

LOWRANCE®



Elite 5m & Elite 4m

Operation manual

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Introduction

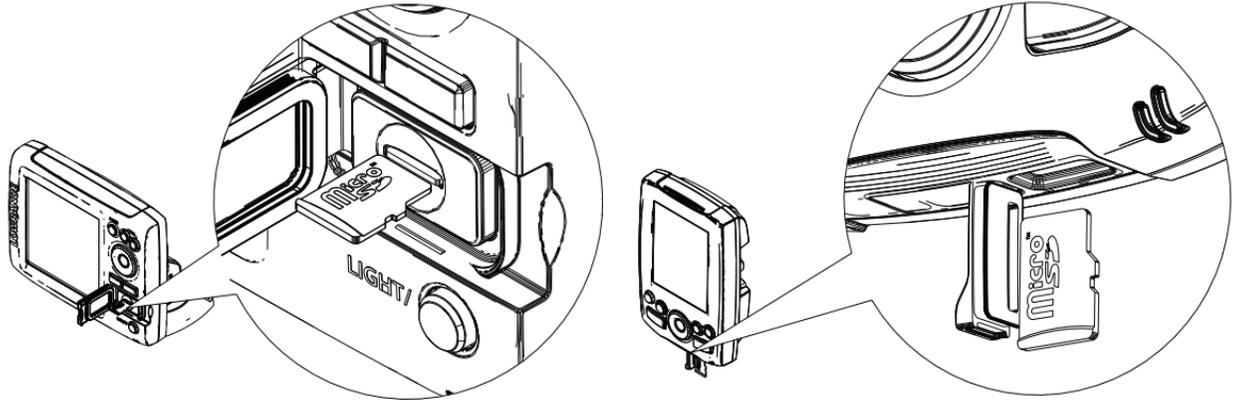
Unit Controls	
	LIGHT/POWER: controls backlight level and turns unit on/off
	KEYPAD: controls cursor & selects items on menus
	PAGES: allows you to select a page to view
	MENU: opens settings, context and page menus
	ENTER: finalizes menu selections; save waypoint at cursor position
	MOB: press and hold both Zoom keys to create a Man Overboard waypoint
	ZOOM Keys: used to zoom in/zoom out
microSD slot: insert a blank microSD card to save screen captures; or insert a microSD mapping card to use mapping data (See illustration on page 2)	

Getting Started	
Turn unit on/off	To turn on/off the unit, press and hold the LIGHT/POWER key for three seconds.
Man Overboard waypoint	Press the ZOOM IN and ZOOM OUT keys at the same time to set a Man Overboard waypoint. Your system will automatically create an active route back to the MOB waypoint. You must cancel navigation to terminate the function.
Adjusting the backlight	This unit has 10 backlight levels. Press the LIGHT/POWER key to switch backlight levels.
Muting Audio	Select Mute Audio from the System menu and press ENTER .
Selecting a GPS Source	Select GPS Source from the System menu and press ENTER . Select internal or external and press ENTER . (Elite-5m only)

Inserting microSD cards

Carefully slide the microSD card into the slot until it clicks into place.

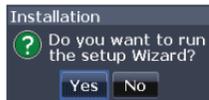
To remove, carefully push in the card until it clicks out of place.



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.



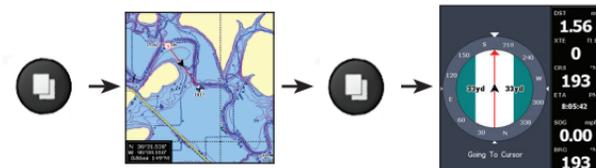
To restart the Setup wizard, restore defaults.

NOTICE

This manual covers several units. Some screenshots may differ from what you see on your screen. Your unit, however, will function in a similar manner.

