

# ***STANDARD HORIZON***

*Nothing takes to water like Standard Horizon*



## ***MARINE COMMUNICATIONS PRODUCT CATALOG 2023***



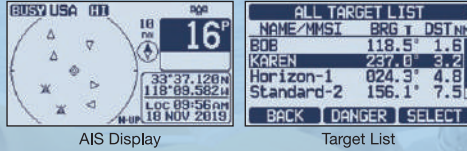


# Fixed Mount VHF Radios

POWER, PERFORMANCE, RELIABILITY



## ADVANCED FEATURES (GX2400GPS)

- Integrated dual channel AIS **BUILT-IN AIS** (Automatic Identification System) Receiver Built-in



AIS Display

Target List

- Second Station Capability  
Optional wireless RAM4X\*<sup>1</sup> or wired RAM4 Remote access Microphone
- NMEA2000 and NMEA0183 Compatible 
- Built-in Integrated 66 Channel GPS receiver 
- Noise Canceling function for both Receive and Transmit audio
- Integrated 32 Code Voice Scrambler and 4 Code Voice Scrambler

\*<sup>1</sup> Requires Optional Wireless Access Point SCU-30



Optional Wireless Remote Access Microphone RAM4X (SSM-72H)  
\* Requires optional Wireless Access point (SCU-30)

Optional Wireless Access point (SCU-30) with 5ft (1.5m) cable



## MATRIX NMEA2000 GPS

FIXED MOUNT DSC VHF WITH NMEA2000 & BUILT-IN AIS / GPS RECEIVER, 30W PA/ FOG, RAM4/RAM4X COMPATIBLE

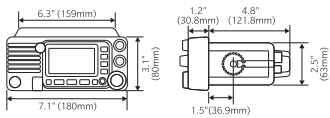
# GX2400GPS



**BUILT-IN AIS** **GPS** **ITU CLASS D**

Supplied Accessories:  
Power Cord, Mounting Bracket,  
USB Cable and Dust Cover

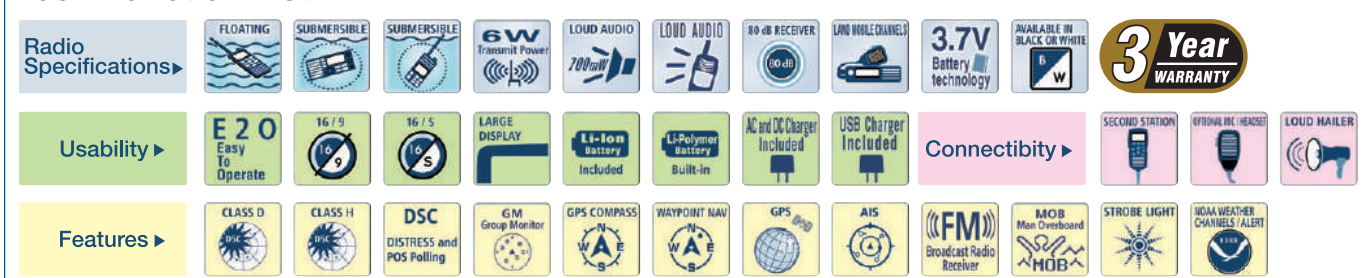
Body color: ● Black



- Meets ITU-R M.493-15 Class D (Digital Selective Calling)
- Separate Receiver for CH70 (Receiving DSC Calls)
- NMEA0183 Connectivity
- AIS/AIS SART target display: MMSI, Call Sign, Ship Name, BRG, DST, SOG and COG
- E2O (Easy to Operate) Icon & Menu System
- Preset key stores up to 10 favorite channels
- Intercom Feature between the Radio and an Optional Second Station
- Programmable Scan, Priority Scan, and Multi Watch
- DSC position request and report functions
- GPS Compass, Waypoint and GPS status pages
- Enter, Save, and Navigate to a waypoint using the Compass page
- Navigation (LAT/LON, Time, SOG and COG) information is shown on display
- Programmable CPA (Closest Point of Approach) or TCPA (Time to Closest Point of Approach) collision avoidance alarms
- Commercial grade receiver (Spurious & Image rejection better than 80dB)
- 30 Watt PA/Loud Hailer with programmed fog signals and listen back
- GM (Group Monitor) Using DSC Group position Calling
- MOB (Man over Board) Operation
- Excellent Visibility with Busy LED Indicator
- Selectable Night Mode Display
- NOAA Weather Channels with Weather Alert



