

# 2014 Marine Communications

## PRODUCT CATALOG

 **FLOATING HANDHELD VHF RADIOS & HANDHELD VHF RADIOS**



FLOATING HANDHELD VHF RADIOS & HANDHELD VHF RADIOS



 **FIXED MOUNT VHF RADIOS / LOUDHAILER**



FIXED MOUNT VHF RADIOS / LOUDHAILER



 **MULTIMEDIA CHARTPLOTTERS & GPS CHARTPLOTTERS**



MULTIMEDIA CHARTPLOTTERS & GPS CHARTPLOTTERS





# THE LEADER IN MARINE COMMUNICATIONS

## Our mission:

Our mission is quite simple, "Produce the finest Marine Communications on the market to meet the needs of Boaters everywhere." For more than 50 years, Standard Horizon has built and delivered the finest radios and GPS chartplotters on the market and that's why we can say...

**"Nothing takes to water like Standard Horizon."**

 SUBMERSIBLE	 SUBMERSIBLE	 FLOATING	 STROBE LIGHT	 LOUD AUDIO 700mW	 LOUD AUDIO	 RUBBER GRIP	 NOAA WEATHER CHANNELS / ALERT
 CLASS D	 DSC DISTRESS and POS Polling	 LAND MOBILE CHANNELS	 16 / 9	 AVAILABLE IN BLACK OR WHITE	 LOUD HAILER	 6W Transmit Power <small>*5W for Australia Version.</small>	 LARGE DISPLAY
 LUMINESCENT Gasket	 E 2 O Easy To Operate	 OPTIONAL MIC / HEADSET	 SECOND STATION	 TONE CONTROL	 GPS COMPASS	 WAYPOINT NAV	 FISH FINDER
 80 dB RECEIVER	 CUSTOMIZABLE SCREENS	 PICTURE IN PICTURE	 GPS	 WiFi	 Bluetooth	 AIS	 High Capacity Li-Ion Battery Included
 3.7V Battery technology	 AC and DC Charger Included	 USB Charger Included	 WATER PROOF GUARANTEE				



# A FAMILY OF MARINE COMMUNICATIONS

A WIDE RANGE OF PRODUCTS TO SUIT YOUR NEEDS

## FLOATING HANDHELD VHF RADIOS ..... page 3



HX851



HX300



HX290



HX150



HX100



HX400



HX400IS



HX370S



HX370SAS

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GX2200



GX2000



GX1700



GX1600



GX1200



GX5500S



VLH-3000

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CPN1010i



CPN700i



CP590NC



CP390iNC



CP190iNC



CPF190iNC

## GPS CHARTPLOTTERS ..... page 12

### GPS CHARTPLOTTER / FISH FINDERS

FLOATING HANDHELD VHF RADIOS & HANDHELD VHF RADIOS



FIXED MOUNT VHF RADIOS / LOUDHAILER



MULTIMEDIA CHARTPLOTTERS & GPS CHARTPLOTTERS





# FLOATING HANDHELD VHF RADIOS

LEADING THE INDUSTRY WITH THE FIRST FLOATING VHF WITH GPS

FLOATING HANDHELD VHF RADIOS & HANDHELD VHF RADIOS



FIXED MOUNT VHF RADIOS / LOUDHAULER



MULTIMEDIA CHARTPLOTTERS & GPS CHARTPLOTTERS



## HX851 IPX7 1 m for 30 min Submersible

FLOATING 6 WATT HANDHELD VHF WITH GPS



Features:

- Floating
- Submersible IPX7 (3.3 Ft or 1 m for 30 minutes)
- Built-in 12 Channel GPS Receiver
- Luminescent Glow in the Dark gasket
- Waypoint entry (200 waypoints) and navigation
- Navigate to DSC Position Request call
- 6 Watt Transmit power
- DSC functions include: Distress call with position, All ships, Urgency, Safety, Individual call, Position Request, Position Report and Group call
- Programmable Scan, Priority Scan and Dual Watch
- Battery life indication
- Preset key used to recall up to 10 favorite channels
- Water activated SOS Strobe light
- NOAA Weather channels and Weather Alert
- 700 mW Loud speaker audio
- Selectable Power Output 6/5/2.5/1 Watt
- Supplied with 1380 mAh Li-Ion battery, AC and DC chargers and cradle, Alkaline battery tray



## HX300 IPX8 1.5 m for 30 min Submersible

COMPACT FLOATING HANDHELD VHF



Features:

- Floating
- Submersible IPX8 (5 Ft or 1.5 m for 30 minutes)
- 5 Watt Transmit power
- Unique USB charging system
- E20 (Easy To Operate) menu system
- Volume & Squelch indication display
- Water enabled light, when dropped into the water
- Preset key (Maximum 10 channels)
- Preset channel scan function
- 600 mW loud internal speaker audio
- NOAA Weather Channels
- Programmable Scan, Priority Scan, Dual Watch and Triple Watch
- Supplied with 1560 mAh 3.7V Li-Ion battery, AC USB type charger and USB DC Charger

## HX290 IPX8 1.5 m for 30 min Submersible

FLOATING 5 WATT HANDHELD VHF



Features:

- Floating
- Submersible IPX8 (5 Ft or 1.5 m for 30 minutes)
- Glow-In-The-Dark strip
- Selectable 5 and 1 Watt transmit power output
- Huge channel display
- Optional Speaker microphone or Headset capable
- Programmable Scan, Priority Scan and Dual Watch
- NOAA Weather channels and Weather Alert
- Key lock
- Low battery indicator
- Preset key used to recall up to 10 favorite channels
- Supplied with 1140 mAh Li-Ion battery, AC and DC chargers and cradle

"The HX290 is just what we'd expect of an entry-level Standard Horizon radio. Performance, waterproof rating, and the ability to float make this our Budget Buy." *Practical Sailor*

## HX100 IPX7 1 m for 30 min Submersible

Floating 2.5 Watt Handheld VHF Twin-Pack



Features:

- Floating
- Two 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
- E20 (Easy To Operate) menu system
- Selectable 2.5 and 1 Watt transmit power output
- Large channel display
- 500 mW loud internal speaker audio
- All USA, International and Canadian Marine Channels
- Programmable Scan, Priority Scan and Dual Watch
- NOAA Weather channels and Weather Alert
- Squelch level on display
- Battery life indicator
- Key lock
- Supplied with a 700 mAh Ni-MH battery, 110 VAC and twin charging cradle

**Twin Pack**



## HX150 IPX7 1 m for 30 min Submersible

Floating 5 Watt Handheld VHF



Features:

- Floating
- Submersible IPX7 (3.3 Ft or 1 m for 30 minutes)
- Slim, form fitting case design
- 10 hours of battery life
- E20 (Easy To Operate) menu system
- Selectable 5 and 1 Watt transmit power output
- Large channel display
- 500 mW loud internal speaker audio
- All USA, International and Canadian Marine Channels
- Programmable Scan, Priority Scan and Dual Watch
- NOAA Weather channels and Weather Alert
- Squelch level on display
- Battery life indicator
- Key lock
- Supplied with a 1030 mAh Li-Ion battery, 110 VAC and charging cradle







# HANDHELD VHF RADIOS

DESIGNED SPECIFICALLY FOR USE IN HARSH MARINE ENVIRONMENTS



## HX400

**IPX8**  
1.5 m for 30 min  
Submersible

### COMMERCIAL VHF WITH LMR CHANNELS



**Features:**

- Submersible IPX8 (5 Ft or 1.5 m for 30 minutes)
- Selectable 5 or 1 Watt transmit power output
- Built-in True Noise Cancelling Microphone
- 40 Programmable Land Mobile Channels 134 MHz to 174 MHz with CTCSS and DCS signaling
- Programmable channel names
- NOAA Weather channels and Weather Alert
- Low battery indicator
- Built-in Voice Scrambler for private communications
- Optional speaker microphones and headsets available
- Supplied with 2300 mAh Li-Ion battery, AC and DC rapid chargers and cradle
- Programmable Scan, Priority Scan and Dual Watch
- Preset key used to recall up to 10 favorite channels



