

STANDARD HORIZON

Nothing takes to water like Standard Horizon




MARINE COMMUNICATIONS PRODUCT CATALOGUE 2019

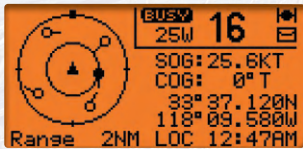
EUROPE / ASIA PACIFIC

Fixed Mount VHF Radios

POWER, PERFORMANCE, RELIABILITY

ADVANCED FEATURES

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



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

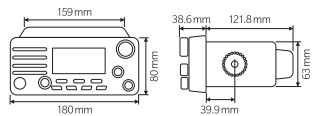


FIRST FIXED MOUNT VHF WITH BUILT-IN AIS/GPS RECEIVER
30W PA/FOG and RAM3+ COMPATIBLE

GX2200E 
MATRIX AIS/GPS BUILT-IN AIS **GPS** **ITUCLASSD**

► Supplied Accessories:
Power Cord and Mounting Bracket

Body colour: ● Black



IPX7
Submersible
1m for 30min

3 Year
WARRANTY



- Meets ITU-R M.493-14 Class D (Digital Selective Calling) (Asia, Australia: Meets ITU-R M.493-13 Class D)
- Separate Receiver for CH70 (Receiving DSC Calls)
- NMEA 0183 Connectivity
- E2O (Easy to Operate) Menu System
- Preset key used to recall up to 10 favourite channels
- Intercom Feature between the Radio and Optional Second station
- Programmable Scan, Priority Scan, and Multi Watch
- DSC position request and report functions
- GPS Compass, Waypoint and GPS status pages
- Navigate to waypoints that are Entered & Saved on the Compass page
- Navigation (LAT/LON, Time, SOG and COG) information is shown on display
- Contact Class A or Class B AIS equipped vessels with DSC
- Programmable CPA (Closest Point of Approach) or TCPA (Time to Closest Point of Approach) collision avoidance alarms
- 4800 or 38400 NMEA 0183 baud rate selection, for plotters with 1 NMEA port
- Local / Distance receiver Attenuator
- Oversized rotary channel knob with push to enter, backlit display and key buttons
- 30 Watt PA/Loud Hailer with programmed fog signals and listen back
- Voice Scrambler (optional)
- ATIS mode for European Inland waterways

Icon Function List



NEW for 2019 *EXPLORER Series*

FIXED MOUNT MARINE VHF COMPATIBLE WITH NMEA 2000

GX1850GPS/E  

GX1850GPS  

GPS **NMEA2000** **ITUCLASSD**

GX1850 

NMEA2000 **ITUCLASSD**

FIXED MOUNT MARINE VHF

GX1800GPS/E 

GX1800GPS 

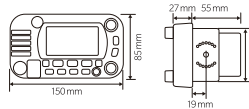
GPS **ITUCLASSD**

GX1800

ITUCLASSD

► Supplied Accessories:
Power Cord and Mounting Bracket

Body colour: ● Black ○ White*1



- Meets ITU-R M.493-14 Class D (Digital Selective Calling) (Asia, Australia : Meets ITU-R M.493-13 Class D)
- Separate Receiver for CH70 (Receiving DSC Calls)
- Ultra-slim and compact Rear case design (D=82mm)
- Built-in Integrated 66 Channel GPS receiver (GX1850GPS/E, GX1850GPS, GX1800GPS/E, GX1800GPS)
- NMEA2000 Compatible (GX1850GPS/E, GX1850GPS, GX1850)
- NMEA 0183 Connectivity • E2O (Easy to Operate) Icon & Menu System
- Preset key used to recall up to 10 favourite channels
- Second Station Remote Microphone (Optional RAM4 SSM-70H)
- Intercom Feature between the Radio and an Optional Second Station



Optional RAM4
Second Station

	Europe		Asia and Australia			
Model	GX1850GPS/E	GX1800GPS/E	GX1850GPS	GX1850	GX1800GPS	GX1800
Body Colour	Black	Black	Black/White	Black/White	Black/White	Black/White
GPS	●	-	●	●	-	-
NMEA2000	●	-	●	●	-	-