## Icon Function List



## EXPLORER Series

FIXED MOUNT MARINE VHF COMPATIBLE WITH NMEA 2000

# GX1850



ITUCLASS D

Optional RAM4  
Second Station

FIXED MOUNT MARINE VHF

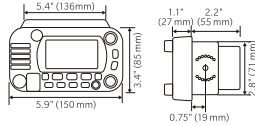
# GX1800GPS



GPS ITUCLASS D

► Supplied Accessories:  
Power Cord and Mounting Bracket

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



**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

MOB  
Man Overboard

- Meets ITU-R M.493-15 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 (GX1800GPS)
- NMEA2000 Compatible (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

- Programmable Scan, Priority Scan, and Multi Watch
- Automatic DSC polling of up to 6 ships GPS positions
- GPS Compass, Waypoint and GPS status pages\*2
- Enter, Save, and Navigate to a waypoint using the Compass page\*2
- Navigation (LAT/LON, SOG, and COG) information shown on display\*2
- 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

## ECLIPSE Series

FIXED MOUNT MARINE VHF WITH GPS

# GX1400GPS



GPS ITUCLASS D

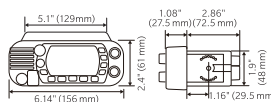
FIXED MOUNT MARINE VHF

# GX1400

ITUCLASS D

► Supplied Accessories:  
Power Cord and Mounting Bracket

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



**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

NOAA WEATHER  
CHANNELS / ALERT

NOAA WEATHER  
CHANNELS / ALERT

NOAA WEATHER  
CHANNELS / ALERT

NOAA WEATHER  
CHANNELS / ALERT

NOAA WEATHER  
CHANNELS / ALERT

NOAA WEATHER  
CHANNELS / ALERT

- Meets ITU-R M.493-14 Class D DSC (Digital Selective Calling)
- Separate Receiver for CH70 (Receiving DSC Calls)
- Ultra-Compact Case design (6.14"Wx2.4"Hx3.94"D, 156mmx61mmx100mm)
- Built-in Integrated 66 Channel GPS receiver (GX1400GPS)
- NMEA 0183 Connectivity
- E2O (Easy to Operate) Icon & Menu System
- Preset key stores up to 10 favorite channels

- 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 change selection, 16/S and H/L keys
- NOAA weather channels with weather Alert

## Fixed Mount VHF Radio Accessories

	Microphone / Cable			Access Point / GPS Antenna			Cover	External Speaker	Hail / PA Speaker	Bracket	
Model	SSM-72H Wireless Remote Access Microphone RAM4X5	SSM-70H Remote Access Microphone RAM4	CT-100 23ft (7m) extension cable for SSM-70H/CMP31	SCU-38 External GPS antenna with 16ft (5m) of cable	SCU-30 Wireless Access Point for SSM-72H (RAM4X) 5ft (1.5m) of cable	SCU-31 External GPS antenna with 49ft (15m) of cable	Dust Cover	MLS-410SP External Speaker	220SW 130mm Round PA/hailing horn 30W 4 Ohm	240SW W224 x H163mm Rectangular PA/ hailing horn 40W, 4 Ohm	Flush mount bracket
GX2400GPS	•	•	•	•	•	•	HC2400	•	•	•	MMB-84
GX1850	•	•	•	•	•	•	HC1600	•	•	•	MMB-97
GX1800GPS	•	•	•	•	•	•	HC1600	•	•	•	MMB-97
GX1400GPS	•	•	•	•	•	•	HC1100	•	•	•	MMB-84
GX1400	•	•	•	•	•	•	HC1100	•	•	•	MMB-84

\*2 GX1850 requires connection to external GPS device \*3 GX1800GPS only \*4 GX1400GPS only \*5 Requires optional Wireless Access point (SCU-70)



# 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
- 

E2O Menu



Night Mode



Group Monitor



MOB Waypoint
- Noise Canceling function for both Receive and Transmit 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 stores 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\*1
- 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) Operation
- Water Activated Emergency Strobe Light
- Integrated 32 Code Voice Scrambler and 4 Code Voice Scrambler
- micro USB Data Port for NMEA sentence output, configuration of the transceiver settings and downloading GPS logger data

