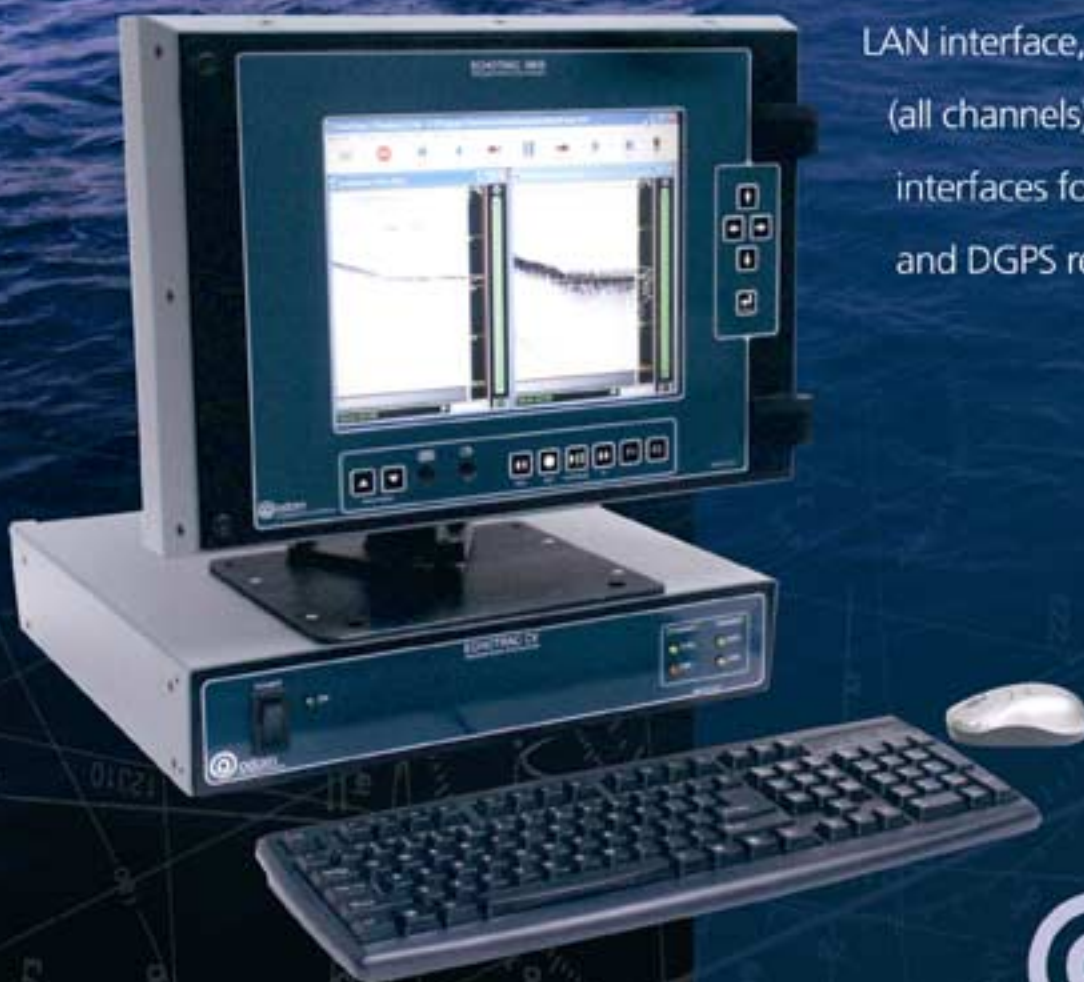


**odom**  
**Echotrac CV**

## Hydrographic Echo Sounder with Optional Third Channel

Modular full size color LCD chart with  
internal data storage or high-  
resolution thermal paper recorder,  
Rack mount package, Ethernet  
LAN interface, Frequency agile  
(all channels), Standard serial  
interfaces for motion sensors  
and DGPS receivers



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HYDROGRAPHIC SYSTEMS, INC.

