

STANDARD HORIZON

Nothing takes to water like Standard Horizon

MARINE COMMUNICATIONS PRODUCT CATALOG 2016 / 2017





Fixed Mount VHF Radios

POWER, PERFORMANCE, RELIABILITY

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



- ▶ Integrated 66 Channel
GPS antenna



- ▶ ClearVoice noise canceling
speaker microphone with
channel selection and
16/9 key

- ▶ Oversized rotary
channel knob

- ▶ 80dB Commercial grade
receiver



- ◀ **Supplied Accessories:**
Power Cord and
Mounting Bracket

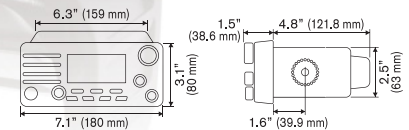
Body color ● Black ○ White
Available in Black and White

BUILT-IN AIS

- ▶ Integrated dual channel AIS
(Automatic Identification System) receiver

GX2200 MATRIX AIS/GPS ITU CLASS D BUILT-IN AIS

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



SUBMERSIBLE	LOUD HAILER	DSC DISTRESS and POS Polling	SECOND STATION	NOAA WEATHER CHANNELS / ALERT	80 dB RECEIVER	16 / 9	AVAILABLE IN BLACK OR WHITE	CLASS D	E 2 0 Easy To Operate	GPS	WAYPOINT NAV	GPS COMPASS	AIS	IPX7 1 m for 30 min Submersible
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- Integrated dual channel AIS (Automatic Identification System) receiver
- Directly call class A and class B vessels using the DSC individual call feature
- Programmable CPA or TCPA collision avoidance alarms
- Meets ITU-R M.493-13 Class D DSC (Digital Selective Calling)
- DSC position request and report functions
- GPS Compass, Waypoint and GPS status pages

- Navigation (LAT/LON, Time, SOG and COG) information shown on display
- 4800 or 38400 NMEA baud rate selection, for plotters with 1 NMEA port
- Enter, Save and Navigate to waypoints with Compass page
- User customizable soft keys for easy menu operation
- Versatile user-programmable scanning, priority scan and Dual Watch
- Capable of connecting an optional RAM3+ second station remote access microphone with AIS display

Icon Function List

SUBMERSIBLE	SUBMERSIBLE	FLOATING	STROBE LIGHT	LOUD AUDIO 700mW	LOUD AUDIO	NOAA WEATHER CHANNELS / ALERT	CLASS D	DSC DISTRESS and POS Polling	LAND MOBILE CHANNELS	16 / 9	AVAILABLE IN BLACK OR WHITE	LOUD HAILER	6W Transmit Power	LARGE DISPLAY	MOB Man Overboard
GM Group Monitor	E 2 0 Easy To Operate	OPTIONAL MIC / HEADSET	SECOND STATION	TONE CONTROL T B	GPS COMPASS	WAYPOINT NAV	80 dB RECEIVER	GPS	AIS	High Capacity Li-Ion Battery Included	3.7V Battery technology	AC and DC Charger Included	USB Charger Included		



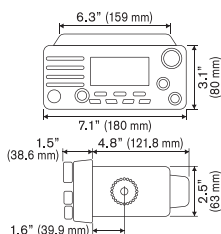
GX2000

MATRIX *ITUCLASS D*
FIXED MOUNT DSC VHF
WITH AIS INPUT, 30 W PA/
FOG-RAM3+ COMPATIBLE

◀ **Supplied Accessories:**
Power Cord and Mounting Bracket

Body color ● Black

SUBMERSIBLE 1.5 m for 30 min	LOUD HAILER	DSC DISTRESS and POS Polling	IPX7 1 m for 30 min Submersible
SECOND STATION	NOAA WEATHER CHANNELS / ALERT	80 dB RECEIVER	16 / 9
E 2 0 Easy To Operate	WAYPOINT NAV	GPS COMPASS	AIS
			CLASS D



- AIS (Automatic Identification System) receiver or transponder connection
- AIS target display: MMSI, Call Sign, Ship Name, BRG, DST, SOG and COG*1,2
- Directly call class A and class B vessels using the DSC individual call feature*2
- CPA (Closest Point of Approach) Alarm*1,2
- Meets ITU-R M.493-13 Class D (Digital Selective Call)
- Class D DSC (Digital Selective Calling) with Individual, Group, All ship, Position Report, Request and Distress*2
- Enter, Save and Navigate to waypoints with Compass page*2
- Capable of connecting an optional RAM3+ second station remote access microphone



GX1700

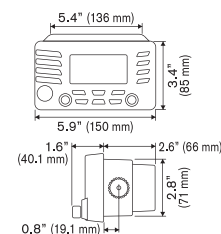
EXPLORER GPS *ITUCLASS D*
ULTRA SLIM & COMPACT
REAR CASE FIRST FIXED
MOUNT VHF WITH BUILT-IN GPS!

