

FIXED MOUNT VHF AND LOUD HAILER SPECIFICATIONS

Fixed Mount VHF Radios

MODEL	GX6500E/GX6000E	GX2200E	GX1700E	GX1300E
GENERAL				
Frequency Range	Marine Band 156.025 - 163.275 MHz	Marine Band 156.025 - 163.275 MHz	Marine Band 156.025 - 163.275 MHz	Marine Band 156.025 - 163.275 MHz
Input Voltage	13.8 VDC ±20 %	13.8 VDC ±20 %	13.8 VDC ±20 %	13.8 VDC ±20 %
Current Drain	Standby: 0.55 A Receiver: 0.9 A Transmit: 5.0 A (Hi), 1.0 A (Lo)	Standby: 0.55 A Receiver: 0.9 A Transmit: 5.0 A (Hi), 1.0 A (Lo)	Standby: 0.45 A Receiver: 0.8 A Transmit: 5.0 A (Hi), 1.0 A (Lo)	Standby: 0.3 A Receiver: 1.0 A Transmit: 5.5 A (Hi), 1.5 A (Lo)
Overall Dimensions	175.5W x 110H x 173.3D mm	180W x 80H x 160D mm	150W x 85H x 90D mm	155W x 60H x 150D mm
Flush-Mount Dimensions	158W x 94H x 158D mm	161W x 65H x 150D mm	137W x 72H x 90D mm	131W x 51H x 140D mm
Weight	1.66 kg	1.45 kg	900 g	870 g
PA/FOG Power Output	25 W with listen back	30 W with listen back	-	-
TRANSMITTER				
RF Output	25 W (Hi), 1 W (Lo)	25 W (Hi), 1 W (Lo)	25 W (Hi), 1 W (Lo)	25 W (Hi), 1 W (Lo)
Conducted Spurious Emissions	Less than -80 dBc (Hi), -66 dBc (Lo)	Less than -80 dBc (Hi), -66 dBc (Lo)	Less than -80 dBc (Hi), -66 dBc (Lo)	Less than -80 dBc (Hi), -66 dBc (Lo)
Frequency Stability	±3 ppm (-20° C to +60° C)	±3 ppm (-20° C to +60° C)	±3 ppm (-20° C to +60° C)	±3 ppm (-20° C to +60° C)
FM Hum and Noise	50 dB	50 dB	50 dB	50 dB
RECEIVER (for Voice and DSC)				
Sensitivity (12 dB SINAD)	0.30 µV	0.30 µV	0.25 µV	0.25 µV
Spurious and Image Rejection	80 dB for Voice (75 dB for DSC / 70 dB for AIS)	80 dB for Voice (75 dB for DSC)	80 dB for Voice (75 dB for DSC)	80 dB for Voice (75 dB for DSC)
Intermodulation and Rejection	80 dB for Voice (75 dB for DSC / 70 dB for AIS)	80 dB for Voice (75 dB for DSC)	70 dB for Voice (70 dB for DSC)	70 dB for Voice (70 dB for DSC)
Audio Output	10 W	4.5 W	4.5 W	4.5 W
DSC Format	Class D ITU-R M.493-13	Class D ITU-R M.493-13	Class D ITU-R M.493-13	Class D ITU-R M.493-13
TRANSMITTER (for AIS)				
Sensitivity	0.5 µV*1	0.5 µV	-	-
Selectivity	Spurious and Image Rejection 70 dB*1 Intermodulation and Rejection 70 dB*1	Spurious and Image Rejection 70 dB Intermodulation and Rejection 70 dB	-	-
NMEA Input/Output				
NMEA 2000	Compatible	-	-	-
NMEA 0183	Input: GLL, GGA, GNS, RMC, GSA*1 and GSV*1 (4800 or 38400*1 bps) Output: DSC, DSE, GGA, GLL, GNS, RMC, GSA and GSV (4800 or 38400 bps), VDM and VDO (38400 bps)	Input: GLL, GGA, GNS, RMC, GSA and GSV (4800 or 38400 bps) Output: DSC, DSE	Input: GSA, GSV, GGA, GLL, GNS and RMC Output: DSC and DSE	Input: GSA, GSV, GGA, GLL, GNS and RMC Output: DSC and DSE
NMEA 0183-HS	Output: VDM and VDO (38400 bps)	Output: VDM (38400 bps)	-	-

