

The CEE HydroSystems CEE-LINE™ is a modern echo sounder using fast processors and advanced design to offer a superior bathymetry package for small boat hydrographic surveying. The CEE-LINE is ideal for use with GNSS data collectors, tablets, and PCs.



**The Results.** The CEE-LINE's lightning fast processor runs advanced calculations for exceptional bottom tracking at 10Hz, out-performing slow, ageing echo sounder designs.

**Shallow Water Credentials.** It all starts with the transducer, that converts electrical energy into sound. The CEE-LINE uses high-end hydrographic grade transducers for great shallow water performance and rock-solid tracking of the bottom. No recreational-grade options.

**Indestructible.** The unique CEE-LINE design houses the electronics in a polyurethane encased tube. Nothing to break off, become loose, or corrode.

**Simple.** The CEE-LINE uses a USB power and data cable with no finicky Bluetooth connection or device pairing. Just plug in and start work.

**Always Ready.** The CEE-LINE is powered by USB and does not need to be charged; one less thing to worry about. Its tiny power draw does not affect the acquisition device.

**Dual Frequency Capable.** Simply load the 33 kHz activation firmware to convert a 200 kHz CEE-LINE into a 33/200 kHz dual frequency echo sounder.

**Data Collector Compatibility.** Acquire bottom elevation points directly in standard survey software such as Trimble Access, Leica Viva, Carlson SurvCE.

**The Specs.** Full size echo sounder performance in a tiny package:

Parameter	CEE-LINE™
Introduced	2017
Frequencies installed	33 & 200 kHz
Firmware upgrade to dual frequency	Yes
Ping rate	10 Hz
Operational Modes	AUTO, SHALLOW, MANUAL
Max Depth	100m (330ft)
Min Depth	0.3m (0.9ft)
User Parameters These settings may be adjusted if desired using CEE LINE connect software configurator.	Sound velocity Max depth Blanking distance Pulse width & gain Detection threshold Single / dual frequency
Internal data storage	No
Output data formats	NMEA, DESO25, Odom, SonarMite, CEESTAR
Output cable	USB or USB / RS232 split
Transducers	SS510, SS549, M163, M195
Waterproofing	IP67
External power	USB or 9 – 30 VDC



**Mounting Kit.** The CEE-LINE™ kit includes custom-designed brackets and presents a rugged and long-lasting one-box hydrographic pack for small boat surveys.

**No “SMART” Transducers.** Some echo sounders do not perform bottom tracking but instead rely on an OEM transducer to do most of the work. These don’t match up to the CEE-LINE.