#### FIXED MOUNT AND LOUD HAILER SPECIFICATIONS

Fixed Mount VHF Radios								
MODEL	GX6000E	GX2400GPS/E, GX2400GPS*1	GX1850GPS/E, GX1850, GX1800GPS/E*2	GX1400GPS/E, GX1400GPS, GX1400*4				
GENERAL		'						
Frequency Range	Marine Band	Marine Band	Marine Band	Marine Band				
	156.025 - 163.275 MHz	156.025 - 163.275 MHz	156.025 - 163.275 MHz	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	Standby: 0.55 A	Standby: 0.45 A	Standby: 0.3 A				
	Receive: 0.9 A	Receive: 0.9 A	Receive: 0.8 A	Receive: 1.2 A				
	Transmit: 5.0 A (Hi), 1.0 A (Lo)	Transmit: 5.0 A (Hi), 1.0 A (Lo)	Transmit: 5.0 A (Hi), 1.0 A (Lo)	Transmit: 5.0 A (Hi), 1.0 A (Lo)				
Overall Dimensions	175.5W x 110H x 173.3D mm	180W x 80H x 152.6D mm	150W x 85H x 82D mm	156W x 61H x 100D mm				
lush-Mount Dimensions	158W × 94H × 158D mm	161W x 65H x 157D mm	138W x 73H x 95D mm	131W x 50H x 120D mm				
Weight	1.66 kg	1.5 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	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)				
Emissions								
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)	80 dB for Voice (75 dB for DSC)	75 dB for Voice (75 dB for DSC)	75 dB for Voice (70 dB for DSC)				
ntermodulation 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 TU-R M.493-14	Class D ITU-R M.493-15	Class D ITU-R M.493-15	Class D ITU-R M.493-14				
Frequency for AIS	161.975 MHz (AIS CH A)	-	-	-				
	162.025 MHz (AIS CH B)							
RECEIVER (for AIS)								
Sensitivity	0.5 µV	0,5 µV						
Spurious and Image Rejection	70 dB for AIS	70 dB for AIS	_	_				
Intermodulation and Rejection	70 dB for AIS	70 dB for AIS	•	-				
NMEA Input/Output	70 05 101 740	70 02 101 740						
NMEA 2000	Compatible	Compatible	Compatible	-				
	Compandio	Companio	(GX1850GPS/E, GX1850)					
NMEA-0183	Input: GGA, GLL, GNS, RMC, GSA	Input: GGA, GLL, GNS, RMC, GSA	Input: GGA, GLL, GNS, RMC, GSA	Input: GGA, GLL, GNS, RMC, GSA				
4800 Baud Selected	and GSV (4800 bps)	and GSV (4800 bps)	and GSV (4800 bps)	and GSV (4800bps)				
	Output: DSC, DSE, GGA, GLL, GNS,	Output: DSC, DSE, GGA, GLL,	Output: DSC, DSE, GGA*3, GLL*3.	Output: DSC, DSE, GGA*5, GLL*5.				
	RMC, GSA and GSV (4800 bps)	GNS, RMC, GSA and GSV (4800 bps)	GNS*3, RMC*3, GSA*3 and GSV*3	GNS*5, RMC*5, GSA*5 and GSV*5				
	Tivio, dort and dov (4000 bps)	AIS Output: VDM (38400 bps)	(4800 bps)	(4800bps)				
NMEA-0183-HS	Input: GGA, GLL, GNS, RMC, GSA	Input: GGA, GLL, GNS, RMC, GSA	Input: GGA, GLL, GNS, RMC, GSA	Input: GGA, GLL, GNS, RMC, GSA				
38400 Baud Selected	and GSV (38400 bps)	and GSV (38400 bps)	and GSV (38400 bps)	and GSV (38400 bps)				
DO TOO DAGG OFFICER	Output: DSC, DSE, GGA, GLL, GNS, RMC,	Output: DSC, DSE, GGA, GLL, GNS,	Output: DSC, DSE, GGA*3, GLL*3,	Output: DSC, DSE, GGA*5, GLL*5,				
	GSA, GSV and VDM (38400 bps)	RMC, GSA and GSV (38400 bps)	GNS*3. RMC*3. GSA*3 and GSV*3	GNS*5. RMC*5. GSA*5 and GSV*5				
	AIS Output: VDM (38400 bps)	AIS Output: VDM (38400 bps)	(38400 bps)	(38400 bps)				

