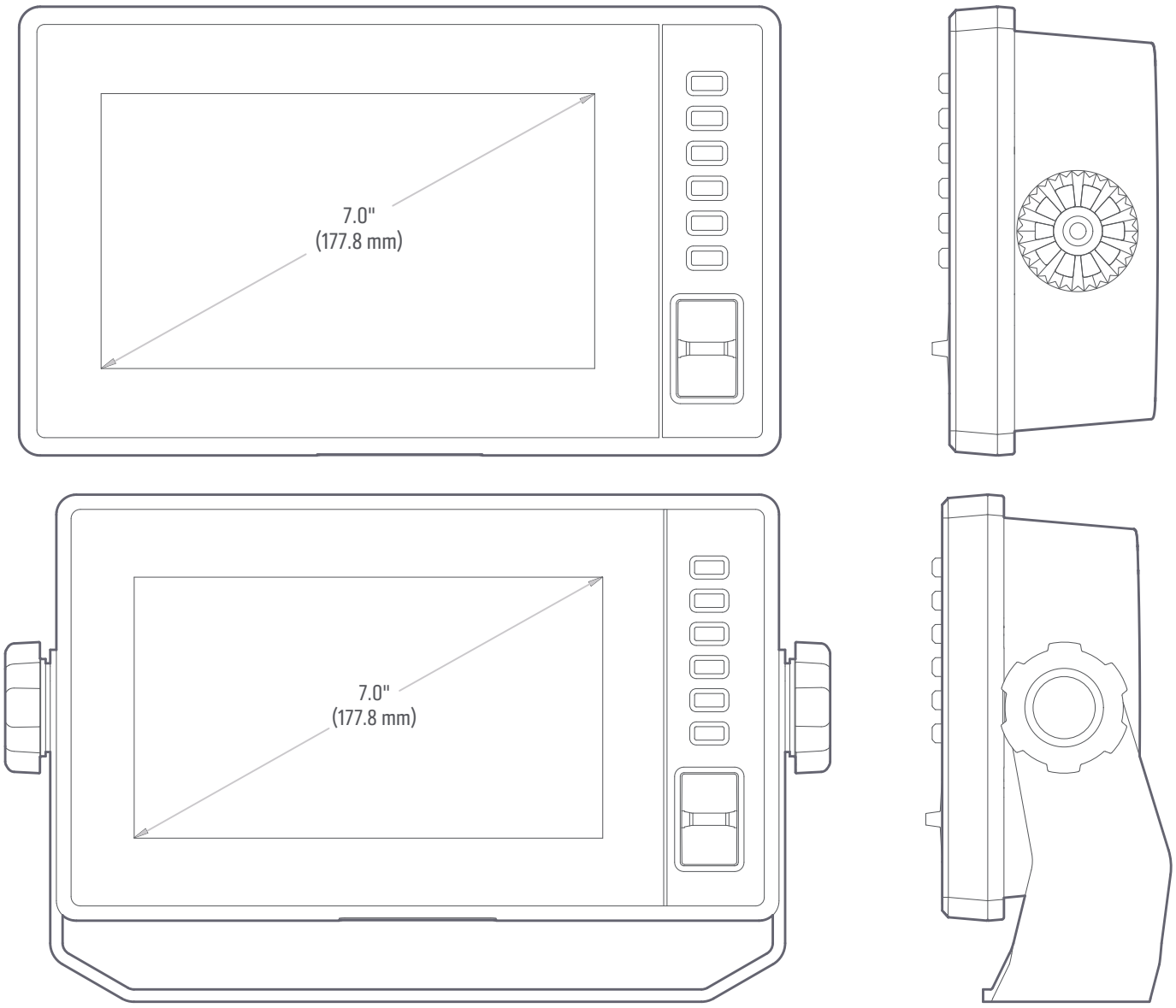
**NOTICE:** Minn Kota verifies maximum stated depth in saltwater conditions, but actual depth performance may vary due to transducer installation, water type, thermal layers, bottom composition, and slope.

**NOTICE:** Product specifications and features are subject to change without notice.

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# SPECIFICATIONS

## X7 CONTROL HEAD MEASUREMENTS ❯




| X7 In-Dash Mount | | X7 Gimbal Mount | |
|---|---|---|---|
| **Width** | 9.37" (238 mm) | **Width** | 10.69" (272 mm) |
| **Height** | 5.52" (140 mm) | **Height** | 6.57" (167 mm) |
| **Depth** | 2.77" (70 mm) | **Depth** | 3.18" (81 mm) |


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## X SERIES/XPLORE COMPACT MEGA SI+

**Control Head**

**X9/XPLORE 9** Display Size (diagonal) ..... 9.0 inches (228.6 mm)

**X10/XPLORE 10** Display Size (diagonal) ..... 10.1 inches (256.54 mm)

**X12/XPLORE 12** Display Size (diagonal) ..... 12.1 inches (307.34 mm)

**X16** Display Size (diagonal) ..... 15.5 inches (393.7 mm)

Pixel Matrix ..... **X9/XPLORE 9:** HD 1280 x 720
**X10/XPLORE 10 and X12/XPLORE 12:** WXGA 1280 x 800
**X16:** HD 1920 x 1080

Display Type ..... TFT Color

Backlight ..... LED

Communication ..... Bluetooth, NMEA 2000 Bus (LEN = 2), Ethernet, WiFi

Power Input ..... 10-20 VDC

Current Draw ..... **X9/XPLORE 9 and X10/XPLORE 10:** 2.2 Amps
**X12/XPLORE 12:** 2.4 Amps
**X16:** 3.5 Amps

Recommended Fuse ..... 5 Amps

IXP Rating ..... IPX7 Waterproof/Submersible @ 1 m for 30 minutes and dust tight

**CHIRP Compact MEGA SI + Transducer (included)**

**XM 14 HW CMSI T (includes built-in temperature probe)**

Power Output (MAX) ..... 500 Watts (RMS), 4000 Watts (Peak to Peak)

**MEGA Side Imaging+**

Operating Frequency ..... 455 kHz, MEGA Imaging+

Range Capability ..... **455 kHz:** 405 - 505 kHz, 800 ft (244 m) Side to Side
**MEGA Imaging+:** 1.100-1.200 MHz, 400 ft (122 m) Side to Side

Area of Coverage ..... **455 kHz:** [2] 75 @ -10 dB
**MEGA Imaging+:** [2] 75 @ -10 dB

**MEGA Down Imaging+**

Operating Frequency ..... 455 kHz, MEGA Imaging+

Range Capability ..... **455 kHz:** 420 - 520 kHz, 400 ft (122 m)
**MEGA Imaging+:** 1.125-1.225 MHz, 200 ft (61 m)

Area of Coverage ..... **455 kHz:** 75° @ -10 dB
**MEGA Imaging+:** 70° @ -10 dB

**2D CHIRP**

Default Operating Frequency ..... **Dual Spectrum CHIRP:** 150 kHz - 220 kHz

Optional Operating Frequency ..... 200 kHz. 83 kHz, and 50 kHz
High CHIRP, Medium CHIRP, Low CHIRP

