



14-INCH DUAL FREQUENCY COLOR ECHO SOUNDER

MODEL V-1402

MAJOR FEATURES:

14-inch dual frequency professional echo sounder

Frequency pair selectable from: 28, 38, 50 and 200 kHz

Vertical or horizontal screen split for dual frequency operation

Separate depth range settings across high and low frequency displays

A-scope for instant assessment of fish size regardless of range/feed rate in use

White line and bottom-locked expansion for ease of bottom fish detection

Selectable threshold level, suppressing weak colors without reducing sensitivity

Depth alarm for increasing/decreasing depth

Fish alarm for detection of fish within range in use

Front-panel control of transmit power reduction level

Built-in NMEA-0183 I/O interface

Multiple menu language

Water temperature display with optional temperature sensor connected

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GENERAL SPECIFICATIONS

Screen:	14 inch (diagonal) analog RGB CRT	Bottom Tracking:	Automatic basic range selection or automatic range phasing
Display Modes:		Expansion Modes:	Bottom-locked expansion and scale expansion
(1) Single Frequency Operation		Expansion Ranges:	The following ranges off the bottom are selectable for bottom-locked expansion (in meters/fathoms/braccia): A: 1 B: 2.5 C: 5 D: 10 E: 20 F: 50 G: 100 H: 200
• Full Screen Mode:	Normal echo across full screen	Feed Rates:	1/1, 1/2, 1/4, 1/8, 1/16, and freeze, without changing sounding rate for basic range in use
• Expansion Mode:	Normal echo across upper half screen with expanded echoes across lower half screen	TVG Adjustment:	Suppresses initial gain in 12 steps. Max. suppression: 60dB
(2) Dual Frequency Operation		Echo Threshold:	Suppresses up to 4 weak echo colors without decreasing receiver gain.
• Horizontal Split Mode:	High/low freq. echoes across upper/lower halves of screen	Noise Reduction:	Three levels (low, mid, high)
• Vertical Split Mode:	High/low freq. echoes across right/left halves of screen	Transducer Draft:	Adjustable in 0.1 unit steps
• Horizontal Trawl Mode:	High/low freq. echoes across upper/lower halves of screen with separately selectable basic ranges	Velocity Standard:	1500 m/sec., adjustable over 1400-1600 m/sec. range
• Vertical Trawl Mode:	High/low freq. echoes across right/left halves of screen with separately selectable basic ranges	Alarm Functions:	
Frequencies:	Pair of frequencies from the following: 28, 38, 50, and 200 kHz	• Depth Alarm:	Alarms against increasing depth/decreasing depth.
Transducers:		• Fish Alarm:	Alarms against detection of fish within range in use. Seven colors and three sizes are selectable to set minimum detectable strength and size.
• 28 kHz:	Type 6/2 ferrite transducer, 12 elements	Temperature Sensor:	T-200 thermistor (option)
• 38 kHz:	Ceramic or nickel, 60 , user-supplied	Sounder Interface:	JMC standard level/polarity echo and trigger input/output
• 50 kHz:	Type 4/2 ferrite transducer, 8 elements (standard) or single-element wide-beam ceramic (option)	Data Inputs:	NMEA-0183, position (\$GPGGA), heading/velocity (\$GPVTG)
• 200 kHz:	Single - element wide beam ceramic (standard) or single-element narrow beam ceramic	Data Outputs:	NMEAS-0183, depth(\$SDBT), temperature (\$WIMTW) with optional T-200 sensor connected
Transmit Power:	Approx. 2 kW RMS to 28/38/50 kHz transducers Approx. 500W RMS to 50 kHz/200 kHz wide beam transducers Approx. 1 kW RMS to 200 kHz narrow beam transducer	Panel Dimmer:	Adjustable in 8 steps
Power Reduction:	10 steps from approx. 1/100 to full power	Display Brightness:	Adjustable in 8 steps
Basic Ranges:	The following basic ranges are selectable:	Power Supply:	11 to 40 VDC, floating ground, approx. 70W (maximum)
A: 0 - 5	B: 0 - 10	C: 0 - 15	D: 0 - 20
E: 0 - 30	F: 0 - 40	G: 0 - 50	H: 0 - 80
I: 0 - 100	J: 0 - 150	K: 0 - 200	L: 0 - 300
M: 0 - 500	N: 0 - 1000	O: 0 - 2000	(MT/FM/BR)
Phasing (Shift):	1- unit steps from 0 to 999 meters/fathoms/braccia	Cabinet Dimensions:	390mm (W) × 414mm (H) × 418mm (D) with mounting pedestal attached, including front panel handles
		Cabinet Weight:	22.5 kg with mounting pedestal attached

NOTE: Above specifications are subject to change without notice or obligation.



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