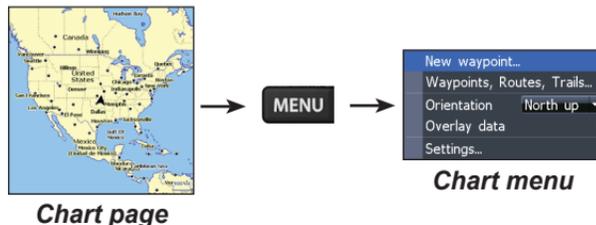
Pages

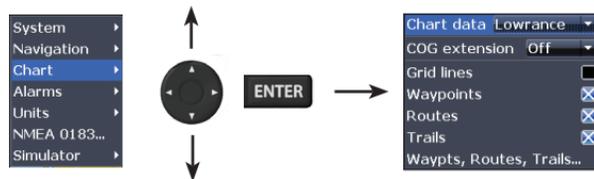
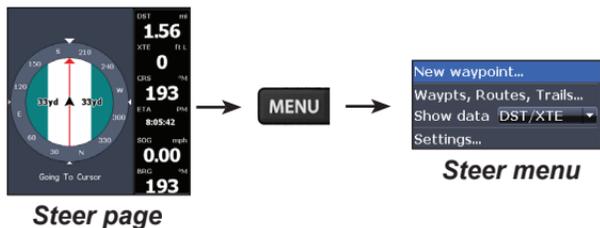
This unit has two pages: Chart and Steer.



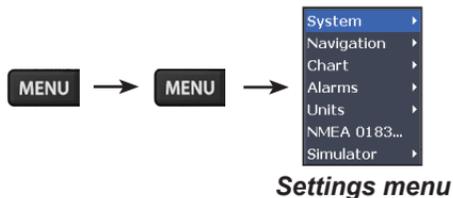
Page menus

The Steer and Chart pages have menus that can only be accessed when those pages are displayed.





Accessing the Settings menu



Accessing menu items

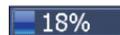
The keypad and **ENTER** key are used to select menu items and open submenus. Use the keypad to highlight the desired item and press **ENTER**.

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.



Basic Operation

Dropdown menus

After accessing the drop-down 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

Some functions, like naming a waypoint, route or trail, will require you to input 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 keypad moves the cursor around the display, allowing you to scroll the map and select map items. Press **MENU** and select *Return to vessel* to clear the cursor.

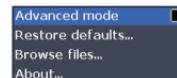
Goto cursor

Allows you to navigate to the cursor.

1. Move the cursor to a desired location and press **MENU**.
2. Select *Goto cursor* and press **ENTER**.

Advanced Mode

Enables advanced features and settings.



The following features are enabled when Advanced mode is turned on:

- Navigation menu
- Alarms (Enables arrival, off course and anchor alarm options)
- NMEA 0183 Output
- Units (Enables distance, speed, depth, temperature, and bearings options)

Standby mode

Lowers power consumption by turning off the display.



Basic Operation

Press the **PWR/LIGHT** key to access the Backlight dialog. Select *Standby* and press **ENTER**.

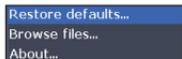
Press any key to resume normal operation.

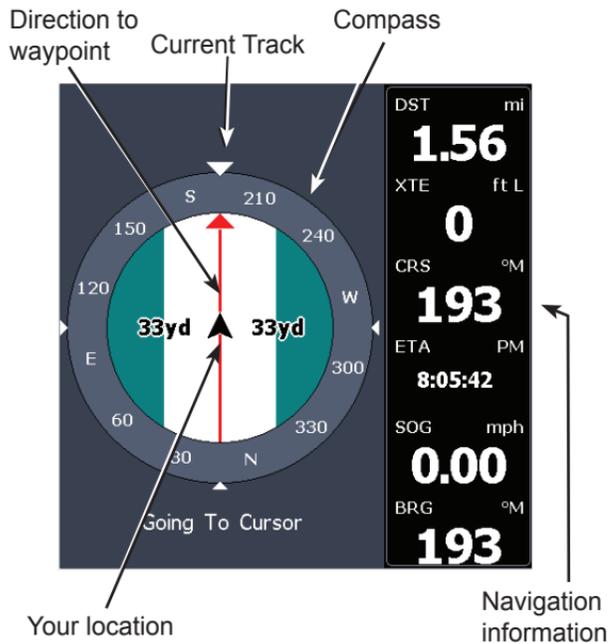


NOTE: *Leaving your unit in Standby mode when your boat is not in use will run down your battery.*

Restore defaults

Resets unit options and settings to defaults.





Steer Page

The Steer page has a compass that shows your current track, the direction to your destination, and a digital data navigation panel.

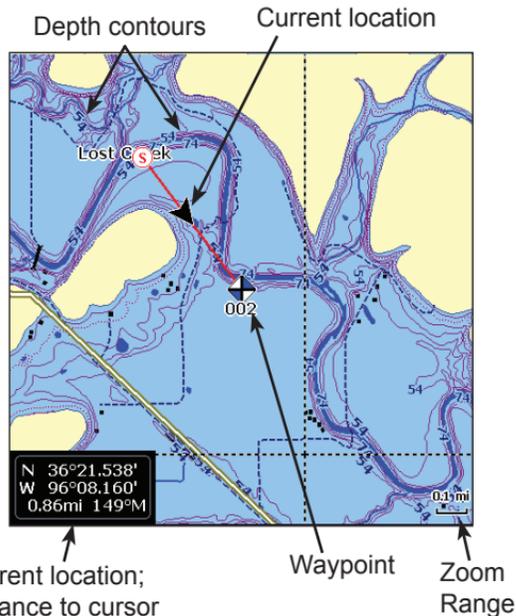
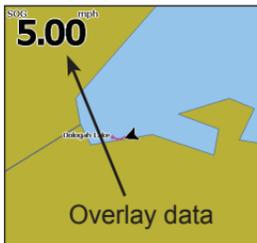


Chart Page

Consists of map that moves in real-time as you move. By default, the map is shown from a birds-eye view with North at the top of the screen.

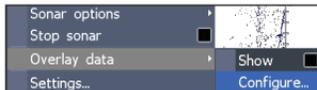
Overlay Data

Displays selected overlay data on the sonar page.



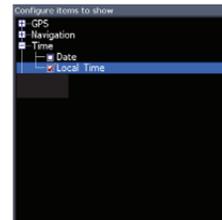
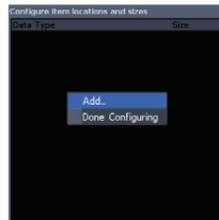
Show

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 overlay data to be displayed on the screen.



To select overlay data:

1. From the chart 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 category from the Configure Items to show screen. Press **ENTER**.
6. Press **MENU** and select *Return to overlay*.
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.

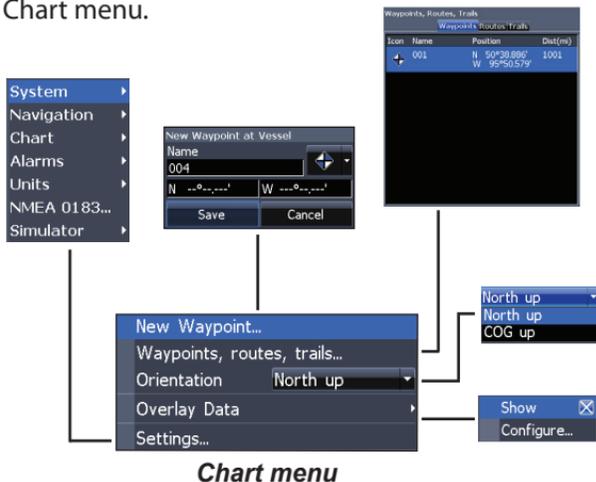
Using your Chart

This section covers chart operation, which includes saving, loading and navigating, waypoints, routes and trails and using chart menus, context menus and submenus.



Chart Menu

Press Menu from any Chart pages to open the Chart menu.



New Waypoint

Creates a waypoint at your current location or at the cursor position.

When the cursor is on the screen, waypoints will be saved at the cursor position; conversely, if the

cursor is not displayed onscreen, waypoints will be saved at your current position.

Waypoints, Routes, Trails

Used to create, edit, navigate and delete waypoints, routes and trails.

Press the keypad left/right to toggle between waypoint, routes and trails tabs.

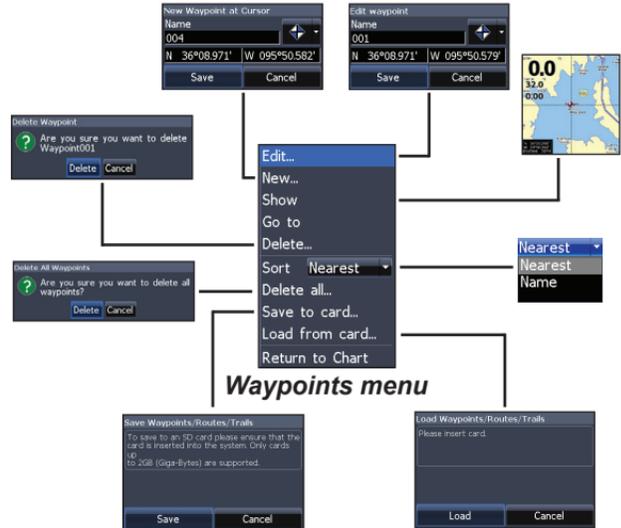
Waypoints, Routes, Trails			
Waypoints Routes Trails			
Icon	Name	Position	Dist(m)
+	001	N 50°38.886' W 96°50.579'	1001

Waypoints Screen



- Edit...
- New...
- Show
- Go to
- Delete...
- Sort Nearest
- Delete all...
- Save to card...
- Load from card...
- Return to Chart

Waypoints menu



Edit

Allows you to edit the name, icon and latitude/longitude of a selected waypoint.

Edit waypoint	
Name	001
N 36°08.971'	W 095°50.579'
Save	Cancel

Chart

New

Creates a new waypoint at the cursor or vessel position. You can also select waypoint name, icon and latitude/longitude from the new waypoint menu.



Show

Displays the selected waypoint on the map.

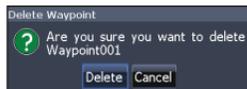


Goto

Allows you to navigate to a waypoint.

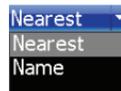
Delete and Delete All

Delete is used to delete a selected waypoint. Delete All deletes all waypoints.



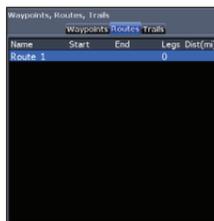
Sort

Controls how the waypoints list will be sorted — by name or by nearest.



Routes Screen

Used to create, edit, navigate and delete routes. Use the keypad to highlight the Routes tab to access the Routes screen.



Routes screen



Routes menu

Creating a route

Routes can be created by inserting waypoints from the waypoints list or by using the cursor to position new points on the chart. You also can add waypoints to a route by selecting them from the chart screen.

Shows selected route
waypoint on the chart



Inserts waypoint between
existing route waypoints

Waypoint from list...
Point using chart

Insert
View point
Add to end
Remove...
Go to
View

**Route waypoint
menu**

Waypoint from list...
Point using chart

Adds waypoint to
end of the route

Warning
Are you sure you want to remove
waypoint 001 from the route?
Yes No

Remove waypoint

Latitude/Longitude
Total distance/bearing
Leg distance/bearing
Latitude/Longitude

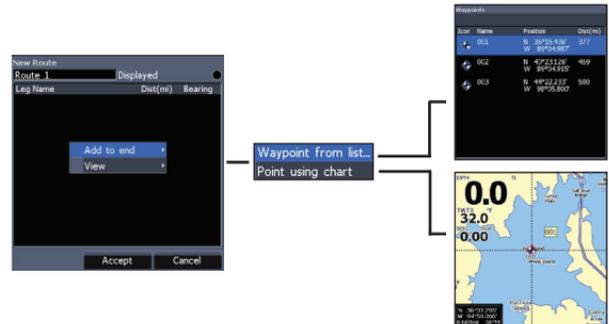
Controls how waypoints
are listed

Starts navigation
to the selected
route waypoint

To create a route from waypoint list:

1. Press **MENU** from the Routes screen.
2. Select *New...* and press **ENTER**.
3. Press the keypad down to select the Leg name field and press **ENTER**.

4. Press *Menu*, select *Add to End* and press **ENTER**.
5. Highlight *Waypoint* from list and press **ENTER**.
6. Select the desired waypoint and press **ENTER**.
7. Press *Menu* and select *Add to end* to add another waypoint to the route.
8. When the route is complete, press **MENU**, select *Stop Editing* and press **ENTER**.
9. Select *Save* and press **ENTER**.



Add waypoints from list or Points from chart.

