

Leading the Industry Again

- Submersible
- Digital Selective Calling
- DSC Position Request and Send
- ClearVoice Noise Canceling Mic
- Optional Full Function RAM+ Mic
- NOAA Weather Alert, Scanning, Dual Watch and more
- GPS Repeatability*
- Optional Voice Scrambler

*with GPS attached



*Available in black or white

RAM+ Remote Access Microphone CMP25



AVAILABLE IN BLACK

*Display with GPS Attached



STANDARD HORIZON

Nothing takes to water like Horizon!

STANDARD HORIZON is leading the industry again with the MATRIX!

Submersible, Alpha Numeric LCD, Huge Channel Selector knob, Digital Selective Calling, GPS Repeatability, ClearVoice Noise Canceling Microphone and capable of using the Enhanced RAM+ Second Station Remote Control Microphone.

DSC Performance

The most important reason to have a VHF radio on board your vessel is safety. The MATRIX meets the internationally recognized requirements for RTCM SC-101 Digital Selective Calling. In an emergency the MATRIX is capable of transmitting an automated Digital MAYDAY transmission that includes GPS position and Date and time (when connected to GPS). The MATRIX also can transmit and receive DSC Urgency, Safety, Group and Individual calls.

Position Polling

STANDARD HORIZON has pioneered the capability to poll (request and send) the GPS location of another vessel and show the position of that vessel on the VHF's display. Standard Horizon has taken this feature one step further, if any Standard Horizon GPS is connected to the MATRIX the polled position of the vessel is shown on the display of the GPS chart plotter making it easy to navigate to the location of the polled vessel. This is a great feature for anyone wanting to know the position of another vessel for example your buddy that is catching fish, or finding the location of a person you are cruising with.



Optional Enhanced RAM+ MIC

The MATRIX has the capability of being connected to the enhanced full-function Remote Access Microphone (RAM+Mic). This advanced remote operates as a full second station to the MATRIX at the fly bridge, cockpit, tower or location of your choice. The submersible RAM+ has a huge channel display, speaker microphone that allows the user to remotely control all VHF radio functions, Digital Selective Calling functions and can show channel names and repeat GPS information.

NOAA Weather Alert, Scanning Dual Watch and more

The MATRIX has the capability to warn you of impending severe weather by audibly alerting you to switch to the active weather channel. Want to monitor more than one channel? The MATRIX can be programmed to scan any number or combination of channels with or without priority channel. Want to scan between one channel and CH16, you can use the Dual Watch function. Changing channels and operating the DSC functions is made easy with the oversized channel selector knob and alpha-numeric display.

Built better so backed better

Because the MATRIX is built better it's backed better. If the STANDARD HORIZON MATRIX fails for any reason (including water damage) during normal use in the first 3 years of ownership, STANDARD HORIZON will repair or replace it for free, without hassles or charges. If it fails anytime thereafter in normal use, for as long as the customer owns the radio, STANDARD HORIZON's Lifetime Rate Service, Customer Loyalty Policy Programs will cover it. The flat rate is determined at the time of the original purchase.



Marine Division of Vertex Standard
 US Headquarters
 10900 Walker Street,
 Cypress, CA 90630
 Phone: 714/827-7600
 Fax 800/552-6813
 Email: marinetech@vxstdusa.com

Web: www.standardhorizon.com



OPTIONAL ACCESSORIES



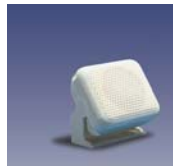
MMB-84
Flush Mounting Bracket



CT-100
10-foot Extension Cable for RAM+ MIC



RAM+ MIC
Remote Access microphone CMP25
CVS2500 Voice Scrambler



101S
Mini audio extension speaker in white



201S/SBK
white / black
Audio extension speaker



201SZ/SBKZ
white / black
Flush mount audio extension speaker

SPECIFICATIONS

General	
Channels	All USA, International and Canadian
Input Voltage	13.8 VDC ± 20 %
Current Drain:	
Standby	0.5 A
Receive	1.5 A
Transmit	5.0 A (Hi); 1.5 A (Lo)
Dimensions	3-1/4" H x 7-1/4" W x 6-5/16" D (83 H x 184 W x 135 D mm)
Flush-Mount Dimensions	2-5/8" H x 6-5/8" W x 5-1/8" D (67 H x 168 W x 130 D mm)
Weight	2.2 lbs (1 kg)
Transmitter	
Frequency Range	156.025 to 157.425 MHz
RF Output	25 W (Hi); 1 W (Lo)
Conducted Spurious Emissions	80 dB (Hi); 60 dB (Lo)
Audio Response	within +1/-3 of a 6 dB/octave pre-emphasis characteristic at 300 to 3000 Hz
Audio Distortion	5 %
Modulation	16K0G3E, for DSC 16K0G2B
Frequency Stability (-20; C to +50; C)	±0.0005 %
FM Hum and Noise	50 dB
Receiver	
Frequency Range	156.050 to 163.275 MHz
Sensitivity	20 dB Quieting 0.35 µV 12 dB SINAD 0.25 µV Squelch Sensitivity (Threshold) 0.13 µV
Modulation Acceptance Bandwidth	±7.5 kHz
Selectivity	Spurious and Image Rejection -70 dB Intermodulation and Rejection at 12 dB SINAD -70 dB
Audio Output	4 W
Audio Response	within +2/-8 of a 6 dB/octave de-emphasis characteristic at 300 to 3000 Hz
Frequency Stability (-20; C to +50; C)	±0.0005 %
Channel Spacing	25 kHz
DSC Format	RTCMSC101
NMEA Input/Output	Output - DSC, DSE Input - GLL, GGA, RMC and GNS

Standard Horizon reserves the right to make changes and enhancements to products at our discretion. Current specifications are therefore subject to change without notice.

A FAMILY OF COSMETICALLY MATCHED CHOICES

The MATRIX is one member of the family of marine electronics from STANDARD HORIZON that includes:

