

# ***STANDARD HORIZON***

*Nothing takes to water like Standard Horizon*




## ***MARINE COMMUNICATIONS PRODUCT CATALOG 2019***



# Fixed Mount VHF Radios

POWER, PERFORMANCE, RELIABILITY

## ADVANCED FEATURES

- Integrated 66 Channel GPS antenna (GX2200 only) 
- BUILT-IN AIS** (GX2200 only)  
Integrated dual channel AIS (Automatic Identification System) receiver Built-in
- AIS/AIS SART target display:**  
MMSI, Call Sign, Ship Name, BRG, DST, SOG and COG



- Clear Voice**  
Noise canceling speaker microphone with channel selection and 16/9 keys
- Second station Capability**  
Second Station Remote Microphone (Optional RAM3+ CMP31)
- 80dB Commercial grade receiver**



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

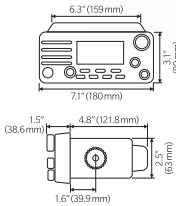
## GX2200



**MATRIX AIS/GPS BUILT-IN AIS GPS ITUCLASS D**

Supplied Accessories:  
Power Cord and Mounting Bracket

Body color: ● Black ○ White  
Available in Black or White



FIXED MOUNT DSC VHF WITH AIS INPUT,  
30W PA/FOG, RAM3+ COMPATIBLE

## GX2000

**MATRIX ITUCLASS D**

Supplied Accessories:  
Power Cord and Mounting Bracket

Body color: ● Black



- Meets ITU-R M.493-13 Class D (Digital Selective Calling)
- Separate Receiver for CH70 (Receiving DSC Calls)
- NMEA 0183 Connectivity
- E20 (Easy to Operate) Menu System
- Preset key stores up to 10 favorite channels
- Intercom Feature between the Radio and Optional Second station
- Programmable Scan, Priority Scan, and Multi Watch
- DSC position request and report functions
- GPS Compass, Waypoint and GPS status pages\*2
- Navigate to waypoints that are Entered & Saved on the Compass page\*2
- Navigation (LAT/LON, Time, SOG and COG) information is shown on display\*2
- Contact Class A or Class B AIS equipped vessels with DSC\*3
- Programmable CPA (Closest Point of Approach) or TCPA (Time to Closest Point of Approach) collision avoidance alarms\*2
- 4800 or 38400 NMEA 0183 baud rate selection, for plotters with 1 NMEA port
- Local/Distance receiver Attenuator
- Oversized rotary channel knob with push to enter, backlit display and key buttons
- 30 Watt PA/Loud Hailer with programmed fog signals and listen back\*4
- Voice Scrambler (optional)
- NOAA Weather Channels with Weather Alert

## Icon Function List

<b>Radio Specifications</b>	FLOATING	SUBMERSIBLE	SUBMERSIBLE	6W Transmit Power	LOUD AUDIO	LOUD AUDIO	80 dB RECEIVER	LAND MOBILE CHANNELS	3.7V Battery technology	AVAILABLE IN BLACK OR WHITE	<b>3 Year WARRANTY</b>		
<b>Usability</b>	E20 Easy To Operate	16/9	16/5	LARGE DISPLAY	Li-Ion Battery Included	Ni-MH Battery Included	AC and DC Charger Included	USB Charger Included	Connectivity	SECOND STATION	OPTIONAL MIC / HEADSET	LOUD HAILER	
<b>Features</b>	CLASS D	CLASS H	DSC DISTRESS and POS Polling	GM Group Monitor	GPS COMPASS	WAYPOINT NAV	GPS	AIS	Broadcast Radio Receiver	FM TONE CONTROL	MOB Man Overboard	STROBE LIGHT	NOAA WEATHER CHANNELS / ALERT



**NEW** for 2019 **EXPLORER Series**

FIXED MOUNT MARINE VHF COMPATIBLE WITH NMEA 2000

**GX1850GPS**  

**GPS** **NMEA2000** **ITUCLASSD**

**GX1850** 

**NMEA2000** **ITUCLASSD**

FIXED MOUNT MARINE VHF

**GX1800GPS** 

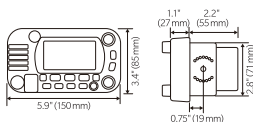
**GPS** **ITUCLASSD**

**GX1800**

**ITUCLASSD**

► Supplied Accessories:  
Power Cord and Mounting Bracket

Body color: ● Black ○ White  
Available in Black or White



- Meets ITU-R M.493-13 Class D DSC (Digital Selective Calling)
- Separate Receiver for CH70 (Receiving DSC Calls)
- Ultra-slim and compact Rear case design (D=3.3", 82mm)
- Built-in Integrated 66 Channel GPS receiver (GX1850GPS/GX1800GPS)
- NMEA2000 Compatible (GX1850GPS/GX1850)
- NMEA 0183 Connectivity • E2O (Easy to Operate) Icon & Menu System
- Preset key stores up to 10 favorite channels
- Second Station Remote Microphone (Optional RAM4 SSM-70H)
- Intercom Feature between the Radio and an Optional Second Station