## HX370S

**IPX7**  
1 m for 30 min  
Submersible

### COMMERCIAL VHF WITH LMR CHANNELS



**Features:**

- 40 Programmable Land Mobile Channels with CTCSS and DCS signaling
- Speaker microphone jack
- Selectable 5/1 W transmit power output
- Submersible IPX7 (3.3 Ft or 1 m for 30 minutes)
- Supplied with 1400 mAh Ni-MH battery, alkaline battery tray, AC and DC chargers and cradle
- Programmable Scan, Priority Scan and Dual Watch
- SOS Strobe Light
- Heavy duty die-cast frame
- Voice Scrambler capable

# COMMERCIAL GRADE MARINE HANDHELD VHF RADIOS

BUILT BY PROFESSIONALS FOR PROFESSIONALS



## HX400IS

**IPX8**  
1.5 m for 30 min  
Submersible

### INTRINSICALLY SAFE



All the great features of the HX400, tested and certified Intrinsically Safe.

**INTRINSICALLY SAFE INFORMATION:**

The HX400IS, FNB-115LIIS Li-ION battery pack and optional MH-66D4B and CMP460 speaker microphones meet the ANSI/UL 913-5th Ed. Requirements for: Class I: Flammable Gases, Vapors, or Liquids Div. 1 Group A (Acetylene) Group B (Hydrogen) 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



## HX370SAS

**IPX7**  
1 m for 30 min  
Submersible

### INTRINSICALLY SAFE



All the great features of the HX370S, tested and certified Intrinsically Safe.

**INTRINSICALLY SAFE INFORMATION:**

The HX370SAS, FNB-V57AIS 1250 mAh Ni-MH battery pack, optional CMP460 speaker microphone and FVP-31 voice scrambler 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

FLOATING HANDHELD VHF RADIOS & HANDHELD VHF RADIOS



FIXED MOUNT VHF RADIOS / LOUDHAILER



MULTIMEDIA CHARTPLOTTERS & GPS CHARTPLOTTERS





# HANDHELD VHF RADIO ACCESSORIES

THE ACCESSORIES YOU NEED!

**FNB-121LI**  
1380 mAh Li-Ion battery



**FNB-115LI**  
2300 mAh Li-Ion battery



**FNB-122LI**  
1560 mAh Li-Ion battery



**PA-48B**  
110VAC Wall Charger



**E-DC-19A**  
12VDC cigarette lighter charger



**CD-56**  
Twin Charging cradle



**SDD-14**  
USB DC Charger



**FBA-38**  
Alkaline battery tray  
(AAA type cell x 5)



**MH-73A4B**  
Speaker Microphone



**MH-66D4B**  
Speaker Microphone



**VC-24**  
Headset with VOX



**FVP-31**  
Scrambler board



## HANDHELD VHF ACCESSORIES

MODEL	Description	HX851	HX400	HX400IS*1	HX370S	HX370SAS*1	HX300	HX290	HX150	HX100
CAT460	VHF marine antenna	o	o	o	o	o	o	o		
CD-26	Charging cradle used with PA-48B/C	o			o	o				
CD-38	NMEA Charging cradle used with PA-48B/C	o								
CD-50	3-hour Charging cradle used with PA-45B/C		o	o						
CD-52	Charging cradle used with PA-48B/C							o		
CD-56	Twin Charging cradle									o
CD-57	Charging cradle								o	
CLIP-14	Belt clip				o	o				
CLIP-17D	Belt clip				o	o				
CLIP-19	Belt clip	o								
CLIP-22	Belt clip		o	o			o	o		
CLIP-24	Belt clip								o	o
CMP460	Submersible speaker microphone (IS rated)*1	o	o	o	o	o		o		
CN-3	Radio to Ship's Antenna Adapter	o	o	o	o	o	o	o		
E-DC-6	12VDC cable	o			o	o		o	o	o
E-DC-19A	DC cable with cigarette lighter plug	o			o	o		o	o	o
E-DC-30	DC cable with cigarette lighter plug used with CD-50 only		o	o						
FBA-25A	Alkaline battery tray				o					
FBA-38	Alkaline battery tray	o								
FBA-42	Alkaline battery tray		o					o		
FBA-44	Alkaline battery tray						o			
FNB-V57AIS	Intrinsically safe 1250 mAh Ni-MH battery					o				
FNB-83	1400 mAh Ni-MH battery				o					
FNB-V105LI	1600 mAh Lithium-ion battery									
FNB-110LI	1140 mAh Lithium-ion battery							o		
FNB-115LI	2300 mAh Lithium-ion battery		o							
FNB-115LIIS	Intrinsically safe 2300 mAh Lithium-ion battery*1			o						
FNB-121LI	1380 mAh Lithium-ion battery	o								
FNB-122LI	1560 mAh Lithium-ion battery						o			
FNB-124LI	1030 mAh Lithium-ion battery								o	
FNB-125	700 mAh Ni-MH battery									o
FVP-31	Scrambler 4 code				o	o				
LCC-370	Leather case				o	o				
LCC-530S	Leather case		o	o						
MCC-270	Nylon radio case				o	o				
SHC-18	Leather Case w/ belt loop and shoulder strap		o	o						
SHC-19	Leather Case w/ swivel		o	o						
SHC-20	Nylon Case		o	o						
MH-57A4B	Mini speaker microphone with earphone jack	o	o		o			o		
MH-66D4B	Submersible speaker microphone	o	o	o	o	o		o		
MH-73A4B	Submersible speaker microphone	o	o	o	o			o		
PA-45B/C*3	3-hour charger used with CD-50		o	o						
PA-48B/C*3	Charger used with CD-26/38/39/46/52/56/57	o			o	o		o	o	o
PA-54B/C*3	USB Wall Charger						o			
SAD-11B*2	110VAC charger used with CD-52/56/57							o	o	o
SAD-1460	6 Unit Multi Chager		o	o						
SDD-14	USB DC Charger with cigarette lighter plug						o			
SSM-55A	Earpiece/microphone	o	o		o			o		
VAC-370B/C*3	110VAC rapid charger				o	o				
VC-24	VOX headset	o	o		o			o		

\*1 Intrinsically Safe Version \*2 USA Version Only \*3 B for 110 VAC / C for 240 VAC

