

# CANNON for APEX, SOLIX and HELIX

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## Accessory Manual

532768-1EN\_B



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Thank you for choosing Humminbird®, the #1 name in marine electronics. Humminbird has built its reputation by designing and manufacturing top quality, thoroughly reliable marine equipment. Your Humminbird is designed for trouble-free use in even the harshest marine environment. We encourage you to read this manual carefully in order to get the full benefit from all the features and applications of your Humminbird product.

Contact Humminbird Technical Support at [humminbird.com](http://humminbird.com) or call 1-800-633-1468.

 **WARNING!** Your 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.

 **WARNING!** The electronic chart in your Humminbird 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.

 **WARNING!** Humminbird 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 control head's data files periodically. Data files should also be saved to your PC before restoring the control head defaults or updating the software. See our Web site at [humminbird.com](http://humminbird.com) to download your control head operations manual.

 **WARNING!** 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.

 **WARNING!** You are responsible for the safe and prudent operation of your vessel. We have designed your Cannon product to be an accurate and reliable tool that will enhance boat operation and improve your ability to catch fish. This product does not relieve you from the responsibility for safe operation of your boat. You must avoid hazards to navigation and always maintain a permanent watch so you can respond to situations as they develop. You must always be prepared to regain manual control of your boat. Learn to operate your Cannon product in an area free from hazards and obstacles.

 **WARNING!** Do not touch the Cannon Spool/Reel while the downrigger is in use. Holding or touching it may result in moderate to severe injuries.

 **WARNING!** It is recommended to only use Johnson Outdoors approved accessories with your Cannon. Using non-approved accessories including those used to mount or control your product may cause damage, unexpected operation and injury. Be sure to use the product and all approved accessories, including remotes and/or devices, safely and in a manner directed to avoid accidental or unexpected operation. Keep all factory installed parts in place including motor, electronic and accessory covers, enclosures and guards. Failure to adhere to this warning may affect your warranty.

 **NOTE:** Do NOT leave the control head SD slot cover open. The slot cover should always be closed to prevent water damage to the unit.

 **NOTE:** Some features discussed in this manual require a separate purchase. 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.

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

 **NOTE:** To purchase accessories or any additional equipment for your control head configuration, visit our Web site at [humminbird.com](http://humminbird.com) or contact Humminbird Technical Support at 1-800-633-1468. Also visit [cannondownriggers.com](http://cannondownriggers.com).

 **NOTE:** 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. Humminbird is not responsible for incorrect translations or discrepancies between documents.

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

 **NOTE:** Humminbird 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.

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To obtain a list of authorized international distributors, please visit our Web site at [humminbird.com](http://humminbird.com) or contact Humminbird Technical Support at (334) 687-6613.

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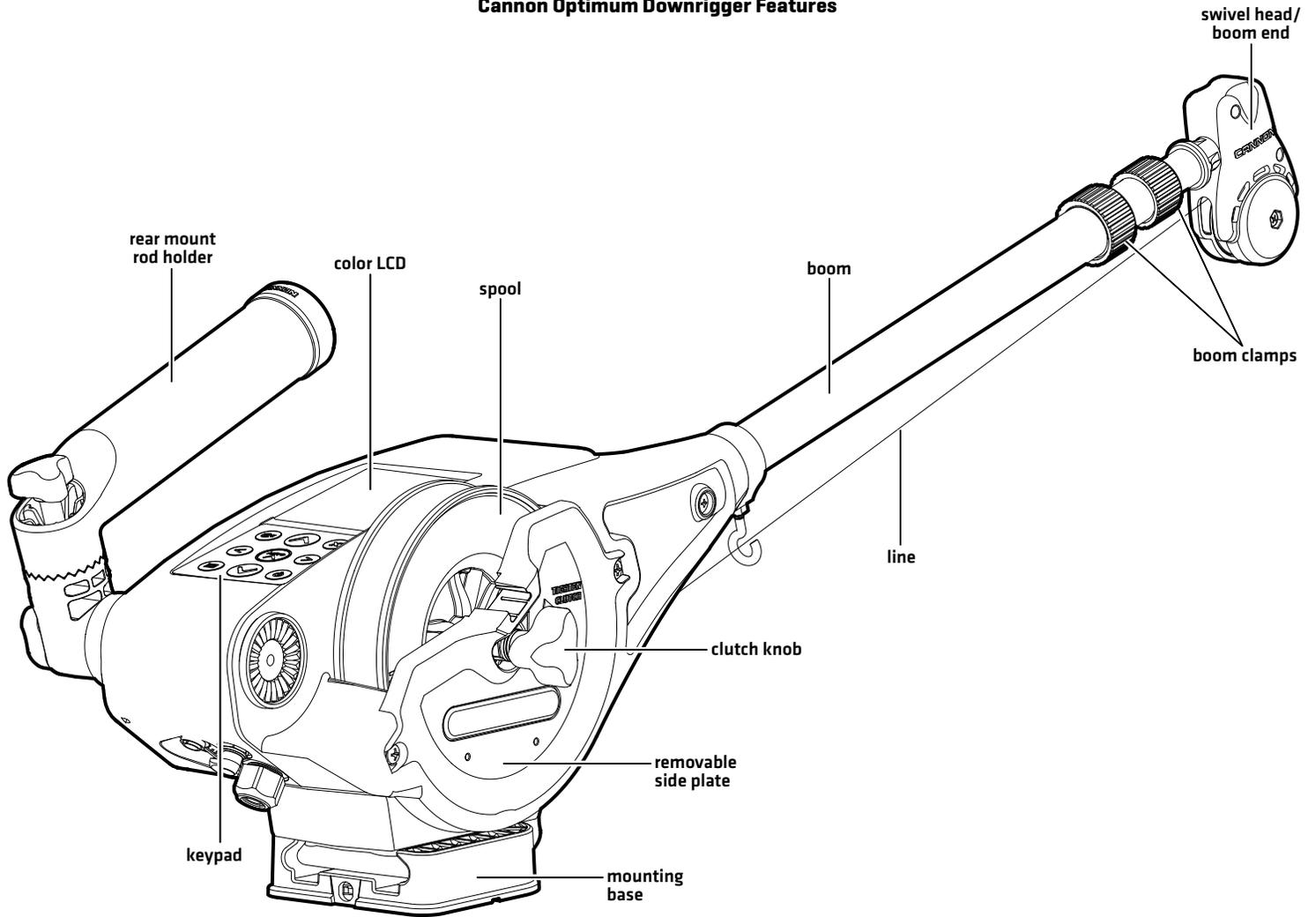
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# INTRODUCTION

Thank you for purchasing a Cannon Optimum™ or Optimum™ TS downrigger. Your new downrigger is designed to be an accurate and reliable tool that will enhance fishing control and improve your ability to catch fish. Cannon Optimum and Optimum TS downriggers communicate with your Humminbird control head using **Bluetooth®** technology, delivering multiple wireless control options for your downrigger. We hope that you enjoy the use of your new downrigger and enjoy the benefit of controlled depth fishing for years to come by always following safe boating practices and laws wherever you are fishing.

## Cannon Optimum Downrigger Features



# OVERVIEW

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This operations manual will guide you through the following setup and operations for the Cannon Optimum or Optimum TS downrigger when it is paired to a compatible Humminbird control head:

- Pairing the Cannon to the Humminbird Control Head
- Setting up the Cannon Using the Cannon Options Menu
- Operating the Cannon from the Humminbird Control Head

 **NOTE:** For complete details about the installation and operation of your Humminbird control head, refer to the installation guide included with your control head and your control head operations manual. Operations manuals and installation guides can be downloaded from our Web site at [humminbird.com](http://humminbird.com).

 **NOTE:** For complete details about the installation and setup of the Cannon downrigger, refer to the owner's manual included with the Cannon.

 **NOTE:** To confirm compatibility, visit our Web site at [humminbird.com](http://humminbird.com).

## Accessories

Additionally, this manual will guide you through the basic setup and operations for using the Cannon with the following accessories:

- Fish Hawk X4D Bluetooth System
- Cannon Mobile App

## Safety and Cautions

In addition to this manual, it is important to thoroughly read the *Optimum Owner's Manual*. Follow all instructions regarding installation and operations, and heed all safety and cautionary notices.

# How CANNON WORKS

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The Cannon Optimum downrigger can be wirelessly networked to give you access to trolling data and let you raise, lower and cycle weights using the LCD display, your Humminbird control head, or your mobile device. By pairing compatible Bluetooth devices to the Cannon, you can wirelessly control the Cannon from anywhere on your boat. Any action or setting that is changed on one paired device will be applied to all paired devices.

The network works by designating one Master downrigger that is paired with all additional equipment through the wireless network. This network can include up to 3 additional Optimum downriggers, your Humminbird control head, a mobile device, the Fish Hawk X4D System, and a Cannon transducer.

## Humminbird Control Head

When connected via Bluetooth, you can raise, lower and/or cycle the Cannon weights using the following methods on the Humminbird control head:

- Cannon Sidebar Widget (APEX and SOLIX models only)
- Power X-Press Menu
- Bluetooth Cannon Menu (HELIX models only)
- Cannon X-Press Remote Pane (HELIX models only)

## Fish Hawk

The Fish Hawk X4D Bluetooth system (separate purchase required), provides the true running depth and speed of your weight, the temperature at the weight, plus surface temperature and speed. Within the wireless network, the Fish Hawk should only be paired with the Master downrigger. For connection information, see ***Getting Started: Pair the Cannon to a Fish Hawk.***

## Cannon Mobile App

You can also control the Cannon from the Cannon Downriggers mobile app. See ***Operating Cannon with the Cannon Mobile App.***

# PREPARATION

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Perform the procedures in the following section to prepare your fishing system to use the Cannon.

## 1 | Update Your Control Head Software

It is important to install the latest software update on your control head to enable Cannon features. Please find the required software version for your control head model below:

- **APEX Series: 3.970 and later**
- **SOLIX G1/G2 Series: 3.750 and later**
- **SOLIX G3 Series: 3.890 and later**
- **HELIX G2N/G3N Series: 2.280 and later**
- **HELIX G4N Series: 3.300 and later**

### Update Your Control Head Software

You will need an SD or microSD card [depending on your control head model].

 **WARNING!** Humminbird 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 control head's data files periodically. See your control head operations manual for more information.

1. Before the control head software is updated or restored to system defaults, export your navigation data and copy your screen snapshots to an SD or microSD card. See your control head operations manual for instructions.
2. Install a blank SD or microSD card into the computer card slot.
3. Go to [humminbird.com](http://humminbird.com), and click Support > Software Updates.
4. Click on your control head model. The available software updates are listed as downloads under each product. Confirm the file name is for your control head model.
  - Read the notices and instructions, and select Download.
  - Follow the on-screen prompts to save the software file to the SD or microSD card.
5. Repeat step 4 to download the software updates posted to each product.
6. Power on your Humminbird control head. Start **Normal** mode.
7. Insert the SD or microSD card [with the software file] into the control head card slot.
8. Follow the on-screen prompts to update the control head software.
9. When the software update is complete, remove the SD or microSD card from the control head card slot.
10. **Restart:** If you don't have any other software updates to install, power off the control head, and restart it.

