



# WESMAR™

## Three Powerful New Active Stabilization Systems

*New Digital Technology for Enhanced Comfort and Safety.*



**Model DSP4801**  
Uses an Advanced High-powered Digital Processor and Advanced Triple Axis Gyro for Maximum Comfort and Safety



*Digital display can be tailored to individual boat capabilities.*

**Model DSP4802**  
Includes controllable Lift During Stabilization for Maximum Fuel Savings



**Model DSP4803**  
Includes Powerful Gyro Actuated Fin Control of Vessel At Anchor



*A Life Changing New Technology*

# Introducing Three New Choices The WESMAR Advantage

The DSP4800 uses an advanced new high-powered digital processor and advanced triple axis gyro to add three sophisticated new digital control options, state-of-the-art electronics, and real time digital wheelhouse display. Combined they add comfort, safety, and fuel savings during cruising and at anchor. This is a life changing technology.

Whether cruising close to home or around the world, how fast you control the roll is everything. A rolling, wallowing boat does not operate at maximum efficiency and over a long course, it can steer a zigzag track. With the WESMAR DSP4800 your vessel steers a nearly straight course, improving comfort, saving fuel and ensuring safety.

Regardless of size, all vessels have their own roll characteristics depending on hull shape and loading. Wave motions initiate this, and if in close synchronization with the hull's natural roll period, roll may build to uncomfortable or even dangerous proportions.

The roll must be stopped before it starts; otherwise you fight the vessel's momentum as well as the forces of the sea. WESMAR's DSP4800 Active Digital Stabilizer, instantly reacts to control this roll by combining a memory component of your vessel's individual roll factor with input from its digital triple axis gyro to instantly stop the roll.



Standard Stabilize

Stabilize & Lift

Stabilize, Lift & At Anchor

## Select between three system options:

### Standard Digital Stabilization

Offering the high-speed gyro and control of roll, with on-screen display of fin movement in real time.

### Digital Stabilization and Lift

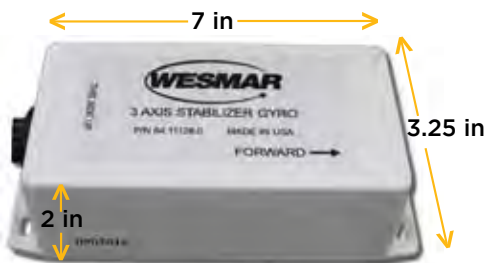
Gyro and controller software maintain the fins in a positive lift position during all stabilization movement, providing maximum fuel savings.

### Digital Stabilization, Lift and At Anchor

The At Anchor mode monitors incoming swells and automatically controls fin movement to reduce the roll.

## Greater Comfort and Peace of Mind

### Electronic Gyro System Delivers Lightning Speed Reaction



WESMAR's proprietary triple axis gyro delivers information about roll velocity, acceleration and the vessel's unique roll characteristics, by digital link to WESMAR's closed proportional hydraulic system. The system instantly reacts to stabilize the vessel. Simultaneously, the system monitors the hydraulic system for high temperature and low oil levels, allowing you to relax and enjoy a comfortable trip.

DSP4800 Control Console J-Box



\*Optional

DSP4800 Valve Drive J-Box

# The Many Advantages of the DSP4800

## Save Fuel, Save Time, Be Safe

Unique to the DSP4800 system is a wheelhouse monitor that is controlled by a digital keypad from which the Captain controls the system. Innovative software linked to the stabilizer displays real-time vessel roll and fin movement to correct this roll.

### DSP4800 Features and Advantages

- Increases stabilization in turns and following seas
- Accelerometer for expanded roll and heave control
- Powerful new digital signal processor and proprietary programming expand system capabilities
- Adds technology for heave and lift (popular for fuel efficiency on high-speed boats)
- Expands lightning fast accelerometer and electronic gyro sampling, and greater control features
- Dual monitors and dual control station options
- Interfaces with existing VGA monitors or can be connected to its own display

- Yellow, The Roll
- Blue, Degree of Fin Movement
- Red, Port Fin Movement
- Green, Starboard Fin Movement



Horizontal wave lines track how the vessel is responding

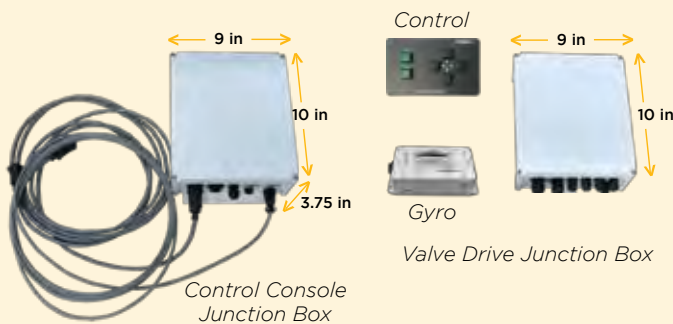
- The total digital link increases immunity to RF interference
- Vessel's individual roll characteristics are memorized and then monitored by the DSP4800's software enhancing roll correction for ultimate stabilization
- Precision non-contact fin positioning sensor eliminates the traditional potentiometer, which is subject to wear

