



STANDARD HORIZON

25 Watt VHF FM Marine Transceiver

MATRIX

GX3000E

- Independent Channel 70 Receiver Built-in for Continuous DSC Watch
- Large Alphanumeric LCD
- Flush Mount Capability
- Large 57 mm Internal Loudspeaker Producing Loud Audio
- 30W Loud Hailer Complete with Listen Back, 4 Fog Horns, Bells, and Whistles
- Microphone with 16/9 Key and Channel Selection
- Display Shows Channel Names, and Repeats the GPS Information*
- Supports both RAM+ CMP25 Remote Control Microphone and/or VH-310 Telephone Style Handset Simultaneously
- Rotary Channel Selector
- Digital Selective Calling Class-D (EN301-025)
- DSC Distress Call Automatically Broadcasts Lat/Lon and Vessel ID*
- DSC Position Request Function and NMEA Data Input/Output
- Lat/Lon and SOG/COG Display
- Channel Name Capability
- One-Button Access to Channel 16 and 9
- Voice Scrambler (optional)
- Versatile User-Programmable Scanning, Priority Scan and Dual Watch
- Backlit LCD and Keys
- Unique Receive Audio Tone Control

* with GPS Connected

**Integrated
30 W
LOUD HAILER**



**Class D
DSC Transceiver**

Simulated LCD Display
Available in Black or White



Large Alphanumeric LCD

There is no question about it. With a big, bold display there is no mistaking the information. It can easily be seen in locations where the radio cannot be mounted directly in front of you.

Large 67 mm Internal Loudspeaker Producing Loud Audio

With the 67 mm oversized internal audio speaker you will have no problem hearing communications even in the loudest conditions.

Lat/Lon and SOG/COG Display

When interfaced with a GPS position information is displayed on the LCD. This makes sharing position information with other vessels or the coast guard simple if you run into an emergency. Speed Over Ground and Course Over Ground are also displayed to help keep you on track.

30 W Loud Hailer with Listen Back and 4 Fog Horns, Bells & Whistles

When having a VHF is not enough, connect a optional PA horn to the Matrix and you now have a full functioning Loud Hailer complete with 4 fog signals, bells, whistles, horns, and sirens.

Display Shows Channel Names and Repeats the GPS Information*

All the information you need right at your fingertips. Customizable channel naming allows you to easily change the channel name for greater ease of use and channel recognition. Position, date, and time are also displayed when connected to a GPS.

DSC Distress Call Automatically Broadcasts Lat/Lon and Vessel ID*

Interface the GX3000S with a GPS using the supplied interface cable and you can send GPS information to the VHF. When interfaced, this allows transmission of a DSC Distress Call with position information.

Supports Dual Second Station Remote Control Microphones Simultaneously

Connect up to two optional remote control microphones for fully functioning Class D remote control stations with the addition of selective calling or all call intercom between stations. All the features of the radio including sending a DSC distress call can be accessed through the RAM+ microphone or VH-310 keypad handset.

Versatile User-programmable Scanning, Priority Scan and Dual Watch

Select any of the channels you would like to scan with the press of a button. Select Dual Watch to scan your selected channel and channel 16 simultaneously. This way you will not miss any of the very important calls made on channel 16. Similar to Dual Watch, Priority Scan allows scanning of more than one channel with Channel 16.

•Independent Channel 70 Receiver Built-in for Continuous DSC Watch •Flush-Mount Capability •Microphone with 16/9 Key and Channel Selection •Rotary Channel Selector •Digital Selective Calling Class-D (EN301-025) •DSC Position Request Function and NMEA Data Input/Output •Channel Name Capability •One-Button Access to Channel 16 and 9 •Voice Scrambler (optional) •Submersible Construction •Versatile User-Programmable Scanning, Priority Scan and Dual Watch •Backlit LCD and Keys •Unique Receive Audio Tone Control

* with GPS Attached

SPECIFICATIONS

GENERAL

Channels*	All USA, International and Canadian
Input Voltage	13.8 VDC $\pm 20\%$
Current Drain	Standby 0.5 A Receive 1.5 A Transmit 5.5 A (Hi); 1.5 A (Lo)
Dimensions to cutout	110 H x 180 W x 115 D mm
Flush-Mount Dimensions	92 H x 165 W x 150 D mm
Weight	1.5 kg

TRANSMITTER

Frequency Range	156.025 to 157.425 MHz
RF Output	25 W (Hi); 1 W (Lo)
Conducted Spurious Emissions	80 dB (Hi); 66 dB (Lo)
Audio Response	within $\pm 1-3$ of a 6 dB/octave pre-emphasis characteristic at 300 to 3000 Hz
Audio Distortion	5 %
Modulation	16K0G3E, for DSC 16K0G2B
Frequency Stability	± 1.5 kHz (-20° C to $+60^{\circ}$ C)
FM Hum and Noise	50 dB

RECEIVER

Frequency Range	156.050 to 163.275 MHz
Sensitivity	20 dB SINAD 0.3 μ V 20 dB SINAD (70 CH Receiver) 0.3 μ V Squelch Sensitivity (Threshold) 0.35 μ V
Modulation Acceptance Bandwidth	± 7.5 kHz
Selectivity	-80 dB / Spurious and Image Rejection (TYP.) -80 dB / Intermodulation and Rejection at 20 dB SINAD (TYP.)
Audio Output	4.5 W
Audio Response	within $\pm 1-3$ of a 6 dB/octave de-emphasis characteristic at 300 to 3000 Hz (@ Receiver Audio Control: Default)
Frequency Stability	± 1.5 kHz (-20° C to $+60^{\circ}$ C)
Channel Spacing	25 kHz
DSC Format	ITU Class D
NMEA Input/Output	Output - DSC, DSE Input - GLL, GGA, RMC and GNS

*Depend on version

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

OPTIONAL ACCESSORIES

 VH-310 Remote-Access Handset with Cradle	 CMP25B Remote-Access Microphone (Black)	 CMP25W Remote-Access Microphone (White)	 CT-100 7 m Extension Cable for CMP25	 MMB-84 Flush-Mount Bracket
 CVS2500 Voice Scrambler	 MLS-300 External Speaker	 MLS-310 External Speaker with Amplifier	 220SW 114 mm Round Hail/PA Horn	 240SW 127 x 203 mm Rectangular Hail/PA Horn