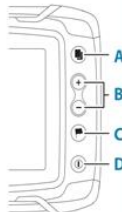Quick Reference Guide (Updated 07/06/2022)

Installation

- We recommend following the Lowrance® HDS and Elite Ti^2/FS unit installation instructions that accompany the unit. Failing to install the transducer correctly may interfere with the sonar signal and prevent the gathering of accurate data.
- Please ensure your unit has the latest firmware – see https://downloads.lowrance.com/
- **Always ensure a clear signal (both Sonar and GPS) prior and during logging.** Periodic disruptions due to various causes are ok; sustained disruptions of signal will result in inaccurate or no data. Always monitor the SONAR page.
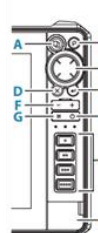
Elite Ti^2/FS Controls
Keys

A	Pages	• Press to activate the home page
B	Zoom in/out	• Press to zoom the image • Simultaneous press both keys to save a Man Overboard (MOB) waypoint at the current vessel position
C	Waypoint	• Press to open the new waypoint dialog • Press twice to save a waypoint • Press and hold to access the find dialog
D	Power	• Press to turn the unit ON • Press and hold to turn the unit OFF • When ON press once to display the system controls dialog - repeat short presses to cycle the backlight brightness

HDS LIVE Controls
Keys

A	Pages	• Press to activate the home page • Repeat short presses to cycle the favorite buttons
B	Waypoint	• Press to open the new waypoint dialog • Press twice to save a waypoint • Press and hold to access the find dialog
C	Arrows	• Press to position the cursor on the image • Press to pan the image in any direction • Press to navigate menus
D	Exit	• Press to clear the cursor or restore the cursor on the chart panel In menus and dialogs: • press to return to previous menu level and to exit a dialog
E	Enter	In menus and dialogs: • press to confirm a selection
F	Zoom in/out	• Press to zoom the image • Simultaneous press both keys to save a Man Overboard (MOB) waypoint at the current vessel position
G	Menu	• Press to display the menu • Press twice to access the settings menu • Press and hold to hide the panel menu
H	Power	• Press to turn the unit ON • Press and hold to turn the unit OFF • When ON press once to display the system controls dialog - Repeat short presses to cycle the backlight brightness
I	Quick access*	• Use the configurable keys option in the system settings dialog to configure the keys
J	Card reader door	

*Not available for 7" and 9" units

Lowrance® HDS and Elite Unit Settings (Recommended)*

- On HDS, Channel 2 is the black 9pin plug and transmits Sonar, Down- and Side-Scan if present. Channel 1 is the blue plug and transmits Sonar only. With only one transducer installed, use the black CH2 port. If you find HDS is not reading the proper Channel source, either reboot or remove invalid sources in the Network - Data Sources area of the device's settings
- _Transducer "Installation"_
  - ○ Press Pages button, select Gear Wheel (Settings), select SONAR; Select INSTALLATION; Select Transducer (check the silver tag on your transducer cable for the model). Depending on your unit, this may automatically be detected.
- _Mode = Shallow Water_ (for vegetation detection or depths < 60ft, if deeper, use Fresh Water setting)
  - ○ Press Pages button, select SONAR
- _Sonar Range = Auto (Default);_ For optimal bottom and vegetation detection in lakes deeper than 15 ft (4.6 m). Fixing the range to twice the max bottom depth might aid bottom tracking in very shallow ponds.
  - ○ Press Pages button, select SONAR
- _Frequency of Broadband Sonar = SONAR Page. Select_ 200KHz

- *WAAS Differential Correction Enabled on GPS*
  - Press the Pages button select Gear Wheel (Settings), select SYSTEM, select SATELLITES, select CONFIGURE, enable WAAS
- *Recommended Speed* = ≤ 5.5 mph. Faster is ok for slowly changing bottom; go slower during rapid depth changes or through vegetation.
- **Monitor your SONAR page; if signal becomes interrupted at faster speeds, slow down. Signal loss at speed is an indication the transducer is not installed correctly.**
- *Maximum Speed* = 20 mph (Bathymetry), 10 mph (Vegetation), 10 mph (Bottom Composition)*.*
- *Bytes per sounding* = Default 3200

Recording Sonar

- We recommend carrying two 8-32 (not ≥64) GB microSD cards. We recommend logging no longer than one hour per file. **Ensure SD card compatibility/function prior to recording sonar by ensuring the card is recognized in the Log Sonar menu dialog**.
- Logging sonar: Quick press the power button, select LOG SONAR.
- File Format = .slg (Sonar only, smallest file, min. needed for EcoSound maps), .sl2 (Sonar + Structure med. sized file - RECOMMENDED), .or .sl3 (Sonar + 3D Structure largest file). Select RECORD.
- Stop recording:
  - Quick press POWER and select STOP LOGGING
  - DO NOT select STOP/START SONAR during recording – this will only stop/start pinging, not recording.
- Do not adjust SONAR file/frequency/logging settings while recording is underway. If adjustments need to be made, stop the file, make the adjustment, and then resume logging a new file. Changing displays and zoom levels is ok.

Transects

- Transects can be any spacing and depends on the user coverage needs. Users can adjust the buffer in BioBase Reprocessing Tools. 40-m spacing is enough for most needs.
- Use a design (perpendicular to shore, parallel, concentric) that results in the most efficient coverage of water and maps features to your acceptable level of detail.
- Monitor your Lowrance Chart and record a trail to monitor coverage. For pre-planning purposes, transects can be created in GIS, saved to a .gpx file, and then imported into your HDS or Elite unit.

Data Upload

- Once recorded, files can be saved to the user's local computer or uploaded directly from the SD card using the BioBase upload client or web upload tool available in a user's dashboard at https://www.BioBaseMaps.com/.
- Time required to upload and process the files will depend on several factors including the size of the file, size of the area surveyed, and internet connection speed. Over weak upload connections (1 Mbps or less), uploading through a web browser may not work. The desktop client tool is more stable over slow internet connections. After successful upload, sonar logs go to a queue for processing. They are not available immediately upon upload
- An e-mail will be sent to you once processing is complete if you have elected to receive processing emails.
- Prior to merging trips, we recommend users review and verify individual trips with the sonar log. Sonar logs are not generated with merged trips.

*Refer to the Lowrance® HDS and Elite manuals or full EcoSound Operator's Guide for additional details. ©Navico Inc.