	Loud Hailer	
ı	MODEL	VLH-3000A
ı	GENERAL	
ı	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)
ı	Mic sensitivity	10 mV
	Drain current	7 A (MAX) when Forward
		and Aft Horns are used.
	Idle current	300 mA
	Operating temperature	–20° C to +55° C
	Storage temperature	–30° C to +70° C
L	Water integrity	IPX7 (1 m for 30 min)
	performance	for the front panel
	Overall Dimensions	180W x 110H x 140D mm
	Flush mount dimensions	165W x 92H x 115D mm

#### **GPS Specifications**

MODEL	GX6000E GX2400GPS/E, GX2400GPS GX1850GPS/E, GX1800GPS/E, GX1400GPS/E, GX1400GPS				
Channels	66 channe <b>i</b> s				
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				

<sup>\*1</sup> GX2400GPS/E: for Europe, GX2400GPS: for Asia and Australia \*2 GX1850GPS/E and GX1800GPS/E: for Europe and Asia, GX1850: for Asia
\*3 GX1850GPS/E and GX1800GPS/E and GX1800GPS/E for Europe and Asia, GX1850: for Asia
\*5 GX1400GPS/E and GX1400GPS/E and GX1400GPS/E for Europe and Asia, GX1850: for Asia

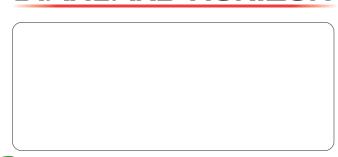
#### **HANDHELD SPECIFICATIONS**

MODEL	HX890E	HX320E	HX210E	HX40E	HX400E/HX400IS	HX407E On-board	HX380	
GENERAL								
Frequency Range	Marine Band	Marine Band	Marine Band	Marine Band	Marine Band: 156.025 - 162.000 MHz	Marine Band:	Marine Band: 156.025 - 163.275 MHz	
	156.050 - 163.275 MHz	156.025 - 163.275 MHz	156.025 - 163.275 MHz	156.025 - 163.275 MHz	LMR Band: 134 - 174 MHz	457.525 - 467.575MHz	LMR Band: 134 - 174 MHz	
Battery type / Capacity	Li-lon 1800 mAh	Lithium Polymer 2100 mAh	Lithium Polymer 1850 mAh	Lithium Polymer 1850 mAh	Li-lon 3200 mAh	Li-lon 3200mAh	Li-lon 1750 mAh	
		(Built-in)	(Built-in)	(Built-in)				
Input Voltage	7.4 VDC			7.4 VDC	7.2 VDC	7.2 VDC	7.4 VDC	
Current Drain	Standby: 130 mA (GPS On), 110 mA (GPS Off)	Standby: 100 mA	Standby: 60 mA	Standby: 100 mA	Standby: 50 mA	Standby: 70 mA	Standby: 50 mA	
	Receive: 380 mA	Receive: 330 mA	Receive: 330 mA	Receive: 330 mA	Receive: 320 mA	Receive: 320 mA	Receive: 320 mA	
	(MAX AF Output)	(MAX AF Output)	(MAX AF Output)	(MAX AF Output)	(MAX AF Output)	(MAX AF Output)	(MAX AF Output)	
	Transmit: 1.6 A / 1.0 A / 0.7 A	Transmit: 1.6 A / 1.0 A / 0.7 A	Transmit: 1.6 A / 1.0 A / 0.7 A	Transmit: 1.6 A / 1.0 A / 0.7 A	Transmit: 1.6 A / 0.8A	Transmit: 0.8 A / 0.5 A	Transmit: 1.6 A / 0.8A	
	(6 W (5 W)*6 / 2 W / 1 W)	(6 W (5 W)*6 / 2.5 W / 1 W)	(6 W (5 W)*6 / 2.5 W / 1 W)	(6 W (5 W)*6 / 2.5 W / 1 W)	(5 W / 1 W)	(Hi / Lo)	(5 W / 1 W)	
Overall Dimensions	66W x 138H x 38D mm	60W x 133H x 42D mm	60W x 132H x 40D mm	52W x 95H x 33D mm	57W x 133H x 40D mm	57W x 133H x 40D mm	57W x 133H x 33D mm	
Weight	310 g	290 g	280 g	230 g	350 g	350 g	320 g	
	(w/SBR-13LI, Hand Strap,	(w/ Hand Strap,	(w/Hand Strap,	(w/Hand Strap,	(w/SBR-45LI/SBR-45LIIS,	(w/ SBR-45LI,	(w/SBR-41LI,	
	Belt Clip & Antenna)	Belt Clip & Antenna)	Belt Clip & Antenna)	Belt Clip & Antenna)	Belt Clip & Antenna)	Belt Clip & Antenna)	Belt Clip & Antenna)	
TRANSMITTER								
RF Output	6 W (5 W)*6/ 2 W / 1 W (@7.4 V)	6 W (5 W)*6/ 2.5 W / 1 W (@7.4 V)	6 W (5 W)*6 / 2.5 W / 1 W (@7.4 V)	6 W (5 W)*6/ 2.5 W / 1 W (@7.4 V)	5 W / 1 W (@7.2 V)	1.5W / 0.5W (@7.2 V)	5 W / 1 W (@7.4 V)	
Conducted Spurious Emissions	Less than 0.25 µW	Less than 0.25 µW	Less than 0.25 µW	Less than 0.25 µW	-75 dBc Typical	-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)	±3 ppm (-20° C to +60° C)	±2.5 ppm (-30° C to +60° C)	±2 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)	12 kHz / 25 kHz (-6 dB / -60 dB)	12 kHz / 25 kHz (-6 dB / -60 dB)	12 kHz / 25 kHz (-6 dB / -60 dB)	12 kHz / 25 kHz (-6 dB / -60 dB)	
Audio Output	700 mW	700 mW	600 mW	600 mW	700 mW	700 mW	700 mW	
DSC Format	Class-H ITU-R M.493-14	-		-	-	=	-	
NMEA 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	-	-	l -	-	-	l -	