Chart

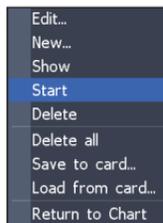
Creating a route using points from chart:

1. Repeat Steps 1-4 from the instructions for Creating a route from waypoint list.
2. Select *Points from chart* and press **ENTER**. The chart screen will appear.
3. Move the cursor to the desired location. Press **ENTER** to set a waypoint.
4. Repeat Step 3 to add more route waypoints.
5. Press **MENU** and select *Stop adding*. Press **ENTER**.
6. Highlight the *Save* button and press **ENTER**.

Navigating a route

Routes can be navigated in forward or reverse.

1. Select the desired route on the Route screen and press **MENU**.



2. Select *Start* and press **ENTER**.
3. Select *Forward* or *Reverse* and press **ENTER**.
4. Press **MENU** and select *Return to Chart*. Press **ENTER**.

To cancel navigation:

1. Press *Menu* from the chart screen.
2. Select *Navigation* and press **ENTER**.
3. Highlight *Cancel* and press **ENTER**.
4. Select *Yes* and press **ENTER**.

Edit and New Route menus

Used to edit/create routes, route names and to turn on/off the route display. That allows you to display only desired routes on the map.



To access the Edit or New Route menu, select *Edit* or *New* on the Routes menu and press **ENTER**.

To finalize changes on the Edit or New Route menus, highlight the *Accept* button and press **ENTER**.

Displayed

Used to show/hide a route on the display, which prevents the screen from being cluttered by too many routes

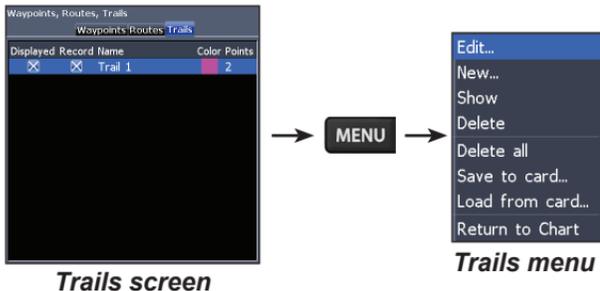
Delete and Delete All

Delete is used to delete individual routes. Delete All, removes all routes.



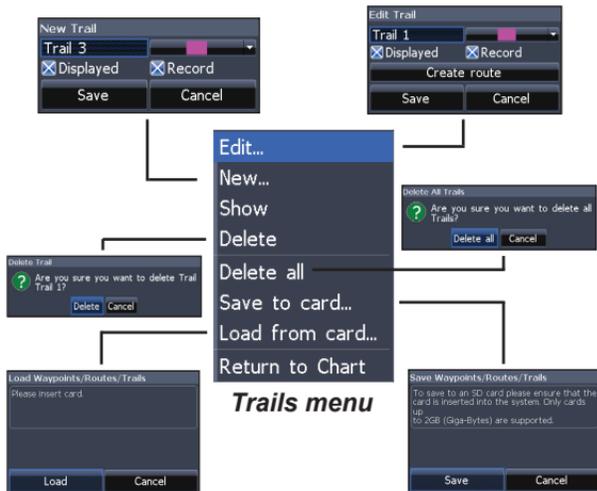
Trails Screen

Used to create, edit, navigate and delete trails. Use the keypad to highlight the Trails tab to access the Trails screen.



Creating trails

When creating a trail you can customize the trail name and color from the New Trail.

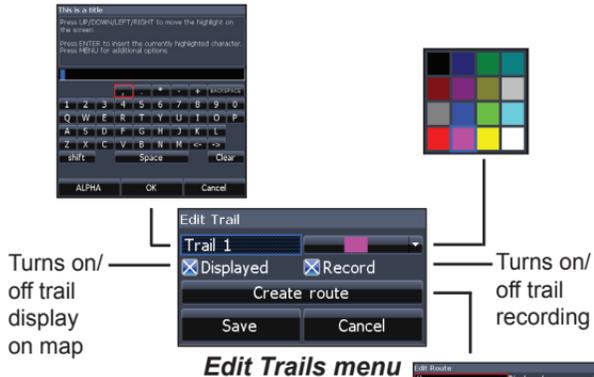


To create a trail:

1. Select *New* and press **ENTER**. The New Trail will appear.
2. Use the keypad to highlight *Record* and press **ENTER** to make the trail active/inactive.
3. Select *Save* and press **ENTER**.