 **NOTE:** For instructions on updating your Cannon software, see **Maintenance**.

## 2 | Download the Cannon Mobile App (optional)

To control the Cannon and update software from your mobile device, download the Cannon Downriggers mobile app.

**Supplies:** Mobile device with Bluetooth capability and a WiFi or cellular data connection.



**NOTE:** Some of the information and instructions may not apply to all mobile devices. Refer to the instructions included with your mobile device.

### 1. Confirm Compatibility

1. Visit [cannondownriggers.com](http://cannondownriggers.com) to confirm the latest mobile device compatibility and required software version.

	Apple iOS	Google Android
Required Software Version	8.0 or higher	5.0 or higher (API level 21)

### 2. Download the Cannon Mobile App

The Cannon Downriggers app is available for download on iOS devices through the Apple App store or Android devices through the Google Play store.

1. **Apple iOS:** Open the App Store.  
**Google Android:** Open the Play Store.
2. Log in to your app store account.
3. Search the app store for Cannon Downriggers.
4. Download the app to your device.
5. Follow the on-screen instructions to complete the app download.

# GETTING STARTED

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The procedures in this section describe how to get started using the Cannon with your Humminbird control head.



**NOTE:** See the *Optimum Owner's Manual* for installation and configuration details.

## 1 | Power On

Confirm power connections for the Cannon[s] and the control head. If you have additional equipment connected to the network, power them on individually.

### Cannon(s)

1. Turn on the main power supply.

### Humminbird Control Head

1. Press the POWER key.
2. Select Normal mode.
3. When the first view is displayed on the screen, the control head is ready for operation.

### Connected Accessories

If you have additional accessories, power them on individually.

## 2 | Check Sensor Reception and Connections

If you've connected separate-purchase equipment to the control head network, such as AIS, Compass/Heading Sensor, Radar, i-Pilot® Link, 360 Imaging®, and more, confirm the equipment is detected and communicating with the control head.

### APEX/SOLIX Series

1. Press the HOME key.
2. Review the top, right corner of the screen to confirm the sensor status for connected accessories:

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

**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. This feature will vary with the type of icon represented.

See your control head operations manual for additional information.

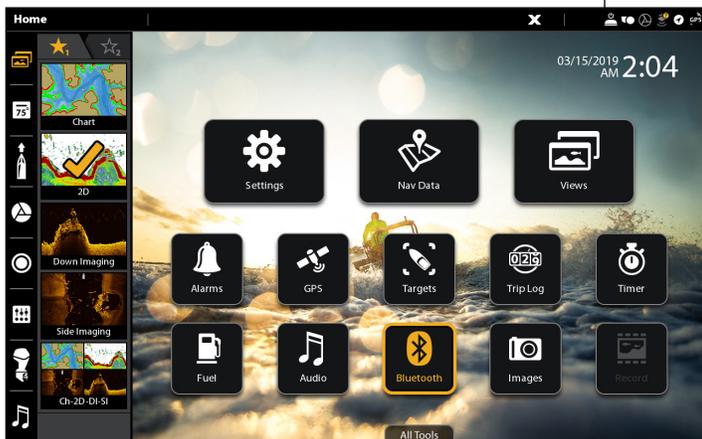
### HELIX Series

1. Press and hold the VIEW key.
2. Select **System > Accessory Test**.
3. Confirm all accessories are listed as Connected.

**Unconnected:** If an accessory is listed as Unconnected, check the cable and power connections to confirm they are secure and powered on. Review the installation guide that was included with your accessory to confirm it is installed correctly.

#### Confirming Accessory Connections (APEX/SOLIX)

sensor status



#### Confirming Accessory Connections (HELIX)

Accessory Test	
Depth	ft
44.3	360 Imaging UNCONNECTED
Temp.1	°F
70.5	BT Talon UNCONNECTED
N 34.20035°	GPS CONNECTED
W 083.99266°	i-Pilot BT v9.999 CONNECTED
Time	NMEA2K Gateway CONNECTED
11:36 AM	CHIRP-Radar CONNECTED
Speed	mph
5.6	Remote UNCONNECTED
308:49	Speed UNCONNECTED
677	Temperature CONNECTED
VLT	
2.2	
13.5	

### 3 | Pair the Cannon to the Humminbird Control Head

Use the following instructions to pair the Cannon to the Humminbird control head.

**Multi-Cannon Installations:** If you have more than one Cannon installed, you only have to perform the pairing process for the control head (and other accessories) once [i.e. you do not have to pair every device to all Cannons]. When the Cannons are paired together, your control head will operate all Cannons. See the *Optimum Owner's Manual* for information on pairing Cannons together.

**Networked Control Heads:** It is important to note that multiple control heads cannot be connected to the Cannon(s) at the same time. You can pair multiple control heads, but only one control head can be connected to the Cannon(s) at a time. Control heads that are networked together over Ethernet will share Cannon activity and menu settings over the Ethernet network.

 **NOTE:** If there is a mobile device paired to your control head, you must unpair it before pairing your Cannon to the control head. The mobile device can be reconnected after the Cannon is successfully paired. For additional information on pairing a mobile device to your control head, review your control head operations manual.

 **NOTE:** Only one Cannon, Raptor or Talon can be paired to a control head at a time.

## Pair the Cannon to the Control Head

### APEX/SOLIX Series

1. Press the HOME key.
2. Select the **Bluetooth** tool.
3. Under Cannon, select **Cannon Settings**.
4. Select **Pair Device**.
5. **Enable Pairing Mode on the Cannon:** Press the MENU button on the Cannon. For multi-Cannon networks, do this on the Master Cannon.  
Select Settings > Bluetooth > Pair Humminbird > Pair Humminbird.
6. The control head will beep when the pairing is successfully completed.

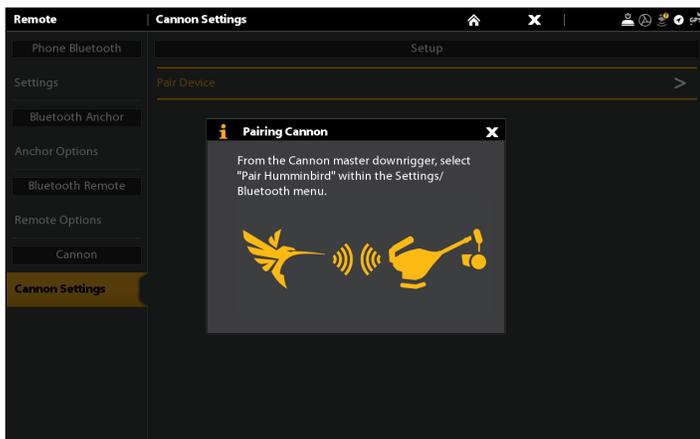
If 30 seconds pass while in Pairing Mode and they do not successfully pair, an error message will display signaling that the pairing has timed out. Repeat the procedure.

### HELIX Series

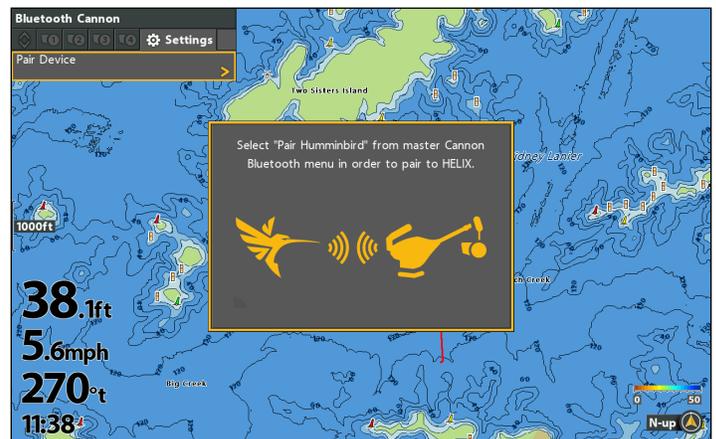
1. **Main Menu:** Press the MENU key twice.
2. Select the **Accessories** tab.
3. Select **Bluetooth Cannon**. Press the RIGHT Cursor key.
4. Select **Pair Device**. Press the RIGHT Cursor key.
5. **Enable Pairing Mode on the Cannon:** Press the MENU button on the Cannon. For multi-Cannon networks, do this on the Master Cannon.  
Select Settings > Bluetooth > Pair Humminbird > Pair Humminbird.
6. The control head will beep when the pairing is successfully completed.

If 30 seconds pass while in Pairing Mode and they do not successfully pair, an error message will display signaling that the pairing has timed out. Repeat the procedure.

### Pairing the Cannon (APEX/SOLIX)



### Pairing the Cannon (HELIX)



## 4 | Pair the Cannon to a Fish Hawk [optional, Fish Hawk required]

Pairing a Fish Hawk X4D System to your Cannon will allow your Cannon to display true running depth and the speed of your weight, the temperature at the weight, plus surface temperature and speed.

**Multi-Cannon Installations:** If you have more than one Cannon installed, you only have to perform the pairing process once [i.e. you do not have to pair every device to all Cannons]. Within the wireless Network, the Fish Hawk should only be paired with the Master downrigger.



**NOTE:** For additional information and instructions for using a Fish Hawk with the Cannon, see the *Optimum Owner's Manual*.

### Pair the Cannon to the Fish Hawk

1. Power on the Fish Hawk.
2. **Enable Pairing Mode on the Cannon:** Press the MENU button on the Cannon. For multi-Cannon networks, do this on the Master Cannon.
3. Select Settings > Bluetooth > Pair Fish Hawk > Pair Fish Hawk.
4. The Cannon will display a confirmation screen when the pairing is successfully completed.

## 5 | Pair the Cannon to Your Mobile Device [optional]

Before pairing your mobile device with a Cannon, the Cannon Downriggers app should first be successfully downloaded. You can confirm that the app was successfully downloaded by opening it on your device. See **Preparation: Download the Cannon Mobile App** for installation instructions.

**Multi-Cannon Installations:** If you have more than one Cannon installed, you only have to perform the pairing process once [i.e. you do not have to pair every device to all Cannons]. When the Cannons are paired together, all paired devices will operate all Cannons. See the *Optimum Owner's Manual* for information on pairing Cannons together.

### Pair the Cannon to a Mobile Device

1. Open the Cannon Downriggers mobile app on your device.  
The app will display a Pairing Guide to help you pair your Cannon. Follow the on-screen prompts.
2. Once the app redirects you to your device's Bluetooth Settings menu, select **On**. Keep the Bluetooth menu open as you proceed to the next step.
3. **Enable Pairing Mode on the Cannon:** Press the MENU button on the Cannon. For multi-Cannon networks, do this on the Master Cannon.  
Select Settings > Bluetooth > Pair Phone > Pair Phone.
4. On your mobile device, scan for new Bluetooth devices. It may take a moment for the Cannon to appear in the menu.  
**On iOS devices:** The scan will start automatically.  
**On Android devices:** Select the Scan button to search for new devices.
5. When the Cannon Optimum is recognized by the device, select the Optimum or Optimum TS from the list.
6. The Cannon will send a 6 digit code to your mobile device. Confirm that the code on the device matches the code displayed on the Cannon to complete the pairing.  
If the pairing is unsuccessful, repeat steps 3-6.