<sup>\*6 5</sup> W TX power required in some countries

Standard Horizon reserves the right to make changes and enhancements to products at our discretion. Current specifications are therefore subject to change without notice.

## STANDARD HORIZON



#### ─ YAESU MUSEN CO., LTD. http://www.yaesu.com/jp ─

Omori Bellport Building D-3F 6-26-3 Minami Oi, Shinagawa-ku, Tokyo, 140-0013, Japan

YAESU USA http://www.yaesu.com -

US Headquarters 6125 Phyllis Drive, Cypress, CA 90630, U.S.A.

YAESU UK http://www.yaesu.co.uk

Unit 12, Sun Valley Business Park, Winnall Close Winchester, Hampshire, SO23 0LB, U.K.



STANDARD HORIZON

Nothing takes to water like Standard Horizon

EUROPE / ASIA PACIFIC

MARINE COMMUNICATIONS



# **Fixed Mount VHF Radios**

## POWER, PERFORMANCE, RELIABILITY

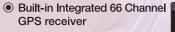
#### **ADVANCED FEATURES**

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



 Second Station Capability Optional wireless RAM4X\*1 or wired RAM4 Remote access Microphone

• NMEA2000 and NMEA0183 Compatible



Noise Cancelling 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



#### **MATRIX NMEA2000 GPS**

FIXED MOUNT DSC VHF WITH BUILT-IN AIS /GPS RECEIVER, NMEA2000 & NMEA0183 SUPPORT, 30W PA/ FOG,

GX2400GPS/E 66.0 PS. GX2400GPS









GX2400GPS/E: for Europe / GX2400GPS: for Asia and Australia

▶ Supplied Accessories: er Cord, Mounting Bracket and USB Cable

Body colour: 
Black















- Meets ITU-R M,493-15 Class D (Digital Selective Calling)
- Separate Receiver for CH70 (Receiving DSC Calls)
- · AIS/AIS SART target display: MMSI, Call Sign, Ship Name, BRG, DST, SOG and COG
- E2O (Easy to Operate) Icon & Menu System
- Preset key stores up to 10 favourite channels
- Intercom Feature between the Radio and an Optional Second Station: RAM4 or RAM4X
- · Programmable Scan, Priority Scan, and Multi Watch
- DSC position request and report functions
- GPS Compass, Waypoint and GPS status pages
- Enter, Save, and Navigate to a waypoint using the Compass page
- Navigation (LAT/LON, SOG, and COG) information shown on display
- Programmable CPA (Closest Point of Approach) or TCPA (Time to Closest Point of Approach) collision avoidance alarms
- Commercial grade receiver (Spurious & Image rejection better than 80dB)
- 30 Watt PA/Loud Hailer with programmed fog signals and listen back
- GM (Group Monitor) using DSC Group Position Call
- MOB (Man over Board) Operation
- Excellent Visibility with Busy LED Indicator
- Selectable Night Mode Display
- ATIS mode for European Inland waterways (GX2400GPS/E)

## Icon Function List



Features ▶































Year