◀ **Supplied Accessories:**
Power Cord and Mounting Bracket

Body color ● Black ○ White

Available in Black and White

SUBMERSIBLE 1.5 m for 30 min	SECOND STATION	DSC DISTRESS and POS Polling	IPX8 1.5 m for 30 min Submersible
NOAA WEATHER CHANNELS / ALERT	16 / 9	AVAILABLE IN BLACK OR WHITE	LARGE DISPLAY
E 2 0 Easy To Operate	GPS	WAYPOINT NAV	GPS COMPASS
			CLASS D



- Fixed Mount VHF with BUILT-IN 66 channel GPS
- Ultra thin and compact rear case design (3.5" depth)
- Meets ITU-R M.493-13 Class D (Digital Selective Call)
- Automatically poll the GPS position of up to 4 ships using DSC
- Enter, Save, and Navigation to Waypoint with Compass page
- Navigation (LAT/LON, SOG, and COG) information shown on display
- Noise canceling microphone with channel UP/DOWN, 16/9 and H/L keys
- Programmable Scan, Priority Scan, and Dual Watch
- Capable of connecting an optional RAM3+ second station remote access microphone



GX1600

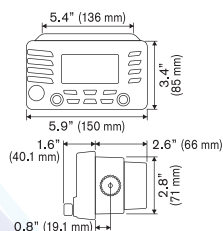
EXPLORER *ITUCLASS D*
ULTRA COMPACT
FIXED MOUNT DSC
VHF-RAM3+ COMPATIBLE

◀ **Supplied Accessories:**
Power Cord and Mounting Bracket

Body color ● Black ○ White

Available in Black and White

SUBMERSIBLE 1.5 m for 30 min	SECOND STATION	DSC DISTRESS and POS Polling	IPX8 1.5 m for 30 min Submersible
NOAA WEATHER CHANNELS / ALERT	16 / 9	AVAILABLE IN BLACK OR WHITE	E 2 0 Easy To Operate
LARGE DISPLAY	WAYPOINT NAV	GPS COMPASS	
			CLASS D



- Ultra thin and compact rear case design (3.5" depth)
- Meets ITU-R M.493-13 Class D (Digital Selective Call)
- DSC test call
- Automatically poll the GPS position of up to 4 ships using DSC*2
- Enter, Save, and Navigation to waypoint with Compass page*2
- Navigation (LAT/LON, SOG, and COG) information shown on display*2
- Noise canceling microphone with channel UP/DOWN, 16/9 and H/L keys
- Programmable Scan, Priority Scan, and Dual Watch



GX1300

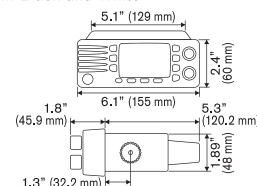
ECLIPSE *ITUCLASS D*
FIXED MOUNT
CLASS D DSC VHF

◀ **Supplied Accessories:**
Power Cord and Mounting Bracket

Body color ● Black ○ White

Available in Black and White

SUBMERSIBLE 1.5 m for 30 min	DSC DISTRESS and POS Polling	NOAA WEATHER CHANNELS / ALERT	IPX8 1.5 m for 30 min Submersible
16 / 9	AVAILABLE IN BLACK OR WHITE	CLASS D	E 2 0 Easy To Operate
			LARGE DISPLAY



- Affordable Ultra Compact Fixed Mount VHF radio
- Meets ITU-R M.493-13 Class D DSC (Digital Selective Calling)
- Built in Separate Receiver for CH70 (Receiving DSC Calls)
- Replaces older Eclipse+ and Eclipse DSC Models
- Oversized Full dot matrix display (1.2" x 2.2")
- DSC Distress, Individual, Group, All Ships, Position Request, Position Report, and DSC Test Call*2
- GPS position and Time shown on a full dot Matrix Display when connected to a GPS Receiver
- Automatically poll the GPS position of up to 6 ships using DSC*2
- Programmable Scan, Priority Scan, and Multi Watch (Dual Watch or Triple Watch)

