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For technical specifications, certificates and declarations, refer to the product web site:

www.lowrance.com
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Introduction

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<tr>
<th>Unit Controls</th>
<th>Getting Started</th>
</tr>
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<tbody>
<tr>
<td><strong>LIGHT/POWER</strong>: controls backlight level and turns unit on/off</td>
<td><strong>Turn unit on/off</strong> To turn on/off the unit, press and hold the LIGHT/POWER key for three seconds.</td>
</tr>
<tr>
<td><strong>KEYPAD</strong>: controls cursor &amp; selects items on menus</td>
<td><strong>Adjusting the backlight</strong> This unit has 11 backlight levels. Press the LIGHT/POWER key to switch backlight levels.</td>
</tr>
<tr>
<td><strong>PAGES</strong>: allows you to select a page to view</td>
<td><strong>Muting Audio</strong> Select <em>Audio</em> from the System menu. Select <em>Mute</em> and press ENTER.</td>
</tr>
<tr>
<td><strong>MENU</strong>: opens settings, context and page menus</td>
<td></td>
</tr>
<tr>
<td><strong>ENTER</strong>: finalizes menu selections</td>
<td></td>
</tr>
<tr>
<td><strong>ZOOM KEYS</strong>: (+) used to zoom in; (-) used to zoom out</td>
<td></td>
</tr>
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Conventional sonar and DownScan

This unit supports two types of sonar: Conventional and DownScan.

Refer to the “Sonar Operation” section for information about conventional sonar features and settings.

DownScan features and settings are covered in the “DownScan Operation” section.
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.

Selecting Pages

To select a page, press the keypad in the direction of the desired page and press ENTER.

Page menus

The DownScan and Sonar pages have menus that can only be accessed when those pages are displayed.

Pages

This unit has four pages: DownScan, Sonar, Sonar/Downscan (vertical) and Sonar/Downscan (horizontal).
Press the PAGES key twice to switch active panels. The page menu for the active page will be displayed when the MENU key is pressed.

Accessing the Settings menu

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**

Access the dropdown menu and 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 entry, different methods are used to confirm, cancel or close the dialog.

**Entering text**

Some functions, like naming a waypoint, route or trail, will require you to input text.

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.
### Fishing Mode Options

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<th>Mode</th>
<th>Range</th>
<th>Environment</th>
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<tr>
<td>General Use</td>
<td>1000ft or less</td>
<td>Coastal</td>
</tr>
<tr>
<td>Shallow Water</td>
<td>60ft or less</td>
<td>Shallow weedy bottoms</td>
</tr>
<tr>
<td>Fresh Water</td>
<td>400ft or less</td>
<td>Inland/Near coastal</td>
</tr>
<tr>
<td>Deep Water</td>
<td>1000ft or more</td>
<td>Offshore</td>
</tr>
<tr>
<td>Slow Trolling</td>
<td>400ft or less</td>
<td>Inland/Coastal</td>
</tr>
<tr>
<td>Fast Trolling</td>
<td>400ft or less</td>
<td>Inland/Coastal</td>
</tr>
<tr>
<td>Clear Water</td>
<td>400ft or less</td>
<td>Inland/Coastal</td>
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<tr>
<td>Brackish Water</td>
<td>400ft or less</td>
<td>Fresh-Saltwater mix</td>
</tr>
<tr>
<td>Ice</td>
<td>400ft or less</td>
<td>Ice fishing</td>
</tr>
</tbody>
</table>

### Fishing Modes  
*(Conventional sonar only)*

Fishing modes enhance the performance of your unit by providing preset packages of sonar settings geared to specific fishing conditions.
Cursor
The keypad moves the cursor around the display and allows you to review sonar history.

Advanced Mode
Enables advanced features and settings.
The following features are enabled when Advanced mode is turned on:
- NMEA 0183 configuration options
- Units (Enables depth and temperature configuration options)

Standby mode
Lowers power consumption by turning off sonar and the display.

1. Press the PWR/LIGHT key to access the Backlight dialog.
2. Select Standby and press ENTER.
3. 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
Sets unit options and settings to default values.
**Pages**

**Sonar Page**
Displays the water column moving from right to left on your unit’s screen.

**DownScan page**
The DownScan page shows the water column moving from right to left. You can overlay DownScan sonar on the conventional sonar page by selecting *DownScan Overlay* on the Sonar settings menu.
Combos pages
This unit has two pre-configured combo pages.

Sonar/DownScan
Sonar/DownScan horizontal

NOTE: Press the PAGES key twice to switch active panels. The active panel will have an orange border.

Customizing combo pages
You can control how the pages will be arranged on the screen: vertically (side) or horizontally (over).

Overlay Data
Used to select data shown on the Sonar and Down-Scan pages.