## 6 | Confirm Bluetooth Connections

You can confirm the Bluetooth paired connections using the following methods:

- **Device List:** See the instructions in the next section.
- **Status Bar (APEX and SOLIX models only):** See the instructions in the next section.
- **Accessory Test View (HELIX models only):** Use the instructions in the previous section, *Getting Started: Check Sensor Reception and Connections*, to confirm connections after initial setup.

 **NOTE:** To remove a Bluetooth device, see *Troubleshooting*.

### Confirm the Cannon and Control Head Connection Using the Device List

From the Device List, you can confirm which devices are connected to the Cannon and review the serial number for each connected device.

Use the following instructions to open the Device List to confirm the Cannon, Humminbird control head, and Fish Hawk (if applicable) connections.

#### APEX/SOLIX Series

1. Press the HOME key.
2. Select the **Bluetooth** tool.
3. Under Cannon, select **Cannon Settings**.
4. Select **Device List**.
5. Confirm both the Cannon[s] and control head are listed.

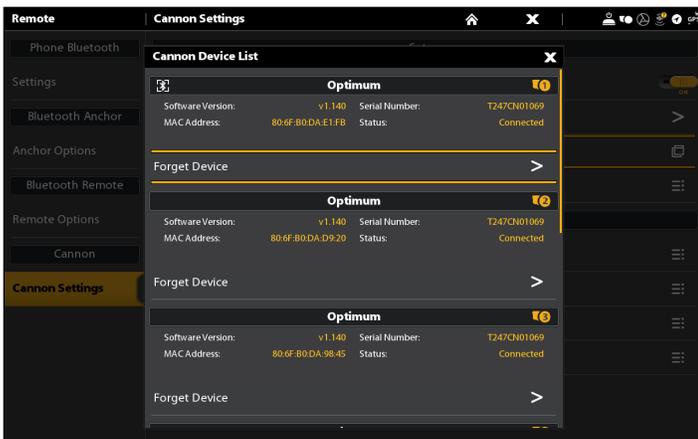
If the Cannon[s] is not listed or if it is shown in gray, check the power connections and repeat the pairing process.

#### HELIX Series

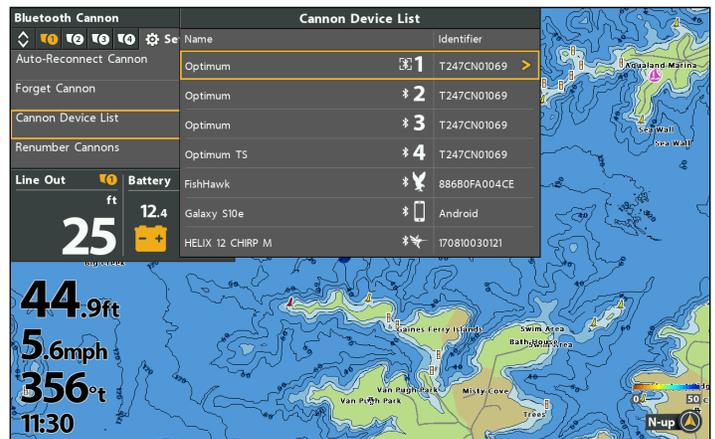
1. **Main Menu:** Press the MENU key twice.
2. Select the **Accessories** tab.
3. Select **Bluetooth Cannon**. Press the RIGHT Cursor key.
4. Select the **Settings** tab.
5. Select **Cannon Device List**. Press the RIGHT Cursor key.
6. Confirm both the Cannon[s] and control head are listed.

If the Cannon[s] is not listed or if it is shown in gray, check the power connections and repeat the pairing process.

#### Device List (APEX/SOLIX)



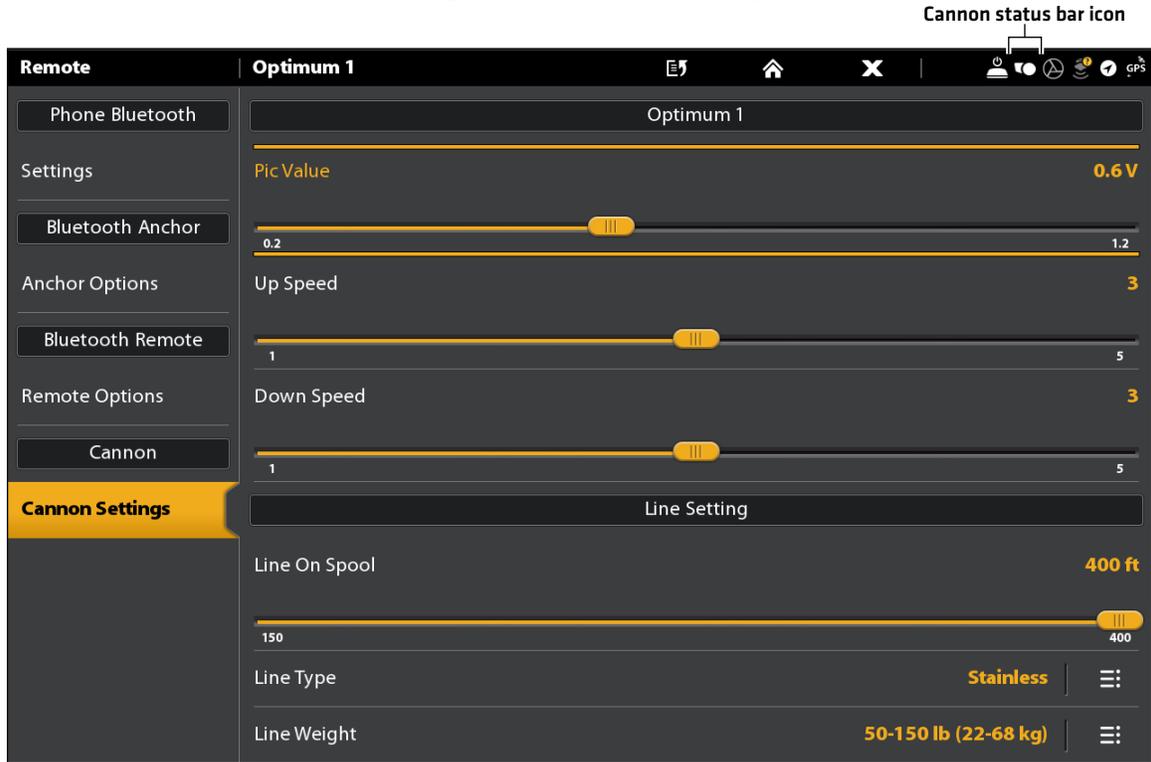
#### Device List (HELIX)



## Confirm Cannon Connection from the Status Bar (APEX and SOLIX models only)

You can confirm the status of the connected Cannon at any time on an APEX or SOLIX control head by checking the status bar icons.

### Using the Status Bar (APEX/SOLIX)



Status Icon	Icon Description
	Cannon is connected.
	Cannon is disconnected.

## SET UP CANNON ON THE HUMMINBIRD CONTROL HEAD

Use the following section to review the menu options for Cannon and select settings.

 **NOTE:** Cannon menu options are included on the Cannon app. See **Operating Cannon with the Cannon Mobile App** for details.

Cannon Menu Options	
The following menu options are included on the Humminbird control head.	
Line Up/Down	Raise or lower the downrigger weight.
Up/Down Speed	The speed at which the spool spins while the weight is moving.
Depth Presets	Use the presets to automatically send the downrigger weight to a preset depth. The preset depths can be customized on the Cannon. See the <i>Optimum Owner's Manual</i> for instructions.
Auto Up	Bring the downrigger weight up. You can bring a specific weight up, or bring all weights in a network up at once.
Water Zero	Set the line counter to zero when the weight is in any position.
Cycle Mode	Automatically cycle the weight up and down between two depths.
Bottom Tracking	Maintain the weight at a fixed distance above the bottom.
Auto-Reconnect Cannon	Turn Auto-Reconnect on to enable a paired control head to connect to the Cannon automatically on startup (after being powered off).
Device List	View the Bluetooth devices paired to the control head. See <b>Getting Started: Confirm Bluetooth Connections</b> .
Forget Cannon	Disable the connection between the paired Cannon and the control head. The Cannon will be removed from the Device List. See <b>Troubleshooting</b> .
Renumber Cannons	Assign a number to the downriggers in the network.
Line On Spool/Type/Weight	Program the downrigger with the amount of line on the spool, the line type and the line weight.
PIC [Positive Ion Control] Value	Apply a charge between 0.2 to 1.2 volts on the downrigger line at all times. The PIC system will only work with a stainless steel line and will not work when the line is mono-filament or braided.

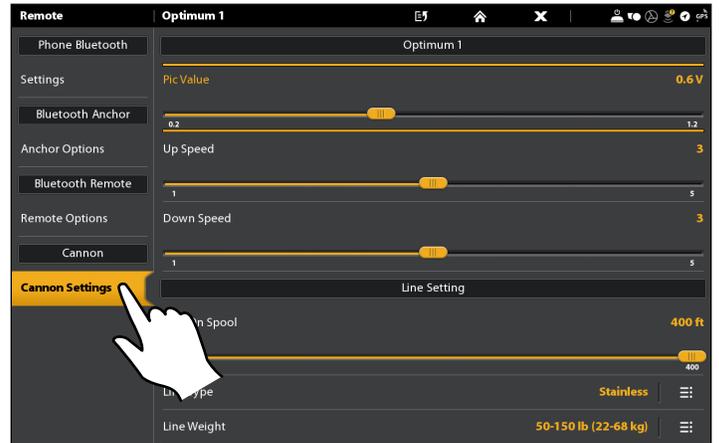
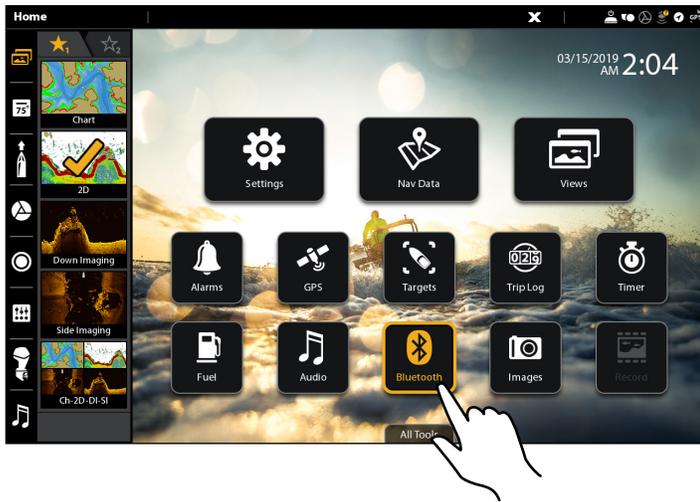
# 1 | Open the Cannon Menu

When the Cannon is paired to the control head, additional menus are added to the menu system. Use the following instructions to access the Cannon menu options on your control head.