Optional RAM4  
Second Station



**IPX8**  
Submersible  
1.5m for 30min

**3 Year**  
WARRANTY

 SUBMERSIBLE	 AVAILABLE IN BLACK OR WHITE	 E2O Easy To Operate	 16/S	 LARGE DISPLAY	 SECOND STATION	 CLASS D
 DSC DISTRESS and POS Polling	 GM Group Monitor	 GPS COMPASS	 WAYPOINT NAV	 GPS	 NOAA WEATHER CHANNELS/ALERT	 MOB Man Overboard

- Programmable Scan, Priority Scan, and Multi Watch
- Automatic DSC polling of up to 6 ships GPS positions
- GPS Compass, Waypoint and GPS status pages\*5
- Enter, Save, and Navigate to a waypoint using the Compass page\*5
- Navigation (LAT/LON, SOG, and COG) information shown on display\*5
- GM (Group Monitor) Using DSC Group position Calling
- MOB (Man over Board) Operation • Selectable Night Mode Display
- Noise canceling microphone with channel change selection, 16/S and H/L keys
- NOAA Weather channels with weather Alert

**NEW** for 2019 **ECLIPSE Series**

FIXED MOUNT MARINE VHF WITH GPS

**GX1400GPS** 

**GPS** **ITUCLASSD**

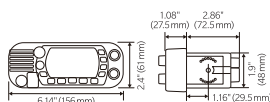
FIXED MOUNT MARINE VHF

**GX1400**

**ITUCLASSD**

► Supplied Accessories:  
Power Cord and Mounting Bracket

Body color: ● Black ○ White  
Available in Black or White



- Meets ITU-R M.493-13 Class D DSC (Digital Selective Calling)
- Separate Receiver for CH70 (Receiving DSC Calls)
- Ultra-Compact Case design (6.14"W×2.4"H×3.94"D, 156mm×61mm×100mm)
- Built-in Integrated 66 Channel GPS receiver (GX1400GPS)
- NMEA 0183 Connectivity
- E2O (Easy to Operate) Icon & Menu System
- Preset key used to recall up 10 favorite channels



**IPX8**  
Submersible  
1.5m for 30min

**3 Year**  
WARRANTY

 SUBMERSIBLE	 AVAILABLE IN BLACK OR WHITE	 E2O Easy To Operate	 16/S	 LARGE DISPLAY	 CLASS D
 DSC DISTRESS and POS Polling	 GPS	 NOAA WEATHER CHANNELS/ALERT			

- Programmable Scan, Priority Scan, and Multi Watch
- Automatic DSC polling of up to 6 ships GPS positions
- DSC test call and Auto DSC channel change selection
- NMEA Input and Output Connections to a Compatible GPS Chart Plotter
- Programmable soft keys
- Noise canceling microphone (with channel Up/Down, 16/S and H/L power selection keys)
- NOAA weather channels with weather Alert

**Fixed Mount VHF Radio Accessories**

Model	Microphone / Cable	External GPS Antenna	Encryption	Cover	External Speaker	Hail / PA Speaker	Bracket
	<b>SSM-70H</b> Remote Access Microphone RAM4	<b>CT-100</b> 23ft (7m) extension cable for SSM-70H/CMP31	<b>CVS2500A</b> Voice scrambler	Dust Cover	<b>MLS-300</b> External Speaker	<b>220SW</b> 4.5" (114mm) Round PA/hailing horn 30W 4 Ohm	Flush mount bracket
	<b>CMP31B/CMP31W</b> Remote station microphone (Black/White) RAM3	<b>SCU-38</b> External GPS antenna with 16ft (5m) of cable			<b>MLS-310</b> External Speaker with 10W amplifier	<b>240SW</b> 5" x 8" (127mm x 203mm) Rectangular PA/hailing horn 40W 4 Ohm	
		<b>SCU-31</b> External GPS antenna with 49ft (15m) of cable					
GX2200				HC2000			MMB-84
GX2000				HC2000			MMB-84
GX1850GPS				HC1600			MMB-97
GX1850				HC1600			MMB-97
GX1800GPS				HC1600			MMB-97
GX1800				HC1600			MMB-97
GX1400GPS				HC1100			MMB-84
GX1400				HC1100			MMB-84

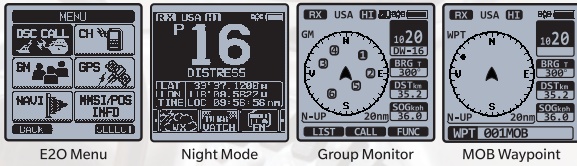
\*1 GX2200 only \*2 GX2000 requires connection to external GPS device \*3 GX2000 requires connection to external AIS receiver \*4 Listen-back feature: only for GX2200 \*5 GX1850/GX1800 requires connection to external GPS device \*6 GX1850GPS/ GX1800GPS only \*7 GX1400GPS only

# Floating Handheld VHF Radios

Ergonomic Design with the Most Advanced Features  
Leading with Class H DSC & GPS Marine Communications

## ADVANCED FEATURES

- Built-in Integrated 66 Channel GPS receiver 
- Rounded Case design provides excellent handheld comfort and easy front panel operation
- Professional grade construction meets MIL-STD-810F 
- ITU-R M.493-14 Class-H DSC (Digital Selective Calling) & Built-in dedicated CH70 DSC call receiver
- Oversized Full-dot Matrix Display & E2O (Easy to Operate) Icon/Menu System



- Noise Canceling function for both Receive and Transmission audio
- Supplied with 7.4V 1800mAh Li-ion battery
- Built in FM Broadcast Radio Receiver