#### **EXPLORER Series**

FIXED MOUNT MARINE VHF COMPATIBLE WITH NMEA 2000





FIXED MOUNT MARINE VHF

**GX1800GPS/E** GPS ITUCLASSO













• Separate Receiver for CH70 (Receiving DSC Calls)

NMEA2000 Compatible (GX1850GPS/E, GX1850)

• E2O (Easy to Operate) Icon & Menu System

• Preset key stores up to 10 favourite channels

• Ultra-slim and compact Rear case design (D=82mm)





• Meets ITU-R M.493-15 Class D (Digital Selective Calling)







Built-in Integrated 66 Channel GPS receiver (GX1850GPS/E, GX1800GPS/E)



















• 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)

#### **ECLIPSE Series**

• NMEA 0183 Connectivity

FIXED MOUNT MARINE VHF WITH GPS

GX1400GPS/E 66.50 GES 

Second Station Remote Microphone (Optional RAM4 SSM-70H)

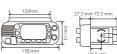
• Intercom Feature between the Radio and an Optional Second Station

GPS TUCLASSO

FIXED MOUNT MARINE VHF



NMEA 0183 Connectivity





• Built-in Integrated 66 Channel GPS receiver (GX1400GPS/E, GX1400GPS)













- 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 change selection, 16/S and H/L keys • ATIS mode for European Inland waterways (GX1400GPS/E)

#### Fixed Mount VHF Radio Accessories

• E2O (Easy to Operate) Icon & Menu System

· Preset key stores up to 10 favourite channels

Meets ITU-R M.493-14 Class D (Digital Selective Calling)

• Separate Receiver for CH70 (Receiving DSC Calls)

• Ultra-Compact Case design (156W x 61H x 100Dmm)

IIACG	iviourit v										
	Microphone / Cable			Access Point / GPS Antenna			Cover	External Speaker	Hail / PA Speaker		Bracket
Model	SSM-72H Wireless Remote Access Microphone RAM4X*5	SSM-70H Remote Access Microphone RAM4	CT-100 7m extension cable for SSM-70H	SCU-38 External GPS antenna with 5m of cable	SCU-30 Wireless Access Point for SSM-72H (RAM4X) 1.5m of cable	SCU-31 External GPS antenna with 15m of cable	Dust Cover	MLS-410SP 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/E	•	•	•	•	•		HC2400	•	•	•	MMB-84
GX2400GPS	•	•	•	•	•		HC2400	•	•	•	MMB-84
GX1850GPS/E		•	•	•		•	HC1600	•			MMB-97
GX1850		•	•			•	HC1600	•			MMB-97
GX1800GPS/E		•	•	•		•	HC1600	•			MMB-97
GX1400GPS/E				•		•	HC1100	•			MMB-84
GX1400GPS				•		•	HC1100	•			MMB-84
CY1400							HC1100				MMR-84

<sup>+2</sup> GX1850 requires connection to external GPS device 
<sup>+3</sup> GX1850GPS/E, GX1800GPS/E only 
<sup>+4</sup> GX1400GPS/E, GX1400GPS only 
<sup>+5</sup> 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.493-14 Class-H DSC (Digital Selective Calling) & Built-in dedicated CH70 DSC call receiver
- Oversized Full-dot Matrix Display & E2O (Easy to Operate) Icon/Menu System