Fixed Mount VHF Radio Accessories

Model	Microphone / Cable	External GPS Antenna	Encryption	Cover	External Speaker	Hail / PA Speaker	Bracket
	CMP31B / CMP31W Remote station microphone (Black/White) RAM3+	Q7000619A External GPS antenna with 30 Ft of cable	CVS2500A Voice scrambler	Dust Cover	MLS-300 External Speaker	220SW 114 mm Round PA/hailing horn	240SW 127 x 203 mm Rectangular PA/hailing horn
	CT-100 23-foot extension cable for CMP31				MLS-310 External Speaker with 10 W amplifier		
GX2200	•	•	•	HC2000	•	•	MMB-84
GX2000	•	•	•	HC2000	•	•	MMB-84
GX1700	•	•	•	HC1600	•	•	MMB-97
GX1600	•	•	•	HC1600	•	•	MMB-97
GX1300	•	•	•	HC1100	•	•	MMB-84

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



Floating Handheld VHF Radios

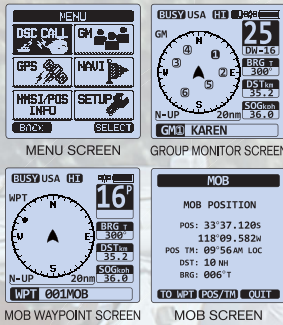
LEADING THE INDUSTRY WITH THE FIRST FLOATING VHF WITH GPS



- ▶ Integrated 66 Channel WAAS GPS antenna with memory log



- ▶ Oversized full dot matrix display (1.7" (W) x 1.7" (H) or 2.3" diagonal)



- ▶ Noise canceling function for transmit and receive audio



- ▶ USB Data Port - NMEA 0183 sentence Output DSC, DSE, GLL, RMC, GSA, GSV and GGA (9600 baud), and download GPS logged Data

- ▶ Water Activated Emergency Strobe Light

- ▶ Supplied with a 7.4 V 1800 mAh Li-Ion battery

- ◀ **Supplied Accessories:**
CAT460 Antenna, SBR-13LI 7.4V 1800mAh Li-Ion Battery Pack, SBH-12 Charger Cradle, SAD-18 Wall Charger, E-DC-19A DC Cable with Cigarette Lighter Plug, SBT-13 Alkaline Battery Case, CLIP-22 Belt Clip, YS-05-01 Hand Strap and T9101606 USB Cable

Overall Dimensions: 2.44"W x 5.43"H x 1.69"D (62W x 138H x 43D mm)
Weight: 11.36 oz (322 g) (w/SBR-13LI, Hand Strap, Belt Clip & Antenna)

HX870 ITU CLASS D

FLOATING 6 WATT CLASS D HANDHELD VHF WITH GPS



- Meets ITU-R M.493-13 Class D DSC (Digital Selective Calling)
- Built in Dedicated channel 70 receiver for class D DSC
- Easy to operate icon driven menu system
- Selectable 6, 2 and 1 Watt transmit power output
- Navigate to a DSC Distress Call with Compass Page
- GM (Group Monitor) using DSC Group Position Call
- DSC Test Call and Auto DSC Channel Change Selection

- Automatically poll the GPS position of ships using DSC
- Enter, Save, and Navigate to a waypoint with Compass Page
- MOB (Man Overboard) Function
- Navigation (LAT/LON, SOG, and COG) information shown on display
- All USA, International and Canadian Marine Channels
- Programmable Scan, Priority Scan, and Dual and Triple Watch
- Preset key used to recall up to 10 favorite channels



HX300

COMPACT FLOATING HANDHELD VHF

◀ **Supplied Accessories:**
CAT460 Antenna, FNB-122LI 3.7 V 1560 mAh Li-Ion Battery Pack, SAD-17 USB Wall Charger, SDD-14 USB DC Charger with Cigarette Lighter Plug, T9101606 USB Cable, CLIP-22 Belt Clip and Hand Strap

Overall Dimensions: 2.32"W x 5.04"H x 1.3"D (59W x 128H x 33D mm)
Weight: 8.4 oz (240 g) (w/FNB-122LI, Belt Clip & Antenna)

SUBMERSIBLE
 FLOATING
 LOUD AUDIO
 NOAA WEATHER CHANNELS / ALERT
 16 / 9
 E 20 Easy To Operate
 IPX8 1.5 m for 30 min Submersible
 3.7V Battery technology
 USB Charger included

- Submersible IPX8 (5 Ft or 1.5 m for 30 minutes)
- Selectable 5 and 1 Watt transmit power output
- Unique USB charging system
- Water enabled light, when dropped into the water
- Preset key (Maximum 10 channels)
- 600 mW loud internal speaker audio
- Programmable Scan, Priority Scan, Dual Watch and Triple Watch



HX290

FLOATING 5 WATT HANDHELD VHF

◀ **Supplied Accessories:**
CAT460 Antenna, FNB-110LI 7.4 V 1170 mAh Li-Ion Battery Pack, CD-52 Charger Cradle, PA-48 or SAD-18 AC Wall Charger, E-DC-19A DC Cable with Cigarette Lighter Plug, CLIP-22 Belt Clip and Hand Strap

