

CEE ECHO™ series

Hydrographic Survey Echo Sounder

Compact

This dual frequency echosounder offers integrated data management and internal power at around 3.5 kg (7.7 lbs).

Rugged

Built into a robust Pelican case the CEE ECHO has been engineered for use in vessels big or small. Suitable for temporary use in small open boats or long term installation on a dedicated survey vessel.

CEE ECHO™ Advanced Features

20 Hz Ping Rate

The CEE ECHO echo sounder is an industry leader in shallow water operation (from as little as 0.15m/0.5') to give maximum coverage for inland and coastal survey areas.

High Definition Soundings

Full automatic or manual sounder control allows for reliable performance in most marine environments. The CEE ECHO is capable of recording a high resolution (3200 spp) full water column acoustic envelope for accurate post processing analysis.

Internal Battery

Survey for 8 hours without recharging. Ideal for small boats and watercraft.

On-Board Data Logger

Record the survey on the internal memory or a removable, waterproof USB drive. Output in real time through Ethernet, Bluetooth, Wi-Fi or RS232 cable, easily connecting to your Tablet PC, PDA and Notebook PC.

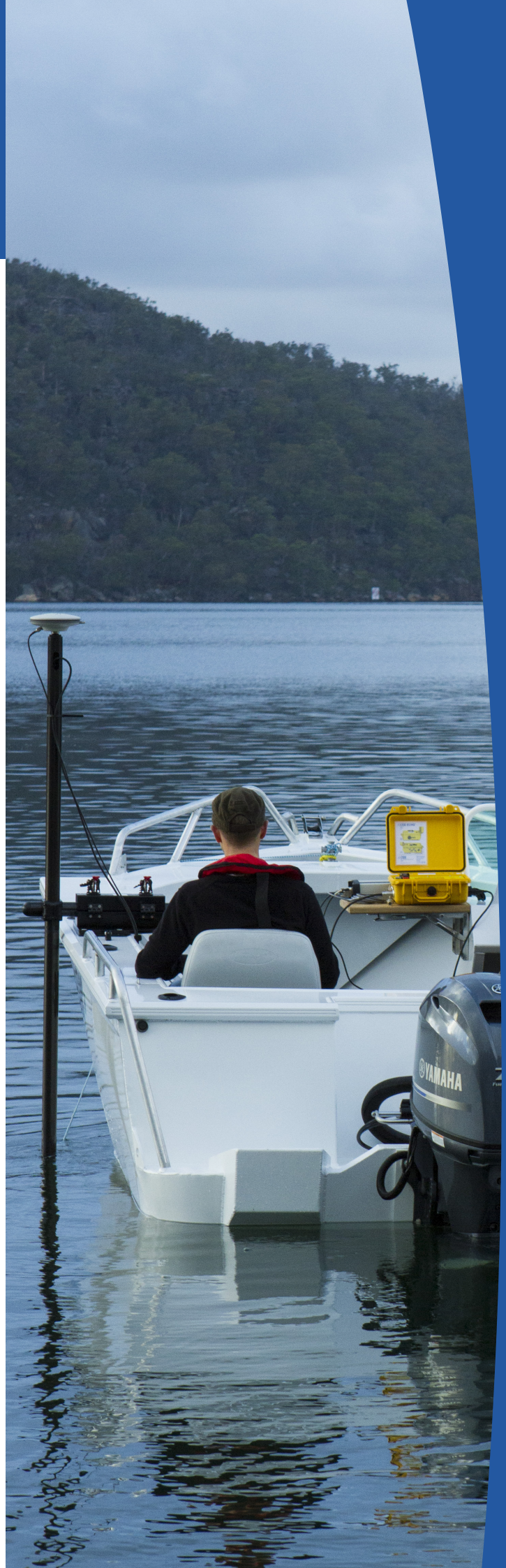
Dual Frequency Capable

Standard, narrow beam and dual frequency transducers.

Use with any GPS Receiver

Pass NMEA0183 GPS into the CEE ECHO to get a complete time-stamped hydrographic data set.

Easily interfaced with GNSS, motion sensor and/or tide gauge for a complete data solution.



CEE ECHO™

General Specifications

Physical

Dimensions	30.0 x 25.0 x 13.8 cm (L x W x D) 11.81" x 9.84" x 5.43"
Display	420 x 272 touch screen colour LCD
Weight	3.5 kg (7.7 lbs)
Connectors	LEMO 1K & 2K series, Industrial RJ45

Environmental

Operating temperature	0°C – 50°C (32°F – 122°F)
Humidity	95% non condensing
Ingress protection rating	IP67

Power

Power consumption	6.0 watts (approx operating time 10 hours)
Internal battery	Rechargeable high capacity NiMH battery 10Ah
Antenna voltage output	5.0 VDC
External power supply	Nominal 12.0 V _{DC} @ 2A (9-30 V _{DC} range)

Wireless Connectivity

Bluetooth Internal antenna	0 – 50 m range*
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Echo Sounder

Mode	Auto shallow, auto or manual
Depth range	0.15 – 200 m (0.5 – 656 ft) @ 200 kHz
(Optional)	0.75 – 200 m (2.5 – 656 ft) @ 33 kHz / 24kHz
Ping rate	1 – 20 Hertz, depth dependent
Pulse length	HF (1 – 35), LF (1 – 30)
TVG	None, LOG 10, LOG 20
Manual gain	30 – 100%
Acoustic Velocity Range	1350 – 1750m (4,429 – 5,741 ft)
Draft	0 – 10 m (1 cm increments)
Accuracy	1 cm ± 0.1% of depth
Resolution	1 cm

Transducer Options

Standard 200 kHz	9° beam width @ -3dB
Narrow Beam 200 kHz	3° beam width @ -3dB
Dual 200/33 kHz	8°/19° beam width @ -3dB
Dual 200/24kHz	4°/24° beam width @ -3dB

External Data Interfaces

GNSS input	NMEA 0183
Heave input	TSS 1 (Heave Aiding)
Tide input	CEETIDE
Compass input	NMEA 0183 HDT OR HDG

* line of sight

- specifications are subject to change

- visit www.ceehydrosystems.com for the complete list of specifications

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