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

CLASS-H DSC & GPS FLOATING 6W VHF

# HX890E 66.0 GF.

► 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 Cas (AAA x 5), CLIP-22 Belt Clip, Hand Strap and T9101648 USB Cable

Body colour: Navy Blue Solid Black

Weight: 310g (with: SBR-13LI, Hand Strap, Belt Clip & Antenna

- Extended Range 6W (5W)\*1 Transmit Power Output (Selectable 6 (5)/2/1W)
- 700mW Loud Audio Output
- Preset key stores 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) Operation
- Water Activated Emergency Strobe Light
- Integrated 32 Code Voice Scrambler and 4 Code Voice Scrambler
- · micro USB Data Port for NMEA sentence output, configuration of the transceiver settings and downloading GPS logger data

#### Handheld VHF Radio Accessories







COMPACT FLOATING VHF HANDHELD WITH BLUETOOTH® CAPABILITY

## HX320E















**HX210E** 



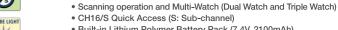
COMPACT FLOATING VHF HANDHELD











• Built-in Lithium Polymer Battery Pack (7.4V, 2100mAh)

• Compact Case design (60W × 133H × 42Dmm)

• Preset key stores up to 10 Favourite channels

SRA-19B Antenna, SAD-27 USB AC Adapter, SBH-49 Charger Cradle, USB

Type-A to USB Type-C Charging Cable, CLIP-22 Belt Clip and Hand Strap

Overall Dimensions: 60mm x 133mm x 42mm Weight: 290g (with: Hand Strap, Belt Clip & Antenna)

• 6W (5W)\*1 transmit power output (Selectable 6 (5)/2.5/1W)

- CH16/S Quick Access (S: Sub-channel)
- · ATIS mode for European Inland waterways
- Bluetooth® Wireless Operation
- USB (Type-C) Charging system

• 700mW Loud Audio Output

• Easy to Operate Menu System

• FM Broadcast Radio Receiver Water activated light

▶ Supplied Accessories:

\*1 5W TX power required in some countries

► Supplied Accessories: SRA-19B Antenna, SBH-25 Charger Cradle, SAD-25 AC Adapter. E-DC-19A DC Cable with Cigarette Lighter Plug, CLIP-22 Belt Clip and

Overall Dimensions:  $60 \text{mm} \times 132 \text{mm} \times 40 \text{mm}$ Weight: 280g (with: Hand Strap, Belt Clip & Antenna)

- Compact Case design (60W x 132H x 40Dmm)
- 6W (5W)\*1 transmit power output (Selectable 6 (5)/2.5/1W)
- 600mW Loud Audio Output
- Preset key stores 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

# 

## ULTRA COMPACT VHF HANDHELD

# HX40E











#### ▶ Supplied Accessories:

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

Overall Dimensions: 52mm x 95mm x 33mm Weight: 230g (with: Hand Strap, Belt Clip & Antenna)

- Floating (When fitted into optional flotation case) • Ultra-Compact Case design (52W x 95H x 33Dmm)
- 6W (5W)\*1 transmit power output (Selectable 6 (5)/2.5/1W)
- 600mW Loud Audio Output
- Preset key stores 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

	Case	/ Hanger	Speaker Microphone / Headset / Earpiece Microphone								
Model		SCH-11 Belt Clip Hanger	SSM-21A Submersible speaker microphone with earphone jack	SSM-17H Speaker microphone	MH-73A4B Submersible speaker microphone	CMP460 Submersible speaker microphone	SEP-10A Earphone for SSM-21A	SSM-BT10 Bluetooth® Headset	SSM-64A Vox Headset	SSM-517A Earpiece/ microphone	
HX890E		•	•	•	•	•	•		•	•	
HX320E		•	•	•	•	•	•	•	•	•	
HX210E		•	•	•	•	•	•		•	•	
HX40E	•	•	•	•	•	•	•		•	•	

# Commercial Grade Marine VHF

## BUILT BY PROFESSIONALS FOR PROFESSIONALS

#### **ADVANCED FEATURES**

- Capable of connecting two wired RAM4 or one wired RAM4 and four wireless RAM4X\*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



