


# LOWRANCE®



## Elite 5X DSI, Mark 5X DSI, Elite 4X DSI & Mark 4X DSI Operation manual



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# Introduction

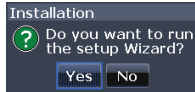
Unit Controls	
	<b>LIGHT/POWER:</b> controls backlight level and turns unit on/off
	<b>KEYPAD:</b> controls cursor & selects items on menus
	<b>PAGES:</b> allows you to select a page to view
	<b>MENU:</b> opens settings, context and page menus
	<b>ENTER:</b> finalizes menu selections; save waypoint at cursor position
	<b>ZOOM Keys:</b> used to zoom in/zoom out

Getting Started	
<b>Turn unit on/off</b>	To turn on/off the unit, press and hold the <b>LIGHT/POWER</b> key for three seconds.
<b>Adjusting the backlight</b>	This unit has 10 backlight levels. Press the <b>LIGHT/POWER</b> key to switch backlight levels.
<b>Muting Audio</b>	Select <b>Mute Audio</b> from the System menu and press <b>ENTER</b> .

# Basic Operation

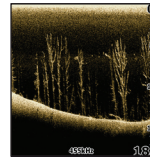
## Setup wizard

The Setup wizard will appear when the unit is turned on for the first time. To choose your own settings, do not run the setup wizard.

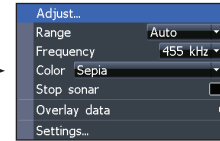


To restart the Setup wizard, restore defaults.

## DSI menu

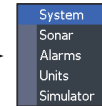


DSI page



DSI menu

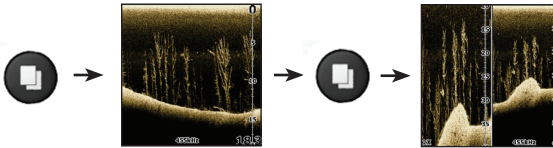
## Accessing the Settings menu



Settings menu

## Pages

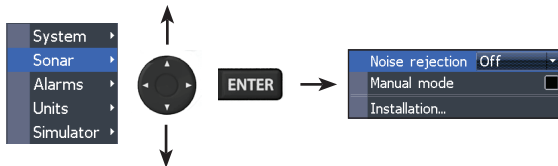
This unit has three pages: DSI, Split frequency and Split zoom.



# Basic Operation

## Accessing menu items

The keypad and **ENTER** key are used to select menu items and open submenus. Use the keypad to highlight the desired item and press **ENTER**.



## Working with menus

There are several menu types used to make adjustments to options and settings, including scrollbars, on/off features and dropdown menus.

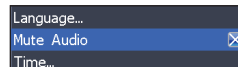
### Scrollbars

Select the scrollbar and press the keypad left (decrease) or right (increase).



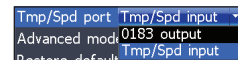
## On/Off features

Select an on/off menu item and press **ENTER** to turn it on/off.



## Dropdown menus

After accessing the dropdown menu, press the keypad up/down to select the desired item and press Enter.

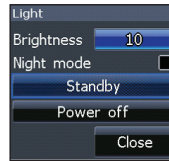


**NOTE:** Press the **MENU** key to Exit menus.

## Dialogs

Dialogs are used for user input or for presenting information to the user.

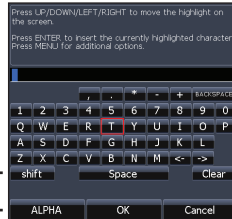
Depending on the type of information or entry, different methods are used to confirm, cancel or close the dialog.



## Entering text

Switches letters to uppercase/lowercase

Switches keyboard between Alpha and QWERTY layout



## To input text:

1. Use the keypad to select the desired character and press **ENTER**.
2. Repeat Step 1 for each character.
3. When entry is completed, highlight **OK** and press **ENTER**.

## Cursor

The cursor is used to select review sonar history. Press **MENU** and select *Exit cursor mode* to clear the cursor.

## Basic Operation

### Standby mode

Lowers power consumption by turning off sonar and the display.

Press the PWR/Light key to access the Backlight dialog. Select Standby and press Enter.

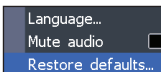
Press any key to resume normal operation.