## APEX/SOLIX Series

1. Press the HOME key.
2. Select the **Bluetooth** tool.
3. Under Cannon, select **Cannon Settings**.

### Opening the Cannon Settings Menu [APEX/SOLIX]



Tap to Open

OR



Select



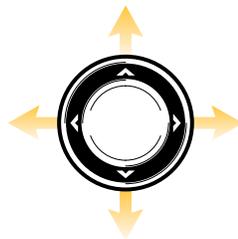
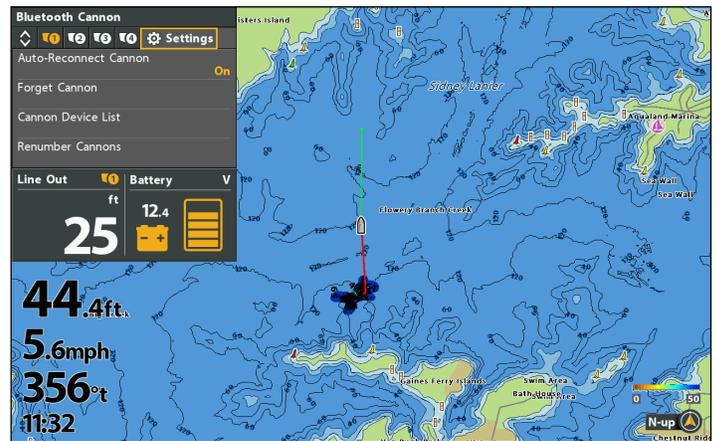
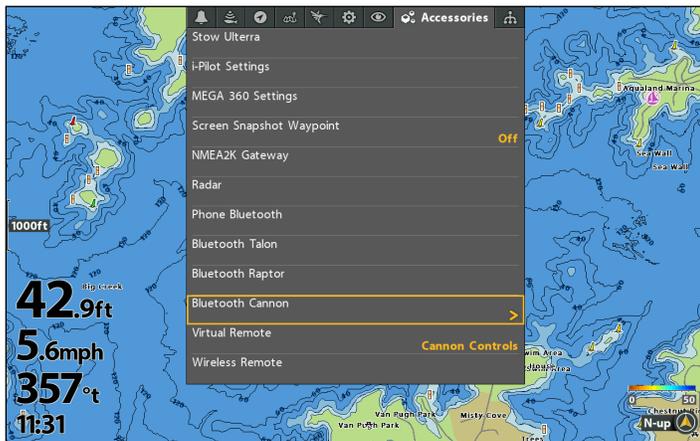
Open

## HELIX Series

1. **Main Menu:** Press the MENU key twice.
2. Select the **Accessories** tab.
3. Select **Bluetooth Cannon**. Press the RIGHT Cursor key.
4. Use the RIGHT and LEFT Cursor keys to navigate between the **Remote**, **Cannon**, and **Settings** tabs.

 **QUICK TIP!** You can also access the Bluetooth Cannon Menu from the Power X-Press Menu. Press the POWER key once to open the POWER X-Press Menu.

### Opening the Bluetooth Cannon Menu (HELIX)



Select



Open

## 2 | Renumber Your Cannons (multi-Cannon networks only)

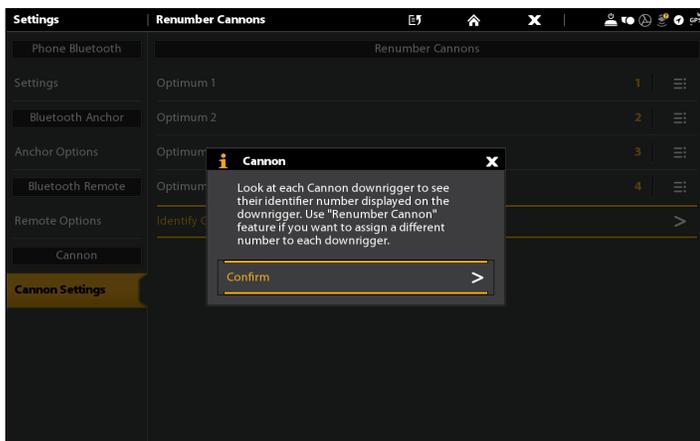
Use the Renumber Cannons option to assign a number to the downriggers in the network based on your preference. This menu is especially useful if downriggers on a network are moved to a different location in the boat.

### Identify Your Cannons

#### APEX/SOLIX Series

1. From the **Cannon Settings** menu, select **Renumber Cannons**.
2. Select **Identify Cannons**.
3. A dialog box will display on-screen indicating that your Cannons are displaying their identifier numbers.

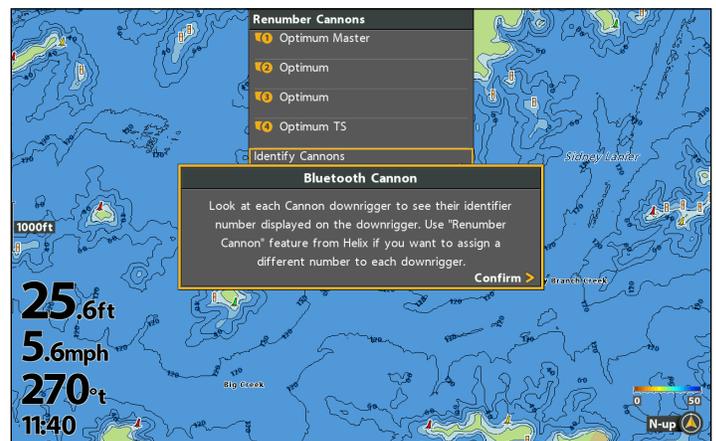
Identifying Your Cannons (APEX/SOLIX)



#### HELIX Series

1. From the **Bluetooth Cannon** menu, select the **Settings** tab.
2. Select **Renumber Cannons > Identify Cannons**.
3. A dialog box will display on-screen indicating that your Cannons are displaying their identifier numbers.

Identifying Your Cannons (HELIX)



### Renumber Your Cannons

#### APEX/SOLIX Series

1. From the **Cannon Settings** menu, select **Renumber Cannons**.
2. Select the Cannon you want to renumber.
3. Tap, or press the ENTER key, to select a new number for that Cannon.
4. Repeat these steps for each additional Cannon.

#### HELIX Series

1. From the **Bluetooth Cannon** menu, select the **Settings** tab.
2. Select **Renumber Cannons**. Press the RIGHT Cursor key.
3. Select the Cannon you want to renumber. Press the RIGHT Cursor key.
4. Select a new number for that Cannon. Press the RIGHT Cursor key or the CHECK/INFO key.
5. Repeat these steps for each additional Cannon.

## 3 | Adjust the Line Settings

Select the amount of Line on Spool, Line Type and Line Weight.

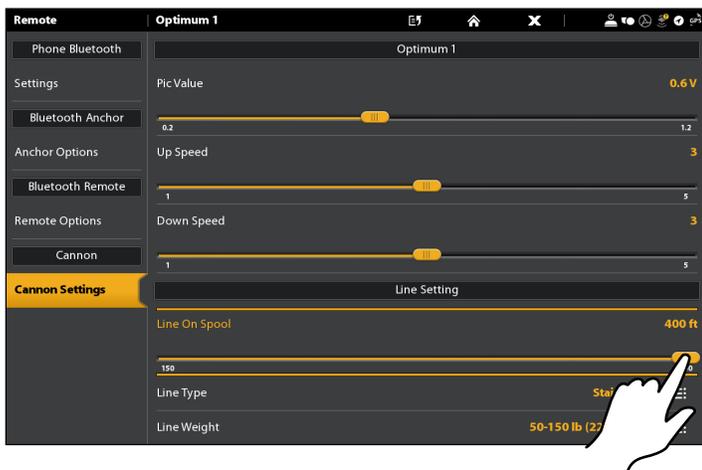
### Change the Amount of Line on the Spool

Program the downrigger with the amount of line on the spool. The spool comes installed with 400 feet of stainless steel line, and the Line on the Spool is set to the default of 400 feet. The range can be adjusted in 50 foot increments between the minimum of 150 feet and the maximum of 400 feet.

#### APEX/SOLIX Series

1. From the **Cannon Settings** menu, select the Cannon you want to adjust [Optimum 1, 2, 3 or 4].
2. Select **Line On Spool**.
3. Press and hold the slider, or press and hold the ENTER key, to adjust the setting.
4. Repeat these steps for each additional Cannon.

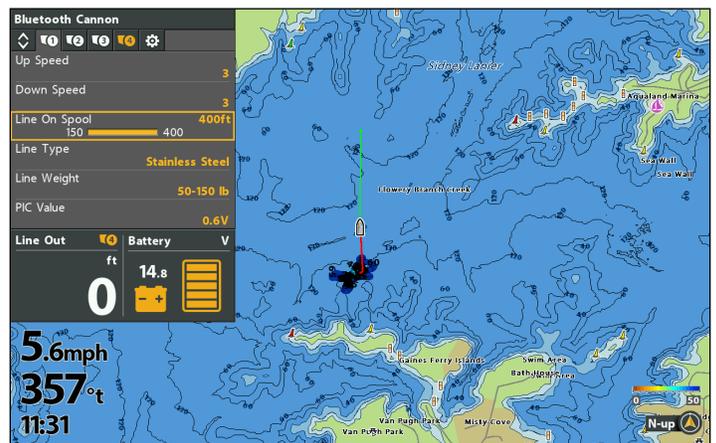
#### Adjusting Line on Spool (APEX/SOLIX)



#### HELIX Series

1. From the **Bluetooth Cannon** menu, select the Cannon tab you want to adjust [1, 2, 3 or 4].
2. Select **Line On Spool**.
3. Press the RIGHT or LEFT Cursor key to adjust the setting.
4. Repeat these steps for each additional Cannon.

#### Adjusting Line on Spool (HELIX)



### Set the Line Type

The default line type is Stainless Steel, but it can be set to either Braided, Stainless Steel or Mono.

#### APEX/SOLIX Series

1. From the **Cannon Settings** menu, select the Cannon you want to adjust [Optimum 1, 2, 3 or 4].
2. Select **Line Type**.
3. Tap, or press the ENTER key, to select your line type.
4. Repeat these steps for each additional Cannon.

#### HELIX Series

1. From the **Bluetooth Cannon** menu, select the Cannon tab you want to adjust [1, 2, 3 or 4].
2. Select **Line Type**.
3. Press the RIGHT or LEFT Cursor key to select your line type.
4. Repeat these steps for each additional Cannon.

## Set the Line Weight

The default line weight is 50-150lbs, but it can be set to either 50-150lbs, 150-200lbs or 200+lbs.

### APEX/SOLIX Series

1. From the **Cannon Settings** menu, select the Cannon you want to adjust [Optimum 1, 2, 3 or 4].
2. Select **Line Weight**.
3. Tap, or press the ENTER key, to select your line weight.
4. Repeat these steps for each additional Cannon.