Overall Dimensions: 2.2"W x 5.2"H x 1.7"D (57W x 133H x 44D mm)
Weight: 10.9 oz (310 g) (w/FNB-110LI, Belt Clip & Antenna)

SUBMERSIBLE
 FLOATING
 LOUD AUDIO 700mW
 NOAA WEATHER CHANNELS / ALERT
 16 / 9
 E 20 Easy To Operate
 IPX8 1.5 m for 30 min Submersible
 OPTIONAL MIC HEADSET
 AC and DC Charger included

- Submersible IPX8 (5 Ft or 1.5 m for 30 minutes)
- Glow-In-The-Dark strip
- Selectable 5 and 1 Watt transmit power output
- Optional Speaker microphone or Headset capable
- Programmable Scan, Priority Scan and Dual Watch
- Preset key used to recall up to 10 favorite channels

"The HX290 is just what we'd expect of an entry-level Standard Horizon radio. Performance, waterproof rating, and the ability to float make this our Budget Buy." Practical Sailor



HX150

FLOATING 5 WATT HANDHELD VHF

◀ **Supplied Accessories:**
FNB-124LI 7.4 V 1030 mAh Li-Ion Battery Pack, PA-48 or SAD-18 AC Wall Charger, CD-57 Charging Cradle and CLIP-24 Belt Clip

Overall Dimensions: 2.4"W x 5.3"H x 1.5"D (62W x 135H x 38.5D mm)
Weight: 8.3 oz (235 g) (w/FNB-124LI, Belt Clip & Antenna)

SUBMERSIBLE
 FLOATING
 LOUD AUDIO
 NOAA WEATHER CHANNELS / ALERT
 16 / 9
 E 20 Easy To Operate
 IPX7 1 m for 30 min Submersible

- Submersible IPX7 (3.3 Ft or 1 m for 30 minutes)
- Slim, form fitting case design
- 10 hours of battery life
- Selectable 5 and 1 Watt transmit power output
- 500 mW loud internal speaker audio
- Programmable Scan, Priority Scan and Dual Watch



HX100

FLOATING 2.5 WATT HANDHELD VHF TWIN-PACK

◀ **Supplied Accessories:**
FNB-125 4.8 V 700 mAh Ni-MH Battery Pack (QTY 2), PA-48 or SAD-18 AC Wall Charger, CD-56 Twin Charging Cradle (for HX100) and CLIP-24 Belt Clip (QTY 2)

Overall Dimensions: 2.4"W x 5.3"H x 1.5"D (62W x 135H x 38.5D mm)
Weight: 8.6 oz (245 g) (w/FNB-125, Belt Clip & Antenna)

SUBMERSIBLE
 FLOATING
 LOUD AUDIO
 NOAA WEATHER CHANNELS / ALERT
 16 / 9
 E 20 Easy To Operate
 IPX7 1 m for 30 min Submersible

- Two Transceivers included
- Submersible IPX7 (3.3 Ft or 1 m for 30 minutes)
- Slim, form fitting case design
- More than 7.5 hours of battery life
- Selectable 2.5 and 1 Watt transmit power output
- 500 mW loud internal speaker audio
- Programmable Scan, Priority Scan and Dual Watch



Handheld VHF Radio Accessories

Model	Antenna		Battery			Battery Charger		
	CAT460 VHF Marine Antenna	CN-3 BNC-SMA Adapter	Rechargeable	Alkaline Battery tray	Cradle	AC Adapter	DC Adapter	
HX870	• (Included)	•	SBR-13LI 1800 mAh Li-Ion (Included)	SBT-13 (5 x AAA)	SBH-12 (Included)	SAD-18B*1 (Included)	E-DC-19A/E-DC-6	
HX300	• (Included)	•	FNB-122LI 1560 mAh Li-Ion (Included)	FBA-44 (3 x AAA)	CD-52 (Included)	SAD-17B/C*1 (Included)	SDD-14 (USB)	
HX290	• (Included)	•	FNB-110LI 1170 mAh Li-Ion (Included)	FBA-42 (6 x AA)	CD-57 (Included)	SAD-18B/PA-48C*1 (Included)	E-DC-19A/E-DC-6	
HX150			FNB-124LI 1030mAh Li-Ion (Included)		CD-56 (Included)	SAD-18B/PA-48C*1 (Included)	E-DC-19A/E-DC-6	
HX100			FNB-125 700mAh Ni-MH (Included)			SAD-18B/PA-48C*1 (Included)	E-DC-19A/E-DC-6	
Model	Belt clip		Speaker Microphone / Vox Headset / Earpiece Microphone					
	CLIP-22	CLIP-24	SSM-14A Submersible speaker microphone with earphone jack	MH-57A4B Speaker microphone	MH-73A4B Submersible speaker microphone	CMP460 Submersible speaker microphone	SEP-10A Earphone for SSM-14A	SSM-64A Vox Headset
HX870	• (Included)		•	•	•	•	•	•
HX300	• (Included)		•	•	•	•	•	•
HX290	• (Included)		•	•	•	•	•	•
HX150	• (Included)		•	•	•	•	•	•
HX100	• (Included)		•	•	•	•	•	•