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## SPECIFICATIONS

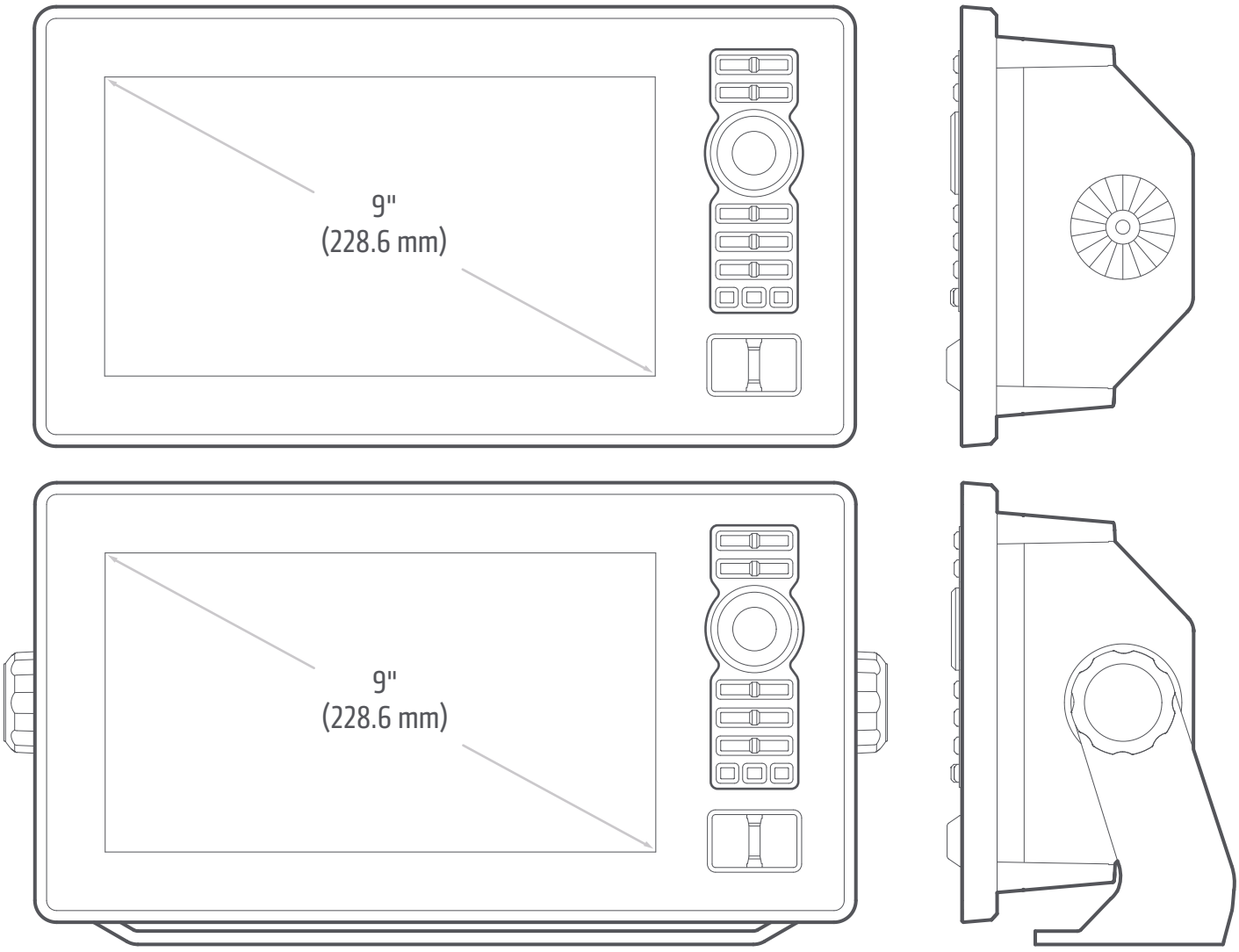
| | |
|---|---|
| Depth Capability | 1200 ft (365 m) |
| Area of Coverage | **Full:** 25° - 42°@-10 dB in 150 - 220 kHz<br>**Wide:** 42°@-10 dB in 140 - 200 kHz<br>**Narrow:** 25°@-10 dB in 180 - 240 kHz |
| Power Output (MAX) | 500 Watts (RMS), 4000 Watts (Peak to Peak) |

**NOTICE:** Minn Kota verifies maximum stated depth in saltwater conditions, but actual depth performance may vary due to transducer installation, water type, thermal layers, bottom composition, and slope.

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## X9/XPLORE 9 CONTROL HEAD MEASUREMENTS ❯

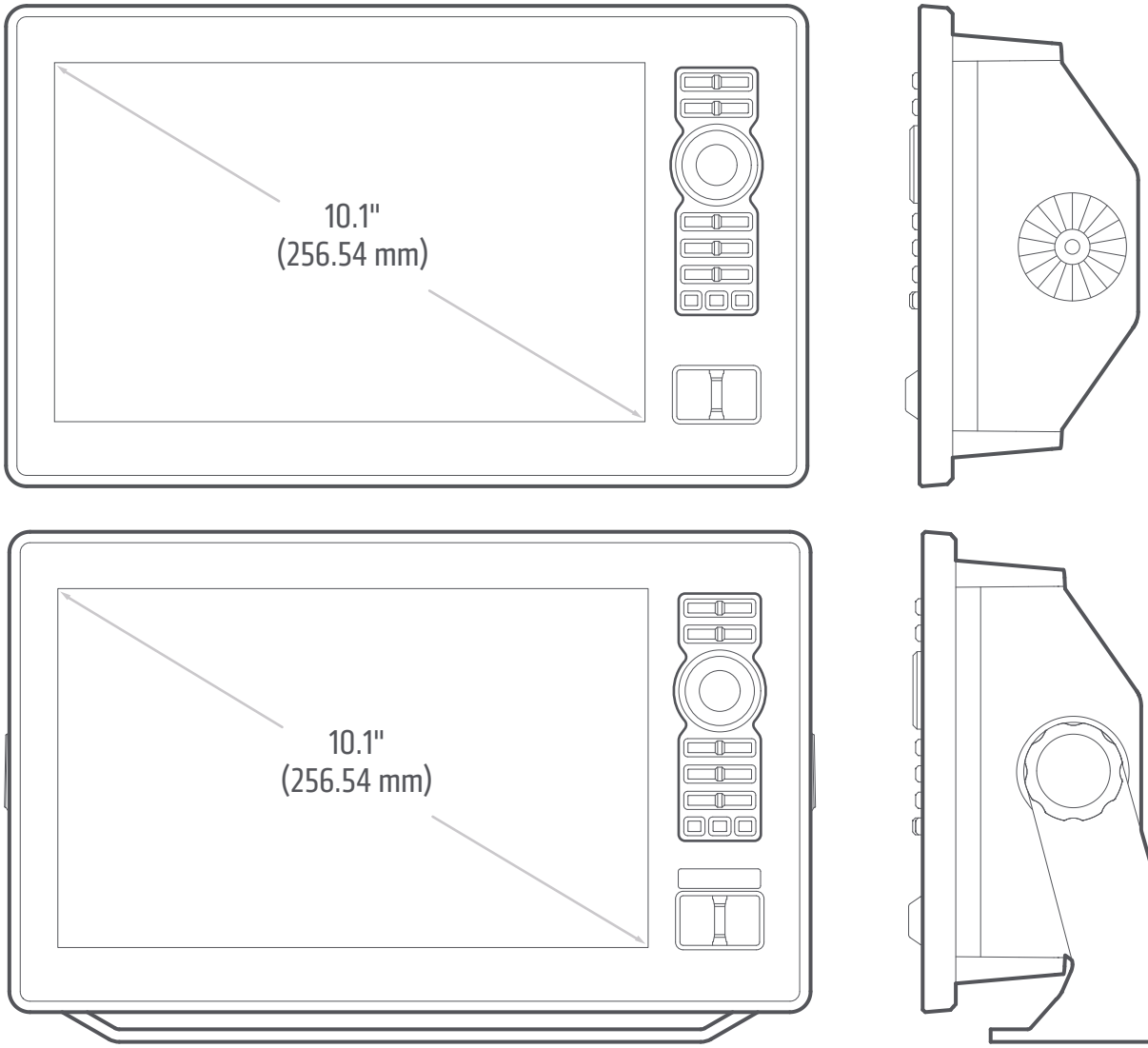



| X9/XPLORE 9 In-Dash Mount | | X9/XPLORE 9 Gimbal Mount | |
|---|---|---|---|
| **Width** | 11.69" (297 mm) | **Width** | 11.69" (297 mm) |
| **Height** | 6.26" (159 mm) | **Height** | 6.57" (167 mm) |
| **Depth** | 3.3" (84 mm) | **Depth** | 3.88" (99 mm) |