### HELIX Series

1. From the **Bluetooth Cannon** menu, select the **Cannon** tab you want to adjust [1, 2, 3 or 4].
2. Select **Line Weight**.
3. Press the RIGHT or LEFT Cursor key to select your line weight.
4. Repeat these steps for each additional Cannon.

## 4 | Set the Up/Down Speed

The up speed and down speed are the speeds at which the spool spins while the weight is moving.

### APEX/SOLIX Series

1. From the **Cannon Settings** menu, select the Cannon you want to adjust [Optimum 1, 2, 3 or 4].
2. Select **Up Speed** or **Down Speed**.
3. Press and hold the slider, or press and hold the ENTER key, to adjust the setting.
4. Repeat these steps for each additional Cannon.

### HELIX Series

1. From the **Bluetooth Cannon** menu, select the **Cannon** tab you want to adjust [1, 2, 3 or 4].
2. Select **Up Speed** or **Down Speed**.
3. Press the RIGHT or LEFT Cursor key to adjust the setting.
4. Repeat these steps for each additional Cannon.

## 5 | Set the PIC Value

The Positive Ion Control (PIC) system applies a charge between 0.2 to 1.2 volts on the downrigger line at all times. The correct PIC setting for best fishing advantage varies, depending on fish type and location. See the *Optimum Owner's Manual* for more information.

### APEX/SOLIX Series

1. From the **Cannon Settings** menu, select the Cannon you want to adjust [Optimum 1, 2, 3 or 4].
2. Select **Pic Value**.
3. Press and hold the slider, or press and hold the ENTER key, to adjust the setting.
4. Repeat these steps for each additional Cannon.

### HELIX Series

1. From the **Bluetooth Cannon** menu, select the **Cannon** tab you want to adjust [1, 2, 3 or 4].
2. Select **PIC Value**.
3. Press the RIGHT or LEFT Cursor key to adjust the setting.
4. Repeat these steps for each additional Cannon.

## 7 | Turn Auto-Reconnect On or Off

If you want your control head to automatically reconnect to the paired Cannon after powering on the unit, turn Auto-Reconnect on. If you have networked control heads and want to manually control which control head connects to the Cannon, turn this option off.

### APEX/SOLIX Series

1. From the **Cannon Settings** menu, select **Auto-Reconnect**.
2. Tap the on/off button, or press the ENTER key, to adjust the setting.

### HELIX Series

1. From the **Bluetooth Cannon** menu, select the **Settings** tab.
2. Select **Auto-Reconnect Cannon**.
3. Press the RIGHT or LEFT Cursor key to adjust the setting.

## 8 | Show/Hide Cannon Weight[s] in a Sonar View

With a Sonar View displayed on screen, you can choose to display icons that move up and down to show the position of the weights in the water column.

### APEX/SOLIX Series

1. **Sonar X-Press Menu:** With a Sonar View displayed on-screen, tap Sonar in the status bar.

**OR**

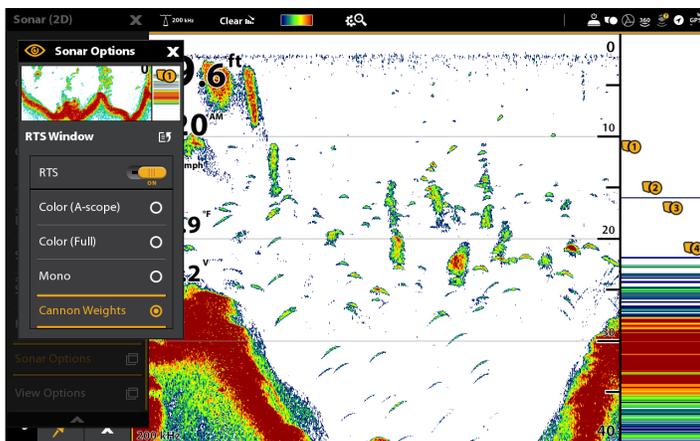
Press the MENU key once.

2. Select **Sonar Options > Preferences > RTS Window**.
3. Select **RTS**. Tap the on/off button, or press the ENTER key to show or hide the RTS Window.
4. With the RTS Window on, select **Cannon Weights** to display the icons.

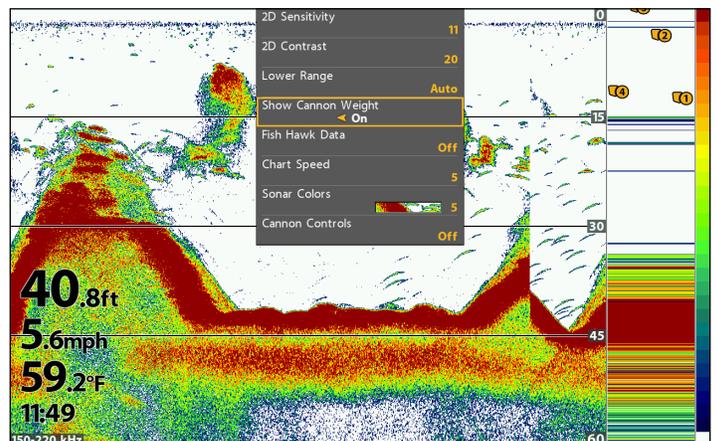
### HELIX Series

1. **Sonar X-Press Menu:** With a Sonar View displayed on-screen, press the MENU key once.
2. Select **Show Cannon Weight**.
3. Select On or Off.

Displaying Cannon Weights in a Sonar View (APEX/SOLIX)



Displaying Cannon Weights in a Sonar View (HELIX)



# OPERATING CANNON ON THE HUMMINBIRD CONTROL HEAD

With paired and connected Cannons on Humminbird control heads, you can choose the active Cannon, raise and lower the Cannon, select depth presets, Auto Up any or all Cannons, set the Water Zero level, start and adjust Cycle Mode, and start and adjust Bottom Tracking. Use the following menus to control your Cannon[s]:

- Cannon Sidebar Widget [APEX and SOLIX models only]
- Power X-Press Menu
- Bluetooth Cannon Menu [HELIX models only]
- Cannon X-Press Remote Pane [HELIX models only]

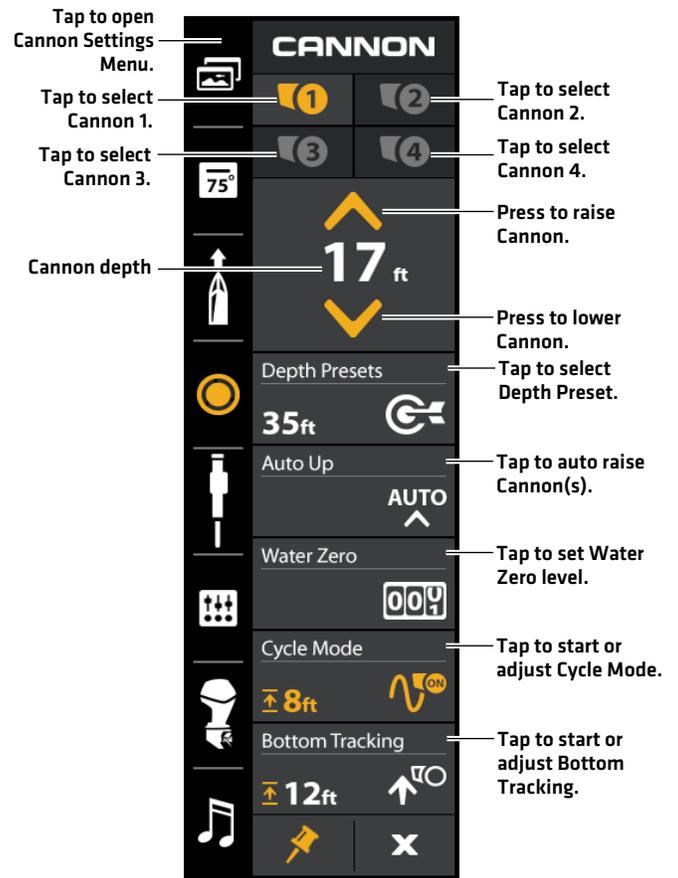
## Opening the Cannon Sidebar Widget (APEX and SOLIX Only)

 **NOTE:** For additional information on using the Sidebar Widget, review your control head operations manual on our Web site at [humminbird.com](http://humminbird.com).

### Opening the Cannon Sidebar Widget (APEX/SOLIX)

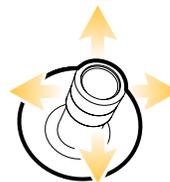


### Cannon Sidebar Widget [APEX/SOLIX]



Press

OR



Select



Adjust the Setting

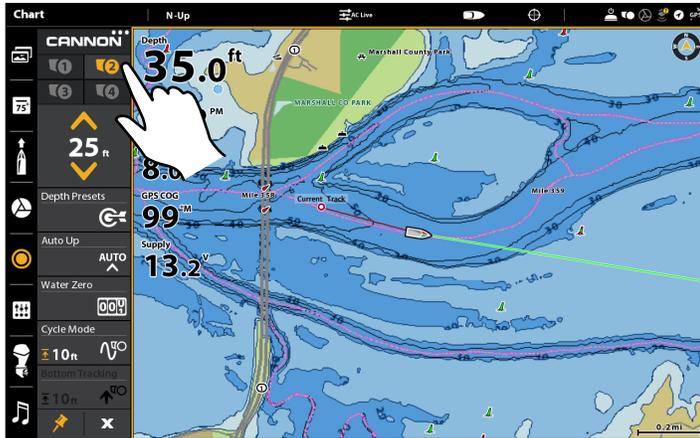
## Select the Active Cannon (multi-Cannon networks only)

When downriggers are connected in a network, it is possible to toggle control of each individual downrigger in the network.

### APEX/SOLIX Series

1. Select the **Cannon** icon in the side bar widget.
2. Tap the icon of the Cannon you want to make active [1, 2, 3 or 4].

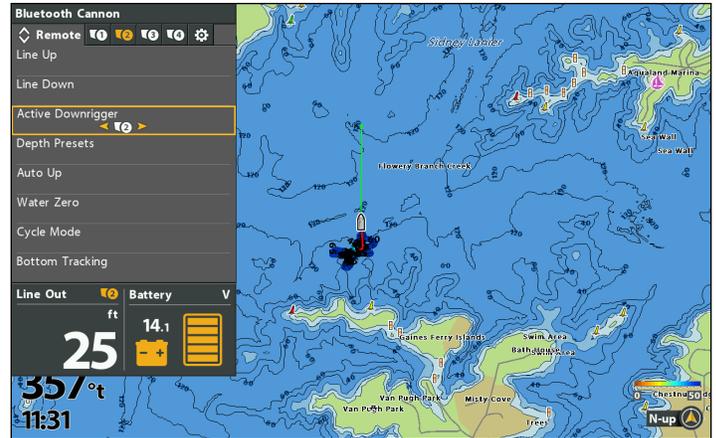
#### Selecting the Active Cannon (APEX/SOLIX)



### HELIX Series

1. From the **Bluetooth Cannon** menu, select the **Remote** tab.
2. Select **Active Downrigger**.
3. Press the RIGHT or LEFT Cursor key to select the active Cannon [1, 2, 3 or 4].

