

STANDARD HORIZON

Nothing takes to water like Standard Horizon



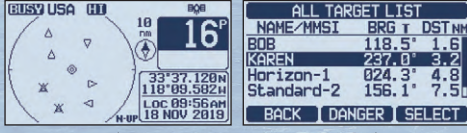
MARINE COMMUNICATIONS PRODUCT CATALOG 2020

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 RAM4W*¹ 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

*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



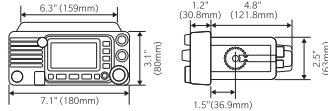
FIXED MOUNT DSC VHF WITH NMEA2000 & BUILT-IN AIS / GPS RECEIVER, 30W PA/ FOG, RAM4/RAM4W COMPATIBLE

NEW for 2020 GX2400GPS

MATRIX NMEA2000 GPS BUILT-IN AIS GPS ITUCLASSD

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

Body color: ● Black



IPX8 Submersible 1.5m for 30min

3 Year WARRANTY

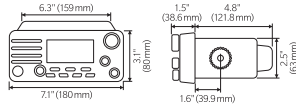
FIXED MOUNT DSC VHF WITH AIS INPUT, 30W PA/FOG, RAM3+ COMPATIBLE

GX2000

MATRIX ITUCLASSD

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

Body color: ● Black



IPX7 Submersible 1m for 30min

3 Year WARRANTY



- 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*⁵
- E20 (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*⁴
- Enter, Save, and Navigate to a waypoint using the Compass page*⁴
- Navigation (LAT/LON, Time, SOG and COG) information is shown on display*⁴
- Programmable CPA (Closest Point of Approach) or TCPA (Time to Closest Point of Approach) collision avoidance alarms*⁴
- Commercial grade receiver (Spurious & Image rejection better than -80dB)
- 30 Watt PA/Loud Hailer with programmed fog signals and listen back*⁶
- 4-Code Voice Scrambler (Optional)*³
- GM (Group Monitor) Using DSC Group position Calling *²
- MOB (Man over Board) Operation*²
- Excellent Visibility with Busy LED Indicator
- Selectable Night Mode Display *²
- NOAA Weather Channels with Weather Alert

Icon Function List

Radio Specifications ▶	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	3 Year WARRANTY	
Usability ▶	E20 Easy To Operate	16/9	16/5	LARGE DISPLAY	Li-Ion Battery Included	Li-Polymer Battery Built-in	AC and DC Charger Included	USB Charger Included	Connectivity ▶	SECOND STATION	OPTIONAL MIC / HEADSET	LOUD HAILER
Features ▶	CLASS D	CLASS H	DSC DISTRESS and POS Polling	GM Group Monitor	GPS COMPASS	WAYPOINT NAV	GPS	AIS	Broadcast Radio Receiver	MOB Man Overboard	STROBE LIGHT	NOAA WEATHER CHANNELS / ALERT

*² GX2400GPS only *³ GX2000 only *⁴ GX2000 requires connection to external GPS device *⁵ GX2000 requires connection to external AIS receiver *⁶ Listen-back feature: only for GX2400GPS

EXPLORER Series

FIXED MOUNT MARINE VHF COMPATIBLE WITH NMEA 2000

GX1850GPS



GPS NMEA2000 ITUCLASS D

GX1850



NMEA2000 ITUCLASS D

FIXED MOUNT MARINE VHF

GX1800GPS



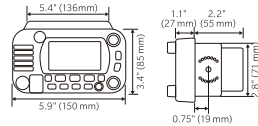
GPS ITUCLASS D

GX1800

ITUCLASS D

Supplied Accessories:
Power Cord and Mounting Bracket

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



- 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 (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



- Programmable Scan, Priority Scan, and Multi Watch
- Automatic DSC polling of up to 6 ships GPS positions
- GPS Compass, Waypoint and GPS status pages*7
- Enter, Save, and Navigate to a waypoint using the Compass page*7
- Navigation (LAT/LON, SOG, and COG) information shown on display*7
- 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

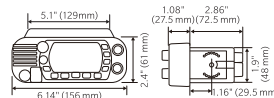
FIXED MOUNT MARINE VHF

GX1400

ITUCLASS D

Supplied Accessories:
Power Cord and Mounting Bracket

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



- Meets ITU-R M.493-15 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 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

