

## SINGLE BEAM ECHO SOUNDERS

The CEE range of Single Beam Echo Sounders offer exceptional sonar performance with maximum convenience.

|                   | CEE-LINE™   | CEE ECHO™   | CEESCOPE™  | CEESCOPE LITE™  |
|-------------------|---|---|--|---|
|                   | Hydrographic grade echo sounder for GNSS data collector or PC acquisition.        | State of the art compact, portable echo sounder.                                  | Flexible “All in one” integrated echo sounder with GNSS.   | Unique Telemetry-enabled echo sounder with GNSS for USV applications.               |
|                   |  |  |                       |  |
| Power Consumption | 1.8 W (typical with 2.5 W peaks)  | 6.0 watts (approx. operating time 10 hours)                                       | 7.2 watts (approx. operating time 8 hours)   |   |
| GNSS/GPS Receiver | Use with customer’s own GPS/GNSS receiver   |   | Internal GNSS receiver (Hemisphere, NovAtel RTK and Trimble RTK options) or use with external GPS/GNSS |   |
| Digital Echogram  | No  |   | Yes  |   |
| Ping Rate         | 10Hz  |   | 1 – 20 Hz, depth dependent   |   |
| Data Logging      | Via customer’s data collector, tablet or PC                                       |   | Internal, via USB or connected to a PC   |   |
| Depth Range       | 0.3 – 100 m (0.9 – 328 ft) @ 200 kHz<br>0.5 - 100 m (1.6 - 328 ft) @33 kHz        |   | 0.15 – 200 m (0.6 – 650 ft) @ 200 kHz<br>0.75 - 200 m (2.5 - 650 ft) @ 24/33kHz                        |   |
| Freq. Options     | 200kHz, 200/33kHz   |   | 200kHz, 200/33kHz, 200/24kHz   |   |
| Connectivity      | RS-232 & USB  |   | Bluetooth, RS-232 & Industrial LAN   |   |
| Ext Power Supply  | 4.5 - 24 VDC  |   | Nominal 12.0 VDC @ 2A (9-30 VDC range)   |   |
| Battery           | Externally powered  |   | Internal rechargeable high-capacity NiMH battery 10Ah  |   |
| Echosounder mode  | Auto, Shallow Auto and Manual   |   |  |   |
| Resolution        | 1 cm  |   |  |   |
| Accuracy          | 0.01 m +/- 0.1% of depth @ 200 kHz  |   |  |   |
| Sound Velocity    | 1350 – 1750 m/s (4,429 - 5,741 ft) Resolution 1 m/s                               |   |  |   |
| Draft             | 0 – 10 m (1 cm increments)  |   |  |   |

### Transducer Options

| High Frequency Transducer – General Purpose Hydro Survey                                   | High Frequency Transducer – Engineering Survey   | Dual Frequency Transducer – 200 kHz, 8° & 33kHz, 19°                            | Dual Frequency Transducer – 200 kHz, 8° & 33kHz, 25°                            | Dual Frequency Transducer – 200kHz, 5° & 24kHz, 19°                            | Dual Frequency Transducer – 200kHz, 4° & 24kHz, 24°                             |
|--|--|---|---|--|---|
| SS510 transducer, passive 200 kHz, 9° beamwidth, c/w 9 m cable and LEMO 2K 6 pin connector | SS549 narrow beam transducer, passive 200 kHz, 3° beamwidth, c/w 9 m cable and LEMO 2K 6 pin connector | M163 combined DF transducer, passive, c/w 9 m cable and LEMO 2K 6 pin connector | M195 combined DF transducer, passive, c/w 9 m cable and LEMO 2K 6 pin connector | M42 combined DF transducer, passive, c/w 9 m cable and LEMO 2K 6 pin connector | M563 combined DF transducer, passive, c/w 9 m cable and LEMO 2K 6 pin connector |

## Transducer Mounting Brackets

### 50mm / 2" Tube Series



### 5/8" Survey Pole Series



## Side Scan Sonar Mounting Bracket

### HF StarFish Interface Plate



### DF StarFish Interface Plate

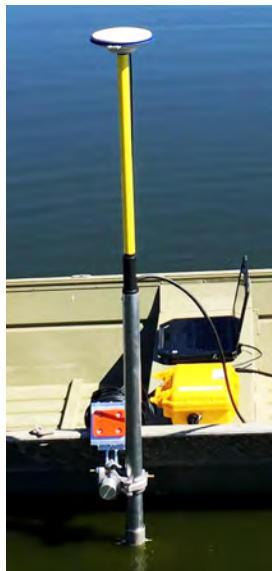


## IMU Mounting Bracket

### Ellipse Transducer Pole Bracket



## Heavy Duty Boat Mounting Kit



Survey Pole Extension (5/8" thread, 61cm length)



Transducer Pole to Antenna Adaptor (50mm/2" Pipe to 5/8" Antenna)



Aluminium Tube – 1m x 50mm (drilled to suit transducer mounting bracket and Transducer Pole to Antenna Adaptor)



Universal Gunwale Bracket



Transducer Pole Mounting Clamp (aluminium, 50mm x 50mm @ 90°)



## CEE-LINE™ Small Boat Mounting Kit



Survey Pole Extension (5/8" thread, 61cm length) x 3



CEE-LINE Figure 8 Pole Bracket



Minn Kota Gunwale Bracket with Custom Inserts



5/8 SS510/549 Transducer Mounting Bracket (acetal)



CEE-LINE Transit Case



## CEETIDE™ Mk IV – Portable Tide Gauge

Simple to install, extremely low maintenance and easy to operate radar tide gauge recorder. All the necessary features to accurately monitor tidal movements in a compact system.



- Touch screen
- Internal NiMH rechargeable battery,
- Internal memory as well as direct parallel logging to USB drive for data backup
- Internal MPPT solar regulator/charger.
- Internal GPS receiver for time sync.

Note: Product colours and designs may differ slightly from the examples shown.



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