Navy Blue

Solid Black

## CLASS-H DSC & GPS FLOATING 6W VHF

# HX890

### Supplied Accessories:

CAT460 Antenna, SBR-13LI 7.4V 1800mAh Li-ion Battery Pack, SBH-32 Charger Cradle, SAD-25 AC Adapter, E-DC-19A DC Cable with Cigarette Lighter Plug for SBH-32, SBT-13 Alkaline Battery Case (AAA x 5), CLIP-22 Belt Clip, Hand Strap and T9101648 USB Cable

Body color: ● Navy Blue ● Solid Black  
Available in Navy Blue or Solid Black

Overall Dimensions: 2.60" x 5.43" x 1.50" (66mm x 138mm x 38mm)  
Weight: 10.94oz (310g) (with: SBR-13LI, Hand Strap & Antenna)

- Floating
- Extended Range 6W Transmit Power Output (Selectable 6/2/1W)
- 700mW Loud Audio Output
- Preset key used to recall up to 10 favorite channels
- Scanning operation and Multi-Watch (Dual Watch and Triple Watch)
- CH16/S Quick Access (S: Sub-channel)
- 11 hours operating time with supplied Li-ion Battery
- NOAA Weather channel with weather Alert
- Selectable Night Mode Display
- GM (Group Monitor) using DSC Group position Calling



- DSC Test Calling and Auto DSC Channel Change Selection
- Automatically poll the GPS positions of vessels using DSC
- Equipped with DSC DISTRESS Alert Transmission button
- Navigation (LAT/LON, SOG, and COG) information shown on display
- Waypoint Navigation: Navigate to the stored locations using the compass screen
- Navigate to the location of a DSC Distress Call using the Compass Page
- MOB (Man over Board) Location and navigation System
- Water Activated Emergency Strobe Light
- Integrated Voice Scrambler Systems
- micro USB Data Port for NMEA 0183 sentence output, configuration of the transceiver settings and downloading GPS logger data

## Handheld VHF Radio Accessories

	Antenna / Adapter		Battery		Battery Charger			Belt clip	
Model	CAT460 VHF Marine Antenna	CN-3 BNC-SMA Adapter	Rechargeable	Alkaline Battery tray	Cradle	AC Adapter	DC Cable (with Cigarette Lighter Plug)	SDD-14 USB DC Charger with Cigarette Lighter Plug	
HX890	●*1	●	SBR-13LI 1800mAh Li-Ion*1	SBT-13 (5xAAA)*1	SBH-32*1	SAD-25*1	E-DC-19A*1	●*1	CLIP-22*1
HX40	●*1	●	1850mAh (Dealer replaceable)		SBH-27*1	SAD-25*1	E-DC-19A*1		SHB-19*1
HX210	●*1	●	1850mAh (Dealer replaceable)		SBH-25*1	SAD-25*1	E-DC-19A*1		CLIP-22*1
HX300	●*1	●	SBR-27LI 1800mAh Li-Ion*1	FBA-44 (3xAAA)		SAD-17*1			CLIP-22*1
HX100			FNB-125 700mAh Ni-MH*1		CD-56*1	SAD-18/PA-48*1,2	E-DC-19A		CLIP-24*1



ULTRA COMPACT VHF HANDHELD

# HX40

► Supplied Accessories:

CAT460 Antenna, SBH-27 Charger Cradle, SAD-25 AC Adapter, E-DC-19A DC Cable with Cigarette Lighter Plug, SHB-19 Belt Clip and Hand Strap

Overall Dimensions:  
2.05" x 3.74" x 1.3" (52mm x 95mm x 33mm)  
Weight:  
8.1oz (230g) (with: Hand Strap, Belt Clip & Antenna)



**IPX7** Submersible 1m for 30min

**FLOATING**

**3 Year WARRANTY**

\* When fitted into optional flotation case

**SUBMERSIBLE**

**6W** Transmit Power

**LOUD AUDIO**

**E 2 0** Easy To Operate

**16 / 5**

**Li-Polymer Battery** Built-in

**AC and DC Charger** Included

**OPTIONAL MIC / HEADSET**

**FM** Broadcast Radio Receiver

**NOAA WEATHER CHANNELS / ALERT**

- Floating (When fitted into optional flotation case)
- Ultra-Compact Case design (2.05"W x 3.74"H x 1.3"D, 52mm x 95mm x 33mm)
- 6W transmit power output (Selectable 6/2.5/1W)
- 600mW Loud Audio Output
- Preset key used to recall up to 10 favorite channels
- Easy to Operate Menu System
- Scanning operation and Multi-Watch (Dual Watch and Triple Watch)
- CH16/S Quick Access (S: Sub-channel)
- Built-in Lithium Polymer Battery Pack (7.4V, 1850mAh)
- NOAA Weather Channels with Weather Alert
- FM Broadcast Radio Receiver

COMPACT FLOATING VHF HANDHELD

# HX210

► Supplied Accessories:

CAT460 Antenna, SBH-25 Charger Cradle, SAD-25 AC Adapter, E-DC-19A DC Cable with Cigarette Lighter Plug, CLIP-22 Belt Clip and Hand Strap

Overall Dimensions:  
2.36" x 5.20" x 1.57" (60mm x 132mm x 40mm)  
Weight:  
9.88oz (280g) (with: Hand Strap, Belt Clip & Antenna)