IPX8
Submersible
1.5m for 30min

3 Year
WARRANTY



- 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 cancelling microphone with channel change selection, 16/S and H/L keys
- ATIS mode for European Inland waterways (GX1850GPS/E, GX1800GPS/E)

NEW for 2019 *ECLIPSE Series*

FIXED MOUNT MARINE VHF WITH GPS

GX1400GPS/E 

GX1400GPS 

GPS **ITUCLASSD**

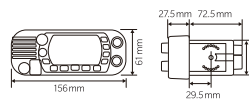
FIXED MOUNT MARINE VHF

GX1400

ITUCLASSD

► Supplied Accessories:
Power Cord and Mounting Bracket

Body colour: ● Black ○ White*1



- Meets ITU-R M.493-14 Class D (Digital Selective Calling) (Asia, Australia : Meets ITU-R M.493-13 Class D)
- Separate Receiver for CH70 (Receiving DSC Calls)
- Ultra-Compact Case design (156W × 61H × 100Dmm)
- Built-in Integrated 66 Channel GPS receiver (GX1400GPS/E, GX1400GPS)
- NMEA 0183 Connectivity • E2O (Easy to Operate) Icon & Menu System
- Preset key used to recall up to 10 favourite channels



	Europe	Asia and Australia	
Model	GX1400GPS/E	GX1400GPS	GX1400
Body Colour	Black	Black/White	Black/White
GPS	●	●	-

IPX8
Submersible
1.5m for 30min

3 Year
WARRANTY



- 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 cancelling microphone (with channel Up/Down, 16/S and H/L power selection keys)
- ATIS mode for European Inland waterways (GX1400GPS/E)

Fixed Mount VHF Radio Accessories




Model	Microphone / Cable	External GPS Antenna	Encryption	Cover	External Speaker	Hail / PA Speaker	Bracket					
	SSM-70H Remote Access Microphone RAM4	CMP31B / CMP31W Remote station microphone (Black/White) RAM3+	CT-100 7m extension cable for SSM-70H/CMP31	SCU-38 External GPS antenna with 5m of cable	SCU-31 External GPS antenna with 15m of cable	CVS2500A Voice scrambler	Dust Cover	MLS-300 External Speaker	MLS-310 External Speaker with 10W amplifier	220SW 114mm Round PA/hailing horn 30W 4 Ohm	240SW 127mm × 203mm Rectangular PA/hailing horn 40W 4 Ohm	Flush mount bracket
GX2200E	●	●	●	●	●	●	●	●	●	●	●	MMB-84
GX1850GPS/E (GPS)	●	●	●	●	●	●	●	●	●	●	●	MMB-97
GX1850	●	●	●	●	●	●	●	●	●	●	●	MMB-97
GX1800GPS/E (GPS)	●	●	●	●	●	●	●	●	●	●	●	MMB-97
GX1800	●	●	●	●	●	●	●	●	●	●	●	MMB-97
GX1400GPS/E (GPS)	●	●	●	●	●	●	●	●	●	●	●	MMB-84
GX1400	●	●	●	●	●	●	●	●	●	●	●	MMB-84

*1 Available in Black and White (Asia and Australia) *2 GX1850/GX1800 requires connection to external GPS device *3 GX1850GPS/E, GX1850GPS, GX1800GPS/E, GX1800GPS only *4 GX1400GPS/E, GX1400GPS only


Floating Handheld VHF Radios

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


ADVANCED FEATURES

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


E2O Menu



Night Mode



Group Monitor



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



Navy Blue

Solid Black



CLASS-H DSC & GPS FLOATING 6W VHF

HX890E

- ▶ 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 colour: ● Navy Blue ● Solid Black

Overall Dimensions: 66mm x 138mm x 38mm
Weight: 310g (with: SBR-13LI, Hand Strap, Belt Clip & Antenna)