**NOTE:** *Leaving your unit in Standby mode when your boat is not in use will run down your battery.*

### Restore defaults

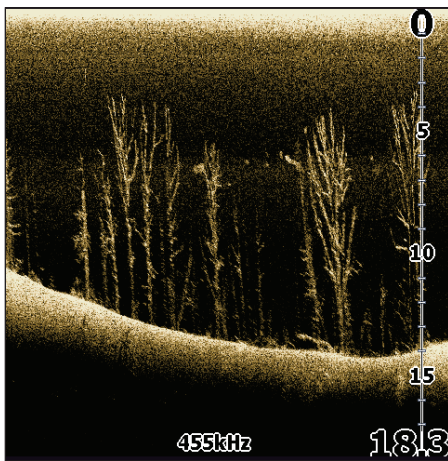
Resets unit options and settings to defaults.



### Adjusting the display

You can make adjustments to the display using Contrast and Color settings. Both are covered in the DSI section.

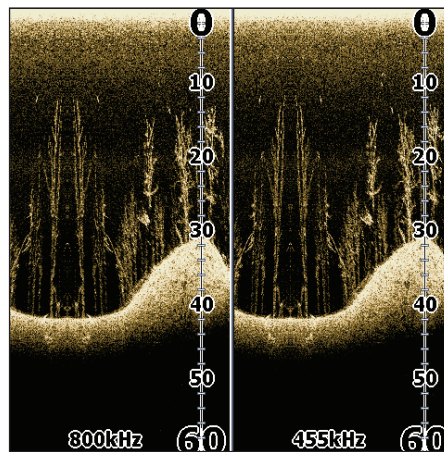




*DSI Page*

## DSI Page

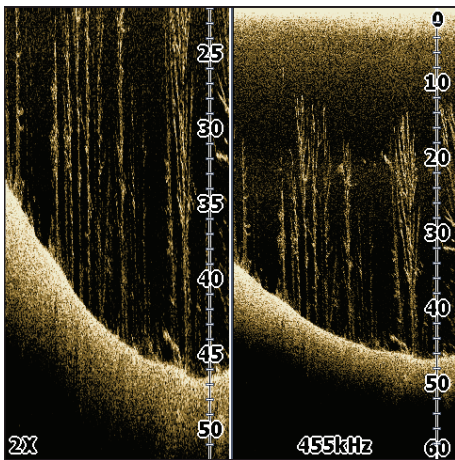
Displays the water column moving from right to left on your unit's screen.



*DSI Split Frequency page*

## Split Frequency

Displays both transducer frequencies at the same time. 800 kHz provides the best resolution, while 455 kHz has greater depth coverage.



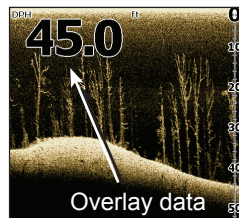
*DSI Split Zoom*

## Split Zoom

Allows you to zoom in for a closer look without losing your view of the water column.

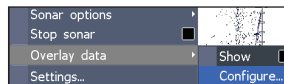
## Overlay Data

Allows you to select data (water temperature, depth, etc) to be displayed on top of the DSI screen. You can also turn on/off the display of configured overlay data using the Show setting.



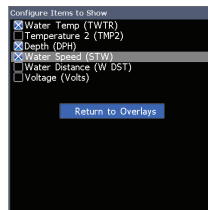
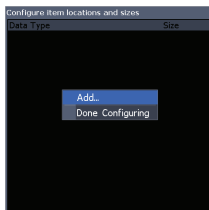
## Show

Enables/disables the display of overlay data, allowing you to remove overlay data from the screen without deleting the selected overlay data configuration.



## Configure

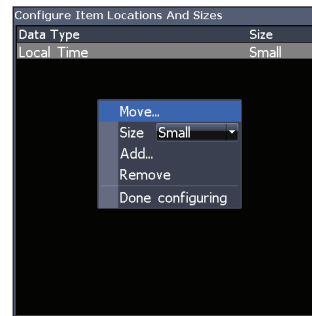
Used to select and customize overlay data for display on the DSI screen.



### To select overlay data:

1. From a DSI page, press **MENU**.
2. Select *Overlay data* and press **ENTER**.
3. Select *Configure* and press **ENTER**.
4. Press *Menu* and select *Add*. Press **ENTER**.
5. Select the desired data from the Configure Items to show screen. Press **ENTER**.