## Upgrade and Retrofit Packages

There is good news for owners of WESMAR stabilizers. You can upgrade to the new DSP4800 system using existing fins, cables and connectors. WESMAR also offers an upgrade package for other stabilizer brands that includes cables and connectors.

### To upgrade a WESMAR System

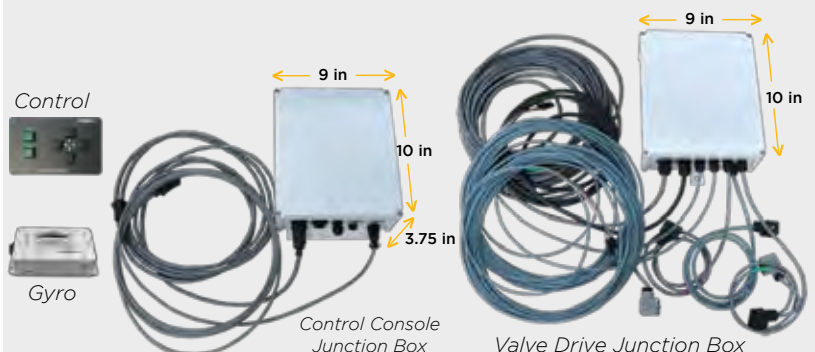
A WESMAR system utilizes all existing cabling with only four items exchanged and three cables added.



For At Anchor systems contact your WESMAR Dealer.

### To upgrade a Competitor's System

To upgrade a non-WESMAR system the same electronics are used that are used with the WESMAR upgrade; however, new cabling is required.



# Specifications

WESMAR Stabilizers are built for heavy-duty service and include load bearing components such as the dual cylinder actuators, which provide added strength and reliability to meet the high performance requirements of vessels, including large, high-speed, high-performance boats.

Auto Sensing Power Supply accepts 12 to 32 VDC

## Fin Specifications

Neutrally buoyant fin design  
Fin sizes 2.5 to 30 square feet



*Rugged, neutrally buoyant fin design, adds lift.*

## Standardize with WESMAR Products

WESMAR also manufactures a full line of Searchlight sonar, Trawl sonar, Bow and Stern Thrusters and Auxiliary propulsion (Get-Home Systems), for pleasure, sport and commercial applications.



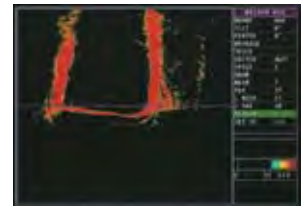
*DC Pro Thrusters*



*Trawl Sonar*



*APU*



*EV850 Navigation and Security Sonar and Hoist*



### Western Marine Electronics

14120 NE 200th Street, Woodinville, WA 98072 USA  
Tel: (425) 481-2296 Fax: (425) 486-0909  
bsentz@wesmar.com www.wesmar.com

Authorized WESMAR Dealer

### PRODUCT WARRANTY

Commercial warranty and consumer limited warranty, disclaimer, and remedies. Seller warrants title, materials, and workmanship on equipment, except components manufactured by others for which seller assigns, as permitted, the original manufacturer's warranty. Seller's warranty period for all applicable express or implied warranties shall be ninety (90) days after installation or one (1) year after date of shipment to the original buyer, whichever time period expires first. Nonconforming equipment reported to seller during the applicable warranty period and returned to seller at buyer's expense and risk shall be repaired, or replaced at seller's option. If seller is unable or unwilling to repair or replace such reported and returned nonconforming equipment within a reasonable time, then buyer shall be entitled to a refund of the purchase price of the equipment as buyer's sole remedy. This paragraph sets forth buyer's exclusive remedies for nonconforming goods. This commercial warranty and consumer limited warranty is in lieu of all other warranties, express or implied, including design, course of dealing, merchantability, and fitness for a particular purpose.

**NOTE: LIMITATION OF SELLER'S COMMERCIAL AND CONSUMER LIABILITY.** Seller shall not be liable on any claim for loss of use, revenue, or profit, for injury, or for any other incidental or consequential damages, regardless of the basis for buyer's claim(s), including, but not limited to, the law of contract, warranty, or tort. In no case shall seller's liability on any claim(s) exceed the amount paid to seller for the purchased goods.