IPX8
Submersible
1.5m for 30min

FLOATING

3 Year
WARRANTY

SUBMERSIBLE

6W
Transmit Power

LOUD AUDIO

E2O
Easy to Operate

16 / S

LARGE DISPLAY

Li-ion Battery
Included

AC and DC Charger
Included

OPTIONAL MIC / HEADSET

CLASS H

DSC
DISTRESS and
POS Calling

GM
Group Monitor

GPS COMPASS

WAYPOINT NAV

GPS

MOB
Man Overboard

FM
Broadcast Radio
Receiver

STROBE LIGHT

- Floating
- Extended Range 6W (5W)*1 Transmit Power Output (Selectable 6 (5)/2/1W)
- 700mW Loud Audio Output
- Preset key used to recall up to 10 favourite 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*2
- ATIS mode for European Inland waterways
- Selectable Night Mode Display
- GM (Group Monitor) using DSC Group position Calling
- DSC Test Calling and Auto DSC Channel Change Selection

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

*1 5W TX power required in some countries

*2 Based on Duty Cycle = (TX) 5sec: (RX) 5sec: (Standby) 90sec; with 6W TX power, GPS: ON, DSC: ON

Handheld VHF Radio Accessories

Model	Antenna / Adapter		Battery		Battery Charger			
	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
HX890E	•*3	•	SBR-13LI 1800mAh Li-Ion*3	SBT-13 (5 x AAA)*3	SBH-32*3	SAD-25*3	E-DC-19A*3	
HX40E	•*3	•	1850mAh (Dealer replaceable)		SBH-27*3	SAD-25*3	E-DC-19A*3	
HX210E	•*3	•	1850mAh (Dealer replaceable)		SBH-25*3	SAD-25*3	E-DC-19A*3	
HX300E	•*3	•	SBR-27LI 1800mAh Li-Ion*3	FBA-44 (3 x AAA)		SAD-17*3		



ULTRA COMPACT VHF HANDHELD

HX40E

IPX7
Submersible
1m for 30min

FLOATING^{*}

3 Year WARRANTY

* When fitted into optional flotation case

SUBMERSIBLE
6W Transmit Power
LOUD AUDIO
E20 Easy To Operate
16 / S

Li-Polymer Battery Built-in
AC and DC Charger Included
OPTIONAL MIC / HEADSET
FM Broadcast Radio Receiver

► 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: 52mm × 95mm × 33mm
Weight: 230g (with: Hand Strap, Belt Clip & Antenna)

- Floating (When fitted into optional flotation case)
- Ultra-Compact Case design (52W × 95H × 33Dmm)
- 6W (5W)^{*1} transmit power output (Selectable 6 (5)/2.5/1W)
- 600mW Loud Audio Output
- Preset key used to recall up to 10 Favourite 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)
- ATIS mode for European Inland waterways
- FM Broadcast Radio Receiver

^{*1} 5W TX power required in some countries



COMPACT FLOATING VHF HANDHELD

HX210E

IPX7
Submersible
1m for 30min

FLOATING

3 Year WARRANTY

SUBMERSIBLE
6W Transmit Power
LOUD AUDIO
E20 Easy To Operate
16 / S

Li-Polymer Battery Built-in
AC and DC Charger Included
OPTIONAL MIC / HEADSET
FM Broadcast Radio Receiver
STROBE LIGHT

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

- Floating
- Compact Case design (60W × 132H × 40Dmm)
- 6W (5W)^{*1} transmit power output (Selectable 6 (5)/2.5/1W)
- 600mW Loud Audio Output
- Preset key used to recall up to 10 Favourite 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)
- ATIS mode for European Inland waterways
- FM Broadcast Radio Receiver
- Water activated strobe light

^{*1} 5W TX power required in some countries



COMPACT FLOATING VHF HANDHELD

HX300E

IPX8
Submersible
1.5m for 30min

FLOATING

3 Year WARRANTY

SUBMERSIBLE
LOUD AUDIO
3.7V Battery technology
E20 Easy To Operate
16 / S

Li-Ion Battery Included
USB Charger Included

► Supplied Accessories:

CAT460 Antenna, SBR-27L1 3.7V 1800mAh Li-Ion Battery Pack, SAD-17 AC Adapter, CLIP-22 Belt Clip, Hand Strap and T9101606 USB Cable

Overall Dimensions: 59mm × 128mm × 33mm
Weight: 240g (with: SBR-27L1, Belt Clip & Antenna)

- Floating
- Compact Case design (59W × 128H × 33Dmm)
- Selectable 5 and 1 Watt transmit power output
- 600mW Loud Audio Output
- Preset key used to recall up to 10 Favourite channels
- Easy to Operate Menu System
- Scanning operation and Multi-Watch (Dual Watch and Triple Watch)
- CH16/9 Quick Access
- Supplied with 3.7V 1800mAh Li-Ion battery
- ATIS mode for European Inland waterways
- USB charging system
- Water activated light



Model	Belt clip / Case / Hanger				Speaker Microphone / Vox Headset / Earpiece Microphone				
	SHC-29 Flotation case for HX40	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
HX890E	CLIP-22 ^{*3}	•	•	•	•	•	•	•	•
HX40E	SHB-19 ^{*3}	•	•	•	•	•	•	•	•
HX210E	CLIP-22 ^{*3}	•	•	•	•	•	•	•	•
HX300E	CLIP-22 ^{*3}	•	•	•	•	•	•	•	•

^{*3} The same as the supplied accessory

Commercial Grade Marine VHF

BUILT BY PROFESSIONALS FOR PROFESSIONALS

ADVANCED FEATURES

- Integrated AIS (Automatic Identification System) Class B Transponder (GX6500E/GX6500 only) 
- Capable of connecting two wired RAM4 or one wired RAM4 and four wireless RAM4W*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 (GX6500E, GX6500 and GX6000E)
- GPS Compass, Waypoint and GPS status pages
- Dual Zone 25W PA/Loud Hailer with preprogrammed fog signals and listen back
- Submersible IPX8 (1.5 meters for 30 minutes)
- Integrated 32 Code Voice Scrambler and 4 Code Voice Scrambler

*1 Requires Optional Wireless Access Point SCU-30



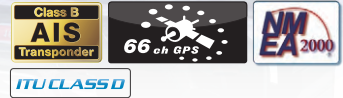
Optional Wireless Access point (SCU-30) with 15m cable

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

Fixed Mount VHF Radio

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

NEW for 2019 **GX6500E/GX6500** QUANTUM Class B AIS/GPS
GX6500E: for Europe / GX6500: for Asia and Australia



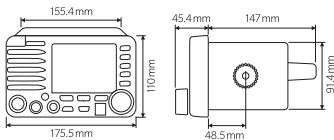
FIXED MOUNT VHF WITH NMEA 2000 AND INTEGRATED DUAL CHANNEL AIS RECEIVER

GX6000E/GX6000 QUANTUM AIS
GX6000E: for Europe / GX6000: for Asia and Australia



Supplied Accessories:

Hand Microphone, Power Cord, Mounting Bracket and Hardware,
External GPS Antenna SCU-31², USB Cable



*2 GX6500E, GX6500 and GX6000E

- Meets ITU-R M493-14 Class D DSC (Digital Selective Calling) (Asia, Australia: Meets ITU-R M.493-13 Class D)
- 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 6m using MEK-4 mic extension kit
- E2O (Easy to Operate) menu system
- User customisable soft keys for easy menu operation
- Programmable CPA or TCPA collision avoidance alarms
- 80dB Commercial grade receiver
- Local/Distance receiver Attenuator
- Noise cancelling for both transmit and receive audio

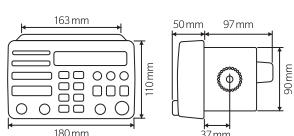
Loud Hailer

30W DUAL ZONE LOUD HAILER

VLH-3000A



Supplied Accessories:
Mounting Bracket, Power Cord and Dust Cover



- 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 cancelling microphone
- Easy push button control



