

STANDARD HORIZON

Nothing takes to water like Standard Horizon

2017

MARINE COMMUNICATIONS PRODUCT CATALOG





Fixed Mount VHF Radios

POWER, PERFORMANCE, RELIABILITY



ADVANCED FEATURES

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



- Integrated 66 Channel GPS antenna
- BUILT-IN AIS
Integrated dual channel AIS (Automatic Identification System) receiver
- ClearVoice noise canceling speaker microphone with channel selection and 16/9 key

- Oversized rotary channel knob
- 80dB Commercial grade receiver

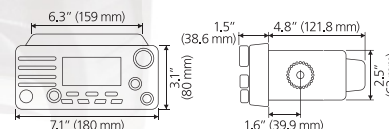
◀ Supplied Accessories:
Power Cord and Mounting Bracket

Body color : ● Black ● White

Available in Black and White

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

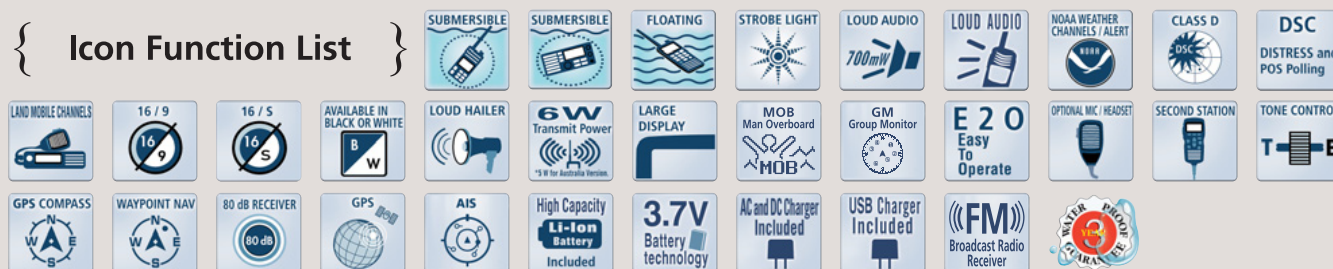
FIRST FIXED MOUNT VHF WITH BUILT-IN AIS/GPS RECEIVER
30 W PA/FOG-RAM3+ COMPATIBLE



- Integrated dual channel AIS (Automatic Identification System) receiver
- Direct call to 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 0183 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
- Programmable Scan, Priority Scan, and Dual Watch
- Supports optional RAM3+ second station remote microphone with AIS display

{ Icon Function List }





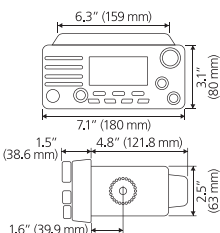
GX2000

MATRIX *ITU CLASS D*

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

◀ Supplied Accessories:
Power Cord and Mounting Bracket

Body color : ● Black



- 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*1,2
- 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 Ships, 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

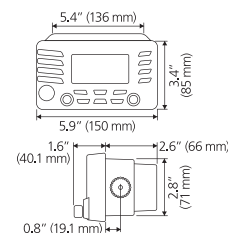
EXPLORER GPS *ITU CLASS D*

**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



- 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

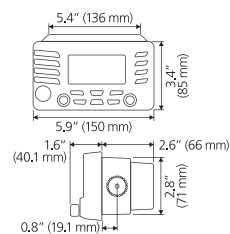
EXPLORER *ITU CLASS D*

**ULTRA COMPACT
FIXED MOUNT DSC
VHF-RAM3+ COMPATIBLE**

◀ Supplied Accessories:
Power Cord and Mounting Bracket

Body color : ● Black ○ White

Available in Black and White



- 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
- Capable of connecting an optional RAM3+ second station remote access microphone



GX1300

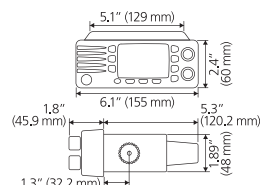
ECLIPSE *ITU CLASS D*

**FIXED MOUNT
CLASS D DSC VHF**

◀ Supplied Accessories:
Power Cord and Mounting Bracket

Body color : ● Black ○ White

Available in Black and White



- 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

	Microphone / Cable		External GPS Antenna	Encryption	Cover	External Speaker		Hail / PA Speaker		Bracket
Model	CMP31B/CMP31W Remote station microphone (Black/White) RAM3+	CT-100 23 ft (7 m) extension cable for CMP31	SCU-31 External GPS antenna with 49 ft (15 m) of cable	CVS2500A Voice scrambler	Dust Cover	MLS-300 External Speaker	MLS-310 External Speaker with 10 W amplifier	220SW 4.5" (114 mm) Round PA/hailing horn 30 W 4 Ohm	240SW 5" x 8" (127 x 203 mm) Rectangular PA/hailing horn 40 W 4 Ohm	Flush mount bracket
										
	•	•	•	•	HC2000	•	•	•	•	MMB-84
	•	•	•	•	HC2000	•	•	•	•	MMB-84
	•	•	•	•	HC1600	•	•	•	•	MMB-97
	•	•	•	•	HC1600	•	•	•	•	MMB-97
•	•	•	•	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

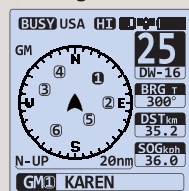


ADVANCED FEATURES

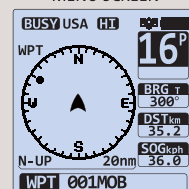
- Integrated 66 Channel WAAS GPS antenna with memory log
- Oversized full dot matrix display (1.7" (W) x 1.7" (H) or 2.3" diagonal)
- Noise canceling function for transmit and receive audio
- USB Data Port - NMEA 0183 sentence Output DSC, DSE, GLL, RMC, GSA, GSV and GGA (9600 baud), and download GPS logged Data
- Water Activated Emergency Strobe Light
- Supplied with a 7.4 V 1800 mAh Li-Ion battery



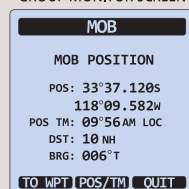
MENU SCREEN



GROUP MONITOR SCREEN



MOB WAYPOINT SCREEN



MOB SCREEN

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
- E2O (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

Handheld VHF Radio Accessories

	Antenna		Battery		Battery Charger			Belt clip
Model	CAT460 VHF Marine Antenna	CN-3 BNC-SMA Adapter	Rechargeable	Alkaline Battery tray	Cradle	AC Adapter	DC Adapter	
HX870	•*1	•	SBR-13LI 1800 mAh Li-Ion*1	SBT-13 (5 x AAA)*1	SBH-12*1	SAD-18B*1,2	E-DC-19A*/E-DC-6	CLIP-22*1
HX300	•*1	•	FNB-122LI 1560 mAh Li-Ion*1	FBA-44 (3 x AAA)	SBH-25*1	SAD-17B/C*1,2	SDD-14 (USB)*1	CLIP-22*1
HX210	•*1	•	SBR-23LI 1800 mAh (Dealer replaceable)			SAD-18B*1	E-DC-19A*/E-DC-6	CLIP-22*1
HX150			FNB-124LI 1030mAh Li-Ion*1		CD-57*1	SAD-18B/PA-48C*1,2	E-DC-19A/E-DC-6	CLIP-24*1
HX100			FNB-125 700mAh Ni-MH*1		CD-56*1	SAD-18B/PA-48C*1,2	E-DC-19A/E-DC-6	CLIP-24*1



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 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, activated when dropped into the water
- Preset key used to recall up to 10 favorite channels
- 600 mW loud internal speaker audio
- Programmable Scan, Priority Scan, and Multi Watch (Dual Watch or Triple Watch)
- NOAA Channels with Weather Alert



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 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 Multi Watch (Dual Watch or Triple Watch)
- Preset Key used to recall up to 10 favorite channels
- NOAA Channels with Weather Alert



NEW for 2017 HX210

COMPACT FLOATING HANDHELD VHF

◀ Supplied Accessories:

CAT460 Antenna, SBH-25 Charger Cradle, SAD-18B Wall Charger, E-DC-19A DC Adapter, CLIP-22 Belt Clip and Hand Strap

Overall Dimensions:

2.24" W x 5.12" H x 1.57" D (57W x 130H x 40D mm)

Weight:

9.9 oz (280 g) (w/ SBR-23LI, Belt Clip & Antenna)



- Floating
- Submersible IPX7 / (3.3 Ft or 1 m for 30 minutes)
- Compact case design : 2.24" W x 5.12" H x 1.57" D (57 x 130 x 40 mm)
- 6 W transmit power output • E2O (Easy to Operate) Menu System
- 600 mW Loud Audio
- Built-in Lithium Polymer Battery Pack (7.4 V, 1800 mAh)
- Water activated emergency strobe light
- Preset key used to recall up to 10 favorite channels
- CH16/S Quick Access • FM Broadcast Radio Receiver
- NOAA Channels with Weather Alert



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)



- Two HX100 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 Multi Watch (Dual Watch or Triple Watch)
- Preset Key used to recall up to 10 favorite channels
- NOAA Channels with Weather Alert



Speaker Microphone / Vox Headset / Earpiece Microphone							
Model	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
HX870	•	•	•	•	•	•	•
HX300	•	•	•	•	•	•	•
HX210	•	•	•	•	•	•	•
HX150							
HX100							

*1 The same as the supplied accessory *2 B for 110 VAC / C for 240 VAC



Commercial Grade Marine VHF

BUILT BY PROFESSIONALS
FOR PROFESSIONALS



Wireless Remote Access Microphone (SSM-71H RAM4W)
Wireless Access point (SCU-30)
《Optional Accessories》



Fixed Mount VHF Radio

NEW for 2017 **GX6500** *QUANTUM Class B AIS/GPS* **ITU CLASS D**

NEW for 2017 **GX6000** *QUANTUM AIS* **ITU CLASS D**

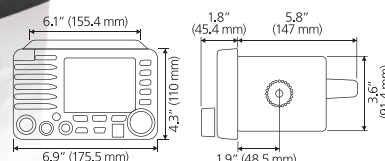
FIXED MOUNT VHF WITH NMEA 2000 AND INTEGRATED CLASS B AIS TRANSPONDER BUILT-IN *1



- Integrated dual channel AIS (Automatic Identification System) receiver
- Integrated Class B AIS transponder*1
- AIS / AIS SART target display: MMSI, Call Sign, Ship Name, BRG, DST, SOG and COG
- Meets ITU-R M493-13 Class D DSC (Digital Selective Calling)
- NMEA 2000 and NMEA 0183 compatible
- 66 Channel External GPS antenna included*1
- Front panel microphone can be connected to rear panel and extended 20 feet using MEK-4 mic extension kit

- Selectable 4800 or 38400 baud rate for plotters
- GPS Compass, Waypoint and GPS status pages
- Programmable CPA or TCPA collision avoidance alarms
- Dual Zone 25W PA / Loud Hailer with preprogrammed fog signals and listen back
- Submersible IPX8 (5 feet or 1.5 meters for 30 minutes)
- 80dB Commercial grade receiver

*1 GX6500 only



Fixed Mount VHF Radio

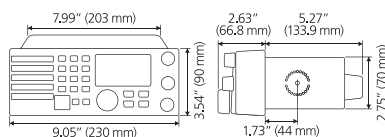
GX5500S *QUANTUM* **ITU CLASS D**

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



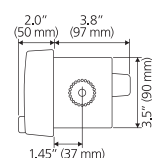
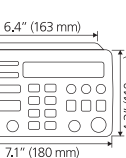
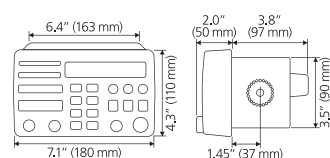
Loud Hailer

VLH-3000A

30W DUAL ZONE LOUD HAILER

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

- 30W PA/Hailer 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 cancelling microphone
- Easy push button control
- 2 W Loud internal speaker audio Output
- Compatible with optional MLS-300i intercom speaker with Push-to Alert button for IC1 and IC2
- Adjustable Backlight



ADVANCED FEATURES

- Integrated AIS (Automatic Identification System) Class B Transponder (GX6500 only)
- Capable of connecting two optional wired RAM4 or one wired RAM4 and four wireless RAM4W 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) **66 ch GPS**
- 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

◀ Supplied Accessories:

Hand Microphone, Power Cord, Mounting Bracket and Hardware, External GPS Antenna SCU-31*1, USB Cable



HX400

COMMERCIAL GRADE VHF WITH LMR CHANNELS

- 40 Programmable Land Mobile Channels 134 MHz to 174 MHz with CTCSS and DCS signaling
- 700 mW Loud Audio Output • Selectable 5 and 1 Watt transmit power output
- Supplied with 7.4 V 2300 mAh Li-Ion battery
- Built-in Noise Cancelling Microphone and Voice Scrambler
- Preset key used to recall up to 10 favorite channels
- Programmable channel names • Programmable Scan, Priority Scan, and Multi Watch (Dual Watch or Triple Watch)

Supplied Accessories (HX400/HX400IS):

CAT460 Antenna, FNB-115LI (HX400)/FNB-115LIS (HX400IS) 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 (HX400 only), CLIP-22 Belt Clip and Hand Strap

Overall Dimensions (HX400/HX400IS): 2.24" W x 5.24" H x 1.57" D (57W 133H x 40D mm)
Weight: 12.3 oz (350 g) (w/FNB-115LI(HX400)/FNB-115LIS(HX400IS), Belt Clip & Antenna)

IPX8
1.5 m for 30 min
Submersible



HX400IS

INTRINSICALLY SAFE

- Certified Intrinsically Safe
- Supplied with Intrinsically Safe Li-Ion battery pack FNB-115LIS 7.4 V 2300 mAh

INTRINSICALLY SAFE INFORMATION:
The HX400IS, FNB-115LIS 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

IPX8
1.5 m for 30 min
Submersible



HX407

COMMERCIAL GRADE UHF

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

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)

IPX8
1.5 m for 30 min
Submersible



HX380

COMMERCIAL VHF WITH LMR CHANNELS

- Selectable 5 and 1 Watt transmit power
- 700 mW Loud Audio Output
- 40 Programmable Land Mobile Channels 134 MHz to 174 MHz
- Preset key used to recall up to 10 favorite 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*2 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-V105LI, Belt Clip & Antenna)

IPX7
1 m for 30 min
Submersible



*2 US version only

Fixed Mount VHF Radio and Loud Hailer Accessories

Model	Microphone / Cable						Access Point / GPS Antenna	
	SSM-70H Remote Access Microphone RAM4	SSM-71H Wireless Remote Access Microphone RAM4W	CMP31 RAM3+ Remote station microphone	BU-2 Bluetooth® Adapter Unit	CT-100 23 ft (7 m) extension cable for CMP31/SSM-70H	MEK-4 Microphone Extension Kit 20 ft (6 m)	SCU-30 Wireless Access Point for SSM-71H (RAM4W)	SCU-31 External GPS Antenna with 49 ft (15 m) of Cable
								
	•	•	•	•	•	•	•	• ^{x3}
	GX6500/GX6000							
GX5500S								
VLH-3000A								
Model	Bracket		External Speaker			Hail / PA Speaker		Encryption
	MMB-84 Flush Mount Bracket	MLS-300 External Speaker	MLS-310 External Speaker with 10 W amplifier	MLS-300i Loud Hailer Intercom Speaker (with CALL button)	220SW 4.5" (114 mm) Round PA/hailing horn 30 W 4 Ohm	240SW 5" x 8" (127 x 203 mm) Rectangular PA/hailing horn 40 W 4 Ohm	CVS2500A Voice scrambler	
								
	•	•	•	•	•	•	•	
	GX6500/GX6000							
GX5500S								
VLH-3000A								

Handheld VHF/UHF Radio Accessories

		Antenna			Battery		Battery Charger		
Model		CAT460 VHF Marine Antenna	SRA-14G/H/J *6 UHF Marine Antenna	CN-3 BNC-SMA Adapter	Rechargeable	Alkaline Battery tray	Cradle	AC Adapter	DC Adapter
HX400		•*5	•	•	FNB-115LI 2300 mAh Li-Ion*5	FBA-42 (6 x AA)	CD-50*5	PA-45B/C*5,7	E-DC-30*5
HX400IS*4		•*5	•	•	FNB-115LIS*4 Intrinsically Safe 2300 mAh Li-Ion*5	FBA-42 (6 x AA)	CD-50*5	PA-45B/C*5,7	E-DC-30
HX407		•	•*5	•	FNB-115LI 2300 mAh Li-Ion*5	FBA-42 (6 x AA)	CD-50*5	PA-45B/C*5,7	E-DC-30*5
HX380		•*5	•	•	FNB-V105LI 1600mAh Li-Ion*5	FBA-40 (6 x AA)	CD-48*5	SAD-18B/PA-48C*5,7	E-DC-19A/E-DC-6
		Speaker Microphone / Vox Headset / Earpiece Microphone					Belt clip		Case
Model		SSM-14A Submersible speaker microphone with earphone jack*4	CMP460 Submersible speaker microphone*4	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		•	•	•	•	•	•	•	•
HX400IS*4		•	•	•	•	•	•	•	•
HX407		•	•	•	•	•	•	•	•
HX380		•	•	•	•	•	•	•	•

*3 The same as the supplied accessory for GX6500 *4 Intrinsically Safe Version *5 The same as the supplied accessory *6 G for 400 - 430 MHz / H for 420 - 450 MHz / J for 440 - 470 MHz *7 B for 110 VAC / C for 240 VAC
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FIXED MOUNT VHF AND LOUD HAILER SPECIFICATIONS

Fixed Mount VHF Radios

MODEL	GX6500/GX6000	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	Marine Band: 156.025 - 163.275 MHz
Input Voltage	13.8 VDC $\pm$ 20 %	13.8 VDC $\pm$ 20 %	13.8 VDC $\pm$ 20 %	13.8 VDC $\pm$ 20 %	13.8 VDC $\pm$ 20 %
Current Drain	Standby: 0.55 A Receiver: 0.9 A Transmit: 5.0 A (Hi), 1.0 A (Lo)	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	6.9" W x 4.3" H x 6.8" D (175.5W x 110H x 173.3D mm)	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)	6.10" W x 2.36" H x 5.91" D (155W x 60H x 150D mm)
Flush-Mount Dimensions	6.2" W x 3.7" H x 6.2" D (158W x 94H x 158D mm)	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	3.7 lbs (1.66 kg)	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	25 W with listen back	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)	25 W (Hi), 1 W (Lo)
Conducted Spurious Emissions	Less than -80 dBc (Hi), -66 dBc (Lo)	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	$\pm$ 3 ppm (-4° F to +140° F)	$\pm$ 5 ppm (-4° F to +140° F)	$\pm$ 3 ppm (-4° F to +140° F)	$\pm$ 3 ppm (-4° F to +140° F)	$\pm$ 3 ppm (-4° F to +122° F)
FM Hum and Noise	50 dB	50 dB	50 dB	50 dB	50 dB
RECEIVER (for Voice and DSC)					
Sensitivity (12 dB SINAD)	0.30 μ V	0.30 μ V	0.30 μ V	0.25 μ V	0.25 μ V
Spurious and Image Rejection	80 dB for Voice (75 dB for DSC / 70 dB for AIS)	80 dB	80 dB for Voice (75 dB for DSC)	80 dB for Voice (75 dB for DSC)	75 dB
Intermodulation and Rejection	80 dB for Voice (75 dB for DSC / 70 dB for AIS)	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	10 W	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	Class D ITU-R M.493-13
TRANSMITTER (for AIS)	161.975 MHz (AIS CH A)*1 162.025 MHz (AIS CH B)*1	—	—	—	—
RECEIVER (for AIS)					
Sensitivity	0.5 μ V	—	0.5 μ V*1	—	—
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	—	—
NMEA Input/Output					
NMEA 2000	Compatible	—	—	—	—
NMEA 0183	Input: GLL, GGA, GNS, RMC, GSA*1 and GSV*1 (4800 or 38400*1 bps) Output: DSC, DSE, GGA, GLL, GNS, RMC, GSA and GSV (4800 or 38400 bps), VDM and VDO (38400 bps)	Input: GLL, GGA, RMC and GNS (4800 bps) Output: DSC and DSE (4800 bps)	Input: GLL, GGA, GNS, RMC, GSA*2 and GSV*2 (4800 or 38400*2 bps) Output: DSC and DSE (4800 or 38400*2 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 and VDO (38400 bps)	—	Output: VDM (38400 bps)	—	—

*1 GX6500 only *2 GX2200 only

Loud Hailer

MODEL	VLH-3000A
GENERAL	
Input Voltage	13.8 VDC $\pm$ 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)

MODEL	GX6500/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	HX210	HX150/HX100
GENERAL							
Frequency Range	Marine Band: 156.025 - 163.275 MHz LVR Band: 134 - 174 MHz	Marine Band: 156.025 - 163.275 MHz LVR Band: 134 - 174 MHz	UHF Band: 400 - 470 MHz	Marine Band: 156.025 - 163.275 MHz LVR 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	Lithium Polymer 1800 mAh (Built-in)	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 V DC	7.4 VDC / 4.8 VDC
Current Drain	Standby: 100 mA (GPS On), 60 mA (GPS Off) Receive: 330 mA (MAX AF Output) Transmit: 1.6 A / 1.0 A / 0.7 A (6 W / 2 W / 1W)	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: 20 mA Receive: 330 mA (Typical at MAX AF Output) Transmit: 2.3 A / 0.9 A (5 W / 1 W)	Standby: 60 mA Receive: 300 mA (MAX AF Output) Transmit: 1.8 A / 1.0 A / 0.7 A (6 W / 2.5 W / 1W)	Standby: 15 mA Receive: 300 mA (MAX AF Output) Transmit: HX100: 1.5 A / 0.7 A (5 W / 1 W) HX100: 1.1 A / 0.8 A (2.5 W / 1W)
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)	2.24" W x 5.12" H x 1.57" D (57 W x 130H x 40D mm)	2.4" W x 5.3" 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-115IIS 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-122LI, Belt Clip & Antenna)	9.9 oz (280 g) (w/SBR-23LI (Built-in), Belt Clip & Antenna)	HX150: 8.3 oz (235 g) (w/FNB-124LI, Belt Clip & Antenna) 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)	6 W / 2.5 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)	±5 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	More than 70dB	65 dB Typical
Audio Output	700 mW	700 mW	700 mW	700 mW	600 mW	600 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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