



Z Axis-2F+

Dual Frequency Hydrographic Echo Sounder & Sea Floor Sonar

F1: 200 Khz.

F2: 30, 28, 24, 18, 12, & 10 Khz. (Field Selectable)

**Unabara
Hydrographics**

A unit of Unabara Corporation

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1.25 inch NPT Pipe Mounting

(optional one inch survey pole adapter is available)

Maximum Depth: 100 meters (330 feet)

Minimum Depth: 0.24 meters. (0.8feet)

(for BOTH F1 and F2 frequencies)

Ping Rate: 5, 10, or 20 hz. (user selectable)

User Inputs:

Sound Velocity

Offset (Draft)

Units (meters or feet)

Blanking Gate Depth

Hands-Off Operation

After setup, operation of the Z Axis-2F+ is fully autonomous with no user intervention needed.

Seamless Sea Bottom Tracking

Assured by Unabara's proprietary AI machine learning algorithm which anticipates changes in bottom conditions by analyzing the metrics of every returning ping.

Direct Depth Input: (Via COM PORT 2)

Direct input of depth(s) (Z data) to PC based mapping programs or data collectors (Trimble, Carlson, Leica, Topcon and others) via RS-232 or USB.

Output Sentences: (COM PORT 2) 9600 to 115,200 Baud

- NMEA-XDR
- ODOM DBT
- DESO-20

Sediment & Sub-Bottom Characterization

Digital & contour augmented reality map generation using HydroMagic PC Mapping Software (Surficial and Consolidated Depths). Also includes survey line Echogram displays, Bottom Contrasting based upon acoustic bottom losses, and Sediment View (vertical slice presentations of sub-bottom).

Simple Setup

Using included Z Axis Windows-based PC Control & Monitoring software APP

Power Input: 12 volts D.C. @ 125 ma.

(Optional external battery and charger available)

Narrow Acoustic Beam Widths

- For both F1 (5 degrees) and F2 (3.5 degrees).
- Results in small ensonified footprint of the sea bottom.
- Best horizontal spatial resolution of any survey sonar.