6. Press **MENU** and select *Return to overlays*.
7. Press **MENU**, select *Done Configuring* and press **ENTER**.

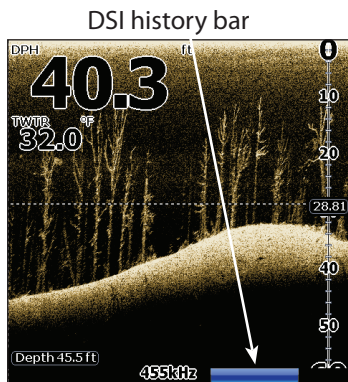


### Customizing Overlay Data

Access the Overlay Data configuration menu to make adjustments to the size and/or location of overlay data on the display.

Press Menu from the Configure Item Locations and Sizes screen to access the menu.

## Using DSI



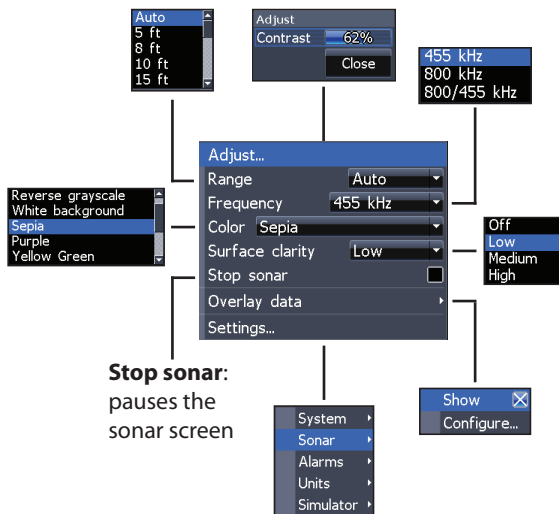
## Trackback

You can review your sonar history by pressing the keypad to the left until the screen starts to move in reverse and the sonar history bar appears at the bottom of the screen.

Move the sonar history bar all the way to the right to resume normal sonar scrolling, or press **MENU** and select *Exit cursor mode*.

## DSI menu

Press Menu from any DSI page to view the DSI menu.



**Stop sonar:**  
pauses the  
sonar screen

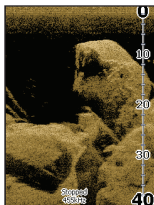
### Adjust

Accesses the Contrast adjustment scrollbar, allowing you to adjust contrast settings.

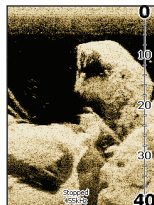


### Contrast

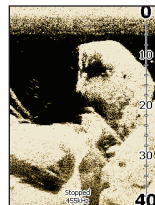
Adjusts the brightness ratio between light and dark areas on the screen, making it easier to distinguish suspended objects from the background.



Contrast set to 40



Contrast set to 60

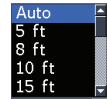


Contrast set to 80

DSI units do not have a Sensitivity setting like traditional sonar units. Contrast functions as the sensitivity setting for DSI units.

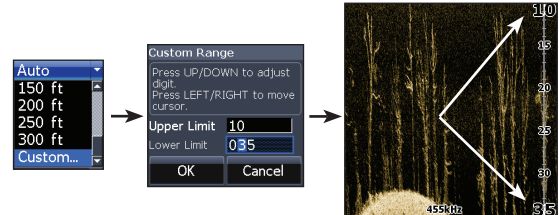
### Range

Selects the deepest range shown on the display. Range settings display the section of the water column from the water surface to the selected depth range.



### Custom Range — Upper and Lower Limits

Used to select the upper limit and lower limit of a section of the water column. That allows you to view a section of the water column that does not include the water surface.



Upper and lower limits must be at least 6.5 ft (2m) apart.

# DSI



**NOTE:** *When using a custom range, you may not receive any digital depth readings, or you may receive incorrect depth information.*

## Frequency

Controls the transducer frequency used by the unit. 800 kHz offers the best resolution, while 455 kHz has greater depth coverage.

455 kHz  
800 kHz  
800/455 kHz

## Color

Used to change the unit's color palette. The Color setting allows you to select a palette best suited for your fishing conditions.

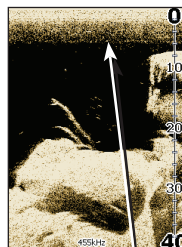
Reverse grayscale  
White background  
Sepia  
Purple  
Yellow Green

The White background palette works well for suspended targets. Purple is useful for viewing structure detail and determining bottom hardness. Sepia is best for looking at bottom detail. Mono-

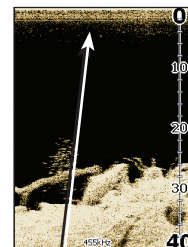
chrome units only support Grayscale and Reverse Grayscale settings.

