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Odom Echotrac 3200 MkII

The Echotrac dual frequency survey echosounder gives high resolution thermal printing, microprocessor and DSP techniques and flat screen graphic displays. Three 16-bit processors share the real time computing tasks of the echo sounder and make it an extremely capable and easily interfaced instrument. The sonar transceiver, echo processor, graphical operator interface and hard copy recorder are all housed in one portable, splash-proof case. The unit, which is suited to table top, bulkhead or rack mounting is equally at home on either small survey launches or large ships.

Applications

Suitable for use in the shallow of rivers and harbors, the mission variable unit is also capable of working to depths of over 2,000 meters.

Technical Specifications

Title	Value	Comment
Frequencies	Either single or dual frequency units are available: Standard frequencies 24kHz and 200kHz. Optional Frequencies: Low (12kHz to 50kHz) High (100kHz to 1MHz)	
Printer	Thinfilm thermal print head, 216mm (8.5") wide, 8 dots per mm (203/in), capable of printing up to 16 grey shades.	The fixed-head thermal printer mechanism is virtually silent and generates no dust or noxious odours.
Display and Keypad	Film Super Twist Nematic (FSTN) Dot Matrix LCD Module (320 x 200 pixels, 0.38mm x 0.52mm dot pitch), Six inch (156.4mm) diagonal measure, on board controller and Fluorescent Back Lighting (CFL). In dual frequency operation, both high and low frequency depth values are displayed continuously. The 16 key Nema 12 sealed unit keypad is used by the operator for direct parameter entry and functional control from the front panel.	The paper white display provides excellent visibility in all light conditions - bright sun to darkened wheelhouse.
Digitiser	Bottom tracking capabilities of the unit are enhanced by utilizing the Digital Signal Processing features of the digitiser processor. This DSP capability yields a proprietary unambiguous and deterministic bottom detection method, even in the presence odd noise and multiple returns.	
Interfacing & Annotation	Four bi-directional RS-232 serial ports are standard. Depth information is output after each sounding cycle with the standard string including values for both the high and low channels in dual frequency operation. Custom output strings conforming to other major echo sounder formats are available. System parameters can be configured via the communication ports. The Echotrac accepts annotation of up to 80 characters (printed on the Fix Mark Line), in the proper format, from various peripherals, positioning, navigation and computer	
Fix Marks	Water depth, time, date, and fix number, are automatically annotated at every Fix mark. Beginning fix numbers, (incrementing or decrementing) can be selected via the front panel key pad or input via the serial interface from a computer over the serial or parallel interface, by electric command (active high, active low, or contact closure) over the dedicated fix input lines, or by internally generated signals from the system clock.	The time between internally generated fix marks can be set by the operator.
Heave Compensation	Direct connection to most modern heave compensation sensors via a dedicated serial port. Heave and corrected seabed are printed on the chart in addition to raw depths. Corrected depths or raw depths and heave values can be selected for output by the operator.	
Paper Dimensions	Recording Width: 216mm, Length: approx. 30m.	

Dimensions

Title	(mm)	(inch)	(kg)	(lbs)
Weight			21.7kg	48 lbs
Dimensions (HxWxD)	470mm x 432mm x 279mm	18.5" x 17" x 11"		