



Z Axis-2F Dual Frequency Hydrographic Echo Sounder

F1: 200 Khz.

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

**Unabara
Hydrographics**

A unit of Unabara Corporation

Direct Sales Contact: (504) 450-0268
Corporate Office: (504) 324-1803
Email: marketing@unabara.us

P.O. Box 1843 Gretna, Louisiana 70054

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:

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:

- NMEA-XDR
- ODOM DBT
- DESO-20

Baud Rate: 9600 to 115,200 (user selectable).

Simple Setup

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

Power Input: 12 volts D.C. @ 150 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 echo sounder.

Sediment Thickness

Differences between depths calculated from F1 and F2 frequencies can be used to determine siltation thickness and locate "liquid mud" in navigation channels. Both of the above are of particular interest in dredging operations.

Designed & Manufactured in Louisiana for the Waters of the World