*2

- Intercom Feature between the Radio, RAM4 and wireless RAM4W
- Integrated Voice Recorder to playback up to two minutes of RX (receive) audio
- Selectable 4800 or 38400 baud rate for plotters
- GM (Group Monitor) using DSC Group Position Call
- MOB (Man Overboard) GPS Location Function
- Contact Class A and Class B AIS ships using the DSC individual call
- Programmable Scan, Priority Scan, and Multi Watch
- Automatic polling of up to 7 ships GPS positions *3
- Enter, Save, and Navigate to a waypoint using the Compass page*3
- Navigation (LAT/LON, SOG, and COG) information shown on display*3
- Navigate to the location of a DSC Distress Call using the Compass Page
- ATIS mode for European Inland waterways

*3 GX6000 (Asia and Australia) requires connection to external GPS device



- 2W Loud internal speaker audio Output
- Compatible with optional MLS-300i intercom speaker with IC1 and IC2 Push-to-Alert Button
- Compatible with MLS-300 and MLS-310 (10W amplified) external speakers
- Adjustable Backlight

COMMERCIAL GRADE VHF WITH LMR CHANNELS

HX400E
INTRINSICALLY SAFE
HX400IS

IPX8
Submersible
1.5m for 30min

3 Year
WARRANTY

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 filings (Non-CE version)

► Supplied Accessories (HX400E/HX400IS):

CAT460 Antenna, SBR-29LI (HX400E) / SBR-29LIIS (HX400IS) 7.4V 2550mAh Li-Ion Battery Pack, CD-50 Charger Cradle, PA-45 AC Adapter, CLIP-22 Belt Clip and Hand Strap

Overall Dimensions (HX400E/HX400IS): 57mm × 133mm × 40mm
Weight: 350g (with: SBR-29LI (HX400E) / SBR-29LIIS (HX400IS), Belt Clip & Antenna)

SUBMERSIBLE | LOUD AUDIO | LAND MOBILE RADIO | E 2 0 | 16 / 9 | Li-Ion Battery | OPTIONAL MIC HEADSET

- 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 (HX400E only)
- Built-in Noise cancelling microphone
- Voice Scrambler
- Scanning operation and Multi-Watch (Dual Watch or Triple Watch)
- Certified Intrinsically Safe (HX400IS only)
- Supplied with Intrinsically safe 7.4V 2550mAh Li-Ion battery (HX400IS only)



COMMERCIAL GRADE UHF ON-BOARD RADIO

HX407E On-board
INTRINSICALLY SAFE
HX407E ATEX

IPX8
Submersible
1.5m for 30min

3 Year
WARRANTY

ATEX Intrinsically Safe
Approval Classes:
II 2 G Ex ib IIC Gb T4
II 2 D Ex ib IIIC Db T135°C

NEW
for 2019

► Supplied Accessories:

HX407E On-board: SRA-14 Antenna, FNB-115LI 7.4V 2300mAh Li-Ion Battery Pack, CD-50 Charger Cradle, PA-45 AC Adapter, Clip-22 Belt Clip and Hand Strap
HX407E ATEX: SRA-14 Antenna, SBR-30LIE X 7.4V 1600mAh Li-Ion Battery Pack, SBH-35 Charger Cradle, PA-45 AC Adapter, SHB-20 Belt Clip and Hand Strap

Overall Dimensions: 57mm × 133mm × 40mm
Weight: 350g (with: FNB-115LI (HX407E On-board) / SBR-30LIE X (HX407E ATEX), Belt Clip & Antenna)

SUBMERSIBLE | LOUD AUDIO | E 2 0 | Li-Ion Battery | OPTIONAL MIC HEADSET

- Selectable 1.5 and 0.5 Watt transmit power output (HX407E on-board only)
- 32 Programmable Marine UHF Channels
- 700mW Loud Audio Output
- Supplied with 7.4V 2300mAh Li-Ion battery (HX407E on-board only)
- Noise cancelling function for transmit and receive audio
- Voice Scrambler
- Scanning operation and Dual Watch
- Certified ATEX Intrinsically Safe (HX407E ATEX only)
- Selectable 1 and 0.5 Watt transmit power output (HX407E ATEX only)
- Supplied with Intrinsically safe 7.4V 1600mAh Li-Ion battery (HX407E ATEX only)