Edit and New Trail menus

Allows you to edit/create trails, select trails names, trail color, trail display and the trail being recorded. You can also convert a trail into a route from the Edit Trail menu.



Edit Trails menu

Navigating a trail

A trail must be saved as a route before it can be navigated.

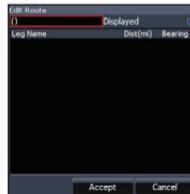
To save a trail as a route:

1. Highlight the desired trail on the Trails screen and press **ENTER**. The Edit Trail menu will appear.
2. Highlight *Create Route* and press **ENTER**. The Edit Route menu will appear.
3. Highlight *Done* and press **ENTER**.
4. For navigation instructions refer to the Navigating a route segment.

Displayed and Record

Displayed allows you to show/hide trails on the map display, preventing the screen from being cluttered with trails.

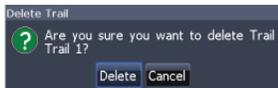
The Record command allows you to record or resume recording a desired trail.



Chart

Delete and Delete All

Delete is used to remove individual trails. Delete All removes all trails.



Orientation

Allows you to select North Up or Course Over Ground (COG) as the map orientation.



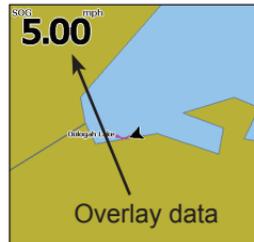
North Up



COG

Overlay Data

Allows you to select data (course over ground, etc) to be displayed on top of the Chart screen.



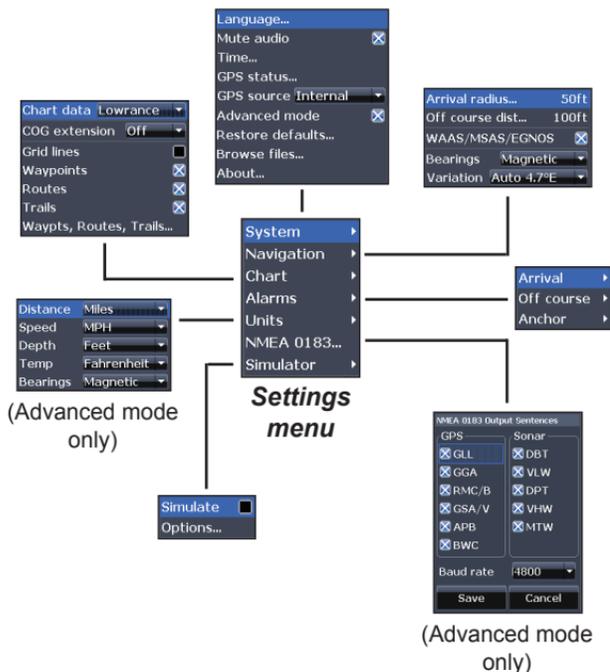
Overlay data setup is covered in the Pages section.

Settings

Accesses the Chart settings menu.

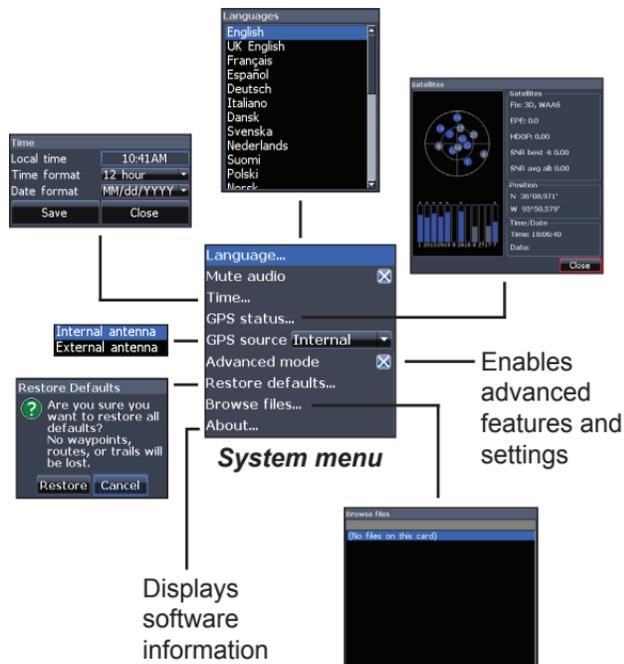
Settings Menu

Accesses to installation and configuration settings for your unit.