**IPX7** Submersible 1m for 30min

**FLOATING**

**3 Year WARRANTY**

**SUBMERSIBLE**

**6W** Transmit Power

**LOUD AUDIO**

**E 2 0** Easy To Operate

**16 / 5**

**Li-Polymer Battery** Built-in

**AC and DC Charger** Included

**OPTIONAL MIC / HEADSET**

**FM** Broadcast Radio Receiver

**STROBE LIGHT**

**NOAA WEATHER CHANNELS / ALERT**

- Floating
- Compact Case design (2.36"W x 5.20"H x 1.57"D, 60mm x 132mm x 40mm)
- 6W transmit power output (Selectable 6/2.5/1W)
- 600mW Loud Audio Output
- Preset key used to recall up to 10 favorite channels
- Easy to Operate Menu System
- Scanning operation and Multi-Watch (Dual Watch and Triple Watch)
- CH16/S Quick Access (S: Sub-channel)
- Built-in Lithium Polymer Battery Pack (7.4V, 1850mAh)
- NOAA Weather Channels with Weather Alert
- FM Broadcast Radio Receiver
- Water activated light

COMPACT FLOATING VHF HANDHELD

# HX300

► Supplied Accessories:

CAT460 Antenna, SBR-27LI 3.7V 1800mAh Li-Ion Battery Pack, SAD-17 AC Adapter, SDD-14 USB DC Charger with Cigarette Lighter Plug, T9101606 USB Cable, CLIP-22 Belt Clip and Hand Strap

Overall Dimensions:  
2.32" x 5.04" x 1.3" (59mm x 128mm x 33mm)  
Weight:  
8.4oz (240g) (with: SBR-27LI, Belt Clip & Antenna)



**IPX8** Submersible 1.5m for 30min

**FLOATING**

**3 Year WARRANTY**

**SUBMERSIBLE**

**LOUD AUDIO**

**3.7V** Battery technology

**E 2 0** Easy To Operate

**16 / 9**

**Li-Ion Battery** Included

**AC and DC Charger** Included

**USB Charger** Included

**NOAA WEATHER CHANNELS / ALERT**

- Floating
- Compact Case design (2.32"W x 5.04"H x 1.3"D, 59mm x 128mm x 33mm)
- Selectable 5 and 1 Watt transmit power output
- 600mW Loud Audio Output
- Preset key used to recall up to 10 favorite channels
- Easy to Operate Menu System
- Scanning operation and Multi-Watch (Dual Watch and Triple Watch)
- CH16/9 Quick Access
- Supplied with 3.7V 1800mAh Li-Ion battery
- NOAA Weather Channels with Weather Alert
- Unique USB charging system
- Water activated light

FLOATING 2.5-WATT VHF HANDHELDS TWIN-PACK

# HX100

► Supplied Accessories:

FNB-125 4.8V 700mAh Ni-MH Battery Pack (QTY 2), PA-48 or SAD-18 AC Adapter, CD-56 Twin Charging Cradle and CLIP-24 Belt Clip (QTY 2)

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



**IPX7** Submersible 1m for 30min

**FLOATING**

**3 Year WARRANTY**

**SUBMERSIBLE**

**LOUD AUDIO**

**E 2 0** Easy To Operate

**16 / 9**

**Ni-MH Battery** Included

**NOAA WEATHER CHANNELS / ALERT**

- Floating
- Compact Case design (2.4"W x 5.3"H x 1.5"D, 62mm x 135mm x 38.5mm)
- Selectable 2.5 and 1 Watt transmit power output
- 500mW Loud Audio Output
- Preset key used to recall up to 10 favorite channels
- Easy to Operate Menu System
- Scanning operation and Multi-Watch (Dual Watch and Triple Watch)
- CH16/9 Quick Access
- Supplied with battery pack
- NOAA Weather Channels with Weather Alert
- Two HX100 transceivers included

	Case / Hanger		Speaker Microphone / Vox Headset / Earpiece Microphone						
Model	SHC-29 Flotation Case	SCH-11 Belt Clip Hanger	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	SSM-55A Earpiece/microphone
HX890	•	•	•	•	•	•	•	•	•
HX40		•	•	•	•	•	•	•	•
HX210		•	•	•	•	•	•	•	•
HX300		•	•	•	•	•	•	•	•
HX100		•	•	•	•	•	•	•	•



\*1 The same as the supplied accessory \*2 Depending on the radio version



# Commercial Grade Marine VHF

BUILT BY PROFESSIONALS FOR PROFESSIONALS

## ADVANCED FEATURES

- Integrated AIS (Automatic Identification System) Class B Transponder (GX6500 only) 
- Capable of connecting two wired RAM4 or one wired RAM4 and four wireless RAM4\*1 optional microphones
- Integrated NMEA 2000 interface supporting all PGNs for Navigation, GPS, AIS and DSC functions
- Integrated Dual Channel AIS Receiver 
- 66 Channel External GPS antenna included (GX6500 only)
- GPS Compass, Waypoint and GPS status pages
- Dual Zone 25W PA/Loud Hailer with preprogrammed fog signals and listen back
- Submersible IPX8 (5 feet or 1.5 meters for 30 minutes)
- Integrated 32 Code Voice Scrambler and 4 Code Voice Scrambler

