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

The CEE ECHO dual frequency 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.

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.

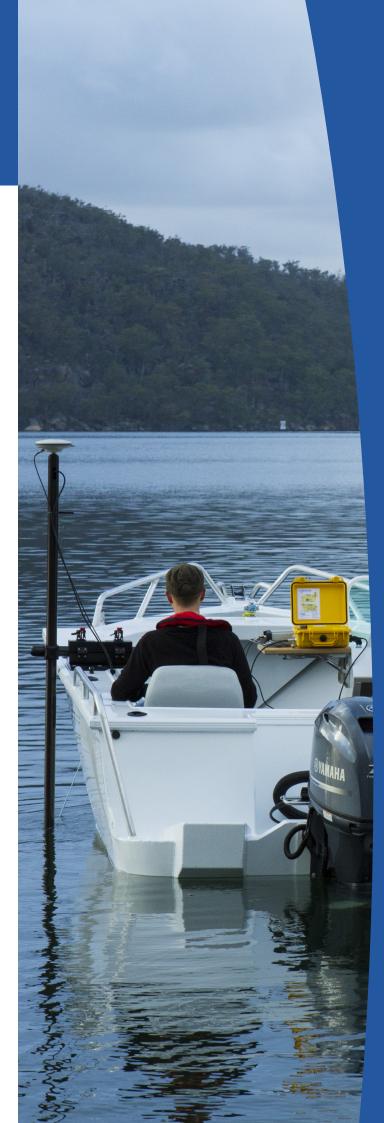
Optional wireless connectivity makes it easy to link with external hardware, including: Tablet PC, PDA and Notebook PC.

A removable waterproof USB memory stick connects to the unit making it simple to log real time data and then transfer logged survey data to a PC. All data is internally PPS time stamped when pulse is supplied.

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



www.ceehydrosystems.com



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 Vpc @ 2A (9-30 Vpc range)

Wireless Connectivity

Bluetooth Internal antenna 0 – 50 m range*

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 / 24 kHz

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 - 1750 m (4,429 - 5,741 ft)Draft 0 - 10 m (1 cm increments)Accuracy $1 \text{ cm} \pm 0.1\% \text{ of depth}$

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

- v19070









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