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# SPECIFICATIONS

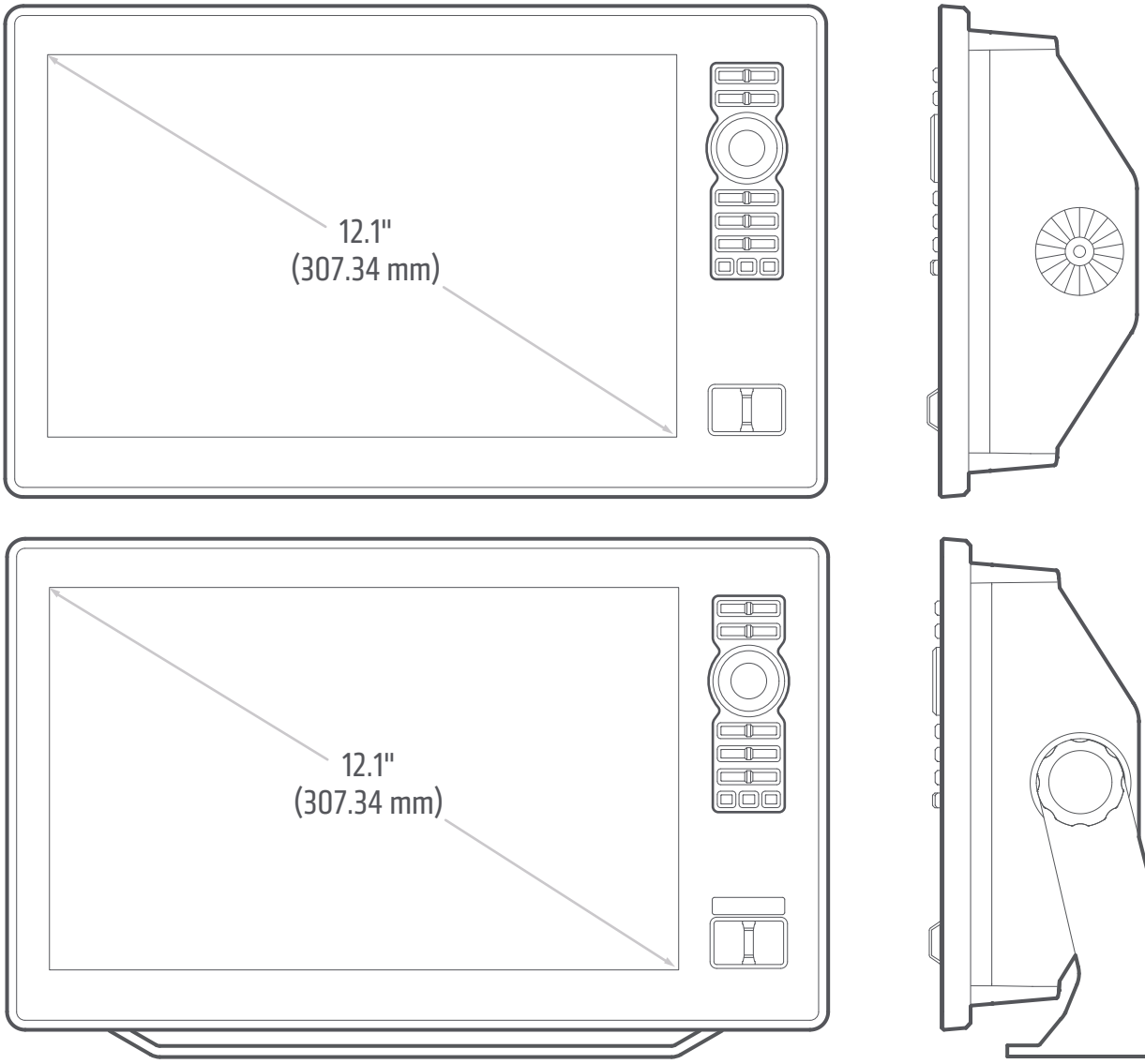
## X10/XPLORE 10 CONTROL HEAD MEASUREMENTS ❯




| X10/XPLORE 10 In-Dash Mount | | X10/XPLORE 10 Gimbal Mount | |
|---|---|---|---|
| **Width** | 12.01" (305 mm) | **Width** | 12.01" (305 mm) |
| **Height** | 7.25" (184 mm) | **Height** | 7.70" (196 mm) |
| **Depth** | 3.3" (84 mm) | **Depth** | 3.89" (99 mm) |


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## X12/XPLORE 12 CONTROL HEAD MEASUREMENTS

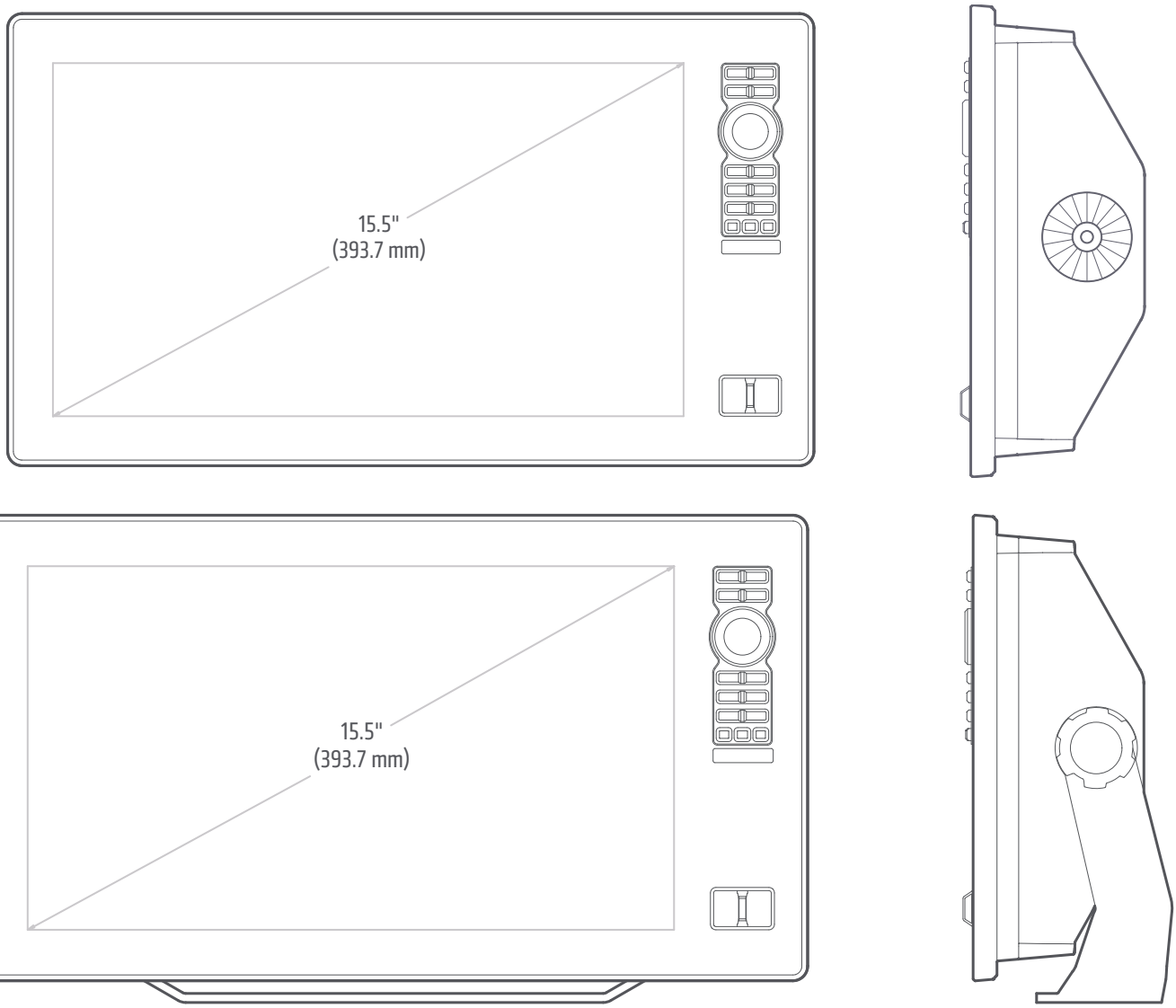



| X12/XPLORE 12 In-Dash Mount | | X12/XPLORE 12 Gimbal Mount | |
|---|---|---|---|
| **Width** | 14.15" (359 mm) | **Width** | 14.15" (359 mm) |
| **Height** | 8.46" (215 mm) | **Height** | 8.91" (226 mm) |
| **Depth** | 3.4" (86 mm) | **Depth** | 3.99" (101 mm) |