\*1 Requires Optional Wireless Access Point SCU-30



Optional Wireless Remote Access Microphone (RAM4W SSM-71H)  
\* Requires optional Wireless Access point (SCU-30)

Optional Wireless Access point (SCU-30) with 49ft (15m) cable



## Fixed Mount VHF Radio

FIXED MOUNT VHF WITH NMEA 2000 AND INTEGRATED CLASS B AIS TRANSPONDER BUILT-IN

### NEW for 2019 **GX6500** QUANTUM Class B AIS/GPS



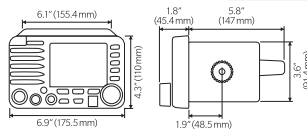
FIXED MOUNT VHF WITH NMEA 2000 AND INTEGRATED DUAL CHANNEL AIS RECEIVER

### **GX6000** QUANTUM AIS



- Supplied Accessories:  
Hand Microphone, Power Cord, Mounting Bracket and Hardware, External GPS Antenna SCU-31<sup>2</sup>, USB Cable

Body color: ● Black



- Meets ITU-R M493-13 Class D DSC (Digital Selective Calling)
- NMEA 2000 and NMEA 0183 compatible
- AIS/AIS SART target display: MMSI, Call Sign, Ship Name, BRG, DST, SOG and COG
- Front panel microphone can be connected to rear panel and extended 20 feet using MEK-4 mic extension kit
- E2O (Easy to Operate) menu system
- User customizable soft keys for easy menu operation
- Programmable CPA or TCPA collision avoidance alarms
- 80dB Commercial grade receiver
- Local/Distance receiver Attenuator
- Noise canceling for both transmit and receive audio
- Intercom Feature between the Radio, RAM4 and wireless RAM4W
- Integrated Voice Recorder to playback up to two minutes of RX (receive) audio
- Selectable 4800 or 38400 baud rate for plotters
- GM (Group Monitor) using DSC Group Position Call
- MOB (Man Overboard) GPS Location Function
- NOAA Weather channels with weather Alert

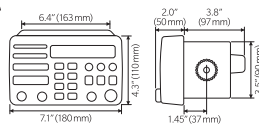
## Loud Hailer

30W DUAL ZONE LOUD HAILER

### **VLH-3000A**

- Supplied Accessories:  
Mounting Bracket, Power Cord and Dust Cover

Body color: ● Black



- PA/Hailer 30W output with Listen Back
- Dual Zone - Forward, Aft or Both
- 6 Preprogrammed Fog Signals: Underway, Stop, Sail, Tow, Anchor and Aground
- Horn and Siren
- Noise canceling microphone

- Easy push button control
- 2W Loud internal speaker audio Output
- Compatible with optional MLS-300i intercom speaker with IC1 and IC2 Push-to-Alert Button
- Adjustable Backlight





COMMERCIAL GRADE VHF WITH LMR CHANNELS

# HX400

**IPX8**  
Submersible  
1.5m for 30min

**3 Year**  
WARRANTY

SUBMERSIBLE  
LOUD AUDIO  
LAND MOBILE RADIO  
E20  
Easy To Operate  
16/9  
Li-Ion Battery Included  
AC and DC Charger Included

OPTIONAL MIC HEADSET  
NOAA WEATHER CHANNELS / ALERT

INTRINSICALLY SAFE  
**HX400IS**

INTRINSICALLY SAFE INFORMATION:  
The HX400IS, SBR-29LIIS 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 fillings

Supplied Accessories (HX400/HX400IS):

CAT460 Antenna, SBR-29LI (HX400) 7.4V 2550mAh/SBR-29LIIS (HX400IS) 7.4V 2550mAh Li-Ion Battery Pack, CD-50 Charger Cradle, PA-45 AC Adapter, E-DC-30 DC Cable with Cigarette Lighter Plug (HX400 only), CLIP-22 Belt Clip and Hand Strap

Overall Dimensions (HX400/HX400IS): 2.24" x 5.24" x 1.57" (57mm x 133mm x 40mm)  
Weight: 12.3oz (350g) (with: SBR-29LI (HX400)/SBR-29LIIS (HX400IS), Belt Clip & Antenna)



- Selectable 5 and 1 Watt transmit power output
- Marine VHF with 40 Programmable Land Mobile Channels 134MHz to 174MHz
- 700mW Loud Audio Output
- Supplied with 7.4V 2550mAh Li-Ion battery (HX400 only)
- Built-in Noise canceling microphone
- Voice Scrambler
- Scanning operation and Multi-Watch (Dual Watch and Triple Watch)
- Certified Intrinsically Safe (HX400IS only)
- Supplied with Intrinsically safe 7.4V 2550mAh Li-Ion battery (HX400IS only)

COMMERCIAL GRADE UHF

# HX407

Supplied Accessories:

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

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

**IPX8**  
Submersible  
1.5m for 30min

**3 Year**  
WARRANTY

SUBMERSIBLE  
LOUD AUDIO  
E20  
Easy To Operate  
Li-Ion Battery Included  
AC and DC Charger Included  
OPTIONAL MIC HEADSET



- Selectable 5 and 1 Watt transmit power output
- 32 Programmable Marine UHF Channels 406MHz to 470MHz
- 700mW Loud Audio Output
- Supplied with 7.4V 2300mAh Li-Ion battery
- Noise canceling function for transmit and receive audio
- Voice Scrambler
- Scanning operation and Dual Watch