*1 GX6500E only

Loud Hailer

MODEL	VLH-3000A
GENERAL	
Input Voltage	13.8 VDC ± 20 %
PA Horn Output	30W : 2ch (at 4 ohm 10 % distortion)
Intercom Output	4W : 2ch (at 4 ohm 10 % distortion)
Listen-Back Input Level	2 mV
AF Output	4 W (at 4 ohm 10 % distortion)
EXT SPK Output	2 W (at 8 ohm 10 % distortion)
INT SPK Output	2 W (at 8 ohm 10 % distortion)
Mic sensitivity	10 mV
Drain current	7 A (MAX) when Forward and Aft Horns are used.
Idle current	300 mA
Operating temperature	-20° C to +55° C
Storage temperature	-20° C to +70° C
Water integrity	IPX7 (1 m for 30 min) for the front panel
Overall Dimensions	180W x 110H x 140D mm
Flush mount dimensions	165W x 92H x 115D mm
Weight	1.35 kg

MODEL	GX6500E/GX2200E/GX1700E GPS Specifications
Channels	66 channels
Sensitivity	Less than -147 dBm
Time to First Fix	1 min typical (@Cold Start) 5 sec typical (@Warm Start)
Geodetic Datum	WGS84
SBAS Correction	WAAS, MSAS and EGNOS

HANDHELD VHF SPECIFICATIONS

MODEL	HX870E	HX400E	HX210E	HX300E	HX400E/HX400IS	HX407E On-board/HX407E ATEX	HX380	
GENERAL								
Frequency Range	Marine Band 156.025 - 163.275 MHz	Marine Band 156.025 - 163.275 MHz	Marine Band 156.025 - 163.275 MHz	Marine Band 156.025 - 163.275 MHz	Marine Band: 156.025 - 162.000 MHz LMR Band: 134 - 174 MHz	Marine Band: 457.525 - 467.525 MHz	Marine Band: 156.025 - 163.275 MHz LMR Band: 134 - 174 MHz	
Battery type / Capacity	Li-Ion 1800 mAh	Lithium Polymer 1850 mAh (Built-in)	Lithium Polymer 1850 mAh (Built-in)	Li-Ion 1560 mAh	Li-Ion 2300 mAh (HX400E) 2550 mAh (HX400IS)	Li-Ion 2300 mAh (HX400E on-board) 2550 mAh (HX407E ATEX)	Li-Ion 1600 mAh	
Input Voltage	7.4 VDC	7.4 VDC	7.4 VDC	3.7 VDC	7.4 VDC	7.4 VDC	7.4 VDC	
Current Drain	Standby: 100 mA (GPS On), 60 mA (GPS Off) Receive: 330 mA (MAX AF Output) Transmit: 1.6 A / 1.0 A / 0.7 A (6W(5W)*2/2.5W/1W)	Standby: 100 mA Receive: 330 mA (MAX AF Output) Transmit: 1.6 A / 1.0 A / 0.7 A (6W(5W)*2/2.5W/1W)	Standby: 60 mA Receive: 330 mA (MAX AF Output) (Typical at MAX AF Output) Transmit: 1.6 A / 0.9 A (5W / 1 W)	Standby: 20 mA Receive: 330 mA (Typical at MAX AF Output) Transmit: 2.3 A / 0.9 A (5W / 1 W)	Standby: 50 mA Receive: 320 mA (MAX AF Output) Transmit: 1.6 A / 0.8 A (5W / 1 W)	Standby: 70 mA Receive: 320 mA (MAX AF Output) Transmit: 0.8 A / 0.5 A (Hi / Lo)	Standby: 70 mA Receive: 320 mA (MAX AF Output) Transmit: 1.6 A / 0.8 A (Hi / Lo)	Standby: 50 mA Receive: 320 mA (MAX AF Output) Transmit: 1.6 A / 0.8 A (5W / 1 W)
Overall Dimensions	62W x 138H x 43D mm	52W x 95H x 33D mm	60W x 132H x 40D mm	59W x 128H x 33D mm	57W x 133H x 40D mm	57W x 133H x 40D mm	57W x 133H x 33D mm	
Weight	322 g (w/SBR-13LI, Hand Strap, Belt Clip & Antenna)	230 g (w/Hand Strap, Belt Clip & Antenna)	280 g (w/Hand Strap, Belt Clip & Antenna)	240 g (w/SBR-27LI, Belt Clip & Antenna)	350 g (w/FNB-115LI/SBR-29LIIS, Belt Clip & Antenna)	350 g (w/FNB-115LI/SBR-30LI ATEX, Belt Clip & Antenna)	320 g (w/FNB-V105LI, Belt Clip & Antenna)	
TRANSMITTER								
RF Output	6W(5W)*2/2W/1W(@7.4V)	6W(5W)*2/2.5W/1W(@7.4V)	6W(5W)*2/2.5W/1W(@7.4V)	5W/1W(@3.7V)	5W/1W(@7.4V)	1.5W/0.5W/2W/0.5W(@7.4V)	5W/1W(@7.4V)	
Conducted Spurious Emissions	-75 dBc Typical	Less than 0.25 µV	Less than 0.25 µV	-75 dBc Typical	-75 dBc Typical	-75 dBc Typical	At least 36 dBm below	
Frequency Stability	±3 ppm (-20° C to +60° C)	±3 ppm (-20° C to +60° C)	±3 ppm (-20° C to +60° C)	±5 ppm (-20° C to +60° C)	±2.5 ppm (-30° C to +60° C)	±2 ppm (-30° C to +60° C)	±2.5 ppm (-30° C to +60° C)	
FM Hum and Noise	40 dB	40 dB	40 dB	40 dB	40 dB	40 dB	40 dB	
RECEIVER								
Sensitivity (12 dB SINAD)	0.25 µV	0.25 µV	0.25 µV	0.25 µV	0.25 µV	0.25 µV	0.25 µV	
Selectivity	12 kHz / 25 kHz (-6 dB / -60 dB)	12 kHz / 25 kHz (-6 dB / -60 dB)	12 kHz / 25 kHz (-6 dB / -60 dB)	25 kHz / 70 dB	12 kHz / 25 kHz (-6 dB / -60 dB)	12 kHz / 25 kHz (-6 dB / -60 dB)	12 kHz / 25 kHz (-6 dB / -60 dB)	
Audio Output	700 mW	600 mW	600 mW	600 mW	700 mW	700 mW	700 mW	
DSC Format	Class D ITU-R M.493-13	-	-	-	-	-	-	
NMEA 0183 In/Out	Input/Output: DSC, DSE, GGA, GLL, RMC, GSA and GSV	-	-	-	-	-	-	
GPS								
Channels	66 channels	-	-	-	-	-	-	
Sensitivity	Less than -147 dBm	-	-	-	-	-	-	
Time to First Fix	1 min Typical (@Cold Start) 5 sec Typical (@Warm Start)	-	-	-	-	-	-	
Geodetic Datum	WGS84	-	-	-	-	-	-	
SBAS Correction	WAAS, MSAS and EGNOS	-	-	-	-	-	-	