Model	Microphone / Cable				Access Point / GPS Antenna			Encryption	Cover	External Speaker	Hail / PA Speaker	Bracket		
	SSM-71H Wireless Remote Access Microphone RAM4*10	SSM-70H Remote Access Microphone RAM4	CMP31B / CMP31W Remote station microphone (Black/White) RAM3+	SDD-14 USB DC Charger with Cigarette Lighter Plug for SSM-71H	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-71H (RAM4W) 49ft.(15m) of cable	SCU-31 External GPS antenna with 49ft (15m) of cable	CVS2500A 4-Code Voice scrambler	Dust Cover	MLS-300 External Speaker	220SW 130mm Round PA/hailing horn 30W 4 Ohm	240SW W224 × H163mm Rectangular PA/hailing horn 40W 4 Ohm	Flush mount bracket
GX2400GPS	•	•	•	•	•	•	•	•	•	•	•	•	•	MMB-84
GX2000		•	•	•	•	•	•	•	•	•	•	•	•	MMB-84
GX1850GPS		•	•	•	•	•	•	•	•	•	•	•	•	MMB-97
GX1850		•	•	•	•	•	•	•	•	•	•	•	•	MMB-97
GX1800GPS		•	•	•	•	•	•	•	•	•	•	•	•	MMB-97
GX1800		•	•	•	•	•	•	•	•	•	•	•	•	MMB-97
GX1400GPS						•	•	•	•	•	•	•	•	MMB-84
GX1400						•	•	•	•	•	•	•	•	MMB-84

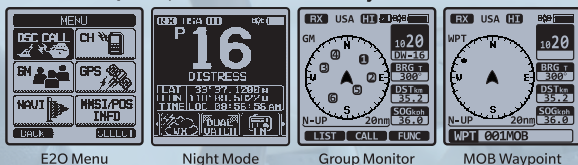
*7 GX1850/GX1800 requires connection to external GPS device *8 GX1850GPS/ GX1800GPS only *9 GX1400GPS only *10 Requires optional Wireless Access point (SCU-30)

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.493-15 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 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 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	●*2	●	SBR-13LI 1800mAh Li-Ion*2	SBT-13 (5 x AAA)*2	SBH-32*2	SAD-25*2	E-DC-19A*2	●*2	CLIP-22*2
HX40	●*2	●	1850mAh (Dealer replaceable)		SBH-27*2	SAD-25*2	E-DC-19A*2		SHB-19*2
HX210	●*2	●	1850mAh (Dealer replaceable)		SBH-25*2	SAD-25*2	E-DC-19A*2		CLIP-22*2
HX300	●*2	●	SBR-27LI 1800mAh Li-Ion*2	FBA-44 (3 x AAA)		SAD-27*2			CLIP-22*2

*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



ULTRA COMPACT VHF HANDHELD

HX40

IPX7
Submersible
1m for 30min

FLOATING*
* When fitted into optional flotation case

3 Year WARRANTY

6W Transmit Power

LOUD AUDIO

E 2 0 Easy To Operate

16 / S CH 16 / S Quick Access (S: Sub-channel)

Li-Polymer Battery Built-in

AC and DC Charger Included

OPTIONAL MIC / HEADSET

FM Broadcast Radio Receiver

NOAA WEATHER CHANNELS / ALERT

► 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" × 3.74" × 1.3" (52mm × 95mm × 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 × 3.74"H × 1.3"D, 52mm × 95mm × 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)
- CH 16/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

IPX7
Submersible
1m for 30min

FLOATING

3 Year WARRANTY

6W Transmit Power

LOUD AUDIO

E 2 0 Easy To Operate

16 / S CH 16 / S Quick Access (S: Sub-channel)

Li-Polymer Battery Built-in

AC and DC Charger Included

OPTIONAL MIC / HEADSET

FM Broadcast Radio Receiver

STROBE LIGHT

NOAA WEATHER CHANNELS / ALERT

► 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" × 5.20" × 1.57" (60mm × 132mm × 40mm)
Weight:
9.88oz (280g) (with: Hand Strap, Belt Clip & Antenna)

- Floating
- Compact Case design (2.36"W × 5.20"H × 1.57"D, 60mm × 132mm × 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)
- CH 16/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

IPX8
Submersible
1.5m for 30min

FLOATING

3 Year WARRANTY

3.7V Battery technology

LOUD AUDIO

E 2 0 Easy To Operate

16 / 9 CH 16 / 9 Quick Access

Li-Ion Battery Included

AC and DC Charger Included

USB Charger Included

NOAA WEATHER CHANNELS / ALERT

► Supplied Accessories:

- CAT460 Antenna, SBR-27LI 3.7V 1800mAh Li-Ion Battery Pack, SAD-27 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" × 5.04" × 1.3" (59mm × 128mm × 33mm)
Weight:
8.4oz (240g) (with: SBR-27LI, Belt Clip & Antenna)



- Floating
- Compact Case design (2.32"W × 5.04"H × 1.3"D, 59mm × 128mm × 33mm)
- Selectable 5 and 1 Watt transmit power output
- 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)
- CH 16/9 Quick Access
- Supplied with 3.7V 1800mAh Li-Ion battery
- NOAA Weather Channels with Weather Alert
- Unique USB charging system
- Water activated light

	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		•	•	•	•	•	•	•	•

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 2020

GX6500 QUANTUM Class B AIS/GPS

Class B AIS Transponder

66 ch GPS

NMEA 2000

ITUCLASS D

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

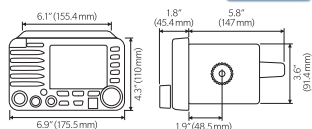
GX6000 QUANTUM AIS

NMEA 2000

ITUCLASS D

- Supplied Accessories:
Hand Microphone, Power Cord, Mounting Bracket, External GPS Antenna SCU-31*2, USB Cable

Body color: ● Black



- Meets ITU-R M493-15 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) 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 RAM4W
- 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

IPX8 Submersible 1.5m for 30min

3 Year WARRANTY

*2 GX6500 only



Loud Hailer

30W DUAL ZONE LOUD HAILER

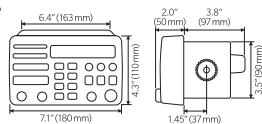
VLH-3000A

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

Body color: ● Black

IPX7 Submersible 1m for 30min

3 Year WARRANTY



- 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

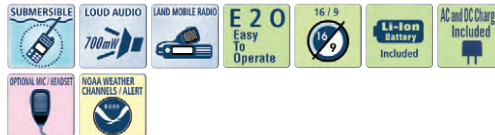


COMMERCIAL GRADE VHF WITH LMR CHANNELS

HX400

IPX8
Submersible
1.5m for 30min

3 Year
WARRANTY



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, SBH-36 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)



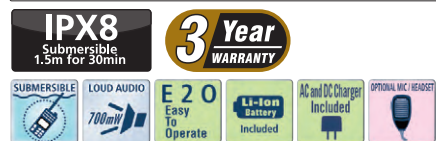
COMMERCIAL GRADE UHF

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)



- 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-19A² DC Cable with Cigarette Lighter Plug and CLIP-920 Belt Clip ^{+2 US version only}

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)



- 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			
Model	SSM-71H Wireless Remote Access Microphone RAM4W ³	SSM-70H Remote Access Microphone RAM4	SDD-14 USB DC Charger with Cigarette Lighter Plug for SSM-71H	CT-100 23ft (7m) extension cable for SSM-70H	MEK-4 Microphone Extension Kit 20ft (6m)	SCU-30 Wireless Access Point for SSM-71H (RAM4W) 49ft (15m) of Cable	SCU-31 External GPS Antenna with 49ft (15m) of Cable	
GX6500/GX6000 VLH-3000A	•	•	•	•	•	•	• ⁴	
	Bracket		External Speaker			Hail / PA Speaker		
Model	MMB-84 Flush Mount Bracket	MLS-300 External Speaker	MLS-310 External Speaker with 10W amplifier	MLS-300i Loud Hailer Intercom Speaker (with CALL button)	220SW 130mm Round PA/hailing horn 30W 4 Ohm	240SW W224 x H163mm Rectangular PA/hailing horn 40W 4 Ohm		
GX6500/GX6000 VLH-3000A	•	•	•	•	•	•		