COMMERCIAL VHF WITH LMR CHANNELS

# HX380

Supplied Accessories:

CAT460 Antenna, FNB-V105LI 7.4V 1600mAh Li-Ion Battery Pack, CD-48 Charger Cradle, SAD-25 AC Adapter, E-DC-19A<sup>2</sup> DC Cable with Cigarette Lighter Plug and CLIP-920 Belt Clip <sup>+2 US version only</sup>

Overall Dimensions: 2.24" x 5.24" x 1.3" (57mm x 133mm x 33mm)  
Weight: 11.3oz (320g) (with: FNB-V105LI, Belt Clip & Antenna)

**IPX7**  
Submersible  
1m for 30min

**3 Year**  
WARRANTY

SUBMERSIBLE  
LOUD AUDIO  
LAND MOBILE RADIO  
E20  
Easy To Operate  
16/9  
Li-Ion Battery Included  
AC and DC Charger Included

OPTIONAL MIC HEADSET  
NOAA WEATHER CHANNELS / ALERT



- Selectable 5 and 1 Watt transmit power output
- Marine VHF with 40 Programmable Land Mobile Channels 134MHz to 174MHz
- 700mW Loud Audio Output
- Supplied with 7.4V 1600mAh Li-Ion battery
- Scanning operation and Dual Watch

## Fixed Mount VHF Radio and Loud Hailer Accessories

	Microphone / Cable				Access Point / GPS Antenna		
<b>Model</b>	<b>SSM-70H</b> Remote Access Microphone RAM4	<b>SSM-71H</b> Wireless Remote Access Microphone RAM4W	<b>SDD-14</b> USB DC Charger with Cigarette Lighter Plug for SSM-71H	<b>CT-100</b> 23ft (7m) extension cable for SSM-70H	<b>MEK-4</b> Microphone Extension Kit 20ft (6m)	<b>SCU-30</b> Wireless Access Point for SSM-71H (RAM4W) 49ft (15m)	<b>SCU-31</b> External GPS Antenna with 49ft (15m) of Cable
GX6500/GX6000 VLH-3000A	•	•	•	•	•	•	• <sup>3</sup>
	Bracket		External Speaker		Hail / PA Speaker		
<b>Model</b>	<b>MMB-84</b> Flush Mount Bracket	<b>MLS-300</b> External Speaker	<b>MLS-310</b> External Speaker with 10W amplifier	<b>MLS-300i</b> Loud Hailer Intercom Speaker (with CALL button)	<b>220SW</b> 4.5" (114mm) Round PA/hailing horn 30W 4 Ohm	<b>240SW</b> 5" x 8" (127mm x 203mm) Rectangular PA/hailing horn 40W 4 Ohm	
GX6500/GX6000 VLH-3000A	•	•	•	•	•	•	

## Handheld VHF/UHF Radio Accessories

	Antenna / Adapter		Battery		Battery Charger			Speaker Microphone / Vox Headset / Earpiece Microphone		Belt clip / Hanger		Case
<b>Model</b>	<b>CAT460</b> VHF Marine Antenna	<b>SRA-14G/H/J<sup>16</sup></b> UHF Marine Antenna	<b>CN-3</b> BNC-SMA Adapter	<b>Rechargeable</b>	<b>Alkaline Battery tray</b>	<b>Cradle</b>	<b>AC Adapter</b>	<b>DC Cable</b> (w/ Cigarette Lighter Plug)	<b>SAD-1460</b> 6 Unit Multi Charger			
HX400	• <sup>5</sup>		•	FNB-29LI <sup>5</sup> 2550mAh Li-Ion	FBA-42 (6x AA)	CD-50 <sup>5</sup>	PA-45 <sup>5</sup>	E-DC-30 <sup>5</sup>	•			
HX400IS <sup>4</sup>	• <sup>5</sup>		•	SBR-29LIIS <sup>5</sup>		CD-50 <sup>5</sup>	PA-45 <sup>5</sup>		•			
HX407		• <sup>5</sup>	•	Intrinsically Safe 2550mAh Li-Ion	FBA-42 (6x AA)	CD-50 <sup>5</sup>	PA-45 <sup>5</sup>	E-DC-30 <sup>5</sup>	•			
HX380	• <sup>5</sup>		•	FNB-V105LI <sup>5</sup> 1600mAh Li-Ion	FBA-40 (6x AA)	CD-48 <sup>5</sup>	SAD-25 <sup>5</sup>	E-DC-19A	•			
<b>Model</b>	<b>SSM-14A<sup>14</sup></b> Submersible speaker microphone with earphone jack	<b>CMP460<sup>14</sup></b> Submersible speaker microphone	<b>MH-57A4B</b> Speaker microphone	<b>MH-73A4B</b> Submersible speaker microphone	<b>SEP-10A</b> Earphone for SSM-14A	<b>SSM-64A</b> Vox Headset	<b>SSM-55A</b> Earpiece/microphone		<b>SCH-11</b> Belt Clip Hanger	<b>Leather Case and Nylon Case</b> SHC-18: Leather Case w/ belt loop and shoulder strap SHC-19: Leather Case w/ swivel SHC-20: Nylon Case		
HX400	•	•	•	•	•	•	•		•	•		
HX400IS <sup>4</sup>	•	•	•	•	•	•	•		•	•		
HX407	•	•	•	•	•	•	•		•	•		
HX380	•	•	•	•	•	•	•		•	•		