## Handheld VHF Radio Accessories

Model	Antenna / Adapter		Battery		Battery Charger				Belt clip / Holster		
	SRA-19B VHF Marine Antenna	CN-3 BNC-SMA Adapter	Rechargeable	Alkaline Battery tray	Cradle	AC Adapter	SAD-27 USB AC Adapter	USB Cable USB Type-A to USB Type-C Charging Cable	DC Cable (with Cigarette Lighter Plug)	Belt Clip	SHB-110 Quick Release Holster
HX890	●*2	●	SBR-13LI 1800mAh Li-Ion <sup>2</sup>	SBT-13 (5 x AAA) <sup>2</sup>	SBH-32 <sup>2</sup>	SAD-25 <sup>2</sup>			E-DC-19A <sup>2</sup>	CLIP-22 <sup>2</sup>	
HX320	●*2	●	2100mAh (Dealer replaceable)		SBH-49 <sup>2</sup>		●*2	●*2		CLIP-22 <sup>2</sup>	●
HX210	●*2	●	1850mAh (Dealer replaceable)		SBH-25 <sup>2</sup>	SAD-25 <sup>2</sup>			E-DC-19A <sup>2</sup>	CLIP-22 <sup>2</sup>	
HX40	●*2	●	1850mAh (Dealer replaceable)		SBH-27 <sup>2</sup>	SAD-25 <sup>2</sup>			E-DC-19A <sup>2</sup>	CLIP-19 <sup>2</sup>	

\*1 Based on Duty Cycle =(TX)5:(RX)5: (Standby)90, with 6W TX Power, GPS:ON, DSC:ON, Battery Save:ON(50%)

\*2 The same as the supplied accessory



**NEW**  
for 2023

COMPACT FLOATING VHF HANDHELD  
WITH BLUETOOTH® CAPABILITY

# HX320

**IPX7**  
Submersible  
1m for 30min



**3 Year**  
WARRANTY

**Bluetooth®**



► Supplied Accessories:

SRA-19B Antenna, SAD-27 USB AC Adapter, SBH-49 Charger Cradle, USB Type-A to USB Type-C Charging Cable, CLIP-22 Belt Clip and Hand Strap

Overall Dimensions:  
2.36" x 5.24" x 1.65" (60mm x 133mm x 42mm)  
Weight:  
10.23oz (290g) (with: Hand Strap, Belt Clip & Antenna)

- Floating
- Compact Case design (2.36"W x 5.24"H x 1.65"D, 60mm x 133mm x 42mm)
- 6W transmit power output (Selectable 6/2.5/1W)
- 700mW Loud Audio Output
- Preset key stores 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, 2100mAh)
- NOAA Weather Channels with Weather Alert
- Bluetooth® Wireless Operation
- USB (Type-C) Charging system
- FM Broadcast Radio Receiver
- Water activated light



COMPACT FLOATING VHF HANDHELD

# HX210

**IPX7**  
Submersible  
1m for 30min



**3 Year**  
WARRANTY



► Supplied Accessories:

SRA-19B 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)

- 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 stores 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



ULTRA COMPACT VHF HANDHELD

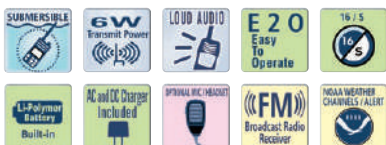
# HX40

**IPX7**  
Submersible  
1m for 30min



**3 Year**  
WARRANTY

\* When fitted into optional flotation case



► Supplied Accessories:

SRA-19B 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)

- 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 stores 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

	Case / Hanger		Speaker Microphone / Headset / Earpiece Microphone							
Model	SHC-29 Flotation Case	SCH-11 Belt Clip Hanger	SSM-21A Submersible speaker microphone with earphone jack	SSM-17H Speaker microphone	MH-73A4B Submersible speaker microphone	CMP460 Submersible speaker microphone	SEP-10A Earphone for SSM-21A	SSM-BT10 Bluetooth® Headset	SSM-64A Vox Headset	SSM-517A Earpiece/ microphone
HX890		•	•	•	•	•	•	•	•	•
HX320		•	•	•	•	•	•	•	•	•
HX210		•	•	•	•	•	•	•	•	•
HX40	•	•	•	•	•	•	•	•	•	•