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# SPECIFICATIONS

## X16 CONTROL HEAD MEASUREMENTS ❯




| X16 In-Dash Mount | | X16 Gimbal Mount | |
|---|---|---|---|
| **Width** | 17.33" (440 mm) | **Width** | 17.33" (440 mm) |
| **Height** | 9.76" (248 mm) | **Height** | 10.84" (275 mm) |
| **Depth** | 3.79" (96 mm) | **Depth** | 4.38" (111 mm) |


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## A SERIES/APEX MEGA SI+ ❯

**Control Head**

**A13/APEX 13** Display Size (diagonal) ..... 13.3 inches (337.82 mm)

**A16/APEX 16** Display Size (diagonal) ..... 15.6 inches (396.24 mm)

**A19/APEX 19** Display Size (diagonal) ..... 18.5 inches (469.9 mm)

Pixel Matrix ..... FHD 1920 x 1080

Display Type ..... TFT Color

Backlight ..... LED

Communication ..... Bluetooth, NMEA 2000 Bus (LEN = 2), Dual Ethernet, WiFi

Power Input ..... 10-20 VDC

Current Draw ..... **A13/APEX 13:** 3.1 Amps
**A16/APEX 16:** 4.3 Amps
**A19/APEX 19:** 4.4 Amps

Recommended Fuse ..... 10 Amps

IXP Rating ..... IPX7 Waterproof/Submersible @ 1 m for 30 minutes and dust tight

**Port 1: 2D, DI, SI, 360**

**CHIRP MEGA SI + Transducer (included)**

**XM 14 HW MSI T** (includes built-in temperature probe)

Power Output (MAX) ..... 500 Watts (RMS), 4000 Watts (Peak to Peak)

**MEGA Side Imaging+**

Operating Frequency ..... 455 kHz, 800 kHz, MEGA Imaging+

Range Capability ..... **455 kHz:** 405 - 505 kHz, 800 ft (244 m) Side to Side
**800 kHz:** 780 - 840 kHz, 250 ft (76 m) Side to Side
**MEGA Imaging+:** 1050 - 1175 kHz, 500 ft (152 m) Side to Side

Area of Coverage ..... **455 kHz:** (2) 86º @ -10 dB (180º Total Coverage)
**800 kHz:** (2) 55º @ -10 dB (130º Total Coverage)
**MEGA Imaging+:** (2) 86º @ -10 dB (180º Total Coverage)

**MEGA Down Imaging+**

Operating Frequency ..... 455 kHz, 800 kHz, MEGA Imaging+

Range Capability ..... **455 kHz:** 435 - 535 kHz, 400 ft (122 m)
**800 kHz:** 800 - 860 kHz, 125 ft (38 m)
**MEGA Imaging+:** 1100 - 1200 kHz, 250 ft (76 m)

Area of Coverage ..... **455 kHz:** 75° @ -10 dB
**800 kHz:** 45° @ -10 dB
**MEGA Imaging+:** 75° @ -10 dB

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# SPECIFICATIONS

**2D CHIRP**

Default Operating Frequency ..... **Dual Spectrum CHIRP:** 150 kHz - 220 kHz

Optional Operating Frequency ..... 200 kHz. 83 kHz, and 50 kHz
High CHIRP, Medium CHIRP, Low CHIRP

Depth Capability ..... 1200 ft (365 m)

Area of Coverage ..... **Full:** 25° - 42°@-10 dB in 150 - 220 kHz
**Wide:** 42°@-10 dB in 140 - 200 kHz
**Narrow:** 25°@-10 dB in 180 - 240 kHz

Power Output (MAX) ..... 500 Watts (RMS), 4000 Watts (Peak to Peak)

**Port 2: 2kW 2D**

**2D CHIRP**

Optional Operating Frequency ..... 200 kHz. 83 kHz, and 50 kHz
High CHIRP, Medium CHIRP, Low CHIRP

Depth Capability ..... 1200 ft (365 m) / 5,000 ft (1,524 m)*

Power Output (MAX) ..... 2,000 Watts (RMS)

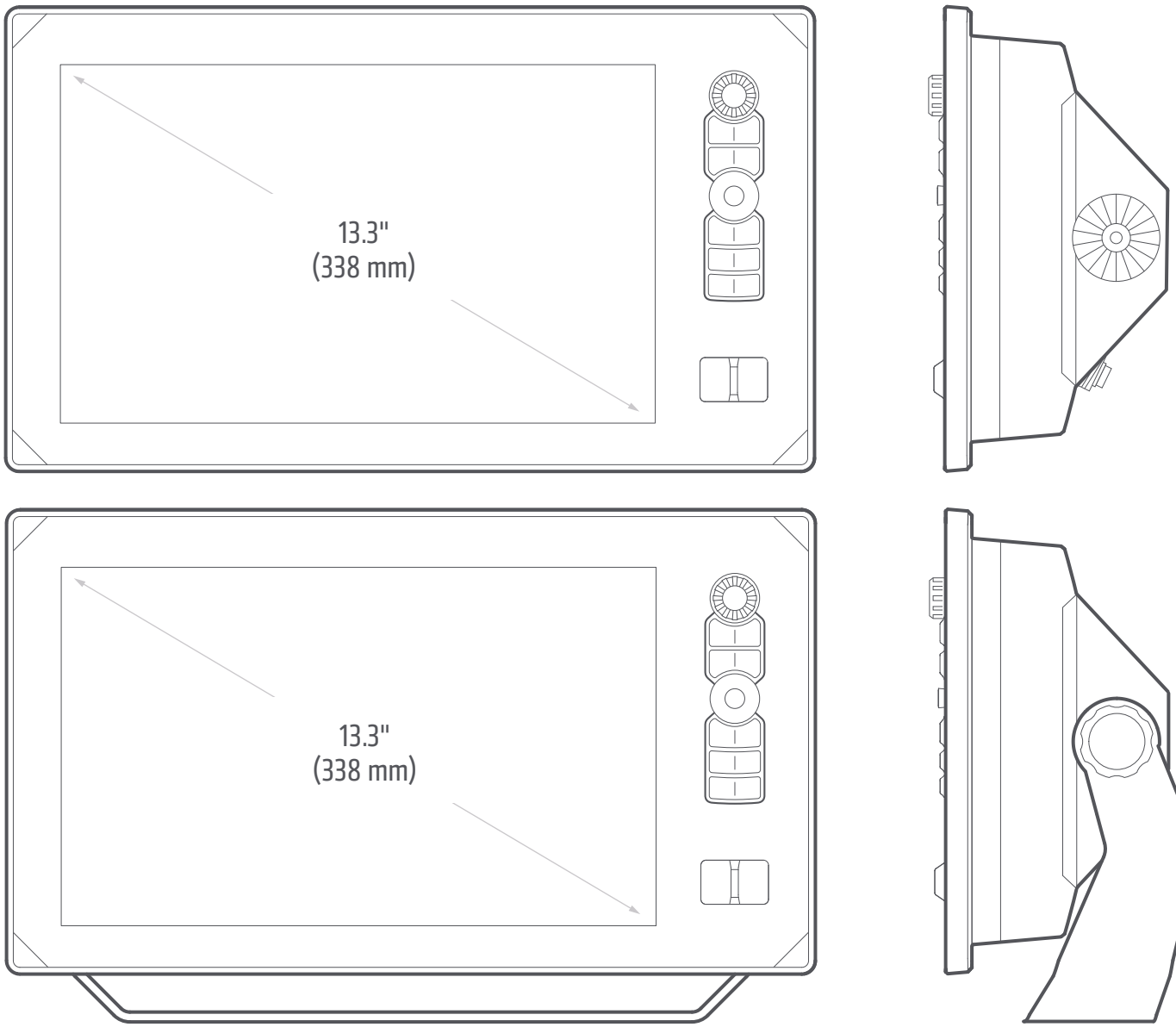
**Optional Airmar CHIRP SM3000 required for extreme deep water use.*