## Surface Clarity

Surface Clarity reduces surface clutter by decreasing the sensitivity of the receiver near the surface.



**Surface Clarity set to Low.**



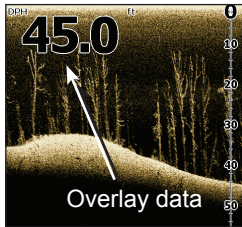
**Surface Clarity set to High.**

## Stop Sonar

Pauses the sonar chart, allowing you to get a better look at suspended targets and structure.

### ***Overlay Data***

Allows you to select data (water temperature, depth, etc) to be displayed on top of the DSI screen.

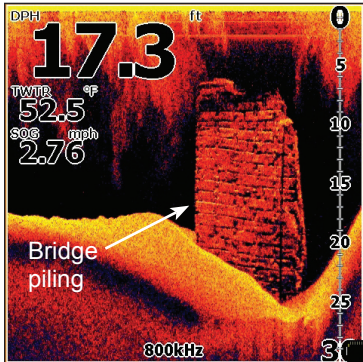
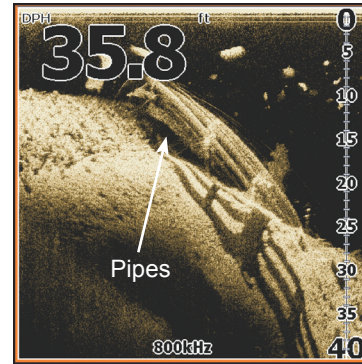
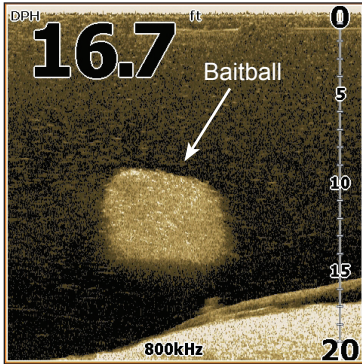


Overlay data setup is covered in the Pages section.

### ***Settings***

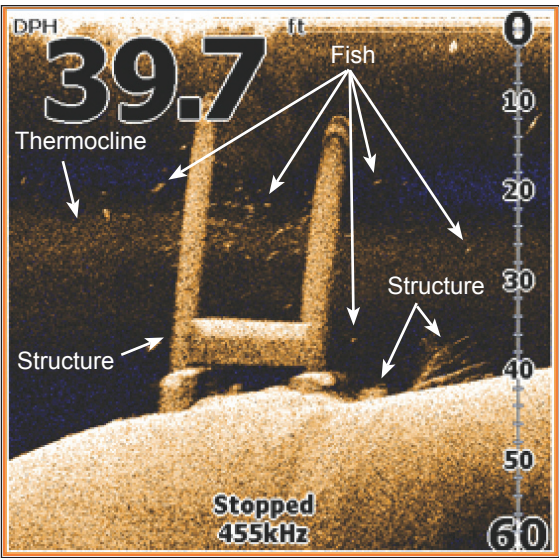
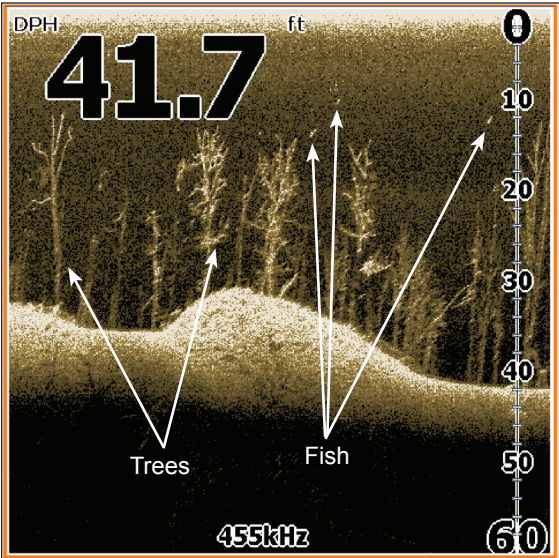
Accesses the settings menu.