#### Selecting the Active Cannon (HELIX)



## Raise/Lower the Weight(s)

Use the Up and Down controls to manually control the position of the weight.

### APEX/SOLIX Series

1. Select the **Cannon** icon in the side bar widget.
2. Press and hold the Up or Down button to raise or lower the weight.

### HELIX Series

1. From the **Bluetooth Cannon** menu, select the **Remote** tab.
2. Select **Line Up** or **Line Down**.
3. Press and hold the RIGHT Cursor key to raise or lower the weight.

## Select Depth Presets

Use the Depth Presets to automatically send the downrigger weight to a preset depth. The preset depths can be customized on the Cannon. See the *Optimum Owner's Manual* for more information.

### APEX/SOLIX Series

1. Select the **Cannon** icon in the side bar widget.
2. Tap **Depth Presets** to open the submenu.
3. Select one of the preset depths.

### HELIX Series

1. From the **Bluetooth Cannon** menu, select the **Remote** tab.
2. Select **Depth Presets**. Press the RIGHT Cursor key to open the submenu.
3. Select one of the preset depths. Press the RIGHT Cursor key.

## Use Auto Up to Raise the Weight(s)

Use the Auto Up submenu to raise a specific downrigger weight to Water Zero, or raise all downrigger weights in a network at once.

### APEX/SOLIX Series

1. Select the **Cannon** icon in the side bar widget.
2. Tap **Auto Up** to open the submenu.
3. Select a single cannon to raise or select **Auto Up All** to raise them all at once.

### HELIX Series

1. From the **Bluetooth Cannon** menu, select the **Remote** tab.
2. Select **Auto Up**. Press the RIGHT Cursor key to open the submenu.
3. Select a single cannon to raise or select Auto Up All to raise them all at once.

If there is only one Cannon on the network, a dialog box will display on-screen instead of the submenu. Press the RIGHT Cursor key to confirm your selection.

## Set the Water Zero Level

Use Water Zero to set the line counter to zero when the weight is in any position. This is helpful to accommodate for water conditions or variations in line length as it is cycled up and down.

 **NOTE:** If the line counter is at a negative number, the downrigger weight has been retrieved and pulled higher than Water Zero.

### APEX/SOLIX Series

1. Select the **Cannon** icon in the side bar widget.
2. Tap **Water Zero** to open a dialog box.
3. Select **Confirm** to reset the line counter to zero.

### HELIX Series

1. From the **Bluetooth Cannon** menu, select the **Remote** tab.
2. Select **Water Zero**. Press the RIGHT Cursor key to open a dialog box.
3. Press the RIGHT Cursor key to reset the line counter to zero.

## Start/Adjust the Cycle Mode

Cycle Mode controls the downrigger to automatically cycle up and down between two depths, allowing you to target a zone when fishing and keep your bait moving as you troll. It works by setting a Cycle Depth, Range, Pause Time, Up Speed and Down Speed.

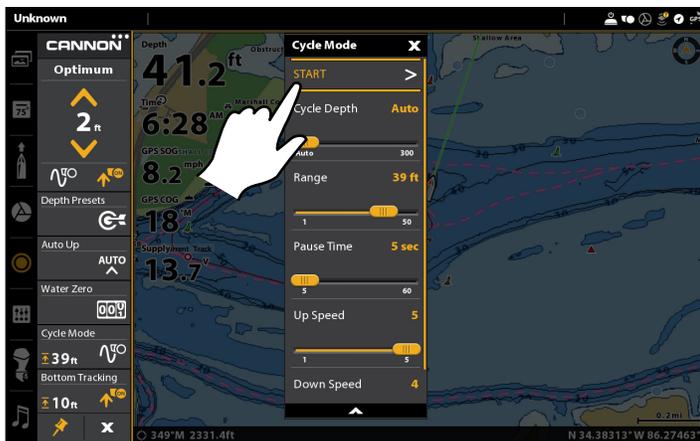
### Start Cycle Mode

#### APEX/SOLIX Series

1. Select the **Cannon** icon in the side bar widget.
2. Tap **Cycle Mode** to open the submenu.
3. Select **START** to turn on Cycle Mode.

To stop Cycle Mode, open the Cannon side bar widget > select **Cycle Mode** > **STOP**.

Starting Cycle Mode [APEX/SOLIX]



#### HELIX Series

1. From the **Bluetooth Cannon** menu, select the **Remote** tab.
2. Select **Cycle Mode**. Press the RIGHT Cursor key.
3. Select **Start**. Press the RIGHT Cursor key.

To stop Cycle Mode, select the **Remote** tab > **Cycle Mode** > **Stop**.

Starting Cycle Mode [HELIX]



### Set Cycle Depth

The Cycle Depth is the lowest or deepest depth that you want the weight to travel.

#### APEX/SOLIX Series

1. Select the **Cannon** icon in the side bar widget.
2. Tap **Cycle Mode** to open the submenu.
3. Select **Cycle Depth**.
4. Press and hold the slider, or press and hold the ENTER key, to adjust the setting.

#### HELIX Series

1. From the **Bluetooth Cannon** menu, select the **Remote** tab.
2. Select **Cycle Mode**. Press the RIGHT Cursor key.
3. Select **Cycle Depth**.
4. Press the RIGHT or LEFT Cursor key to adjust the setting.

## Set Range

---

The Range is the distance between the deepest depth at the bottom of the cycle and the top depth at the top of the cycle while the weight travels when the cycle is running.

### APEX/SOLIX Series

1. Select the **Cannon** icon in the side bar widget.
2. Tap **Cycle Mode** to open the submenu.
3. Select **Range**.
4. Press and hold the slider, or press and hold the ENTER key, to adjust the setting.

### HELIX Series

1. From the **Bluetooth Cannon** menu, select the **Remote** tab.
2. Select **Cycle Mode**. Press the RIGHT Cursor key.
3. Select **Range**.
4. Press the RIGHT or LEFT Cursor key to adjust the setting.

## Set Pause Time

---

Pause Time is the length of time that the weight stays at the top depth and the bottom depth.

### APEX/SOLIX Series

1. Select the **Cannon** icon in the side bar widget.
2. Tap **Cycle Mode** to open the submenu.
3. Select **Pause Time**.
4. Press and hold the slider, or press and hold the ENTER key, to adjust the setting.

### HELIX Series

1. From the **Bluetooth Cannon** menu, select the **Remote** tab.
2. Select **Cycle Mode**. Press the RIGHT Cursor key.
3. Select **Pause Time**.
4. Press the RIGHT or LEFT Cursor key to adjust the setting.

## Set Up/Down Speed

---

The Up Speed and the Down Speed are the speed that the Spool spins while the weight is moving between cycles.

### APEX/SOLIX Series

1. Select the **Cannon** icon in the side bar widget.
2. Tap **Cycle Mode** to open the submenu.
3. Select **Up Speed** or **Down Speed**.
4. Press and hold the slider, or press and hold the ENTER key, to adjust the setting.

### HELIX Series

1. From the **Bluetooth Cannon** menu, select the **Remote** tab.
2. Select **Cycle Mode**. Press the RIGHT Cursor key.
3. Select **Up Speed** or **Down Speed**.
4. Press the RIGHT or LEFT Cursor key to adjust the setting.

## Start/Adjust Bottom Tracking Mode

In Bottom Tracking Mode, the downrigger is designed to maintain the weight at a fixed distance above the bottom. In order to avoid continuous weight adjustments due to minor changes in bottom depth and boat motion caused by wave action, you have the ability to adjust the responsiveness of the weight.



**NOTE:** Bottom Tracking requires a transducer. Your Cannon must be connected to a Humminbird control head that is connected to a transducer. If your control is not connected to a transducer, a separate sonar transducer attached to your downrigger is required to use Bottom Tracking.



**CAUTION:** In order to keep the weight from touching or dragging on the bottom, make sure that the depth range selected is appropriate for the amount of line on the Spool and the amount of blowback experienced during operation at the intended depth and selected offset distance. When setting Bottom Tracking, the depth must not exceed the bottom depth of the area you are fishing and/or the length of the line on your spool. Running out the line completely will result in back spooling or loss of line.

## Start Bottom Tracking

### APEX/SOLIX Series

1. Select the **Cannon** icon in the side bar widget.
2. Tap **Bottom Tracking** to open the submenu.
3. Select **START** to turn on Bottom Tracking.  
**To stop Bottom Tracking**, open the **Cannon** side bar widget > select **Bottom Tracking** > **STOP**.

### HELIX Series

1. From the **Bluetooth Cannon** menu, select the **Remote** tab.
2. Select **Bottom Tracking**. Press the RIGHT Cursor key.
3. Select **Start**. Press the RIGHT Cursor key.  
**To stop Bottom Tracking**, select the **Remote** tab > **Bottom Tracking** > **Stop**.

## Set Offset Distance

The Offset Distance is the distance that the weight should be from the bottom depth. The setting can be adjusted between 50 and -50. The negative offset accounts for blowback while running the downrigger at high trolling speeds.

### APEX/SOLIX Series

1. Select the **Cannon** icon in the side bar widget.
2. Tap **Bottom Tracking** to open the submenu.
3. Select **Offset Distance**.
4. Press and hold the slider, or press and hold the ENTER key, to adjust the setting.

### HELIX Series

1. From the **Bluetooth Cannon** menu, select the **Remote** tab.
2. Select **Bottom Tracking**. Press the RIGHT Cursor key.
3. Select **Offset Distance**.
4. Press the RIGHT or LEFT Cursor key to adjust the setting

## Adjust Sensitivity

Sensitivity adjusts the responsiveness of the Bottom Tracking feature. The more sensitive, the higher the distance and the more the weight will react to minor changes to bottom depth or the motion of the boat due to wave action. For calmer conditions, start at lower sensitivity settings.

### APEX/SOLIX Series

1. Select the **Cannon** icon in the side bar widget.
2. Tap **Bottom Tracking** to open the submenu.
3. Select **Sensitivity**.
4. Press and hold the slider, or press and hold the ENTER key, to adjust the setting.

### HELIX Series

1. From the **Bluetooth Cannon** menu, select the **Remote** tab.
2. Select **Bottom Tracking**. Press the RIGHT Cursor key.
3. Select **Sensitivity**.
4. Press the RIGHT or LEFT Cursor key to adjust the setting

## Display Fish Hawk Data (Fish Hawk X4D Bluetooth System required)

When paired with your Cannon, the Fish Hawk X4D System provides the true running depth and speed of your weight, the temperature at the weight, plus surface temperature and speed. Within a multi-Cannon network, the Fish Hawk should only be paired to the Master downrigger. For more information, see *Getting Started: Pair the Cannon to a Fish Hawk*.