Handheld VHF/UHF Radio Accessories

	Antenna / Adapter			Battery			Battery Charger				
Model	CAT460 VHF Marine Antenna	SRA-14G/H/J⁷ UHF Marine Antenna	CN-3 BNC-SMA Adapter	Rechargeable	Alkaline Battery tray	Cradle	AC Adapter	DC Cable (w/ Cigarette Lighter Plug)	SAD-1460 6 Unit Multi Charger		
HX400	• ⁶		•	FNB-29LI ⁶ 2550mAh Li-Ion	FBA-42 (6 x AA)	SBH-36 ^{6*8}	SAD-25 ^{6*9}	E-DC-30 ⁶	•		
HX400IS ⁵	• ⁶		•	SBR-29LIIS ⁶		SBH-36 ^{6*8}	SAD-25 ^{6*9}		•		
HX407		• ⁶	•	Intrinsically Safe 2550mAh Li-Ion	FBA-42 (6 x AA)	SBH-36 ^{6*8}	SAD-25 ^{6*9}	E-DC-30 ⁶	•		
HX380	• ⁶		•	FNB-115LI ⁶ 2300mAh Li-Ion	FBA-40 (6 x AA)	CD-48 ⁶	SAD-25 ⁶	E-DC-19A	•		
	Speaker Microphone / Vox Headset / Earpiece Microphone						Belt clip / Hanger		Case		
Model	SSM-14A⁵ Submersible speaker microphone with earphone jack	CMP460⁵ Submersible speaker microphone	MH-57A4B Speaker microphone	MH-73A4B Submersible speaker microphone	SEP-10A Earphone for SSM-14A	SSM-64A Vox Headset	SSM-55A Earpiece/microphone		SCH-11 Belt Clip Hanger	Leather Case and Nylon Case SHC-18: Leather Case w/ belt loop and shoulder strap SHC-19: Leather Case w/ swivel SHC-20: Nylon Case	
HX400	•	•	•	•	•	•	•	CLIP-22 ⁶	•	•	
HX400IS ⁵	•	•	•	•	•	•	•	CLIP-22 ⁶	•	•	
HX407	•	•	•	•	•	•	•	CLIP-22 ⁶	•	•	
HX380	•	•	•	•	•	•	•	CLIP-920 ⁶	•	•	

³ Requires optional Wireless Access point (SCU-30) ⁴ The same as the supplied accessory for GX6500 ⁵ Intrinsically Safe Version ⁶ The same as the supplied accessory ⁷ G for 400 - 430MHz / H for 420 - 450MHz / J for 440 - 470MHz ⁸ Requires SAD-25 ⁹ Requires SBH-36