FLOATING HANDHELD VHF RADIOS & HANDHELD VHF RADIOS


FIXED MOUNT VHF RADIOS / LOUDHALLER

MULTIMEDIA CHART PLOTTERS & GPS CHART PLOTTERS



# HANDHELD VHF RADIO SPECIFICATIONS

THE QUALITY YOU CAN COUNT ON

FLOATING	HX851 	HX300 	HX290 	HX150/HX100 
<b>GENERAL</b>				
Battery type / Capacity	Li-ion 1380 mAh	Li-ion 1560 mAh	Li-ion 1140 mAh	Li-ion 1030 mAh / Ni-MH 700 mAh
Input Voltage	7.4 V DC	3.7 V DC	7.4 V DC	4.8 V DC / 7.4 V DC
Current Drain	Standby, GPS On: 100 mA	Standby: 20 mA	Standby: 50 mA	Standby: 15 mA
	Standby, GPS Off: 60 mA			
	Receive: 330 mA (MAX AF Output)	Receive: 330 mA (Typical at MAX AF Output)	Receive: 320 mA (MAX AF Output)	Receive: 300 mA / 300 mA (MAX AF Output)
	Transmit: 1.6 A / 1.5 A / 1.0 A / 0.7 A (6 W / 5 W / 2.5 W / 1 W)	Transmit: 2.3 A / 0.9 A (5 W / 1 W)	Transmit: 1.6 A / 0.7 A (5 W / 1 W)	Transmit: HX150: 1.5 A / 0.7 A HX100: 1.1 A / 0.8 A (5 W / 1 W) (2.5 W / 1 W)
Overall Dimensions	2.5"W x 5.6"H x 1.8"D (62.5W x 141.5H x 45D mm)	2.32"W x 5.04" x 1.3" (59W x 128H x 33D mm)	2.2"W x 5.2"H x 1.7"D (57W x 133H x 44D mm)	2.4"W x 5.3"H x 1.5"D (62W x 135H x 38.5D mm)
Weight	11.8 oz (335 g) (w/FNB-V121LI, Belt Clip & Antenna)	8.4 oz (240 g) (w/FNB-122LI, Belt Clip & Antenna)	10.9 oz (310 g) (w/FNB-110LI, 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)
<b>TRANSMITTER</b>				
RF Output	6 W / 5 W / 2.5 W / 1 W (@7.4 V)	5 W / 1 W (@3.7 V)	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	-75 dBc Typical	-75 dBc Typical	-75 dBc Typical
Frequency Stability	±10 ppm (-4° F to +140° F)	±5 ppm (-4° F to +140° F)	±10 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
<b>RECEIVER</b>				
Sensitivity (12 dB SINAD)	0.25 µV	0.25 µV	0.25 µV	0.3 µV
Selectivity	70 dB Typical	70 dB Typical	70 dB Typical	65 dB Typical
Audio Output	700 mW	600 mW	700 mW	500 mW
DSC Format	ITU-R M493-13	-	-	-
NMEA In/Out	Output: GLL, GGA and RMC	-	-	-
	Input: GLL, GGA, GSA, GSV, DSC, DSE and RMC	-	-	-
<b>HX851 GPS Specifications</b>				
Channels	12 channels			
Sensitivity	Less than -130 dBm			
Time to First Fix	1 min Typical (@Cold Start)			
	40 sec Typical (@Warm Start)			
Geodetic Datum	WGS84			

SUBMERSIBLE	HX400 	HX400IS 	HX370S/HX370SAS 
<b>GENERAL</b>			
Battery type / Capacity	Li-ion 2300 mAh	Li-ion 2300 mAh	Ni-MH 1400 mAh / Ni-MH 1250 mAh
Input Voltage	7.4 V DC	7.4 V DC	7.2 V DC
Current Drain	Standby: 50 mA	Standby: 50 mA	Standby: 40 mA
	Receive: 320 mA (MAX AF Output)	Receive: 320 mA (MAX AF Output)	Receive: 200 mA (MAX AF Output)
	Transmit: 1.6 A / 0.8 A (5 W / 1 W)	Transmit: 1.6 A / 0.8 A (5 W / 1 W)	Transmit: 1.4 A / 0.9 A / 0.5 A (5 W / 2.5 W / 1 W)
Overall Dimensions	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)	2.3"W x 4.7"H x 1.2"D (58W x 120H x 30.5D mm)
Weight	12.3 oz (350 g) (w/FNB-115LI, Belt Clip & Antenna)	12.3 oz (350 g) (w/FNB-115LIIS, Belt Clip & Antenna)	13.4 oz (380 g) (w/FNB-83, Belt Clip & Antenna)
<b>TRANSMITTER</b>			
RF Output	5 W / 1 W (@7.4 V)	5 W / 1 W (@7.4 V)	5 W / 2.5 W / 1 W (@7.2 V)
Conducted Spurious Emissions	-75 dBc Typical	-75 dBc Typical	At least -73 dBc Typical
Frequency Stability	±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
<b>RECEIVER</b>			
Sensitivity (12 dB SINAD)	0.25 µV	0.25 µV	0.25 µV
Selectivity	80 dB(25 kHz) / 70 dB(12.5 kHz)	80 dB(25 kHz) / 70 dB(12.5 kHz)	70 dB
Audio Output	700 mW	700 mW	600 mW
NMEA In/Out	-	-	-