# Commercial Grade Marine VHF

BUILT BY PROFESSIONALS FOR PROFESSIONALS

## ADVANCED FEATURES

- 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
- 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 (RAM4X SSM-72H)  
\* Requires optional Wireless Access point (SCU-30)

Optional Wireless Access point (SCU-30) with 5ft (1.5m) cable



## Fixed Mount VHF Radio

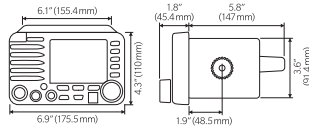
FIXED MOUNT VHF WITH NMEA 2000 AND INTEGRATED DUAL CHANNEL AIS RECEIVER

# GX6000 QUANTUM AIS



► Supplied Accessories:  
Hand Microphone, Power Cord, Mounting Bracket, USB Cable

Body color: ● Black



**IPX8**  
Submersible  
1.5m for 30min

**3 Year**  
WARRANTY

- Meets ITU-R M493-14 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
- E20 (Easy to Operate) Icon & Menu System
- User customizable soft keys for easy menu operation
- Programmable CPA or TCPA collision avoidance alarms



- Commercial grade receiver (Spurious & Image rejection better than 80dB)
- Local/Distance receiver Attenuator
- Noise canceling for both transmit and receive audio
- Intercom Feature between the Radio, RAM4 and wireless RAM4X
- Integrated Voice Recorder to playback up to two minutes of RX (receive) audio
- Selectable Night Mode Display
- GM (Group Monitor) using DSC Group Position Call
- MOB (Man Overboard) Operation
- NOAA Weather channels with weather Alert

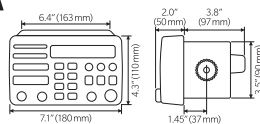
## Loud Hailer

30W DUAL ZONE LOUD HAILER

# VLH-3000A

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

Body color: ● Black



**IPX7**  
Submersible  
1m for 30min

**3 Year**  
WARRANTY

\* for the Front panel

- 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-410LH 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

INTRINSICALLY SAFE

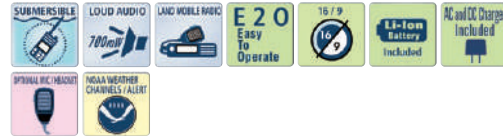
# HX400IS

**INTRINSICALLY SAFE INFORMATION:**  
The HX400IS, SBR-45LI Li-Ion battery pack and optional SSM-21A 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-45LI (HX400) 7.2V 3200mAh/SBR-45LIIS (HX400IS) 7.2V 3200mAh Li-Ion Battery Pack, SBH-36 Charger Cradle, SAD-25 AC Adapter, E-DC-19A 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-45LI (HX400)/SBR-45LIIS (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 3200mAh 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 3200mAh Li-Ion battery (HX400IS only)



COMMERCIAL VHF WITH LMR CHANNELS

# HX380

**IPX7**  
Submersible  
1m for 30min

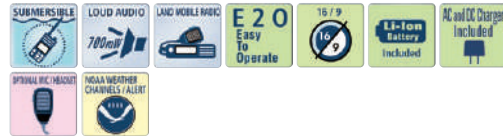
**3 Year**  
WARRANTY

► Supplied Accessories:

CAT460 Antenna, SBR-41LI 7.4V 1750mAh 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</sup> US version only

Overall Dimensions: 2.24" x 5.24" x 1.3" (57mm x 133mm x 33mm)  
Weight: 11.3oz (320g) (with: SBR-41LI, 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 1750mAh Li-Ion battery
- Scanning operation and Dual Watch