<sup>3</sup> The same as the supplied accessory for GX6500 <sup>4</sup> Intrinsically Safe Version <sup>5</sup> The same as the supplied accessory <sup>6</sup> G for 400 - 430MHz / H for 420 - 450MHz / J for 440 - 470MHz  
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# FIXED MOUNT VHF AND LOUD HAILER SPECIFICATIONS

## Fixed Mount VHF Radios

MODEL	GX6500/GX6000	GX2200/GX2000	GX1850GPs/GX1850/GX1800GPs/GX1800	GX1400GPs/GX1400
<b>GENERAL</b>				
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 / 0.45 A Receiver: 0.9 A / 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: 1.2 A Transmit: 5.0 A (Hi), 1.0 A (Lo)
Overall Dimensions	6.9"W x 4.3"H x 6.8"D (175.5W x 110H x 173.3D 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 3.3"D (150W x 85H x 82D mm)	6.14"W x 2.4"H x 3.94"D (156W x 61H x 100D mm)
Flush-Mount Dimensions	6.2"W x 3.7"H x 6.2"D (158W x 94H x 158D 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 3.4"D (138W x 73H x 95D mm)	5.15"W x 1.97"H x 4.72"D (131W x 50H x 120D mm)
Weight	3.7 lbs (1.66 kg)	3.2 / 3.1 lbs (1.45 / 1.4 kg)	2.1 lbs (940 g)	1.8 lbs (800 g)
PA/FOG Power Output	25 W with listen back	30 W with listen back / 30 W no listen back	-	-
<b>TRANSMITTER</b>				
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 (-4° F to +140° F)	±3 ppm (-4° F to +140° F)	±3 ppm (-4° F to +140° F)	±3 ppm (-4° F to +140° F)
FM Hum and Noise	50 dB	50 dB	50 dB	50 dB
<b>RECEIVER (for Voice and DSC)</b>				
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)	75 dB for Voice (75 dB for DSC)	75 dB for Voice (70 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)	75 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
Frequency for AIS (Transmitter*1)	161.975 MHz (AIS CH A) 162.025 MHz (AIS CH B)	-	-	-
<b>RECEIVER (for AIS)</b>				
Sensitivity	0.5 µV	0.5 µV*2	-	-
Selectivity	Spurious and Image Rejection 70 dB Intermodulation and Rejection 70 dB	Spurious and Image Rejection 70 dB*2 Intermodulation and Rejection 70 dB*2	-	-
<b>NMEA Input/Output</b>				
NMEA 2000	Compatible	-	Compatible (GX1850GPs/GX1850)	-
NMEA 0183 4800 Baud Selected	Input: GGA, GLL, GNS, RMC, GSA and GSV (4800 bps) Output: DSC, DSE, GGA, GLL, GNS, RMC, GSA and GSV (4800 bps)	Input: GGA, GLL, GNS, RMC, GSA and GSV (4800 bps) Output: DSC, DSE, GGA*2, GLL*2, GNS*2, RMC*2, GSA*2 and GSV*2 (4800 bps), AIS Output: VDM*2 (38400 bps)	Input: GGA, GLL, GNS, RMC, GSA and GSV (4800 bps) Output: DSC, DSE, GGA*3, GLL*3, GNS*3, RMC*3, GSA*3 and GSV*3 (4800 bps)	Input: GGA, GLL, GNS, RMC, GSA and GSV (4800 bps) Output: DSC, DSE, GGA*4, GLL*4, GNS*4, RMC*4, GSA*4 and GSV*4 (4800 bps)
NMEA 0183-HS 38400 Baud Selected	Input: GGA, GLL, GNS, RMC, GSA and GSV (38400 bps) Output: DSC, DSE, GGA, GLL, GNS, RMC, GSA, GSV, VDM and VDO*1 (38400 bps) AIS Output: VDM and VDO*1 (38400 bps)	Input: GGA, GLL, GNS, RMC, GSA, GSV and VDM (38400 bps) Output: DSC, DSE, GGA*2, GLL*2, GNS*2, RMC*2, GSA*2, GSV*2 and VDM*2 (38400 bps) AIS Output: VDM*2 (38400 bps)	Input: GGA, GLL, GNS, RMC, GSA and GSV (38400 bps) Output: DSC, DSE, GGA*3, GLL*3, GNS*3, RMC*3, GSA*3 and GSV*3 (38400 bps)	Input: GGA, GLL, GNS, RMC, GSA and GSV (38400 bps) Output: DSC, DSE, GGA*4, GLL*4, GNS*4, RMC*4, GSA*4 and GSV*4 (38400 bps)

\*1 GX6500 only \*2 GX2200 only \*3 GX1850GPs and GX1800GPs \*4 GX1400GPs only

## Loud Hailer

MODEL	VLH-3000A
<b>GENERAL</b>	
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	2.97 lbs (1.35 kg)

## GPS Specifications

MODEL	GX6500/GX2200/GX1850GPs/GX1800GPs/GX1400GPs
Channels	66 channels
Sensitivity	Less than -147 dBm
Time to First Fix	1 min typical (@Cold Start) 5 sec typical (@Hot Start)
Geodetic Datum	WGS84
SBAS Correction	WAAS, EGNOS, MSAS and GAGAN