Commercial Grade Marine VHF/UHF

BUILT BY PROFESSIONALS FOR PROFESSIONALS



- ▶ Built-in True Noise Cancelling Microphone
- ▶ Supplied with a 7.4 V 2300 mAh Li-Ion battery
- ▶ 16/9 key
- ▶ Preset key used to recall up to 10 favorite channels
- ▶ 700 mW Loud Audio Output
- ▶ Programmable Scan, Priority Scan and Dual Watch
- ▶ NOAA Weather channels and Weather Alert

HX400

COMMERCIAL GRADE VHF WITH LMR CHANNELS

◀ **Supplied Accessories:**

CAT460 Antenna, FNB-115LI 7.4 V 2300 mAh Li-Ion Battery Pack, CD-50 Charger Cradle, PA-45 Wall Charger, E-DC-30 DC Cable with Cigarette Lighter Plug, CLIP-22 Belt Clip and Hand Strap

Overall Dimensions: 2.24"W x 5.24"H x 1.57"D (57W x 133H x 40D mm)
Weight: 12.3 oz (350 g) (w/FNB-115LI, Belt Clip & Antenna)



- Selectable 5 and 1 Watt transmit power output
- Built-in True Noise Cancelling Microphone
- 40 Programmable Land Mobile Channels 134 MHz to 174 MHz with CTCSS and DCS signaling
- Programmable channel names
- Built-in Voice Scrambler for private communications
- Preset key used to recall up to 10 favorite channels




NEW FOR 2016
HX407
COMMERCIAL GRADE UHF

◀ **Supplied Accessories:**
SRA-14 Antenna, FNB-115LI 7.4 V 2300 mAh Li-Ion Battery Pack, CD-50 Charger Cradle, PA-45 Wall Charger, E-DC-30 DC Cable with Cigarette Lighter Plug, CLIP-22 Belt Clip and Hand Strap

Overall Dimensions: 2.24"W x 5.24"H x 1.57"D (57W x 133H x 40D mm)
Weight: 12.3 oz (350 g) (w/FNB-115LI, Belt Clip & Antenna)



- Selectable 5 and 1 Watt transmit power output
- Noise canceling function for transmit and receive audio
- Programmable channel names
- 40 Programmable UHF Channels 400 MHz to 470 MHz
- Voice Scrambler and Audio Tone Control



HX400IS
INTRINSICALLY SAFE

◀ **Supplied Accessories:**
CAT460 Antenna, FNB-115LIIS 7.4 V 2300 mAh Li-Ion Battery Pack, CD-50 Charger Cradle, PA-45 Wall Charger, CLIP-22 Belt Clip and Hand Strap

Overall Dimensions: 2.24"W x 5.24"H x 1.57"D (57W x 133H x 40D mm)
Weight: 12.3 oz (350 g) (w/FNB-115LIIS, Belt Clip & Antenna)



- Certified Intrinsically Safe
- Selectable 5 and 1 Watt transmit power output
- Built-in True Noise Cancelling Microphone and optional SSM-14A and CMP460 speaker microphones meet the ANSI/UL 913-5th Ed.
- 40 Programmable Land Mobile Channels 134 MHz to 174 MHz with CTCSS and DCS signaling
- Programmable channel names
- Scrambler for private communications

INTRINSICALLY SAFE INFORMATION:
The HX400IS, FNB-115LIIS Li-Ion battery pack and optional SSM-14A and CMP460 speaker microphones meet the ANSI/UL 913-5th Ed.