FIXED MOUNT VHF AND LOUD HAILER SPECIFICATIONS

Fixed Mount VHF Radios

MODEL	GX6500/GX6000	GX2400GPs/GX2000	GX1850GPs/GX1850/GX1800GPs/GX1800	GX1400GPs/GX1400
GENERAL				
Frequency Range	Marine Band 156.025 - 163.275 MHz 13.8 VDC ±20 %	Marine Band 156.025 - 163.275 MHz 13.8 VDC ±20 %	Marine Band 156.025 - 163.275 MHz 13.8 VDC ±20 %	Marine Band 156.025 - 163.275 MHz 13.8 VDC ±20 %
Input Voltage	156.025 - 163.275 MHz 13.8 VDC ±20 %	156.025 - 163.275 MHz 13.8 VDC ±20 %	156.025 - 163.275 MHz 13.8 VDC ±20 %	156.025 - 163.275 MHz 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 (GX2400GPs) / 0.45 A (GX2000) Receive: 0.9 A (GX2400GPs) / 0.8 A (GX2000) 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)	GX2400GPs: 7.1"W x 3.1"H x 6.0"D (180W x 80H x 152.6D mm) GX2000: 7.1"W x 3.1"H x 6.3"D (180W x 80H x 160D mm)	GX2400GPs: 7.1"W x 3.1"H x 6.0"D (180W x 80H x 152.6D mm) GX2000: 7.1"W x 3.1"H x 6.3"D (180W x 80H x 160D mm)	GX1400GPs: 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)	GX2400GPs: 6.3"W x 2.6"H x 6.2"D (161W x 65H x 157D mm) GX2000: 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)	GX2400GPs: 3.3 lbs / 1.5 kg, GX2000: 3.1 lbs / 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	-	-
TRANSMITTER				
RF Output	25 W (Hi), 1 W (Lo)	25 W (Hi), 1 W (Lo)	25 W (Hi), 1 W (Lo)	25 W (Hi), 1 W (Lo)
Conducted Spurious Emissions	Less than -80 dBc (Hi), -66 dBc (Lo)	Less than -80 dBc (Hi), -66 dBc (Lo)	Less than -80 dBc (Hi), -66 dBc (Lo)	Less than -80 dBc (Hi), -66 dBc (Lo)
Frequency Stability	+3 ppm (-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
RECEIVER (for Voice and DSC)				
Sensitivity (12 dB SINAD)	0.30 µV	0.30 µV	0.25 µV	0.25 µV
Spurious and Image Rejection	80 dB for Voice (75 dB for DSC)	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.493-15	Class D ITU-R M.493-15	Class D ITU-R M.493-15	Class D ITU-R M.493-15
Frequency for AIS (Transmitter*1)	161.975 MHz (AIS CH A) 162.025 MHz (AIS CH B)	-	-	-
RECEIVER (for AIS)				
Sensitivity	0.5 µV	0.5 µV*2	-	-
Spurious and Image Rejection	70 dB for AIS	70 dB for AIS*2	-	-
Intermodulation and Rejection	70 dB for AIS	70 dB for AIS*2	-	-
NMEA Input/Output				
NMEA 2000	Compatible	Compatible*2	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 and GSV (38400 bps) Output: DSC, DSE, GGA*2, GLL*2, GNS*2, RMC*2, GSA*2 and GSV*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 GX2400GPs only *3 GX1850GPs and GX1800GPs *4 GX1400GPs only

Loud Hailer

MODEL	VLH-3000A
GENERAL	
Input Voltage	13.8 VDC ±20 %
PA Horn Output	30W : 2ch (at 4 ohm 10 % distortion)
Intercom Output	4W : 2ch (at 4 ohm 10 % distortion)
Listen-Back Input Level	2 mV
AF Output	
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 (-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	GX6500/GX2400GPs/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	HX400/HX400IS	HX407	HX380	
GENERAL								
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	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	Li-Ion 2550 mAh	Li-Ion 2300 mAh	Li-Ion 1600 mAh	
Input Voltage	7.4 VDC	7.4 VDC	7.4 VDC	7.4 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: 330 mA (Typical at MAX AF Output) Transmit: 2.3 A / 0.9 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: 70 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)
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)	2.24"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-13LI, 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-27LI, 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)	
TRANSMITTER								
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)	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 µV	Less than 0.25 µV	Less than 0.25 µV	-75 dBc Typical	-75 dBc Typical	-75 dBc Typical	At least 36 dBm below	
Frequency Stability	+3 ppm (-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)	+2.5 ppm (-22° 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	40 dB	
RECEIVER								
Sensitivity (12 dB SINAD)	0.25 µV	0.25 µV	0.25 µV	0.25 µV	0.25 µV	0.25 µV	0.25 µV	
Selectivity	12 kHz / 25 kHz (-6 dB / -60 dB)	12 kHz / 25 kHz (-6 dB / -60 dB)	12 kHz / 25 kHz (-6 dB / -60 dB)	25 kHz (-70 dB)	12 kHz / 25 kHz (-6 dB / -60 dB)	12 kHz / 25 kHz (-6 dB / -60 dB)	12 kHz / 25 kHz (-6 dB / -60 dB)	
Audio Output	700 mW	600 mW	600 mW	600 mW	700 mW	700 mW	700 mW	
DSC Format	Class-H ITU-R M.493-15	-	-	-	-	-	-	
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 (@Hot Start)	-	-	-	-	-	-	
Geodetic Datum	WGS84	-	-	-	-	-	-	
SBAS Correction	WAAS, EGNOS, MSAS and GAGAN	-	-	-	-	-	-	

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