## Fixed Mount VHF Radio and Loud Hailer Accessories

	Microphone / Cable				Access Point / GPS Antenna	
Model	<b>SSM-72H</b> Wireless Remote Access Microphone RAM4X <sup>3</sup>	<b>SSM-70H</b> Remote Access Microphone RAM4	<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-72H (RAM4X) 5ft (1.5m) of Cable	<b>SCU-31</b> External GPS Antenna with 49ft (15m) of Cable
GX6000 VLH-3000A	•	•	•	•	•	•
	Bracket	External Speaker			Hail / PA Speaker	
Model	<b>MMB-84</b> Flush Mount Bracket	<b>MLS-410SP</b> External Speaker	<b>MLS-410PA</b> External Speaker with 10W amplifier	<b>MLS-410LH</b> Loud Hailer Intercom Speaker (with CALL button)	<b>220SW</b> 130mm Round PA/hailing horn 30W 4 Ohm	<b>240SW</b> W224 x H163mm Rectangular PA/hailing horn 40W 4 Ohm
GX6000 VLH-3000A	•	•	•	•	•	•

## Handheld VHF Radio Accessories

	Antenna / Adapter		Battery		Battery Charger				
Model	<b>CAT460</b> VHF 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>	•	SBR-45LI <sup>5</sup> 3200mAh Li-Ion	FBA-42 (6 x AA)	SBH-36 <sup>5</sup> * <sup>6</sup>	SAD-25 <sup>5</sup> * <sup>7</sup>	E-DC-19A <sup>5</sup>	•	
HX400IS <sup>*4</sup>	• <sup>5</sup>	•	SBR-45LIIS <sup>5</sup>		SBH-36 <sup>5</sup> * <sup>6</sup>	SAD-25 <sup>5</sup> * <sup>7</sup>		•	
HX380	• <sup>5</sup>	•	Intrinsically Safe 3200mAh Li-Ion SBR-41LI <sup>5</sup> 1750mAh Li-Ion	FBA-40 (6 x AA)	CD-48 <sup>5</sup>	SAD-25 <sup>5</sup>	E-DC-19A	•	
	Speaker Microphone / Vox Headset / Earpiece Microphone					Belt clip / Hanger		Case	
Model	<b>SSM-21A<sup>4</sup></b> Submersible speaker microphone with earphone jack	<b>CMP460<sup>4</sup></b> Submersible speaker microphone	<b>SSM-17H</b> Speaker microphone	<b>MH-73A4B</b> Submersible speaker microphone	<b>SEP-10A</b> Earphone for SSM-21A	<b>SSM-64A</b> Vox Headset	<b>SSM-517A</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>	•	•	•	•	•	•	•	•	
HX380	•	•	•	•	•	•	•	•	

<sup>\*3</sup> Requires optional Wireless Access point (SCU-30)

<sup>\*4</sup> Intrinsically Safe Version

<sup>\*5</sup> The same as the supplied accessory

<sup>\*6</sup> Requires SAD-25

<sup>\*7</sup> Requires SBH-36



# FIXED MOUNT VHF AND LOUD HAILER SPECIFICATIONS

## Fixed Mount VHF Radios

MODEL	GX6000	GX2400GPS	GX1850/GX1800GPS	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 Receive: 0.9 A Transmit: 5.0 A (Hi), 1.0 A (Lo)	Standby: 0.55 A Receive: 0.9 A Transmit: 5.0 A (Hi), 1.0 A (Lo)	Standby: 0.45 A Receive: 0.8 A Transmit: 5.0 A (Hi), 1.0 A (Lo)	Standby: 0.3 A Receive: 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 6.0"D (180W x 80H x 152.6D 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 6.2"D (161W x 65H x 157D 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)	3.3 lbs (1.5 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)	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)	75 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.493-14	Class D ITU-R M.493-15	Class D ITU-R M.493-15	Class D ITU-R M.493-14
<b>RECEIVER (for AIS)</b>				
Sensitivity	0.5 µV	0.5 µV	-	-
Spurious and Image Rejection	70 dB for AIS	70 dB for AIS	-	-
Intermodulation and Rejection	70 dB for AIS	70 dB for AIS	-	-
<b>NMEA Input/Output</b>				
NMEA 2000	Compatible	Compatible	Compatible (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) AIS Output: VDM (38400 bps)	Input: GGA, GLL, GNS, RMC, GSA and GSV (4800 bps) Output: DSC, DSE, GGA, GLL, GNS, RMC, GSA and GSV (4800 bps) AIS Output: VDM (38400 bps)	Input: GGA, GLL, GNS, RMC, GSA and GSV (4800 bps) Output: DSC, DSE, GGA*1, GLL*1, GNS*1, RMC*1, GSA*1 and GSV*1 (4800 bps) Input: GGA, GLL, GNS, RMC, GSA and GSV (38400 bps) Output: DSC, DSE, GGA*1, GLL*1, GNS*1, RMC*1, GSA*1 and GSV*1 (38400 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) Input: GGA, GLL, GNS, RMC, GSA and GSV (38400 bps) Output: DSC, DSE, GGA*2, GLL*2, GNS*2, RMC*2, GSA*2 and GSV*2 (38400 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 and GSV (38400 bps) AIS Output: VDM (38400 bps)	Input: GGA, GLL, GNS, RMC, GSA and GSV (38400 bps) Output: DSC, DSE, GGA, GLL, GNS, RMC, GSA and GSV (38400 bps) AIS Output: VDM (38400 bps)	Input: GGA, GLL, GNS, RMC, GSA and GSV (38400 bps) Output: DSC, DSE, GGA*1, GLL*1, GNS*1, RMC*1, GSA*1 and GSV*1 (38400 bps)	Input: GGA, GLL, GNS, RMC, GSA and GSV (38400 bps) Output: DSC, DSE, GGA*2, GLL*2, GNS*2, RMC*2, GSA*2 and GSV*2 (38400 bps)