Requirements for: Class I:
Flammable Gases, Vapors, or Liquids Div. 1
Group C (Ethylene) Group D (Propane)
Class II: Combustible Dusts Div. 1
Group E (Metals) Group F (Coal) Group G (Grain)
Class III: Ignitable Fibers and flyings



NEW FOR 2016
HX380
COMMERCIAL VHF WITH LMR CHANNELS

◀ **Supplied Accessories:**
CAT460 Antenna, FNB-V105LI 7.4 V 1600 mAh Li-Ion Battery Pack, CD-48 Charger Cradle, PA-48 Wall Charger, E-DC-19A DC Cable with Cigarette Lighter Plug and CLIP-920 Belt Clip

Overall Dimensions: 2.2"W x 5.2"H x 1.3"D (57W x 133H x 33D mm)
Weight: 11.3 oz (320 g) (w/FNB-105LI, Belt Clip & Antenna)



- Selectable 5 and 1 Watt transmit power output
- 40 Programmable Land Mobile Channels 134 MHz to 174 MHz with CTCSS and DCS signaling
- More than 13 hours of battery life
- Preset key used to recall up to 10 favorite channels



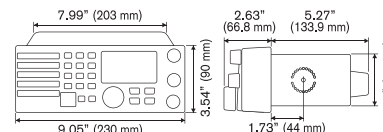
Fixed Mount VHF Radio **GX5500S** *QUANTUM* **ITU CLASS D**

FIXED MOUNT DSC VHF WITH ALPHANUMERIC KEYPAD, 30 W PA/FOG-RAM3+ COMPATIBLE

◀ **Supplied Accessories:** Hand Microphone, Power Cord and Mounting Bracket



- 80 dB Commercial grade receiver
- Bluetooth® capable headset (Requires optional: BU-2)
- Direct keypad entry of channels
- 30 Watt PA, FOG, Bells and Whistles with listen back
- Capable of connecting two optional RAM3+ second station remote access microphones
- Front panel microphone can be removed to rear panel and extended to 20 feet using MEK-4
- Audio tone control



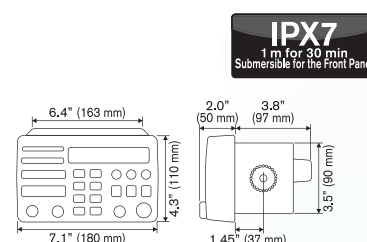
Loud Hailer **VLH-3000**

30 W DUAL ZONE LOUD HAILER

◀ **Supplied Accessories:** Mounting Bracket, Power Cord and Dust Cover



- 30 Watt PA output
- Forward and aft dual zone hailer with listen back
- Bells & whistles and 4 fog signals
- Noise canceling microphone
- Easy push button control
- Loud internal speaker audio
- Dual zone intercom capability with connection of up to 2 optional MLS-300i intercom speakers



Handheld VHF/UHF Radio Accessories

Model	Antenna			Battery		Battery Charger			SAD-1460 6 Unit Multi Charger
	CAT460 VHF Marine Antenna	SRA-14G/H/J ² UHF Marine Antenna	CN-3 BNC-SMA Adapter	Rechargeable	Alkaline Battery tray	Cradle	AC Adapter	DC Adapter	
HX400	• (Included)		•	FNB-115LJ 2300 mAh Li-Ion (Included)	FBA-42 (6 x AA)	CD-50 (Included)	PA-45B/C ³ (Included)	E-DC-30	•
HX400IS ¹	• (Included)		•	FNB-115LJIS ¹ Intrinsically Safe 2300 mAh Li-Ion (Included)	FBA-42 (6 x AA)	CD-50 (Included)	PA-45B/C ³ (Included)	E-DC-30	•
HX407		• (Included)	•	FNB-115LJ 2300 mAh Li-Ion (Included)	FBA-42 (6 x AA)	CD-50 (Included)	PA-45B/C ³ (Included)	E-DC-30	•
HX380	• (Included)		•	FNB-V106LJ 1600mAh Li-Ion (Included)	FBA-40 (6 x AA)	CD-48 (Included)	SAD-18B/PA-48C ³ (Included)	E-DC-19A/E-DC-6	•
Model	Speaker Microphone / Vox Headset / Earpiece Microphone						Belt clip		Case
	SSM-14A Submersible speaker microphone with earphone jack ¹	CMP460 Submersible speaker microphone ¹	MH-57A4B Speaker microphone	MH-73A4B Submersible speaker microphone	SEP-10A Earphone for SSM-14A	SSM-64A Vox Headset	SSM-55A Earpiece/microphone		Leather Case and Nylon Case LCC-530S: Leather case SHC-18: Leather Case w / belt loop and shoulder strap SHC-19: Leather Case w / swivel SHC-20: Nylon Case
HX400	•	•	•	•	•	•	•	CLIP-22 (Included)	•
HX400IS ¹	•	•	•	•	•	•	•	CLIP-22 (Included)	•
HX407	•	•	•	•	•	•	•	CLIP-22 (Included)	•
HX380	•	•	•	•	•	•	•	CLIP-920 (Included)	•