*2 5 W TX power required in some countries

STANDARD HORIZON

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

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STANDARD HORIZON

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Nothing takes to water like Standard Horizon



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Fixed Mount VHF Radios

POWER, PERFORMANCE, RELIABILITY

ADVANCED FEATURES

- AIS/AIS SART target display: MMSI, Call Sign, Ship Name, BRG, DST, SOG and COG



- Integrated 66 Channel GPS antenna
- BUILT-IN AIS Integrated dual channel AIS (Automatic Identification System) receiver

- Clear Voice noise canceling speaker microphone with channel selection and 16/9 key

- Extra-large rotary channel knob

- 80dB Commercial grade receiver

► Supplied Accessories:
Power Cord and Mounting Bracket



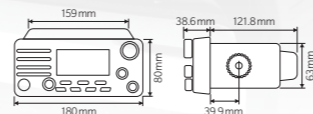
GX2200E MATRIX AIS/GPS *ITUCLASS D*

FIRST FIXED MOUNT VHF WITH BUILT-IN AIS/GPS RECEIVER
30W PA/FOG-RAM3+ COMPATIBLE

BUILT-IN AIS

IPX7
Submersible
1m for 30min

3 Year
WARRANTY



- Meets ITU-R M.493-13 Class D (Digital Selective Calling)
- Scanning and Dual Watch operation
- GPS Compass, Waypoint and GPS status pages
- DSC position request and report functions
- ATIS mode for European Inland waterways
- Supports optional RAM3+ second station remote microphone with AIS display
- Integrated dual channel AIS (Automatic Identification System) receiver