**NOTICE:** Minn Kota verifies maximum stated depth in saltwater conditions, but actual depth performance may vary due to transducer installation, water type, thermal layers, bottom composition, and slope.

**NOTICE:** Product specifications and features are subject to change without notice.


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## A13/APEX 13 CONTROL HEAD MEASUREMENTS ❯

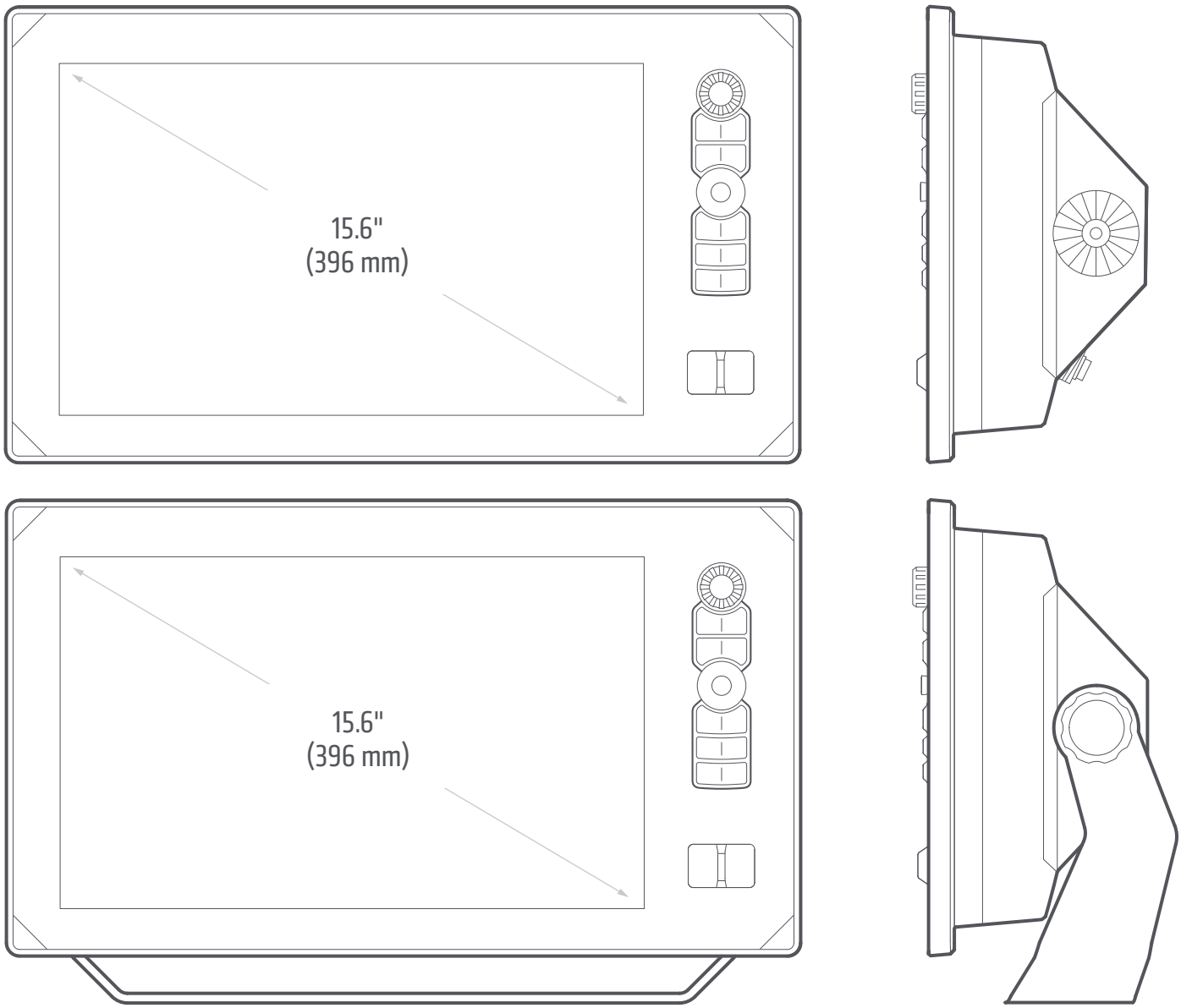



| A13/APEX 13 In-Dash Mount | | A13/APEX 13 Gimbal Mount | |
|---|---|---|---|
| **Width** | 15.6" (396 mm) | **Width** | 15.6" (396 mm) |
| **Height** | 8.96" (227 mm) | **Height** | 9.88" (251 mm) |
| **Depth** | 5.67" (144 mm) | **Depth** | 4.88" (124 mm) |

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# SPECIFICATIONS

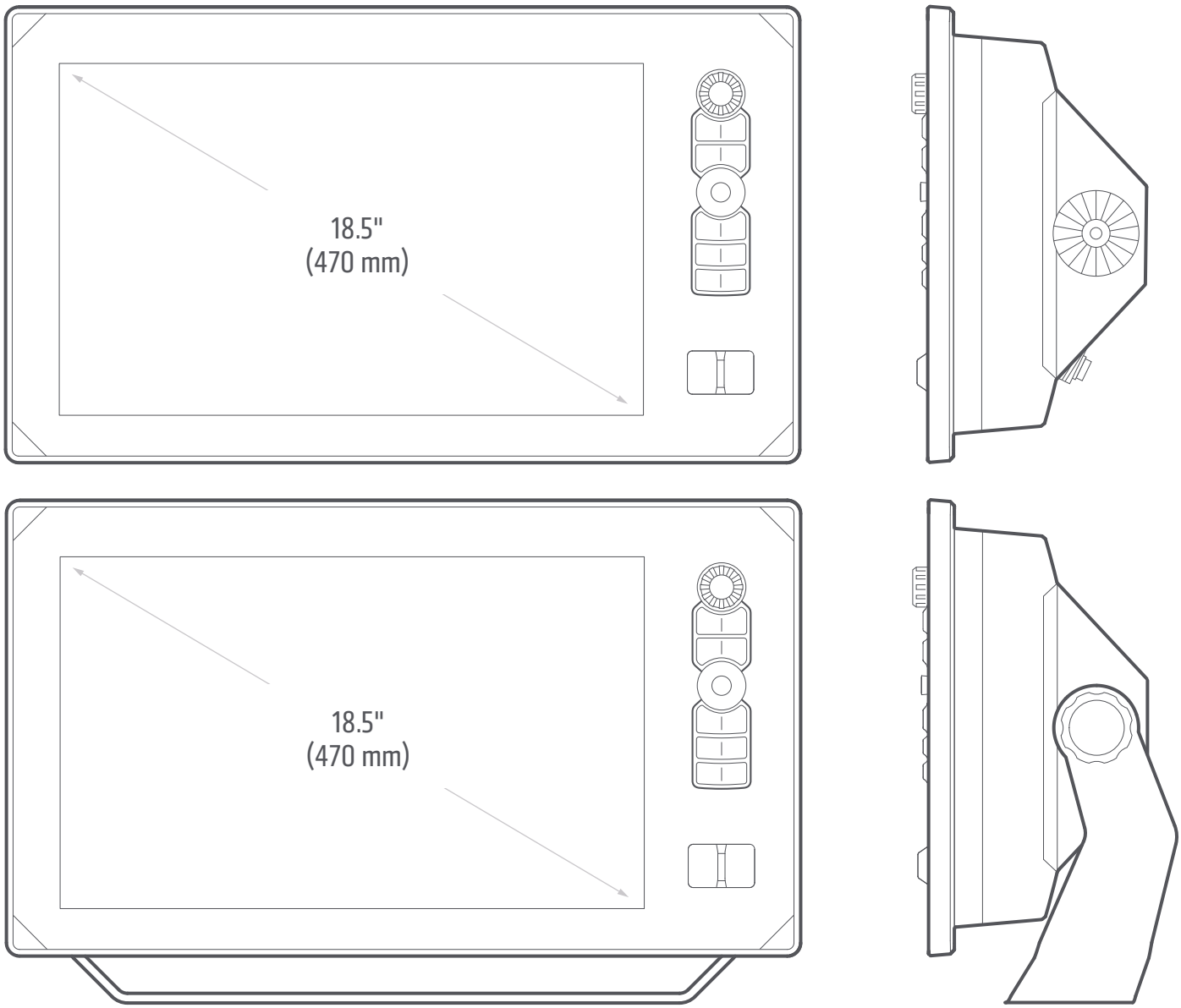
## A16/APEX 16 CONTROL HEAD MEASUREMENTS