- 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



#### **Fixed Mount VHF Radio**

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

## **6000E** QUANTUM AIS



DSC





Selectable Night Mode Display

MOB (Man Overboard) Operation

Intercom Feature between the Radio. RAM4 and wireless RAM4X

Contact Class A and Class B AIS ships using the DSC individual call

• Enter, Save, and Navigate to a waypoint using the Compass page Navigation (LAT/LON, SOG, and COG) information shown on display

• Navigate to the location of a DSC Distress Call using the Compass Page

• GM (Group Monitor) using DSC Group Position Call

• Programmable Scan, Priority Scan, and Multi Watch

· Automatic polling of up to 7 ships GPS positions

ATIS mode for European Inland waterways

• Integrated Voice Recorder to playback up to two minutes of RX (receive) audio

▶ Supplied Accessories:

Hand Microphone, Power Cord, Mounting Bracket, External GPS Antenna SCU-31, USB Cable













- 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
- E20 (Easy to Operate) Icon & Menu System
- User customisable 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 cancelling for both transmit and receive audio

#### **Loud Hailer**

30W DUAL ZONE LOUD HAILER





▶ Supplied Accessories:





• 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
- 2W Loud internal speaker audio Output Compatible with optional MI S-410I H
- intercom speaker with IC1 and IC2 Push-to-Alert Button
- Compatible with MLS-410SP and MLS-410PA (10W amplified) external speakers
- Adjustable Backlight



#### COMMERCIAL GRADE VHF WITH LMR CHANNELS

IIS, SBP-45LIIS Li-lon battery pack and optional SSM-21A 60 speaker microphones meet the ANSI/UL 913-5th Ed. Ints for: Class I: Flammable Gases, Vapors, or Liquids Div. (Ethylene) Group D (Propane) Class II: Combustible Dusts up E (Metals) Group F (Coal) Group G (Grain) Class III:

▶ Supplied Accessories (HX400E/HX400IS):

Overall Dimensions (HX400E/HX400IS): 57mm x 133mm x 40mm Weight: 350g (with: SBR-45LI (HX400E) / SBR-45LIIS (HX400IS), Belt Clip & Antenna)

CAT460 Antenna, SBR-45LI (HX400E) 7.2V 3200mAh/SBR-45LIIS (HX400IS) 7.2V 3200mAh Li-Ion Battery Pack, SBH-36 Charger Cradle, SAD-25 AC Adapter, CLIP-22 Belt Clip and Hand Strap

## HX407E On-board

SRA-14 Antenna SRR-45I I 7 2V 3200mAh Li-Ion Battery Pack SRH-36 Charger Cradle, SAD-25 AC Adapter, Clip-22 Belt Clip and Hand Strap

Weight: 350g (with: SBR-45LI, Belt Clip & Antenna)

#### COMMERCIAL VHF WITH LMR CHANNELS

CAT460 Antenna, SBR-41LI 7.4V 1750mAh Li-Ion Battery Pack, CD-48 Charger Cradle, SAD-25 AC Adapter and CLIP-920 Belt Clip













- Selectable 5 and 1 Watt transmit power output
- Marine VHF with 40 Programmable Land Mobile Channels 134MHz to 174MHz
- 700mW Loud Audio Output
- Supplied with 3200mAh Li-Ion battery (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 3200mAh Li-Ion battery (HX400IS



#### COMMERCIAL GRADE UHF ON-BOARD RADIO



Overall Dimensions: 57mm × 133mm × 40mm

#### • 700mW Loud Audio Output • Supplied with 3200mAh Li-Ion battery

• Noise cancelling function for transmit and receive audio Voice Scrambler

• 32 Programmable Marine UHF Channels

Selectable 1.5 and 0.5 Watt transmit power output

- Scanning operation and Dual Watch



Overall Dimensions: 57mm × 133mm × 33mm





- Marine VHF with 40 Programmable Land Mobile Channels 134MHz to 174MHz
- 700mW Loud Audio Output
- Supplied with 7.4V 1750mAh Li-Ion battery
- Scanning operation and Dual Watch



## Fixed Mount VHF Radio and Loud Hailer Accessories



### Handheld VHF/UHF Radio Accessories



\*4 Intrinsically Safe Version \*5 SRA-14J: for 440 - 470MHz \*2 Requires Optional Wireless Access Point SCU-30 \*3 The same as the supplied accessory