COMMERCIAL VHF WITH LMR CHANNELS

HX380

IPX7
Submersible
1m for 30min

3 Year
WARRANTY

(Non-CE version)

► Supplied Accessories:

CAT460 Antenna, FNB-V105LI 7.4V 1600mAh Li-Ion Battery Pack, CD-48 Charger Cradle, PA-48 AC Adapter and CLIP-920 Belt Clip

Overall Dimensions: 57mm × 133mm × 33mm
Weight: 320g (with: FNB-V105LI, Belt Clip & Antenna)

SUBMERSIBLE | LOUD AUDIO | LAND MOBILE RADIO | E 2 0 | 16 / 9 | Li-Ion Battery | AC and DC Charger | OPTIONAL MIC HEADSET

- 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

Model	Microphone / Cable				Access Point / GPS Antenna		
	SSM-70H Remote Access Microphone RAM4	SSM-71H Wireless Remote Access Microphone RAM4W*4	SDD-14 USB DC Charger with Cigarette Lighter Plug for SSM-71H	CT-100 7m extension cable for SSM-70H	MEK-4 Microphone Extension Kit (6m)	SCU-30 Wireless Access Point for SSM-71H (RAM4W)	SCU-31 External GPS Antenna with 15m of Cable
GX6500E/GX6500 GX6000E/GX6000 VLH-3000A	•	•	•	•	•	•*5	
Model	Bracket		External Speaker		Hail / PA Speaker		
	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 114mm Round PA/hailing horn 30W 4 Ohm	240SW 127mm × 203mm Rectangular PA/hailing horn 40W 4 Ohm	
GX6500E/GX6500 GX6000E/GX6000 VLH-3000A	•	•	•	•	•	•	

Handheld VHF/UHF Radio Accessories

Model	Antenna / Adapter			Battery		Battery Charger		
	CAT460 VHF Marine Antenna	SRA-14G/H/J*8 UHF Marine Antenna	CN-3 BNC-SMA Adapter	Rechargeable	Alkaline Battery tray	Cradle	AC Adapter	SAD-1460 6 Unit Multi Charger
HX400E	•*7	•	•	•	•	•	•	
HX400IS*6	•*7	•	•	•	•	•	•	
HX407E On-board	•*7	•	•	•	•	•	•	
HX407E ATEX*6	•*7	•	•	•	•	•	•	
HX380	•*7	•	•	•	•	•	•	
Model	Speaker Microphone / Vox Headset / Earpiece Microphone					Belt clip / Hanger		Case
	SSM-14A*6/ SSM-18A*6 Submersible speaker microphone with earphone jack	MH-57A4B Speaker microphone	MH-73A4B Submersible speaker microphone	CMP460*6 Submersible speaker microphone	SEP-10A Earphone for SSM-14A	SSM-55A Earpiece / microphone	SSM-64A Vox Headset	SCH-11 Belt Clip Hanger
HX400E	•	•	•	•	•	•	•	•
HX400IS*6	•	•	•	•	•	•	•	•
HX407E On-board	•	•	•	•	•	•	•	•
HX407E ATEX*6	• (SSM-18A: ATEX version)	•	•	•	•	•	•	•
HX380	•	•	•	•	•	•	•	•

*4 Requires Optional Wireless Access Point SCU-30 *5 The same as the supplied accessory for GX6500E, GX6500 and GX6000E *6 Intrinsically Safe Version *7 The same as the supplied accessory *8 G for 400-430MHz / H for 420-450MHz / J for 440-470MHz
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FIXED MOUNT VHF AND LOUD HAILER SPECIFICATIONS