## HANDHELD VHF SPECIFICATIONS

MODEL	HX890	HX40	HX210	HX300	HX100	HX400/HX400IS	HX407	HX380	
<b>GENERAL</b>									
Frequency Range	Marine Band 156.050 - 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 156.050 - 163.275 MHz	Marine Band: 156.025 - 163.275 MHz LMR Band: 134 - 174 MHz	UHF Band 406.100 - 470.000 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	Ni-MH 700mAh	Li-Ion 2550 mAh	Li-Ion 2300 mAh	Li-Ion 1600 mAh	
Input Voltage	7.4 VDC	7.4 VDC	7.4 VDC	3.7 VDC	4.8 VDC	7.4 VDC	7.4 VDC	7.4 VDC	
Current Drain	Standby: 130 mA (GPS On), 110 mA (GPS Off) Receive: 380 mA (MAX AF Output) Transmit: 1.6 A / 1.0 A / 0.7 A (6 W / 2.5 W / 1 W)	Standby: 100 mA Receive: 330 mA (MAX AF Output) Transmit: 1.6 A / 1.0 A / 0.7 A (6 W / 2.5 W / 1 W)	Standby: 60 mA Receive: 330 mA (MAX AF Output) Transmit: 1.6 A / 1.0 A / 0.7 A (6 W / 2.5 W / 1 W)	Standby: 20 mA Receive: 300 mA (Typical MAX AF Output) Transmit: 2.3 A / 0.9 A (5 W / 1 W)	Standby: 15 mA Receive: 300 mA (MAX AF Output) Transmit: 1.1 A / 0.8 A (2.5 W / 1 W)	Standby: 50 mA Receive: 320 mA (MAX AF Output) Transmit: 1.6 A / 0.8 A (5 W / 1 W)	Standby: 70 mA Receive: 320 mA (MAX AF Output) Transmit: 1.6 A / 0.8 A (5 W / 1 W)	Standby: 50 mA Receive: 320 mA (MAX AF Output) Transmit: 1.6 A / 0.8 A (5 W / 1 W)	Standby: 50 mA Receive: 320 mA (MAX AF Output) Transmit: 1.6 A / 0.8 A (5 W / 1 W)
Overall Dimensions	2.60"W x 5.43"H x 1.50"D (66W x 138H x 38D mm)	2.05"W x 3.74"H x 1.3"D (52W x 95H x 33D mm)	2.36"W x 5.20"H x 1.57"D (60W x 132H x 40D mm)	2.32"W x 5.04"H x 1.3"D (59W x 128H x 33D mm)	2.4"W x 5.3"H x 1.5"D (62W x 135H x 38.5D 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)	
Weight	10.94 oz (310 g) (w/SBR-131L, Hand Strap, Belt Clip & Antenna)	8.1 oz (230 g) (w/ Hand Strap, Belt Clip & Antenna)	9.88 oz (280 g) (w/ Hand Strap, Belt Clip & Antenna)	8.4 oz (240 g) (w/SBR-27L1, Belt Clip & Antenna)	8.6 oz (245 g) (w/FNB-125, Belt Clip & Antenna)	12.3 oz (350 g) (w/SBR-29LI/SBR-29LIIS, 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)	
<b>TRANSMITTER</b>									
RF Output	6 W / 2 W / 1 W (@7.4 V)	6 W / 2.5 W / 1 W (@7.4 V)	6 W / 2.5 W / 1 W (@7.4 V)	5 W / 1 W (@3.7 V)	2.5 W / 1 W (@4.8 V)	5 W / 1 W (@7.4 V)	5 W / 1 W (@7.4 V)	5 W / 1 W (@7.4 V)	
Conducted Spurious Emissions	Less than 0.25 µW	Less than 0.25 µW	Less than 0.25 µW	-75 dBc Typical	-75 dBc Typical	-75 dBc Typical	-75 dBc Typical	At least 36 dBm below	
Frequency Stability	±3 ppm (-4° F to +140° F)	±3 ppm (-4° F to +140° F)	±3 ppm (-4° F to +140° F)	±5 ppm (-4° F to +140° F)	±5 ppm (-4° F to +140° F)	±2.5 ppm (-22° F to +140° F)	±2 ppm (-22° F to +140° F)	±2.5 ppm (-22° F to +140° F)	
FM Hum and Noise	40 dB	40 dB	40 dB	40 dB	40 dB	40 dB	40 dB	40 dB	
<b>RECEIVER</b>									
Sensitivity (12 dB SINAD)	0.25 µV	0.25 µV	0.25 µV	0.25 µV	0.3 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)	25 kHz (-65 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	500 mW	700 mW	700 mW	700 mW	
DSC Format	Class-H ITU-R M.493-14	-	-	-	-	-	-	-	
NMEA 0183 In/Out	Input/Output: DSC, DSE, GGA, GLL, RMC, GSA and GSV	-	-	-	-	-	-	-	
<b>GPS</b>									
Channels	66 channels	-	-	-	-	-	-	-	
Sensitivity	Less than -147 dBm	-	-	-	-	-	-	-	
Time to First Fix	1 min Typical (@Cold Start) 5 sec Typical (@Hot Start)	-	-	-	-	-	-	-	
Geodetic Datum	WGS84	-	-	-	-	-	-	-	
SBAS Correction	WAAS, EGNOS, MSAS and GAGAN	-	-	-	-	-	-	-	

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