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

FLOATING HANDHELD VHF RADIOS & HANDHELD VHF RADIOS



FIXED MOUNT VHF RADIOS / LOUDHAILER



MULTIMEDIA CHARTPLOTTERS & GPS CHARTPLOTTERS





# FIXED MOUNT VHF RADIOS

POWER, PERFORMANCE, RELIABILITY



FLOATING HANDHELD VHF RADIOS & HANDHELD VHF RADIOS



FIXED MOUNT VHF RADIOS / LOUDHAILER



MULTIMEDIA CHARTPLOTTERS & GPS CHARTPLOTTERS

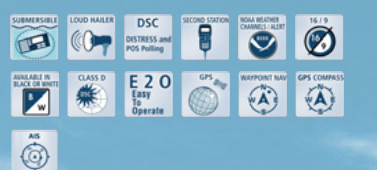


Also available in white



**NEW FOR 2014** **BUILT-IN AIS**  
**GX2200** **IPX7**  
**MATRIX AIS/GPS** **1 m for 30 min Submersible**  
**ITUCLASSO**

**First Fixed Mount VHF With Built-In AIS/GPS receiver**  
**30 W PA/FOG-RAM3 COMPATIBLE**

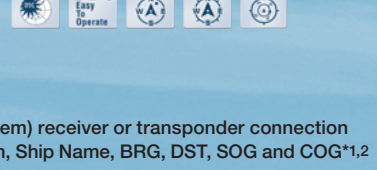


- Features :
- Integrated 66 Channel GPS antenna
  - Integrated dual channel AIS (Automatic Identification System) receiver
  - AIS / AIS SART target display: MMSI, Call Sign, Ship Name, BRG, DST, SOG and COG
  - 4800 or 38400 NMEA baud rate selection, for plotters with 1 NMEA port
  - Contact Class A or B AIS Ship with DSC
  - Programmable CPA or TCPA collision avoidance alarms
  - 80dB Commercial grade receiver
  - Meets ITU-R M.493-13 Class D DSC (Digital Selective Calling)
  - Submersible IPX7 (3.3 feet or 1 meter for 30 minutes) front panel
  - DSC position request and report functions
  - 30 Watt PA/Loud Hailer with preprogrammed fog signals and listen back
  - ClearVoice noise canceling speaker microphone with channel selection and 16/9 key
  - GPS Compass, Waypoint and GPS status pages
  - Navigation (LAT/LON, Time, SOG and COG) information shown on display
  - Enter, Save and Navigate to waypoints with Compass page
  - User customizable soft keys for easy menu operation
  - Versatile user-programmable scanning, priority scan and Dual Watch
  - Oversized rotary channel knob with push to enter, backlit display and keys
  - Optional connection for RAM3 second station remote microphone with AIS display
  - Local/Distance attenuator
  - Supplied with HC2000 Dust Cover



**GX2000** **IPX7**  
**MATRIX** **1 m for 30 min Submersible**  
**ITUCLASSO**

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



- CPA (Closest Point of Approach) Alarm\*1,2
- 80dB Commercial grade receiver
- Meets ITU-R M.493-13 Class D (Digital Selective Call)
- Class D DSC (Digital Selective Calling) with Individual, Group, All ship, Position Report, Request and Distress
- Local/Distance attenuator
- Enter, Save and Navigate to waypoints with Compass page\*2
- Submersible IPX7 (3.3 Ft or 1 m for 30 minutes)
- ClearVoice noise canceling speaker microphone with channel selection and 16/9 key
- Oversized rotary channel knob with push to enter, backlit display and keys
- 30 Watt PA/Loud Hailer with pre-programmed fog signals
- Capable of connecting an optional RAM3 second station remote microphone
- Able to control all radio, DSC, Hailer and AIS (when connected) functions remotely with optional RAM3
- Intercom between radio and RAM3
- Versatile user-programmable scanning, priority scan and Dual Watch
- Navigation (LAT/LON, SOG and COG) information shown on display\*2
- Supplied with HC2000 Dust Cover