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

Configure
Allows you to select/customize overlay data.
To add overlay data:

1. From the Sonar or DownScan 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 a data category and press **ENTER**.
6. Select the desired data and press **ENTER**.
7. Repeat Steps 5 and 6 to add more data.
8. Press **MENU** and select *Return to Overlays*. Press **ENTER**.
9. Press **MENU**, select *Done Configuring* and press **ENTER**.

### Customizing Overlay Data

You can add/remove data and adjust the size and position of overlay data on the screen.

1. Press **MENU** and select *Overlay data*.
2. Select *Configure* and press **ENTER**.
3. Highlight the desired overlay data and press **MENU**.
4. Select the desired configuration category to make adjustments.
DownScan Operation

This unit supports two types of sonar: Conventional and DownScan.

The features described in this section are for DownScan sonar. Refer to the “Sonar operation” section for information on conventional sonar features.

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.

DownScan menu

Press **MENU** from the DownScan page to view the DownScan menu.

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

DownScan Operation | Elite-4x HDI
Adjust
Access the Adjust menu to make adjustments to the contrast level.

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%

Auto Contrast
Automatically adjusts contrast settings to a level that works best with current water conditions.

NOTE: You can make limited adjustments to the contrast level with Auto Contrast turned on. You will have to turn it off to have access to all contrast levels.

Range
Range settings display the section of the water column from the water surface to the selected depth range.

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

![Custom Range — Upper and Lower Limits](image)

**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.

**Ping Speed**

Controls the rate the transducer uses to send sonar waves into the water. Ping speed adjustments can help reduce interference from other transducers.

Upper and lower limits must be at least 5 ft (2m) apart.
DownScan options

**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 undesired signals.

**Surface Clarity**

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

**Split Zoom**

Changes the display to a split zoom view. You can select a 2X or 4X zoom level. Press the +/- keys to zoom in/zoom out.

**Color**

Allows you to select a color palette best suited to your fishing conditions.

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.
**Stop Sonar**

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

NOTE: *Sonar history (Trackback) will not be recorded when sonar is stopped.*

**Overlay Data**

Allows you to select data to be displayed on top of the Down-Scan page.

Overlay data setup is covered in the “Pages” section.

**Settings**

Accesses the Settings menu. Refer to “Sonar Settings” on page 27.
Sonar Operation

This unit supports two types of sonar: Conventional and DownScan.

The features described in this section are for conventional sonar.

Refer to the “DownScan operation” section for information on DownScan features.

Trackback

You can review your recent sonar history by moving the cursor to the left until the screen starts to move in reverse.

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

Sonar Menu

Press MENU from any sonar page to access the Sonar menu.
**Adjust**

You can make adjustments to Sensitivity and Colorline from the Adjust menu. Contrast and Overlay options will only be active on the Adjust menu with DownScan Overlay enabled.

**Sensitivity**

Controls the level of detail shown on the display. Too much detail will clutter the screen. If Sensitivity is set too low, desired echoes may not be displayed.

**Colorline**

Separates strong sonar echoes from weak sonar echoes. That makes it easier for you to distinguish fish or structure from the bottom. A hard return will be shown as a wide, bright yellow area, whereas a soft return will be a narrow reddish-blue area.
**Auto Sensitivity**

Keeps sensitivity at a level that works well under most conditions, reducing the need for adjustments. Auto Sensitivity is turned on by default.

*NOTE:* You can make changes (+/-40%) to sensitivity with Auto Sensitivity turned on. You will have to turn it off to make significant adjustments.

**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.

If you select too shallow a depth range, the unit will not be able to lock onto the bottom.

**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 5 ft (2m) apart.

*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. This unit supports three conventional sonar frequencies: 50kHz, 83kHz and 200kHz.

200 kHz has the highest sensitivity and best target separation in shallow water. 83 kHz offers a wider cone angle for more water coverage. 50 kHz provides the best depth penetration.

**Ping Speed**

Controls the rate the transducer uses to send sonar waves into the water. Ping speed adjustments can help reduce interference from other transducers. When using fishing modes, ping speed settings are optimized for the selected fishing conditions, so in most cases, adjustments are not necessary.

**Sonar Options**

- **Noise Rejection**
  
  Uses advanced signal processing to monitor the effects of noise (boat pumps, water conditions, engine ignition systems, etc.) on your display, and then filters out undesired signals.
**Surface Clarity**

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

**Amplitude Scope**

Displays the amplitude of the most recent echo.

**Fish ID**

Displays fish echoes as fish symbols instead of fish arches.

Fish ID is not the most accurate method of fish detection since structure and suspended debris may be shown as a fish symbol on the display.

**Split Zoom and Split Flasher**

Switches the sonar display from full screen sonar to a split screen view.

**Color**

Allows you to change the look of the display using palettes with varying degrees of color/brightness.
**DownScan options**

You can make adjustments to DownScan overlay settings from the sonar page. DownScan options are covered in more detail in the “DownScan Operation” section.