### Display Fish Hawk Data Overlay

#### APEX/SOLIX Series

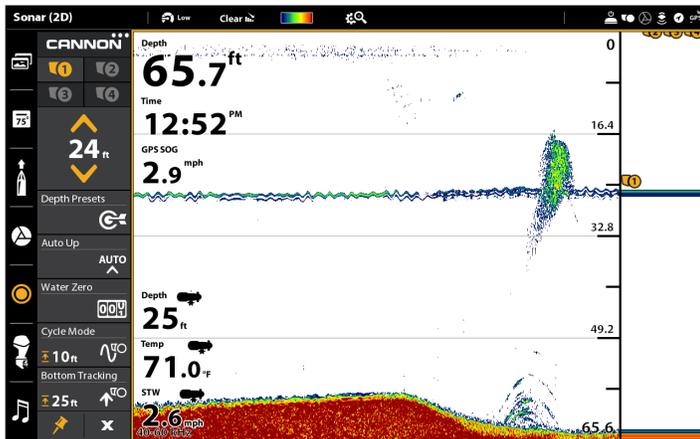
1. With a Chart or Sonar View displayed on screen, press and hold a data overlay to open the **Data Type** submenu.
2. Select an overlay position to change.
3. From the **Data Type** submenu, select **Cannon**.
4. Select one of the five Fish Hawk data types to display.
5. Repeat these steps for each additional overlay position you want to edit.

 **QUICK TIP!** You can also display Line Out information in one of the overlay positions. From the **Data Type** submenu, select **Cannon > Line Out**.

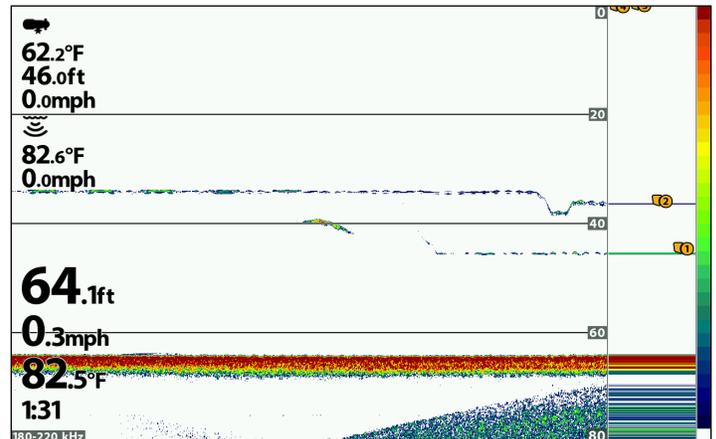
#### HELIX Series

1. **X-Press Menu:** With a Chart or Sonar View displayed on screen, press the MENU key once.
2. Select **Fish Hawk Data**.
3. Press the RIGHT or Left Cursor key to turn Fish Hawk data on or off.

Fish Hawk Data Overlay ON (APEX/SOLIX)



Fish Hawk Data Overlay ON (HELIX)



### Display Fish Hawk Data Boxes (APEX and SOLIX models only)

1. Tap the **Data Bar** icon in the side bar widget.
2. Press and hold a data box to open the **Data Type** submenu.
3. Select **Cannon**.
4. Select one of the five Fish Hawk data types to display.
5. Repeat these steps for each additional data box you want to edit.

 **QUICK TIP!** You can also display Line Out information in one of the data boxes. From the **Data Type** submenu, select **Cannon > Line Out**.

## Raise the Weight(s) from the Power X-Press Menu

You can access the Auto Up submenu from the Power X-Press Menu.

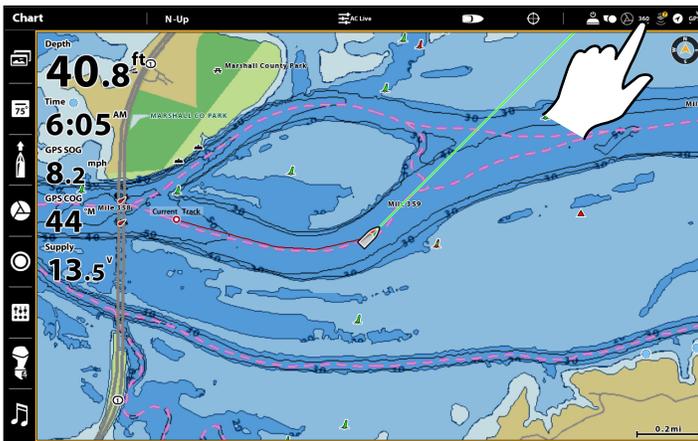
### APEX/SOLIX Series

1. From any view, press the POWER key or tap the status bar.
2. Select **Cannon**.
3. Select **Auto Up** to open the submenu.
4. Select a single cannon to raise or select **Auto Up All** to raise them all at once.

### HELIX Series

1. **Power X-Press Menu:** Press the POWER key once.
2. Select **Auto Up** to open the submenu.
3. Select a single cannon to raise or select **Auto Up All** to raise them all at once.

### Opening the Power X-Press Menu (APEX/SOLIX)



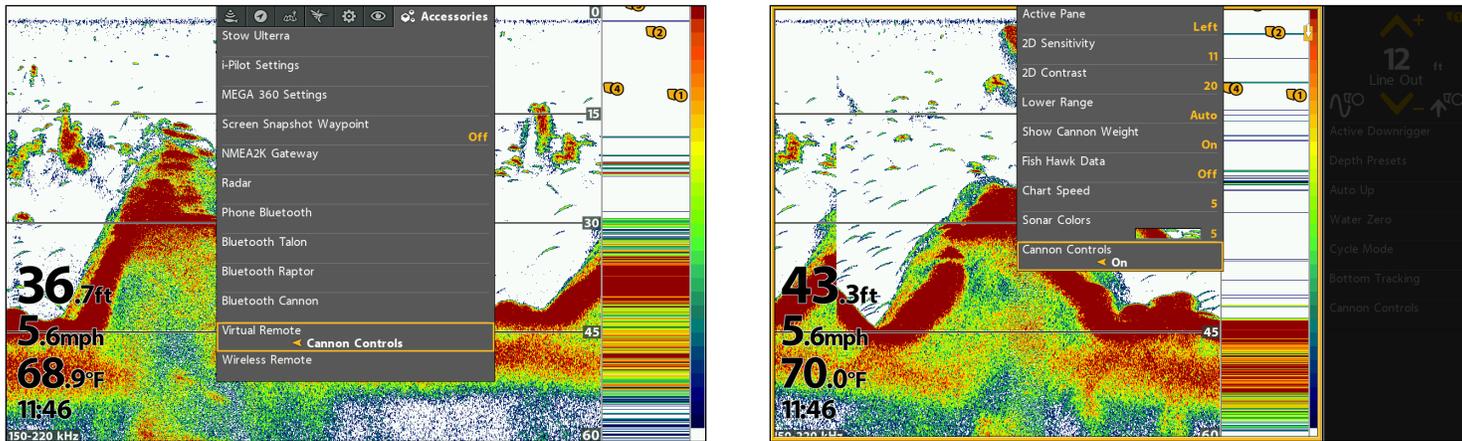
## Operate the Cannon(s) Using the Cannon X-Press Remote Pane (HELIX Only)

The Cannon X-Press Remote pane is available when a Chart or Sonar is displayed on-screen. The X-Press Remote pane is also available in Chart/Sonar Combo Views.

### Display the Cannon Remote Pane

1. **Main Menu:** Press the MENU key twice.
2. Select the **Accessories** tab.
3. Select **Virtual Remote**. Use the RIGHT and LEFT Cursor keys to select **Cannon Controls**.
4. Press the EXIT key.
5. **X-Press Menu:** With a Chart or Sonar View displayed on-screen, press the MENU key once.
6. Select **Cannon Controls**. Use the RIGHT or Left Cursor keys to turn Cannon Controls on or off.
7. Press the EXIT key.

## Displaying the Cannon X-Press Remote Pane (HELIX)

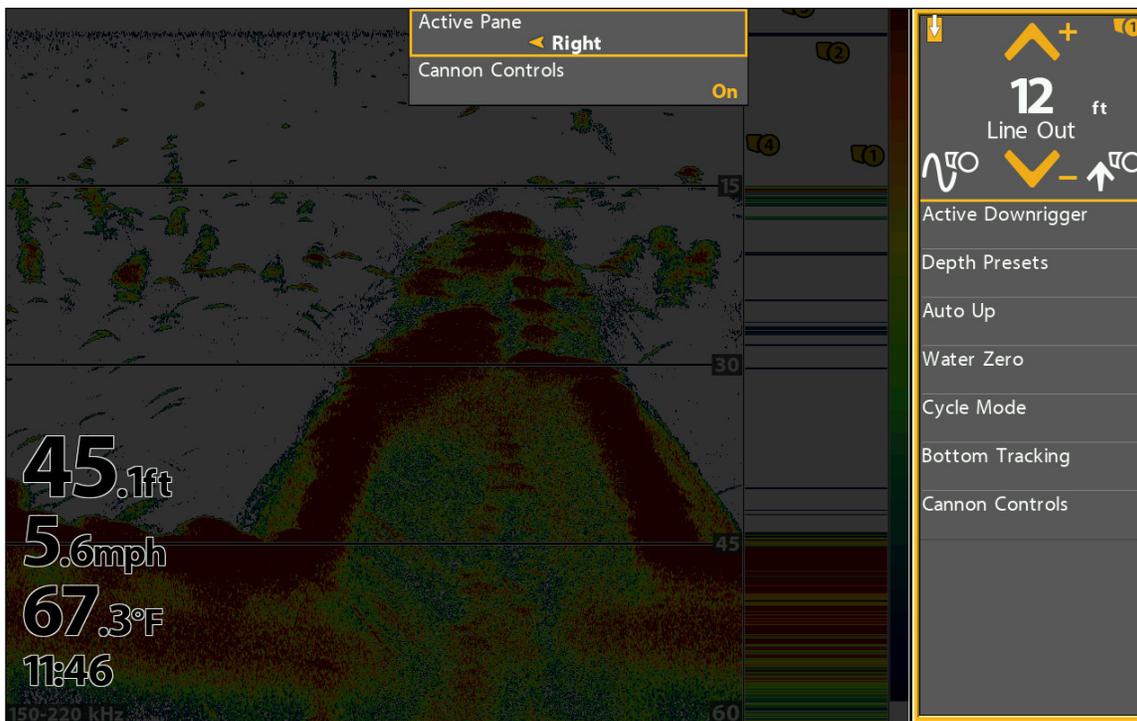


### Select the Active Pane

To change the settings in the Cannon X-Press Remote Pane, it must be selected as the active pane.

1. **X-Press Menu:** Press the MENU key once.
2. Select **Active Pane**.
3. Use the RIGHT or LEFT Cursor key to select a setting.

### Selecting the Active Pane (HELIX)



### Adjust X-Press Remote Menu Settings

1. With the Cannon X-Press Remote Pane open and active, use the Cursor Control keys to select a menu and change settings. See each related section of the manual for details.