| A16/APEX 16 In-Dash Mount | | A16/APEX 16 Gimbal Mount | |
|---|---|---|---|
| **Width** | 17.65" (448 mm) | **Width** | 17.65" (448 mm) |
| **Height** | 10.13" (257 mm) | **Height** | 11.05" (281 mm) |
| **Depth** | 5.48" (139 mm) | **Depth** | 4.93" (125 mm) |


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## A19/APEX 19 CONTROL HEAD MEASUREMENTS ❯




| A19/APEX 19 In-Dash Mount | | A19/APEX 19 Gimbal Mount | |
|---|---|---|---|
| **Width** | 20.27" (515 mm) | **Width** | 20.27" (515 mm) |
| **Height** | 11.66" (296 mm) | **Height** | 12.58" (320 mm) |
| **Depth** | 5.33" (135 mm) | **Depth** | 4.95" (126 mm) |

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# SPECIFICATIONS

## SOLIX MEGA SI+ G3 ❯

**Control Head**

**SOLIX 10** Display Size (diagonal) ..... 10.1 inches (256.54 mm)

**SOLIX 12** Display Size (diagonal) ..... 12.1 inches (307.3 mm)

**SOLIX 15** Display Size (diagonal) ..... 15.4 inches (391.16 mm)

Pixel Matrix ..... WXGA 1280 x 800

Display Type ..... TFT Color

Backlight ..... LED

Communication ..... Bluetooth, NMEA 0183 Bus, NMEA 2000 Bus (LEN = 2), Ethernet, WiFi

Power Input ..... 12 VDC

Current Draw ..... **SOLIX 10:** 2.4 Amps
**SOLIX 12:** 2.9 Amps
**SOLIX 15:** 4 Amps

Recommended Fuse ..... **SOLIX 10:** 5 Amps (slow blow or MDL equivalent)
**SOLIX 12:** 5 Amps (slow blow or MDL equivalent)
**SOLIX 15:** 7.5 Amps (slow blow or MDL equivalent)

IXP Rating ..... IPX7 Waterproof/Submersible @ 1 m for 30 minutes and dust tight

**CHIRP MEGA SI + Transducer (included)**

**XM 14 HW MSI T (includes built-in temperature probe)**

Power Output (MAX) ..... 500 Watts (RMS), 4000 Watts (Peak to Peak)

**MEGA Side Imaging+**

Operating Frequency ..... 455 kHz, 800 kHz, MEGA Imaging+

Range Capability ..... **455 kHz:** 405 - 505 kHz, 800 ft (244 m) Side to Side
**800 kHz:** 780 - 840 kHz, 250 ft (76 m) Side to Side
**MEGA Imaging+:** 1050 - 1175 kHz, 500 ft (152 m) Side to Side

Area of Coverage ..... **455 kHz:** (2) 86º @ -10 dB (180º Total Coverage)
**800 kHz:** (2) 55º @ -10 dB (130º Total Coverage)
**MEGA Imaging+:** (2) 86º @ -10 dB (180º Total Coverage)

**MEGA Down Imaging+**

Operating Frequency ..... 455 kHz, 800 kHz, MEGA Imaging+

Range Capability ..... **455 kHz:** 435 - 535 kHz, 400 ft (122 m)
**800 kHz:** 800 - 860 kHz, 125 ft (38 m)
**MEGA Imaging+:** 1100 - 1200 kHz, 250 ft (76 m)

Area of Coverage ..... **455 kHz:** 75° @ -10 dB
**800 kHz:** 45° @ -10 dB
**MEGA Imaging+:** 75° @ -10 dB


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**Dual Spectrum CHIRP**

| | |
|---|---|
| Default Operating Frequency | 150 kHz - 220 kHz |
| Depth Capability | 1200 ft (366 m) |
| Area of Coverage | **Full:** 25° - 42°@-10 dB in 150 - 220 kHz<br>**Wide:** 42°@-10 dB in 140 - 200 kHz<br>**Narrow:** 25°@-10 dB in 180 - 240 kHz |
| Power Output (MAX) | 500 Watts (RMS), 4000 Watts (Peak to Peak) |

**NOTICE:** Minn Kota verifies maximum stated depth in saltwater conditions, but actual depth performance may vary due to transducer installation, water type, thermal layers, bottom composition, and slope.

**NOTICE:** Product specifications and features are subject to change without notice.

**SOLIX MEGA DI+ G3 ❯**

**Control Head**

| | |
|---|---|
| **SOLIX 10** Display Size (diagonal) | 10.1 inches (256.54 mm) |
| **SOLIX 12** Display Size (diagonal) | 12.1 inches (307.3 mm) |
| **SOLIX 15** Display Size (diagonal) | 15.4 inches (391.16 mm) |
| Pixel Matrix | WXGA 1280 x 800 |
| Display Type | TFT Color |
| Backlight | LED |
| Communication | Bluetooth, NMEA 0183 Bus, NMEA 2000 Bus (LEN = 2), Ethernet, WiFi |
| Power Input | 12 VDC |
| Current Draw | **SOLIX 10:** 2.4 Amps<br>**SOLIX 12:** 2.9 Amps<br>**SOLIX 15:** 4 Amps |
| Recommended Fuse | **SOLIX 10:** 5 Amps (slow blow or MDL equivalent)<br>**SOLIX 12:** 5 Amps (slow blow or MDL equivalent)<br>**SOLIX 15:** 7.5 Amps (slow blow or MDL equivalent) |
| IXP Rating | IPX7 Waterproof/Submersible @ 1 m for 30 minutes and dust tight |

**CHIRP MEGA DI + Transducer (included)**

**XM 14 HW MDI T (includes built-in temperature probe)**

| | |
|---|---|
| Operating Frequency | 455 kHz, 800 kHz, MEGA Imaging+ |
| Depth Capability | **455 kHz:** 800 ft (122 m)<br>**800 kHz:** 250 ft (76 m)<br>**MEGA Imaging+:** 1050 - 1175 kHz, 500 ft (152 m) Side to Side |
| Area of Coverage | **455 kHz:** 75° @ -10 dB<br>**800 kHz:** 45° @ -10 dB<br>**MEGA Imaging+:** 75° @ -10 dB |