# DSI Interpretation





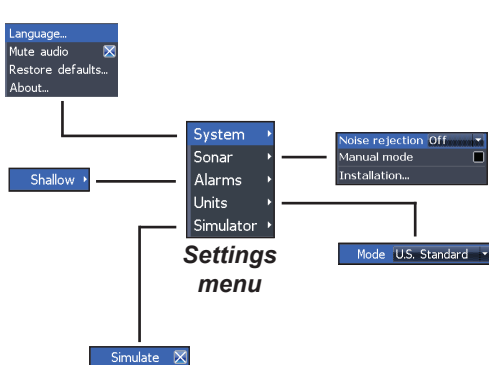
# DSI Interpretation



# Settings

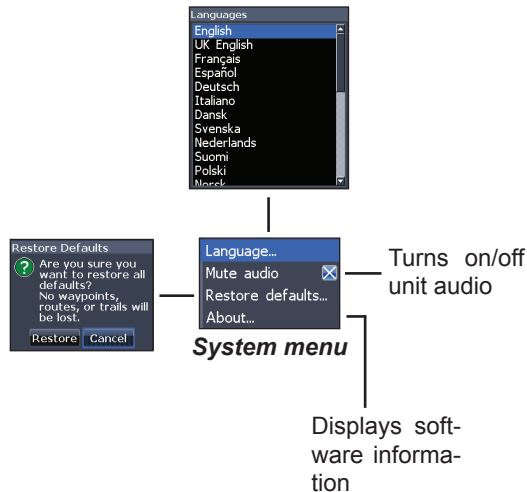
## Settings Menu

Accesses installation and configuration settings for your unit.



## System

Adjusts unit settings like language, mute audio and advanced mode.



## Set Language

Selects the language used on menus and text boxes.

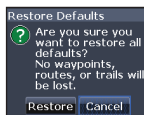


## Mute Audio

Turns on/off unit audio, like key beeps, alarm sounds, etc.

## Restore Defaults

Switches the unit back to default settings.



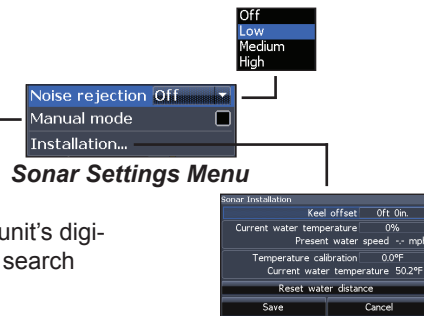
## About

Displays software information about this unit. Before attempting a software update, you can check the version of software your unit is using by accessing the About screen.

Lowrance periodically updates unit software to add features and improve functionality. To see the latest available software version go to [www.lowrance.com](http://www.lowrance.com).

## Sonar

Used to make adjustments to Sonar options and settings.



Restricts unit's digital depth search capability

## Settings

### Noise Rejection

Uses advanced signal processing to monitor the effects noise (boat pumps, water conditions, engine ignition systems, etc.) has on your display, and then filters out the undesired signals.

### Manual Mode

Restricts digital depth capability, so the unit will only send sonar signals to the selected depth range. That allows the display to continue smooth scrolling if the bottom depth is out of transducer range.

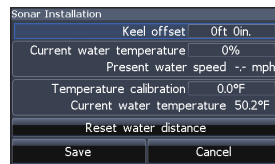


**WARNING:** *Manual mode should only be used by advanced sonar users.*

When the unit is in manual mode, you may not receive any depth readings, or you may receive incorrect depth information.

## Installation

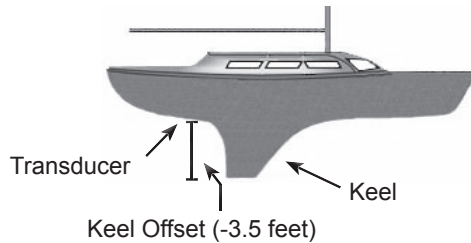
Provides access to Keel Offset and Temp Calibration settings.



### Installation menu

### Keel Offset

All transducers measure water depth from the transducer to the bottom. As a result, water depth readings do not account for the distance from the transducer to the keel or from the transducer to the water surface.



Before setting keel offset, measure the distance from the transducer to the lowest part of the keel. If, for example, the keel is 3.5 feet below the transducer, it will be input as  $-3.5$  feet.

## **Temperature calibration**

Calibrates readings from the transducer temperature sensor with data from a known temperature source to ensure the accuracy of temperature information.

## **Reset water distance**

Reset Water Distance to zero.