- Navigate to waypoints with Entered & Saved on the Compass page
- Direct calling to Class A and Class B vessels using the DSC individual call feature
- Programmable CPA or TCPA collision avoidance alarms
- Navigation (LAT/LON, Time, SOG and COG) information is shown on display
- 4800 or 38400 NMEA 0183 baud rate selection, for plotters with 1 NMEA port
- User customisable soft keys for easy menu operation



Icon Function List

Radio Specifications ▶	FLOATING	SUBMERSIBLE	SUBMERSIBLE	6W Transmit Power	LOUD AUDIO 700mW	LOUD AUDIO	80dB RECEIVER	LAND MOBILE CHANNELS	3.7V Battery technology	AVAILABLE IN BLACK OR WHITE	3 Year WARRANTY
Usability ▶	E 2 0 Easy To Operate	16 / 9	16 / 5	LARGE DISPLAY	Li-Ion Battery Included	AC and DC Charger Included	USB Charger Included	CONNECTIVITY	SECOND STATION	OPTIONAL MIC / HEADSET	LOUD HAILER
Features ▶	CLASS D	DSC DISTRESS and POS Polling	GM Group Monitor	GPS COMPASS	WAYPOINT NAV	GPS	AIS	Broadcast Radio Receiver	TOPE CONTROL	MOB Man Overboard	STROBE LIGHT



GX1700E EXPLORER GPS *ITUCLASS D*

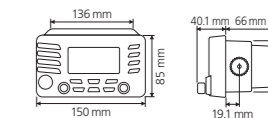
ULTRA SLIM & COMPACT REAR CASE
FIRST FIXED MOUNT VHF WITH BUILT-IN GPS!

IPX8
Submersible
1.5m for 30min

3 Year
WARRANTY

► Supplied Accessories: Power Cord and Mounting Bracket

- Meets ITU-R M.493-13 Class D (Digital Selective Calling)
- Ultra-slim and compact rear case design (90mm depth)
- Scanning and Dual Watch operation
- Separate receiver for CH70 built in (Receiving DSC Calls)
- ATIS mode for European Inland waterways
- Optional RAM3+ second station remote microphone is supported
- Navigation to Waypoints that are entered & saved on the Compass Page
- GPS antenna built-in (66 Channel)
- Automatically poll the GPS position of up to 4 vessels using DSC
- Navigation (LAT/LON, SOG, and COG) information shown on display
- Noise cancelling microphone with channel UP/DOWN, 16/9 and H/L keys



GX1300E ECLIPSE *ITUCLASS D*

FIXED MOUNT CLASS D DSC VHF

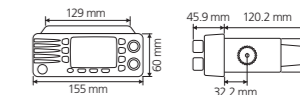
► Supplied Accessories: Power Cord and Mounting Bracket

IPX8
Submersible
1.5m for 30min

3 Year
WARRANTY

Body colour: ● Black ○ White Available in Black and White

- Meets ITU-R M.493-13 Class D (Digital Selective Calling)
- Affordable Ultra Compact Fixed Mount VHF radio
- Scanning operation and Multi-Watch (Dual Watch and Triple Watch)
- Separate receiver for CH70 built in (Receiving DSC Calls)
- ATIS mode for European Inland waterways
- Automatically poll the GPS position of up to 6 vessels using DSC²
- GPS position and Time are shown on a full dot matrix display (Requires GPS Receiver connection)
- DSC Distress, Individual, Group, All Ships, Position Request, Position Report, and DSC Test Calling²
- Large-size dot matrix display (31mm x 55mm)



Fixed Mount VHF Radio Accessories

Model	Microphone / Cable	External GPS Antenna	Encryption	Cover	External Speaker	Hail / PA Speaker	Bracket
GX2200E	CMP31B / CMP31W Remote station microphone (Black/White) RAM3+	CT-100 7m extension cable for CMP31	SCU-31 External GPS antenna with 15m of cable	CVS2500A Voice scrambler	Dust Cover	MLS-300 External Speaker	MLS-310 External Speaker with 10W amplifier
GX1700E						220SW 114mm Round PA/hailing horn 30W 4 Ohm	240SW 127mm x 203mm Rectangular PA/hailing horn 40W 4 Ohm
GX1300E							MMB-84 MMB-97 MMB-84

*1 when connected to an optional AIS receiver or transponder *2 when connected to an optional GPS