Fixed Mount VHF Radio and Loud Hailer Accessories

Model	Microphone / Cable			External GPS Antenna		Bracket
	CMP31 RAM3+ Remote station microphone	BU-2 Bluetooth® Adapter Unit	CT-100 23-foot extension cable for CMP31	MEK-4 Microphone Extension Kit (20')	Q7000619A External GPS antenna with 30 Ft of cable	Flush mount bracket
GX5500S	•	•	•	•	•	MMB-84
VLH-3000	•	•	•	•	•	MMB-84
Model	External Speaker			Hail / PA Speaker		Encryption
	MLS-300 External Speaker	MLS-300i Loud Hailer Intercom Speaker (with CALL button)	MLS-310 External Speaker with 10 W amplifier	220SW 114 mm Round PA/hailing horn	240SW 127 x 203 mm Rectangular PA/hailing horn	CVS2500A Voice scrambler
GX5500S	•	•	•	•	•	•
VLH-3000	•	•	•	•	•	•

Fixed Mount VHF and Loud Hailer Specifications

Fixed Mount VHF Radios

MODEL	GX5500S	GX2200/GX2000	GX1700/GX1600	GX1300
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: 0.5 A Receiver: 1.5 A Transmit: 5.0 A (Hi), 1.5 A (Lo)	Standby: 0.55 A / 0.45 A Receiver: 0.9 / 0.8 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	9.1"W x 3.5"H x 5.9"D (230W x 90H x 150D mm)	7.1"W x 3.1"H x 6.3"D (180W x 80H x 160D mm)	5.9"W x 3.4"H x 3.5"D (150W x 85H x 90D mm)	6.1"W x 2.36"H x 5.91"D (155W x 60H x 150D mm)
Flush-Mount Dimensions	8.1"W x 2.8"H x 5.1"D (205W x 72H x 130D mm)	6.3"W x 2.6"H x 5.9"D (161W x 65H x 150D mm)	5.4"W x 2.8"H x 3.5"D (137W x 72H x 90D mm)	5.15"W x 2.0"H x 5.51"D (131W x 51H x 140D mm)
Weight	3.2 lbs (1.5 kg)	3.2 / 3.1 lbs (1.45 / 1.4 kg)	2.0 lbs (0.9 kg)	1.91 lbs (870 g)
PA/FOG Power Output	30 W with listen back	30 W with listen back / 30 W no 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	80 dB (Hi), 66 dB (Lo)	Less than -80 dBc (Hi), -66 dBc (Lo)	Less than -80 dBc (Hi), -66 dBc (Lo)	80 dB (Hi), 66 dB (Lo)
Frequency Stability	±5 ppm (-4° F to +140° F)	±3 ppm (-4° F to +140° F)	±3 ppm (-4° F to +140° F)	±3 ppm (-4° F to +122° F)
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	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	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	4.5 W	4.5 W	4.5W	4.5W
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
RECEIVER (for AIS)				
Sensitivity	—	0.5 µV ¹	—	—
Selectivity	—	Spurious and Image Rejection 70 dB ¹ Intermodulation and Rejection 70 dB ¹	—	—
NMEA Input/Output				
NMEA-0183	Input: GLL, GGA, RMC and GNS (4800 bps) Output: DSC and DSE (4800 bps)	Input: GLL, GGA, GNS, RMC, GSA*1 and GSV*1 (4800 or 38400*1 bps) Output: DSC, DSE (4800 or 38400*1 bps)	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 (38400 bps)	—	—