# odom **Echotrac CV**

THE ECHOTRAC CV IS A NEW HYDROGRAPHIC ECHO SOUNDER DESIGN INCORPORATING THE CUTTING-EDGE TECHNOLOGY, FEATURES AND RELIABILITY OF THE ECHOTRAC MKIII, PLUS THE EASE AND FLEXIBILITY OF OPERATION OF A NETWORKED WINDOWS® INTERFACE. THE TRANSDUCER UNIT IS SUPPLIED IN A COMPACT RACK MOUNT PACKAGE THAT IS IDEALLY SUITED TO MANY SHIPBOARD INSTALLATIONS. THE ECHOTRAC CV OFFERS "CHARTS" IN TWO FORMATS, A FULL SIZE COLOR LCD "ELECTRONIC CHART" OR A HIGH-RESOLUTION THERMAL PAPER RECORDER. BOTH ARE SUPPLIED IN FLEXIBLE MODULAR ENCLOSURES COMPLETE WITH SWIVEL MOUNTING HARDWARE. THE THIRD OPTION, THAT OF OPERATING THE UNIT AND COLLECTING DATA ON A NETWORKED PC, IS ALSO POSSIBLE. THE COLOR LCD MODULE OFFERS INTERNAL DATA STORAGE (IN .XTF FORMAT) AND PLAYBACK OF THE ANALOG RETURN SIGNAL DIGITIZED TO FULL 16-BIT RESOLUTION. IN ADDITION, THE CV OFFERS THE POSSIBILITY OF ADDING A THIRD ACOUSTIC CHANNEL (X3) TO THE STANDARD DUAL FREQUENCY (X2) CONFIGURATION. ALL CHANNELS FEATURE A ROBUST DESIGN AND FREQUENCY AGILITY ENABLING THE OPERATOR TO PRECISELY MATCH THE TRANSDUCER TO ALMOST ANY EXISTING TRANSDUCER. OPERATOR SELECTABLE TVG CURVES (10 LOG, 20LOG, 30 LOG, 40 LOG, AND OFF) SERVE TO OPTIMIZE THE CV FOR BOTH SHALLOW AND DEEPWATER BOTTOM DETECTION TASKS AND FOR SONAR IMAGING. THE ECHOTRAC CV FEATURES UNSURPASSED INTERFACING FLEXIBILITY, OFFERING 4 SERIAL PORTS PLUS A HIGH SPEED ETHERNET LAN FOR MAXIMUM DATA COLLECTION EFFICIENCY. SERIAL INTERFACES FOR MOTION COMPENSATORS AND DGPS RECEIVERS ARE STANDARD IN THE CV AS ARE A NUMBER OF OUTPUT FORMATS COMPATIBLE WITH MOST COMMON ECHO SOUNDER STRINGS.

## CV SPECIFICATIONS:

### Frequency

- High Band: 100 kHz-1 MHz
- Low Band: 10 kHz-50 kHz
- Optional Very Low Band 3 kHz to 33 kHz

### Output Power

- High: 100 kHz - 1 kW RMS max 200 kHz - 900 W RMS max, 750 kHz - 300 W RMS max
- Low: 12 kHz - 2kW RMS max, 50 kHz - 1.5kW RMS max
- Very Low: 3kHz - 3kW max 33 kHz - 2.5kW

### Input Power

- 110 or 220 V AC or 24 VDC 50 watts

### Resolution

- 0.03m / 0.1 ft.

### Accuracy

- 0.03m / 0.10 ft. ± 0.1% of depth @ 200 kHz
- 0.30m / 0.30 ft. ± 0.1% of depth @ 33 kHz
- 0.18m / 0.60 ft. ± 0.1% of depth @ 12 kHz

### Depth Range

- 0.2 - 200m / 0.5 - 600 ft. @ 200 kHz
- 0.5 - 1500m / 1.5 - 4500 ft. @ 33 kHz
- 1.0 - 6000m / 3.0 - 20,000 ft. @ 12 kHz

### Depth Scales

- 5,10,20,40,80,100,200,400,800,1600 m
- 15,30,60,120,240,300,600,1200,2400,4800 ft.

### Phasing

- Automatic scale change, 10%, 20%, 30% overlap or Manual

### Printer

- High resolution 8 dots/mm (203 dpi), 16 gray shades
- 216mm (8.5") wide thermal paper or film

- External ON/OFF switch
- Paper advance control

### Paper Speed

- 1cm/min. (0.5"/min.) to 22 cm/min (8.5"/min.)

### LCD Display

- 15 inch TFT Screen
- Sunlight Readable (1700 NITS)
- Internal Data Storage in XTF format on 40GB Hard Disk
- Data Transfer via Ethernet interface or USB Flash Drive

### Sound Velocity

- 1370 - 1700 m/s
- Resolution 1 m/s

### Transducer Draft Setting

- 0 - 15m (0 - 50 ft.)

### Depth Display

- On control PC and LCD display

### Clock

- Internal battery backed time, elapsed time, and date clock

### Annotation

- Internal - date, time, GPS position
- External - from RS232 port

### Interfaces

- 4 x RS232 and 1 RS422 serial ports, baud rate selectable 4800-19,200.
- Inputs from external computer, motion sensor, sound velocity.
- Outputs to external computer, remote display
- Outputs with LCD chart - VGA video out
- Ethernet interface
- Heave - TSS1 format

### Blanking

- 0 - to full scale

### Installation

- Rack mount, or desk top (Paper and LCD may be mounted remotely)

### Software

- Echotrac Control supplied
- ChartView supplied with LCD configuration

### Help

- The function of each parameter and it's minimum and maximum values can be printed on the paper chart. Also, a record of all parameter settings can be printed on the chart.

### Environmental Operating Conditions

- 0° - 50° C, 5 - 90% relative humidity, Non-condensing

### Dimensions

- 9mm (3.5") H x 450mm (17.7") W x 300mm (12.8") D

### Weight

- 15.9 kg (35 lbs.)

### Options

- Third Acoustic Channel (multiple configurations)
- Remote Display
- Side Scan Transducer - single or dual channel side looking 200 kHz or 340kHz for search and reconnaissance
- Built-in DGPS



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