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## SPECIFICATIONS

| | |
|---|---|
| Power Output (MAX) | 500 Watts (RMS), 4000 Watts (Peak to Peak) |

**2D Sonar**

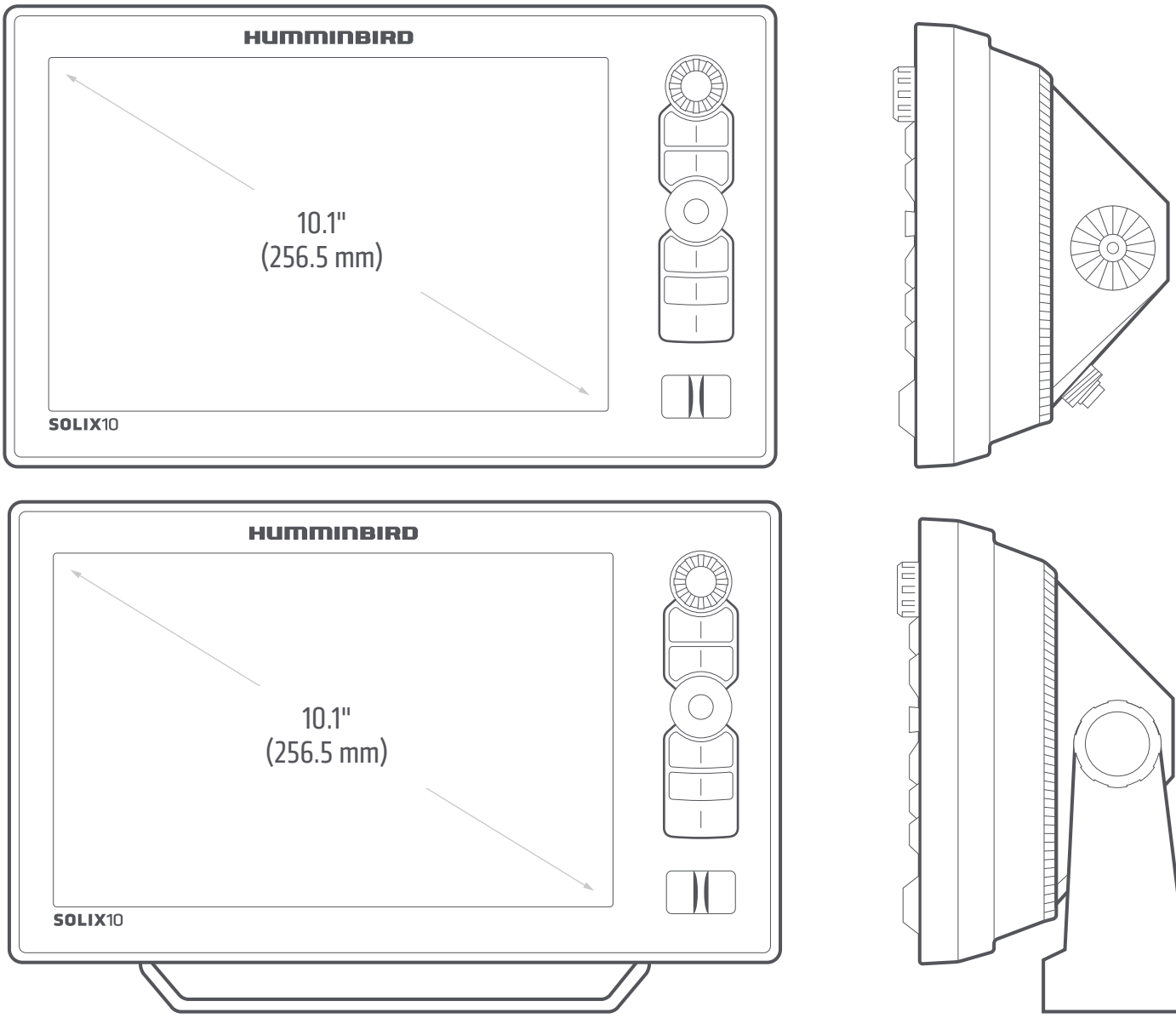
| | |
|---|---|
| Operating Frequency | 200 kHz |
| Depth Capability | 1200 ft (366 m) |
| Area of Coverage | 20°@-10 dB in 200 kHz |
| Power Output (MAX) | 500 Watts (RMS), 4000 Watts (Peak to Peak) |

**NOTICE:** Minn Kota verifies maximum stated depth in saltwater conditions, but actual depth performance may vary due to transducer installation, water type, thermal layers, bottom composition, and slope.

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## SOLIX 10 CONTROL HEAD MEASUREMENTS

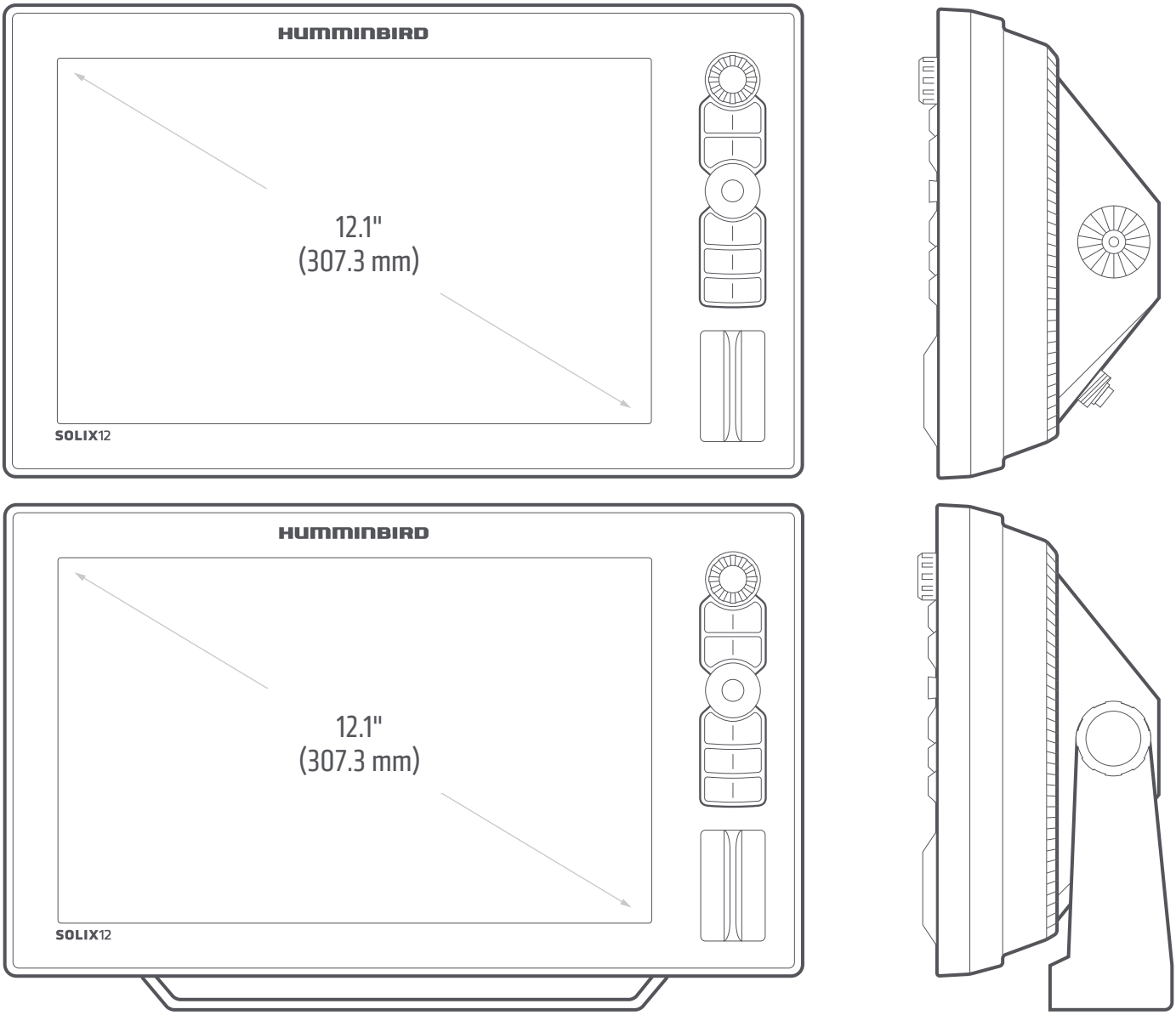



| SOLIX 10 In-Dash Mount | | SOLIX 10 Gimbal Mount | |
|---|---|---|---|
| **Width** | 11.8" (299.7 mm) | **Width** | 11.8" (299.7 mm) |
| **Height** | 7.1" (197.3 mm) | **Height** | 7.9" (200.4 mm) |
| **Depth** | 1.2" (30.5 mm) | **Depth** | 4.8" (122 mm) |