System

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



Settings

Set Language

Selects the language used on menus and text boxes.

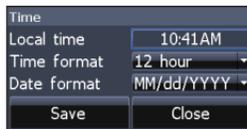


Mute Audio

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

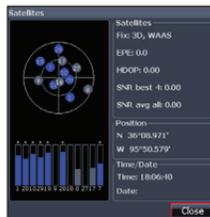
Time

Used to set local time, and time and date formats for your unit.



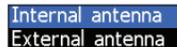
GPS Status

Monitors the location of satellites in view and the quality of the unit's satellite lock-on.



GPS Source (Elite-5m only)

Selects the antenna your unit will use for GPS. You will use the built-in GPS antenna unless you have a LGC-16W external antenna (p/n: 000-00146-001).



Advanced Mode

Enables features and settings only available with unit in Advanced Mode. Advanced Mode is covered in the Basic Operation section.

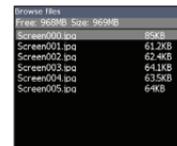
Restore Defaults

Switches the unit back to default settings.



Browse Files

Allows you to view a list of the files saved to the microSD card.



Saving Screenshots

You can save screenshots to a microSD card by inserting a microSD card into the card slot and pressing Power and then Zoom (+). You must view files on a computer or other microSD compatible device.



NOTE: You cannot save screenshots to a Navionics card.

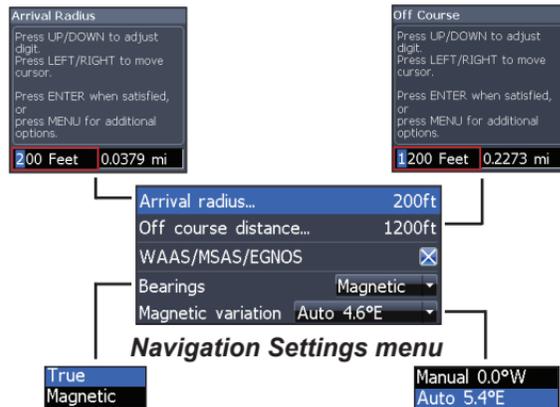
About

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.

Navigation

Controls Arrival Radius and Off Course distance settings and is used to turn on/off WAAS/MSAS/EGNOS.



Settings

Arrival Radius

Sets the arrival radius threshold for the Arrival alarm. The arrival alarm will sound when your vessel comes within a selected distance (arrival radius) of the destination waypoint.

Off Course Distance

Sets Off Course Distance threshold for the Off Course alarm. When the selected off course distance is exceeded, the Off Course alarm will sound when the alarm is enabled.

WAAS/MSAS/EGNOS

Turns on/off the Wide Area Augmentation System (WAAS), Multi-Functional Satellite Augmentation System (MSAS) and European Geostationary Navigation Overlay Service (EGNOS).

All three systems help increase GPS accuracy for different parts of the world.

Bearings

Controls whether bearing will be calculated using True North or Magnetic North. Magnetic North should be used when navigating with a compass course or heading; otherwise use the default setting, True North.

Magnetic Variation

Controls whether magnetic variation will be calculated using Automatic or Manual settings. Magnetic variation is the angle between magnetic north and true north. The automatic setting reconciles the variation for you.



WARNING: *You should only use the Manual magnetic variation setting if you have variation information from a verified source.*

Chart

Controls map data used on the chart screen as well as display settings like grid lines, waypoints, routes and trails.

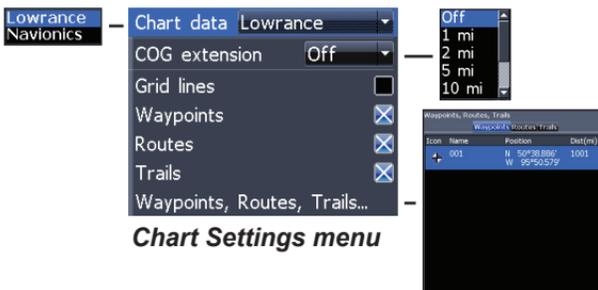
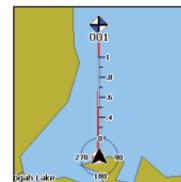


Chart Data

Selects map data that will be used on the Chart display (Lowrance or Navionics regional map). Go to Navionics.com to see a full selection of available charts.