Fixed Mount VHF Radios

MODEL	GX6500E, GX6500 GX6000E, GX6000*1	GX2200E	GX1850GPS/E, GX1850GPS, GX1850 GX1800GPS/E, GX1800GPS, GX1800*3	GX1400GPS/E, GX1400GPS, GX1400*4
GENERAL				
Frequency Range	Marine Band 156.025 - 163.275 MHz	Marine Band 156.025 - 163.275 MHz	Marine Band 156.025 - 163.275 MHz	Marine Band 156.025 - 163.275 MHz
Input Voltage	13.8 VDC ±20 %	13.8 VDC ±20 %	13.8 VDC ±20 %	13.8 VDC ±20 %
Current Drain	Standby: 0.55 A Receiver: 0.9 A Transmit: 5.0 A (Hi), 1.0 A (Lo)	Standby: 0.55 A Receiver: 0.9 A Transmit: 5.0 A (Hi), 1.0 A (Lo)	Standby: 0.45 A Receiver: 0.8 A Transmit: 5.0 A (Hi), 1.0 A (Lo)	Standby: 0.3 A Receiver: 1.2 A Transmit: 5.0 A (Hi), 1.0 A (Lo)
Overall Dimensions	175.5W × 110H × 173.3D mm	180W × 80H × 160D mm	150W × 85H × 82D mm	156W × 61H × 100D mm
Flush-Mount Dimensions	158W × 94H × 158D mm	161W × 65H × 150D mm	138W × 73H × 95D mm	131W × 50H × 120D mm
Weight	1.66 kg	1.45 kg	940 g	800 g
PA/FOG Power Output	25 W with listen back	30 W with 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 -80dBc (Hi), -66 dBc (Lo)
Frequency Stability	±3 ppm (-20° C to +60° C)	±3 ppm (-20° C to +60° C)	±3 ppm (-20° C to +60° C)	±3 ppm (-20° C to +60° C)
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 / 70 dB for AIS)	80 dB for Voice (75 dB for DSC)	75 dB for Voice (75 dB for DSC)	75 dB for Voice (70 dB for DSC)
Intermodulation and Rejection	80 dB for Voice (75 dB for DSC / 70 dB for AIS)	80 dB for Voice (75 dB for DSC)	75 dB for Voice (70 dB for DSC)	70 dB for Voice (70 dB for DSC)
Audio Output	10 W	4.5 W	4.5 W	4.5 W
DSC Format	Class D ITU-R M.493-14 (GX6500E, GX6000E) Class D ITU-R M.493-13 (GX6500, GX6000)	Class D ITU-R M.493-14	Class D ITU-R M.493-14 (GX1850GPS/E, GX1800GPS/E) Class D ITU-R M.493-13 (GX1850GPS, GX1800, GX1800GPS, GX1800)	Class D ITU-R M.493-14 (GX1400GPS/E) Class D ITU-R M.493-13 (GX1400GPS, GX1400)
Frequency for AIS (Transmitter *2)	161.975 MHz (AIS CH A) 162.025 MHz (AIS CH B)	-	-	-
RECEIVER (for AIS)				
Sensitivity	0.5 µV	0.5 µV	-	-
Selectivity	Spurious and Image Rejection 70 dB Intermodulation and Rejection 70 dB	Spurious and Image Rejection 70 dB Intermodulation and Rejection 70 dB	-	-
NMEA Input/Output				
NMEA 2000	Compatible	-	Compatible (GX1850GPS/E, GX1800GPS, 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, 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*5, GLL*5, GNS*5, RMC*5, GSA*5 and GSV*5 (4800 bps)	Input: GGA, GLL, GNS, RMC, GSA and GSV (4800bps) Output: DSC, DSE, GGA*6, GLL*6, GNS*6, RMC*6, GSA*6 and GSV*6 (4800bps)
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*2 (38400 bps) AIS Output: VDM and VDO*2 (38400 bps)	Input: GGA, GLL, GNS, RMC, GSA, GSV and VDM (38400 bps) Output: DSC, DSE, GGA, GLL, GNS, RMC, GSA, GSV and VDM (38400 bps) AIS Output: VDM (38400 bps)	Input: GGA, GLL, GNS, RMC, GSA and GSV (38400 bps) Output: DSC, DSE, GGA*5, GLL*5, GNS*5, RMC*5, GSA*5 and GSV*5 (38400 bps)	Input: GGA, GLL, GNS, RMC, GSA and GSV (38400 bps) Output: DSC, DSE, GGA*6, GLL*6, GNS*6, RMC*6, GSA*6 and GSV*6 (38400 bps)