\*1 GX1800GPS only \*2 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
<b>AF Output</b>	
EXT SPK Output	4 W (at 4 ohm 10 % distortion)
INT SPK Output	2 W (at 8 ohm 10 % distortion)
<b>Mic sensitivity</b>	
Drain current	7 A (MAX) when Forward and Aft Horns are used, 300mA
<b>Idle current</b>	
Operating temperature	-4° F to +131° F (-20° C to +55° C)
Storage temperature	-22° F to +158° F (-30° C to +70° C)
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	GX2400GPS/ GX1800GPS/GX1400GPS
Channels	66 channels
Sensitivity	Less than -147 dBm
Time to First Fix	1 min typical (@Cold Start) 5 sec typical (@Hot Start)
<b>Geodetic Datum</b>	
SBAS Correction	WGS84 WAAS, EGNOS, MSAS and GAGAN

## HANDHELD VHF SPECIFICATIONS

MODEL	HX890	HX320	HX210	HX40	HX400/HX400IS	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: 156.025 - 163.275 MHz LMR Band: 134 - 174 MHz	Marine Band: 156.025 - 163.275 MHz LMR Band: 134 - 174 MHz
Battery type / Capacity	Li-Ion 1800 mAh	Lithium Polymer 2100 mAh (Built-in)	Lithium Polymer 1850 mAh (Built-in)	Lithium Polymer 1850 mAh (Built-in)	Li-Ion 3200 mAh	Li-Ion 1750 mAh
Input Voltage	7.4 VDC	7.4 VDC	7.4 VDC	7.4 VDC	7.2 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 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: 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: 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)	2.36"W x 5.24"H x 1.65"D (60W x 133H x 42D mm)	2.36"W x 5.20"H x 1.57"D (60W x 132H x 40D mm)	2.05"W x 3.74"H x 1.3"D (52W x 95H x 33D 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-13LI, Hand Strap, Belt Clip & Antenna)	10.23 oz (290 g) (w/ Hand Strap, Belt Clip & Antenna)	9.88 oz (280 g) (w/ Hand Strap, Belt Clip & Antenna)	8.1 oz (230 g) (w/ Hand Strap, Belt Clip & Antenna)	12.3 oz (350 g) (w/SBR-45LI/SBR-45LIIS, Belt Clip & Antenna)	11.3 oz (320 g) (w/SBR-41LI, 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)	6 W / 2.5 W / 1 W (@7.4 V)	5 W / 1 W (@7.2 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	Less than 0.25 µW	-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)	±3 ppm (-4° F to +140° F)	±2.5 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
<b>RECEIVER</b>						
Sensitivity (12 dB SINAD)	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)	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	700 mW	600 mW	600 mW	700 mW	700 mW
DSC Format	Class-H ITU-R M.493-14	-	-	-	-	-
NMEA 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)	-	-	-	-	-
<b>Geodetic Datum</b>						
SBAS Correction	WAAS, EGNOS, MSAS and GAGAN	-	-	-	-	-

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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