## **Alarms**

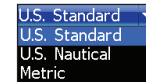
Enables Shallow alarm and allows you to select the alarm threshold.

The Shallow alarm sounds an alarm when your vessel enters water shallower than the selected shallow threshold.



## **Units**

Allows you to select the unit of measure used by your unit.



## **Simulator**

Used to simulate on the water activity.

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# Specifications

Elite 5x DSI & Mark 5X DSI	
General	
<b>Case Size</b>	5.4" H (134mm) x 6.8" W (174mm); 6" H (152mm) with bracket
<b>Weight</b>	<b>Mark 5x:</b> 1.35lbs (613kgs) <b>Elite 5x:</b> 1.68lbs (.763kgs)
<b>Display</b>	<b>Elite:</b> (5" diagonal) Enhanced Solar MAX™ 480x480 256 color TFT LCD <b>Mark:</b> (5" diagonal) 480x480 monochrome
<b>Backlight</b>	Cold cathode fluorescent lamp (10 levels)
Power	
<b>Transmit Power</b>	4000W PTP; 500W RMS
<b>Power Requirement</b>	12 Volts DC
<b>Voltage Input</b>	10 to 17V
<b>Current drain</b>	<b>Elite 5x:</b> at 13.5V (630mA) <b>Mark 5x:</b> at 13.5V (320mA)
<b>Fuse type</b>	3-amp Automotive (not supplied)

DSI Sonar	
<b>Max depth</b>	250 ft (61m)
<b>Transducer Frequency</b>	455/800kHz
<b>Max speed</b>	50 mph (80 kph) 2-8 mph (3-12 kph) optimal for imaging
<b>Transducer</b>	DSI (Downscan) transducer
<b>Transducer cable</b>	20ft (6m)

# Specifications

Elite 4x DSI & Mark 4X DSI	
General	
<b>Case Size</b>	5.6" H (144mm) x 3.7" W (94.3mm); 6.4" H (164mm) with bracket
<b>Display</b>	<b>Elite 4:</b> (3.5" diagonal) 320x240 (256 color) TFT LCD <b>Mark 4:</b> (3.5" diagonal) 320x240 monochrome TFT LCD
<b>Backlight</b>	White LED (10 levels)
Power	
<b>Transmit Power</b>	2800W PTP; 350W RMS
<b>Power Requirement</b>	12V
<b>Voltage Input</b>	10 to 17V
<b>Current drain</b>	at 13.5V (200mA)
<b>Fuse type</b>	3-amp Automotive (not supplied)

DSI Sonar	
<b>Max depth</b>	200 ft (76m)
<b>Transducer Frequency</b>	455/800kHz
<b>Max speed</b>	50 mph (80 kph) 2-8 mph (3-12 kph) optimal for imaging
<b>Transducer</b>	DSI (Downscan) transducer
<b>Transducer cable</b>	20ft (6m)



## **How to Obtain Service... ..in the USA:**

Contact the Factory Customer Service Department. Call toll-free:

**800-324-1356**

8 a.m. to 5 p.m. Central Standard Time, M-F

*Navico may find it necessary to change or end shipping policies, regulations and special offers at any time. They reserve the right to do so without notice.*

## **...in Canada:**

Contact the Factory Customer Service Department. Call toll-free:

**800-661-3983**

**905-629-1614 (not toll-free)**

8 a.m. to 5 p.m. Eastern Standard Time, M-F

## **...outside Canada and the USA:**

Contact the dealer in the country where you purchased your unit. To locate a dealer near you, see the instructions in paragraph number 1 below.

### **Accessory Ordering Information**

LEI Extras is the accessory source for sonar and GPS products manufactured by Lowrance Electronics. To order Lowrance accessories, please contact:

- 1)** Your local marine dealer or consumer electronics store. To locate a Lowrance dealer, visit the web site, [www.lowrance.com](http://www.lowrance.com), and look for the Dealer Locator; or, consult your telephone directory for listings.
- 2)** U.S. customers visit our web site [www.lei-extras.com](http://www.lei-extras.com).
- 3)** Canadian customers: Lowrance Canada, 919 Matheson Blvd. E. Mississauga, Ontario L4W2R7 or fax 905-629-3118. Call toll free in Canada, 800-661-3983, or dial 905 629-1614 (not toll free), 8 a.m. to 5 p.m. Eastern Standard Time, M-F.

Visit our website:

[www.lowrance.com](http://www.lowrance.com)



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