

WMB160F WASSP Multi-beam Fishing System

Take away the guess work and see what's **REALLY** below your boat!

Systems in One

Multibeam Sonar

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- Single Beam Fish Finder
- Relative Beam Fish Finder
- Realtime 3D Seafloor Profiler
- 2D Bathymetric Contour Mapping
- Sonar View Display Showing Fish Schools at 120° Port to Starboard
- Side Scan





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Introduction

The WMB160F is a multi-beam fishing system that uses wide-angle sonar to profile the water column and seafloor to very high resolution. It is a unique combination of multi-beam sonar and computer processing power to provide you with unparalleled information about the fishing environment. It gives you a wide 120° port-starboard swath of the water column and seafloor, allowing you to find and position reefs and wrecks, fish schools, seafloor hardness changes, and foreign objects in the water column or on the seafloor. From the 120° swath, the system receives 112 dynamic beams, with each beam containing detections from the water column and seafloor.

For optimal performance, roll, heading and position inputs are all required. These can be provided through satellite compass input.

The information is presented in a user-friendly, mouse controlled, Windows-based operating system. The system can output data to plotting software packages on request.

Key Features

Improved performance

The use of separate transmit and receive arrays has enabled ENL to optimise both transmit performance and receive sensitivity, giving improved performance over traditional sonar and sounders.

More accurate 3D seabed mapping

Profiles 90 times faster than conventional single beam echo sounders, leading to reduced costs and improved accuracy.

Sonar View

A 120° swath using 112 beams allows you to see fish schools to both port and starboard of the vessel. With each beam 1.07°, the WMB160F displays a highly detailed picture of the marine environment.

Beam stabilization option

Beam stabilization compensates for the movement of the vessel, providing accurate seafloor profiles and fish school locations.

Variable beam width

Unique to the WMB160F, the single beam view can not only be stabilized, but the beam width can be varied from 5° to 40°.

Triple beam view

With variable width and angle, the port, centre, and starboard views display together to help build your understanding of the sea environment.

Computer based profile storage

A computer-based system means the WMB160F can generate and store very detailed seafloor profiles.



112 Beams



Without Stabilization

With Stabilization

_Seafloor Profiler



3 Dimensional



2 Dimensional



3 Dimensional



Sonar

1200

www.wassp.com



Sonar View, Triple Beam



Screen split 4 ways



Triple Beam



Side Scan

Sonar & Triple Beam

2D Contour Map



WMB160F operating in Europe.

Digital signal processing

Digital signal processing, or DSP, means the WMB160F can provide an indication of changes in seafloor hardness, ideal for scalloping, crayfishing, and trawling where you want to understand and locate small changes on the seafloor.

160 kHz operating frequency

Operating at a frequency of 160 kHz provides high seafloor definition.

Unique power management system (14 power levels)

14 power levels provide optimal performance over a wide range of seafloor types and water depths.

Future proof technology

The computer based operating system and transceiver firmware are both upgradeable as new features and methods in software are developed and become available.

Standard Equipment

Sea Chest Type Transducer (Best suited for steel
and alloy vessels).
Transceiver.
Shuttle computer c/w keyboard and
mouse/trackball.
Alloy cable gland (a steel gland WMB-SG and
plastic gland WMB-PG also available).
24 V, 650 W output, 230 V pure sine wave.

SC50

Options

Beam roll stabilization

Disclaimers

WMB-160F is not designed to comply with hydrographical mapping standards and therefore must not be used as a navigational mapping tool. Specifications subject to change without notice. The information in this brochure may not, in whole or in part, be copied, reproduced, photocopied, translated, or reduced to any electronic medium or machine readable form without the prior written consent of Electronic Navigation Ltd.

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Operating from a 35 foot Mark Millman cray boat, New Zealand cray fisherman Dan McRae uses the WMB-160F to enhance his catch, saving him time and money.

www.wassp.com

Specifications of WMB160F

Interconnection Diagram

Computer Requirements

CPU:

HDD:

Memory:

Graphics:

CD-ROM Drive:

Serial Ports:

USB Ports:

Display unit:

Resolution:

Display range: Range

> Shift Zoom range

Display modes:

Display windows:

Advance speed:

Transceiver

Output power:

Record:

TX rate:

Frequency:

Beam width:

Maximum depth:

Stabilization

Interface

Inputs:

Roll:

Power:

Display



Minimum 2.5 GHz 32-bit processor.

NVIDIA GeForce 4 Graphics 64 MB (or faster DirectX8 and OpenGL compatible graphics card).

Required for software installation.

230 V AC (ENL supplied Shuttle PC).

2-D zooming from 250 m to 3 km, 3-D zooming

40 GB (recommended minimum 160 MB).

1 GB RAM.

At least 2.

At least 2.

5-300 m. 5-200 m.

Sonar view.

Owner supplied.

1024x768 or better.

from 10 m to 1 km.

3-D Sonar view.

Backscatter view.

Vertical split screen. Horizontal split screen.

Slow - fast (5 speeds).

Raw data, capture maps.

±45° depending on sensor.

14 power settings from 40 W to 1.5 kW.

Automatic ping rate, determined by depth.

112 beams at 1.07° over 120° port/starboard

swath, Transmit 4° fore/aft, Receive 10° fore/aft.

NMEA sentences: HDT, HDG, VTG, RMC, GGA,

GGL, ZDA, PFEC-Gpatt, PFEC,-Gphve.

Contour view.

Single screen.

4-screen.

160 kHz.

200 m.

Single / Triple beam view.









Transceiver WMB-BTxR



TRANSDUCER CABLE GLAND WMB-AG (Alloy) WMB-AS (Steel) WMB-AP (Plastic



Power Supply

24 V DC. Transceiver: 230 V AC (inverted from 24 V DC ships supply). Computer: Input frequency: 50-60 Hz. Power consumption: 70 W.

0-40°.

Environmental

Temperature: Relative humidity: Vibration:

Weight Transceiver: Transducer:

5 kg. Sea chest type: 18 kg.

5-90% non condensing.

IEC 60945, Protected equipment.

Equipment List Standard:

Transducer Transceiver Computer Gland Inverter

WMB-160F-SCT WMB-BTxR. WMB-SHUTTLE PC. WMB-AG (alloy), WMB-SG (steel), WMB-PL (plastic). WMB-INVERTER.

Options:

Satellite compass For beam roll stabilization.





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