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# SPECIFICATIONS

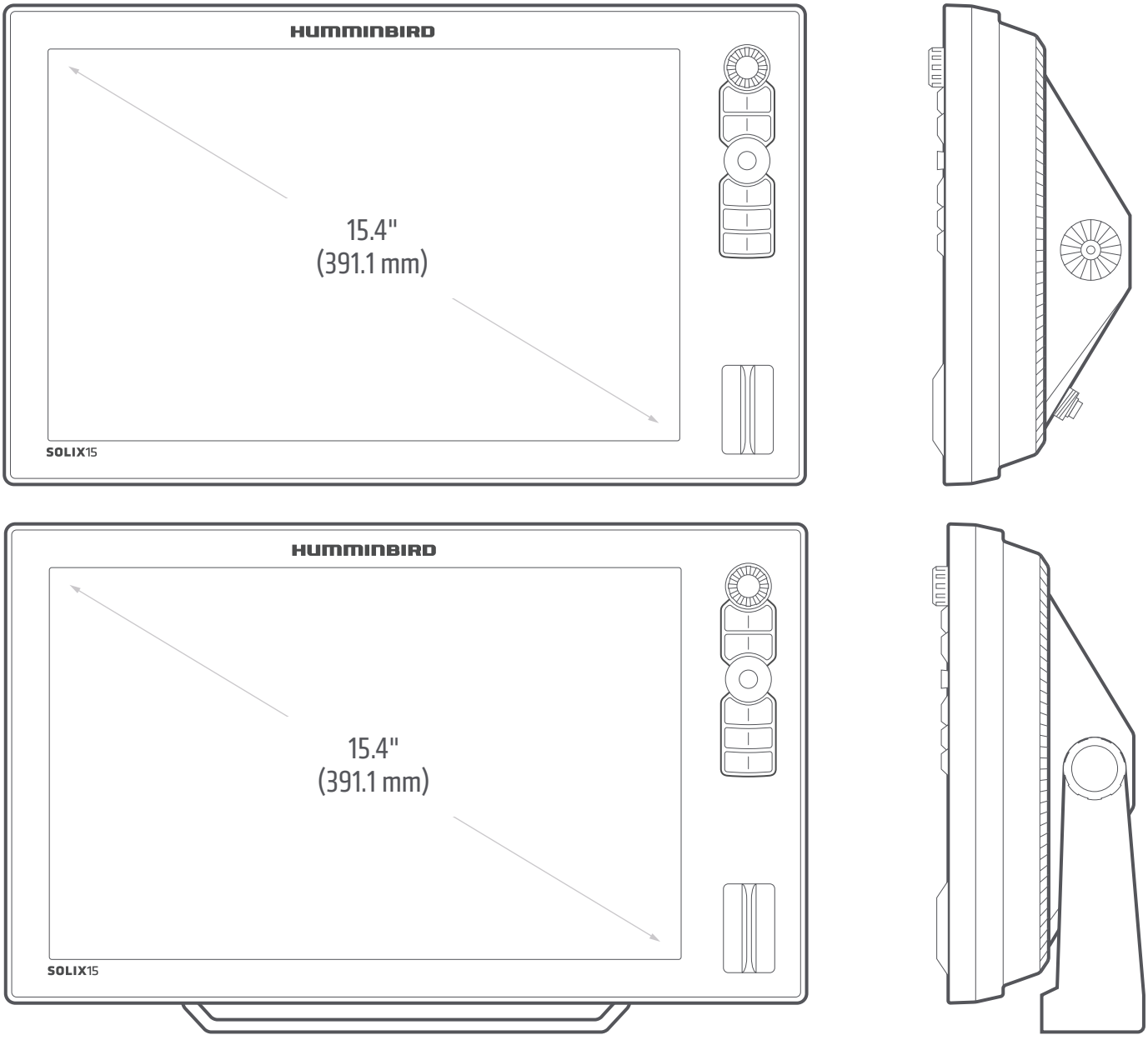
## SOLIX 12 CONTROL HEAD MEASUREMENTS ❯




| SOLIX 12 In-Dash Mount | | SOLIX 12 Gimbal Mount | |
|---|---|---|---|
| **Width** | 13.8" (350.5 mm) | **Width** | 13.8" (350.5 mm) |
| **Height** | 8.2" (208.5 mm) | **Height** | 8.7" (221 mm) |
| **Depth** | 1.2" (30.5 mm) | **Depth** | 4.8" (122 mm) |


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## SOLIX 15 CONTROL HEAD MEASUREMENTS ❯




| SOLIX 15 In-Dash Mount | | SOLIX 15 Gimbal Mount | |
|---|---|---|---|
| **Width** | 16.5" (419.9 mm) | **Width** | 16.5" (419.9 mm) |
| **Height** | 10.1" (256.5 mm) | **Height** | 10.5" (266.7 mm) |
| **Depth** | 1.2" (30.5 mm) | **Depth** | 4.8" (122 mm) |

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# STATEMENTS & ACKNOWLEDGMENTS

ENVIRONMENTAL COMPLIANCE STATEMENT: It is the intention of Johnson Outdoors Marine Electronics, Inc. to be a responsible corporate citizen, operating in compliance with known and applicable environmental regulations, and a good neighbor in the communities where we make or sell our products.

WEEE DIRECTIVE: EU Directive 2002/96/EC “Waste of Electrical and Electronic Equipment Directive (WEEE)” impacts most distributors, sellers, and manufacturers of consumer electronics in the European Union. The WEEE Directive requires the producer of consumer electronics to take responsibility for the management of waste from their products to achieve environmentally responsible disposal during the product life cycle.

WEEE compliance may not be required in your location for electrical & electronic equipment (EEE), nor may it be required for EEE designed and intended as fixed or temporary installation in transportation vehicles such as automobiles, aircraft, and boats. In some European Union member states, these vehicles are considered outside of the scope of the Directive, and EEE for those applications can be considered excluded from the WEEE Directive requirement.



This symbol (WEEE wheelie bin) on product indicates the product must not be disposed of with other household refuse. It must be disposed of and collected for recycling and recovery of waste EEE. Johnson Outdoors Marine Electronics, Inc. will mark all EEE products in accordance with the WEEE Directive. It is our goal to comply in the collection, treatment, recovery, and environmentally sound disposal of those products; however, these requirements do vary within European Union member states. For more information about where you should dispose of your waste equipment for recycling and recovery and/or your European Union member state requirements, please contact your dealer or distributor from which your product was purchased.

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## HDMI ❯

HIGH-DEFINITION MULTIMEDIA INTERFACE

The end user shall use HDMI compliant cable.

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¬ Increase the separation between the equipment and receiver.

¬ Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

¬ Consult the dealer or an experienced radio/TV technician for help.

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