*1 GX6500E and GX6000E: for Europe, GX6500 and GX6000: for Asia and Australia *2 GX6500E and GX6500
*3 GX1850GPS/E and GX1800GPS/E: for Europe, GX1850GPS, GX1850, GX1800GPS and GX1800: for Asia and Australia *4 GX1400GPS/E: for Europe, GX1400GPS and GX1400: Asia and Australia
*5 GX1850GPS/E, GX1800GPS, GX1850GPS/E and GX1800GPS *6 GX1400GPS/E and GX1400GPS

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 Alt Horns are used.
Idle current	300 mA
Operating temperature	-20° C to +55° C
Storage temperature	-20° C to +70° C
Water integrity performance	IPX7 (1 m for 30 min) for the front panel
Overall Dimensions	180W × 110H × 140D mm
Flush mount dimensions	165W × 92H × 115D mm
Weight	1.35 kg

GPS Specifications

MODEL	GX6500E, GX6500, GX6000E, GX2200E, GX1850GPS/E, GX1850GPS, GX1800GPS/E, GX1800GPS, GX1400GPS/E, 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	HX890E	HX40E	HX210E	HX300E	HX400E/HX400IS	HX407E On-board/HX407E ATEX	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 - 162.000 MHz LMR Band: 134 - 174 MHz	Marine Band: 457.525 - 467.575 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 (HX400E on-board/ 1600 mAh (HX407E ATEX)	Li-Ion 1600 mAh	
Input Voltage	7.4 VDC	7.4 VDC	7.4 VDC	3.7 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 (5 W) *7 / 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 (5 W) *7 / 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 (5 W) *7 / 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: 0.8 A / 0.5 A (Hi / Lo)	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	66W × 138H × 38D mm	52W × 95H × 33D mm	60W × 132H × 40D mm	59W × 128H × 33D mm	57W × 133H × 40D mm	57W × 133H × 40D mm	57W × 133H × 33D mm	
Weight	310 g (w/SBR-13LI, Hand Strap, Belt Clip & Antenna)	230 g (w/Hand Strap, Belt Clip & Antenna)	280 g (w/Hand Strap, Belt Clip & Antenna)	240 g (w/SBR-27LI, Belt Clip & Antenna)	350 g (w/SBR-29LI/SBR-29LIIS, Belt Clip & Antenna)	320 g (w/FNB-115LI/SBR-30LIEEX, Belt Clip & Antenna)	320 g (w/FNB-V105LI, Belt Clip & Antenna)	
TRANSMITTER								
RF Output	6 W (5 W) *7 / 2 W / 1 W (@7.4 V)	6 W (5 W) *7 / 2.5 W / 1 W (@7.4 V)	6 W (5 W) *7 / 2.5 W / 1 W (@7.4 V)	5 W / 1 W (@3.7 V)	5 W / 1 W (@7.4 V)	1.5W (1W: ATEX) / 0.5W (@7.4V)	5 W / 1 W (@7.4 V)	
Conducted Spurious Emissions	Less than 0.25 µW	Less than 0.25 µW	Less than 0.25 µW	-75 dBc Typical	-75 dBc Typical	-75 dBc Typical	At least 36 dBm below	
Frequency Stability	±3 ppm (-20° C to +60° C)	±3 ppm (-20° C to +60° C)	±3 ppm (-20° C to +60° C)	±5 ppm (-20° C to +60° C)	±2.5 ppm (-30° C to +60° C)	±2.5 ppm (-30° C to +60° C)	±2.5 ppm (-30° C to +60° C)	
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.493-14	-	-	-	-	-	-	
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	-	-	-	-	-	-	

*7 5 W TX power required in some countries

STANDARD HORIZON

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