

# **CEESTAR™** Dual Frequency Survey Echosounder



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## COMPACT

## RUGGED

## DEPENDABLE

## EXPANDABLE

### COMPACT

The CEESTAR is a compact fully functional dual frequency hydrographic echosounder, that enables the user to achieve fast acquisition of bathymetric survey data with the minimum of fuss.

### RUGGED

Housed in a rugged Pelican case the CEESTAR has been built to withstand the harsh marine environment, with high quality components utilised to ensure a long service life. The CEESTAR is capable of fast deployments in vessels of opportunity and has been designed to be simple to use in the field without compromising the quality of the data collection.

### DEPENDABLE

The CEESTAR is currently in use world wide by defence departments, ports & harbours authorities, educational institutes & environmental agencies. It is used in applications ranging from dredging and engineering surveys to beach profiling for environmental studies.

### EXPANDABLE

The CEESTAR has the ability to accept various external inputs, such as the user's own GPS, Tide & Heave inputs . Intergrated with HYPACK survey software and a GPS the CEESTAR is a complete hydrographic survey system, allowing complete control of the data collection and data editing.

## GENERAL SPECIFICATIONS

#### Physical

Dimensions	- 24cm x 20cm x 12cm
Display	- 2 x 20 Backlit LCD with Contrast
Weight	- 2.75 Kg
Colour	- Pelican Yellow,
Connectors	- LEMO 0B,1B & 2B series,

#### Environmental

Temperature	- 0°C to 50°C
Humidity	- 95 % non condensing
Ingress Protection Rating	- IP67

#### Echo sounder

Depth Range	- 200 kHz 0.3 to 99.9 m - 30 kHz 0.75 to 99.9 m
Maximum ping rate	- 6 Hertz
Accuracy	- 0.02% of depth or 1cm whichever is greater
Resolution	- 1 cm

#### Transducer Options

Standard 200kHz (Std)	- 200 kHz, 8 degree beam width @-3dB
Narrow Beam 200kHz	- 200 kHz, 2.7 degree beam width @-3dB
Dual 200/30kHz	- 200/30 kHz , 8/19 degree beam width @-3dB

#### User Controls

Date/Time	- Set Date & Time
Output Formats	- Ceestar basic, Odom dual, Deso, GPS + Depth
Sound Velocity	- Auto (Salt/Brackish/ Fresh) or Manual User input
Echo sounder Draft	- Independent draft settings per frequency
Echo sounder Gate	- Set Min & Max depth for bar check
Ext Heave Input	- Select or disable, Baud rate,
Ext GPS / Tide input	- Select or disable, Baud rate

#### External Data Interfaces

GPS Input	- NMEA 0183
Baud rate	- 4800 - 115200
Data bits/parity/stop bits	- 8/N/1
GPS message	- GGA + VTG

Heave Input	- TSS
Baud rate	- 4800 - 115200
Data bits/parity/stop bits	- 8/N/1
Heave message	- TSS 1

#### Power

Power Consumption	- 6 watts
Internal Battery	- Rechargeable SLA battery 2.3 amps
External Power Supply Voltage	- nominal 12VDC



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