¹ GX2200 only

Loud Hailer

MODEL	VLH-3000
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	—
EXT SPK Output	4 W (at 4 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	300mA
Operating temperature	-4° F to +131° F
Storage temperature	-22° F to +158° F
Water integrity performance	IPX7 (3 ft for 30 min) for the front panel
Overall Dimensions	7.1"W x 4.3"H x 5.5"D (180W x 110H x 140D mm)
Flush mount dimensions	6.5"W x 3.6"H x 4.5"D (165W x 92H x 115D mm)
Weight	3 lbs (1.4 kg)
MODEL	
GX2200/GX1700 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	HX870	HX400/HX400IS	HX407	HX380	HX300	HX290	HX150/HX100	
GENERAL								
Frequency Range	Marine Band: 156.025 - 163.275 MHz	Marine Band: 156.025 - 163.275 MHz LMR Band: 134 - 174 MHz	UHF Band: 400 - 470 MHz	Marine Band: 156.025 - 163.275 MHz LMR Band: 134 - 174 MHz	Marine Band: 156.025 - 163.275 MHz	Marine Band: 156.025 - 163.275 MHz	Marine Band: 156.025 - 163.275 MHz	
Battery type / Capacity	Li-Ion 1800 mAh	Li-Ion 2300 mAh	Li-Ion 2300 mAh	Li-Ion 1600 mAh	Li-Ion 1560 mAh	Li-Ion 1170 mAh	Li-Ion 1030 mAh / Ni-MH 700 mAh	
Input Voltage	7.4 VDC	7.4 VDC	7.4 VDC	7.4 VDC	3.7 VDC	7.4 VDC	7.4 VDC / 4.8 VDC	
Current Drain	Standby: 100 mA (GPS On), 60 mA (GPS Off) Receiver: 300 mA (MAX AF Output) Transmit: 1.6 A / 1.0 A / 0.7 A (6 W / 2 W / 1 W)	Standby: 50 mA Receiver: 320 mA (MAX AF Output) Transmit: 1.6 A / 0.8 A (5 W / 1 W)	Standby: 70 mA Receiver: 320 mA (MAX AF Output) Transmit: 1.6 A / 0.8 A (5 W / 1 W)	Standby: 50 mA Receiver: 320 mA (MAX AF Output) Transmit: 1.6 A / 0.8 A (5 W / 1 W)	Standby: 20 mA Receiver: 330 mA (Typical at MAX AF Output) Transmit: 2.3 A / 0.9 A (5 W / 1 W)	Standby: 50 mA Receiver: 320 mA (MAX AF Output) Transmit: 1.6 A / 0.7 A (5 W / 1 W)	Standby: 15 mA Receiver: 300 mA (MAX AF Output) Transmit: HX150: 1.5 A / 0.8 A (5 W / 1 W) HX100: 1.1 A / 0.8 A (2.5 W / 1 W)	Standby: 15 mA Receiver: 300 mA (MAX AF Output) Transmit: HX150: 1.5 A / 0.8 A (5 W / 1 W) HX100: 1.1 A / 0.8 A (2.5 W / 1 W)
Overall Dimensions	2.44"W x 5.43"H x 1.69"D (62 W x 138H x 43D mm)	2.24"W x 5.24"H x 1.57"D (57W x 133H x 40D mm)	2.24"W x 5.24"H x 1.57"D (57W x 133H x 40D mm)	2.24"W x 5.24"H x 1.3"D (57W x 133H x 33D mm)	2.32"W x 5.04"H x 1.3"D (59W x 128H x 33D mm)	2.2"W x 5.2"H x 1.7"D (57W x 133H x 44D mm)	2.4"W x 5.8"H x 1.5"D (62W x 135H x 38.5D mm)	
Weight	11.36 oz (322 g) (w/SBR-13LI, Hand Strap, Belt Clip & Antenna)	12.3 oz (350 g) (w/FNB-115LI or FNB-115LIIS Belt Clip & Antenna)	12.3 oz (350 g) (w/FNB-115LI, Belt Clip & Antenna)	11.3 oz (320 g) (w/FNB-V105LI, Belt Clip & Antenna)	8.4 oz (240 g) (w/FNB-110LI, Belt Clip & Antenna)	10.9 oz (310 g) (w/FNB-110LI, Belt Clip & Antenna)	HX150: 8.3 oz (235 g) HX100: 8.6 oz (245 g) (w/FNB-125, Belt Clip & Antenna)	
TRANSMITTER								
RF Output	6 W / 2 W / 1 W (@7.4 V)	5 W / 1 W (@7.4 V)	5 W / 1 W (@7.4 V)	5 W / 1 W (@7.4 V)	5 W / 1 W (@3.7 V)	5 W / 1 W (@7.4 V)	HX150: 5 W / 1 W (@7.4 V) HX100: 2.5 W / 1 W (@4.8 V)	
Conducted Spurious Emissions	-75 dBc Typical	At least -36 dBm below	-75 dBc Typical	At least -36 dBm below	-75 dBc Typical	-75 dBc Typical	-60 dBc Typical	
Frequency Stability	±3 ppm (-4° F to +140° F)	±2.5 ppm (-22° F to +140° F)	±2.5 ppm (-22° F to +140° F)	±2.5 ppm (-22° F to +140° F)	±5 ppm (-4° F to +140° F)	±10 ppm (-4° F to +140° F)	±5 ppm (-4° F to +140° F)	
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	0.3 µV	
Selectivity	70 dB Typical	80 dB (25 kHz) / 70 dB (12.5 kHz)	80 dB (25 kHz) / 70 dB (12.5 kHz)	70 dB (25 kHz) / 60 dB (12.5 kHz)	70 dB Typical	70 dB Typical	65 dB Typical	
Audio Output	700 mW	700 mW	700 mW	700 mW	600 mW	700 mW	500 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	—	—	—	—	—	—	

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2015. 1212CC(USA) B9200751 Printed in Japan



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