**Stop Sonar**

Pauses the unit’s sonar, allowing you to get a closer look at suspended targets. Stop Sonar also can be used to prevent/stop interference between two sonar units running on the boat at the same time.

**NOTE:** Sonar history will not be recorded when sonar is stopped.

**Overlay Data**

Allows you to select data to be displayed on top of the Sonar page. Overlay data setup is covered in the “Pages” section.

**NOTE:** The DownScan options menu will only be available when DownScan overlay is enabled.
Sonar Settings

Conventional settings/DownScan Settings

You can adjust settings for both Conventional sonar and DownScan sonar modes from the Sonar Settings menu.

Only adjustments made to conventional sonar settings will be visible on the sonar page.

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.

![Manual mode](image)

**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.

**Fishing Mode**

Enhances the performance of your unit by providing preset packages of sonar settings geared to specific fishing conditions. For more information about fishing modes, refer to the “Basic Operation” section.

**Reset Fishing Mode**

Resets selected fishing mode to default settings. That is useful when you want to clear settings adjustments made while using a fishing mode.

**Installation**

**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.

![Installation menu](image)
**Water speed calibration**
Calibrates a paddlewheel speed sensor with speed data from a GPS source.

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

**Reset water distance**
Resets the Water Distance value to zero.

**Transducer Type**
Selects the transducer model attached to your unit. You must select the correct transducer type to get the best sonar performance from your unit.
Settings menu

Accesses installation and configuration settings for your unit.

System

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

System menu

Enables advanced features and settings

Displays software information

Restores settings and options to factory default settings
**Set Language**
Selects the language used on menus and text boxes.

**Audio**
Adjusts volume and turns on/off unit audio, like key beeps, alarm sounds, etc.

**Advanced Mode**
Enables features and settings only available with unit in Advanced Mode.

**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.

**Alarms**
Enables alarms and selects alarm thresholds.

Sounds alarm when Fish ID symbol appears on display
### Alarms

<table>
<thead>
<tr>
<th>Alarms</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shallow</td>
<td>sounds alarm when vessel enters water shallower than the selected shallow threshold</td>
</tr>
<tr>
<td>Fish</td>
<td>sounds alarm when a fish symbol (Fish ID) appears on the sonar screen</td>
</tr>
</tbody>
</table>

### Simulator

Simulates sonar activity. Simulations can be customized on the Simulator options menu.

### Units

Allows you to select the unit of measure used by the unit. Unit options vary depending on whether the unit is in basic or advanced mode.

![Units Options](image)

**Basic Mode**

**Advanced Mode**
<table>
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<tr>
<th><strong>Elite-4x HDI</strong></th>
<th><strong>Sonar</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Case Size</strong></td>
<td>300ft (91 m) 455/800Khz</td>
</tr>
<tr>
<td></td>
<td>750ft (229 m) 83/200kHz</td>
</tr>
<tr>
<td></td>
<td>2000ft (610 m) 50/200kHz</td>
</tr>
<tr>
<td><strong>Display</strong></td>
<td>455/800kHz and 83/200kHz or 50/200kHz</td>
</tr>
<tr>
<td><strong>Waterproof standard</strong></td>
<td>Max speed</td>
</tr>
<tr>
<td><strong>Backlight</strong></td>
<td>70mph</td>
</tr>
<tr>
<td><strong>Power</strong></td>
<td>Transducer</td>
</tr>
<tr>
<td><strong>Transmit Power</strong></td>
<td>HDI 50/200kHz</td>
</tr>
<tr>
<td><strong>Power Requirement</strong></td>
<td>HDI 83/200kHz</td>
</tr>
<tr>
<td><strong>Voltage Input</strong></td>
<td>83/200kHz</td>
</tr>
<tr>
<td><strong>Current drain</strong></td>
<td>Transducer cable</td>
</tr>
<tr>
<td><strong>Fuse type</strong></td>
<td>20ft (6m)</td>
</tr>
</tbody>
</table>

**Case Size**: 6.6” H (168 mm) x 3.6” W (96 mm); 7.5” H (189 mm) with bracket

**Display**: (4.3” diagonal) 16-bit color TFT LCD

**Waterproof standard**: IPX7

**Backlight**: LED (11 levels)

**Power**

**Transmit Power**: 250W RMS; 30,000 PTP

**Voltage Input**: 10 to 17V

**Current drain**: Typical: .75A

**Fuse type**: 3-amp Automotive

**Transducer**: Frequency

**Max speed**: 70mph

**Transducer cable**: 20ft (6m)
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(8 a.m. to 5 p.m. Eastern Standard Time, M-F)

Ordering Accessories

http://store.navico.com/

Visit our website

www.lowrance.com