### Open the Bluetooth Cannon Menu from the Cannon Remote Pane

1. From the Cannon Remote Pane, select **Cannon Controls**.
2. Press the Right Cursor key to open the submenu.

# OPERATING CANNON WITH THE CANNON MOBILE APP

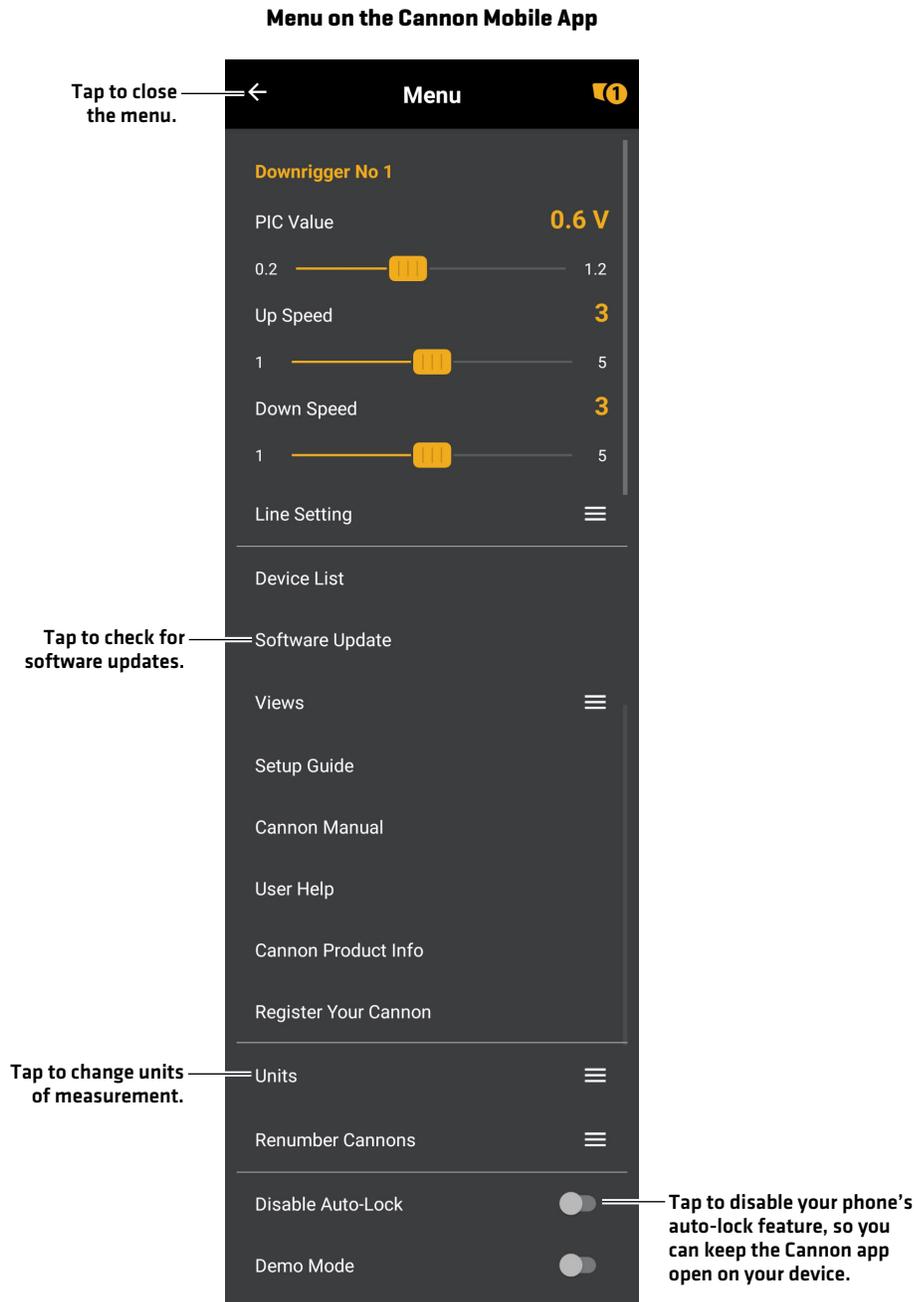
The Cannon Downriggers mobile app allows you to operate the Cannon[s] from your paired mobile device. For pairing instructions, see *Getting Started: Pair the Cannon to your Mobile Device*.

 **NOTE:** WiFi or cellular data must be enabled on your mobile device to access some of the features in this app, including updates.

 **NOTE:** For support, visit the Cannon website at [cannondownriggers.com](http://cannondownriggers.com).

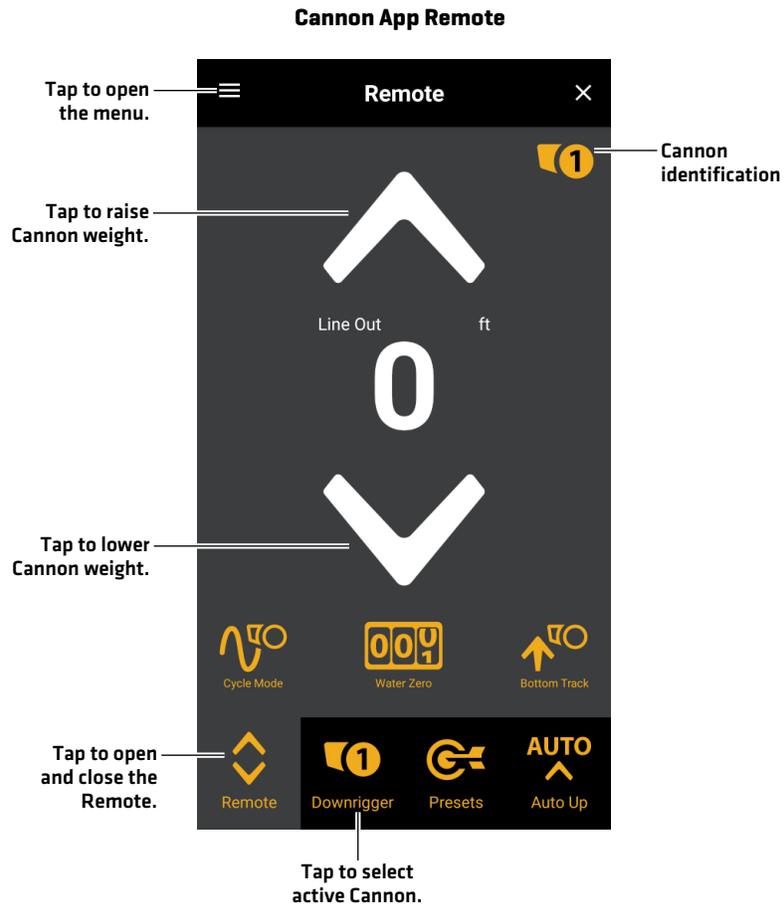
## Using the Cannon Menu on the Mobile App

With the Cannon App, you can update the Cannon software, use the built-in setup guide, register your Cannon[s], review Cannon product info, and access Cannon help. Additionally, you can change the units of measurement and disable your mobile device's auto-lock feature in order to keep the Cannon app displayed on your device.



## Operating the Cannon(s) from the Mobile App

1. **Raise the Weight:** Press the UP arrow.  
**Lower the Weight:** Press the DOWN arrow.  
**Change the active Cannon:** Tap the DOWNRIGGER icon.



# TROUBLESHOOTING

## Control Head Won't Pair to the Cannon

In the event the Humminbird control head won't successfully pair to the Cannon, use the following troubleshooting tasks:

### 1. Power off and Restart the Control Head

1. Power off the control head and restart it.
2. Repeat the pairing steps outlined in *Getting Started: Pair the Cannon to the Control Head*.

### 2. Disconnect your Mobile Device and Other Paired Accessories

1. **Disconnect your Mobile Device:** Turn **Bluetooth** off on your mobile device[s].
2. Repeat the pairing steps outlined in *Getting Started: Pair the Cannon to the Control Head*.
3. If the control head still won't successfully pair to the Cannon, disconnect any additional connections from the Device List using the following instructions:

#### APEX/SOLIX Series

1. Press the HOME key.
2. Select the **Bluetooth** tool.
3. Under Cannon, select **Cannon Settings**.
4. Select **Device List**.
5. Select a device to disconnect, then select **Forget Device**.

#### HELIX Series

1. **Main Menu:** Press the MENU key twice.
2. Select the **Accessories** tab.
3. Select **Bluetooth Cannon**. Press the RIGHT Cursor key.
4. Select the **Settings** tab.
5. Select **Cannon Device List**. Press the RIGHT Cursor key.
6. Select a device to disconnect and press the RIGHT cursor key. Select **Forget Device**.

## Forget Cannon

In the event you want to disconnect the Cannon from the control head, use the following instructions:

#### APEX/SOLIX Series

1. Press the HOME key.
2. Select the **Bluetooth** tool.
3. Under Cannon, select **Cannon Settings**.
4. Select **Forget Cannon**. Tap, or press the ENTER key, to select.
5. Follow the on-screen prompts.

#### HELIX Series

1. **Main Menu:** Press the MENU key twice.
2. Select the **Accessories** tab.
3. Select **Bluetooth Cannon**. Press the RIGHT Cursor key.
4. Select the **Settings** tab.
5. Select **Forget Cannon**. Press the RIGHT Cursor key.
6. Follow the on-screen prompts.

# MAINTENANCE

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## Update the Cannon Software

You can update the Cannon software through the Cannon Downriggers mobile app.

**Requirements:** The Cannon has to be paired to the mobile device, as the software update is pushed via the Bluetooth connection.

**Multi-Cannon Installations:** When you have two or more Cannons connected on a network, you only have to perform the procedure below once.

### Update Software from the Cannon App

**Supplies:** You will need your mobile device and a WiFi or cellular data connection.

To download the Cannon Downriggers mobile app, see **Preparation: Download the Cannon Mobile App**.

1. Open the Cannon app on your device.
2. From the app, open the menu by pressing the **Menu** button in the upper left corner of the app.
3. Select the Software Update option.
4. If an update is available, select **Download** to download the update to your device.



**NOTE:** Once the update has downloaded to the device, transferring the update to the downrigger[s] can be done through the network, without WiFi or cellular data.

5. With your Cannon[s] powered on and connected to the network, select **Transfer** from the app.

Both the Cannon app and the downrigger will alert you that the software update is transferring to the downrigger.

When the update is complete, the downrigger[s] will reboot.



**NOTE:** Do not interrupt power during the software update. See the **Optimum Owner's Manual** for more information.

## CONTACT HUMMINBIRD

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Contact Humminbird Technical Support in any of the following ways:

**Web site:**

[humminbird.com](http://humminbird.com)

**E-mail:**

[service@humminbird.com](mailto:service@humminbird.com)

**Telephone:**

1-800-633-1468

**Direct Shipping:**

Humminbird  
Service Department  
678 Humminbird Lane  
Eufaula, AL 36027 USA

**Hours of Operation:**

Monday - Friday

8:00 a.m. to 4:30 p.m. [Central Standard Time]

**Social Media Resources:**



[Facebook.com/HumminbirdElectronics](https://www.facebook.com/HumminbirdElectronics)



[Twitter.com \[@humminbirdfish\]](https://twitter.com/@humminbirdfish)



[Instagram.com/humminbirdfishing](https://www.instagram.com/humminbirdfishing)



[YouTube.com/humminbirdtv](https://www.youtube.com/humminbirdtv)