COG Extension

A line extending from the front of the current position icon that is used to estimate distance and time of arrival.



Grid Lines

Displays base values for latitude and longitude, making it easier to get a general idea of your location on the latitude/longitude scale.



Waypoints, Routes and Trail displays

From the Chart Settings menu, you can turn on/off waypoint, route and trail display properties. Turning off display properties allows you to get a better view of the map, if the screen becomes cluttered with waypoints, routes and/or trails.

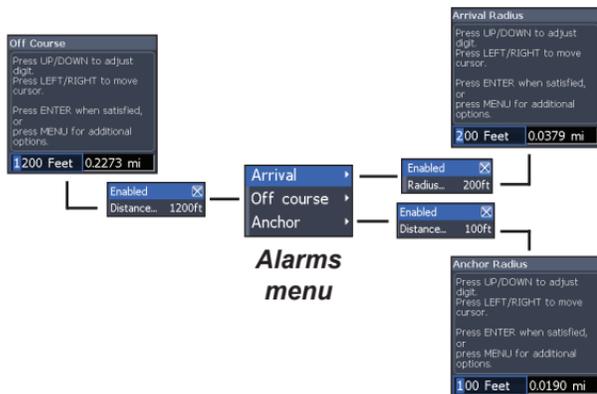
Settings

Waypoints, Routes, Trails

Accesses the Waypoints, Routes & Trails screen.

Alarms

Enables alarms and selects alarm thresholds. Arrival, Off Course and Anchor alarms are only available in Advanced mode.



Alarms	
Arrival	sounds alarm when you are within a selected distance of your destination (Advanced Mode only)
Off Course	sounds alarm when course exceeds a selected off-course threshold (Advanced Mode only)
Anchor	sounds alarm when vessel moves a selected distance (Advanced Mode only)

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.



NMEA 0183 Output

Allows users to select NMEA 0183 sentences the unit will use when connected to a VHF radio or other NMEA 0183 device.

Simulator

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

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Specifications

Elite 5m	
General	
Case Size	5.4" H (134mm) x 6.8" W (174mm); 6" H (152mm) with bracket
Display	(5" diagonal) Enhanced Solar MAX™ 480x480 color TFT LCD
Backlight	Cold cathode fluorescent lamp (10 levels)
Communications	NMEA 0183 Output
Shared devices supported	VHF and Autopilot through NMEA 0183
Power	
Power Requirement	12V
Voltage Input	10 to 17V
Current drain	Typical: .75A
Fuse type	3-amp Automotive (not supplied)

GPS	
Mapping card slot	microSD (microSDHC high capacity cards are not compatible)
GPS Antenna	16 parallel channel (internal); optional external GPS antenna sold separately
Mapping compatibility	Fishing Hot Spots, NauticPath & Navionics (Hotmaps, Premium and Gold)
Waypoints, Routes & Trails	Up to 3000 waypoints, 100 routes and 100 retraceable plot trails

Specifications

Elite 4m	
General	
Case Size	5.6" H (144mm) x 3.7" W (94.3mm); 6.4" H (164mm) with bracket
Display	(3.5" diagonal) 320x240 (256 color) TFT LCD
Backlight	White LED (10 levels)
Communications	NMEA 0183 Output
Shared devices supported	VHF and Autopilot through NMEA 0183
Power	
Power Requirement	12V
Voltage Input	10 to 17V
Current drain	at 13.5V (150mA)
Fuse type	3-amp Automotive (not supplied)

GPS	
Mapping card slot	microSD (microSDHC high capacity cards are not compatible)
GPS Antenna	16 parallel channel (internal); optional external GPS antenna sold separately
Mapping compatibility	Fishing Hot Spots, NauticPath & Navionics (Hotmaps, Premium and Gold)
Waypoints, Routes & Trails	Up to 3000 waypoints, 100 routes and 100 retraceable plot trails

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3) Canadian customers: Lowrance Canada, 919 Matheson Blvd. E. Mississauga, Ontario L4W2R7 or fax 905-629-3118.

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