- Features :
- AIS (Automatic Identification System) receiver or transponder connection
  - AIS target display: MMSI, Call Sign, Ship Name, BRG, DST, SOG and COG\*1,2
  - Contact AIS Ship with DSC\*1,2



Also available in black



**GX1700** **IPX8**  
**EXPLORER GPS** **1.5 m for 30 min Submersible**  
**ITUCLASSO**

**Ultra thin and compact**  
**First Fixed Mount VHF with BUILT-IN GPS!**



- Features:
- Fixed Mount VHF with BUILT-IN 12 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
  - GPS Compass display
  - Navigation (LAT/LON, SOG, and COG) information shown on display
  - Submersible IPX8 (5 Ft or 1.5 m for 30 minutes)
  - Noise canceling microphone with channel UP/DOWN, 16/9 and H/L keys
  - NOAA weather channel selection with alert
  - Programmable Scan, Priority Scan, and Dual Watch
  - Preset key (Maximum 10 channels)
  - GPS repeating of position, SOG, COG and time
  - Customizable channel names
  - NMEA Input and Output GPS information when connected to another NMEA device
  - Programmable soft keys
  - Capable of connecting to a Second Station
  - RAM3 Remote Access Microphone
  - Die-cast chassis





# FIXED MOUNT VHF RADIOS

POWER, PERFORMANCE, RELIABILITY



Also available in black

## GX1600 EXPLORER

**IPX8**  
1.5 m for 30 min Submersible

ITU CLASS D

ULTRA COMPACT FIXED MOUNT DSC VHF-RAM3 COMPATIBLE



Features :

- 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
- Enter, Save, and Navigation to waypoint with Compass page\*2
- GPS Compass display
- Navigation (LAT/LON, SOG, and COG) information shown on display\*2
- Submersible IPX8 (5 Ft or 1.5 m for 30 minutes)
- Noise canceling microphone with channel UP/DOWN, 16/9 and H/L keys
- NOAA weather channel selection with alert
- Programmable Scan, Priority Scan, and Dual Watch
- NMEA Input and Output
- Programmable soft keys
- Capable of connecting to a Second Station RAM3 Remote Access Microphone
- Die-cast chassis



Also available in black

## GX1200 ECLIPSE DSC+

**IPX7**  
1 m for 30 min Submersible for the Front Panel

ITU CLASS D

Fixed Mount Class D DSC VHF



Features:

- Affordable Ultra Compact Fixed Mount VHF radio
- Meets ITU-R M.493-13 Class D (Digital Selective Call)
- Replaces older Eclipse+, Eclipse DSC and Eclipse DSC+ Models
- Full dot matrix display
- User programmable soft keys for easy menu operation
- 16/9, H/L and channel up/down keys on the mic
- DSC Distress, Individual, Group, All Ships, Position Request, Position Request and DSC Test Call
- Auto DSC channel change selection
- Submersible IPX7 (3.3 Ft or 1 m for 30 minutes) Front Panel
- GPS position and Time shown on display\*2
- Programmable Scan, Priority Scan, and Dual Watch
- NOAA Weather Channels with Alert
- All USA, International and Canadian Marine Channels
- NMEA 0183 Input and Output
- Overall Dimension: 2.4" H x 6.1" W x 6.7" D
- Flush Mount Cutout: 2.0" H x 5.2" W



# COMMERCIAL GRADE MARINE VHF AND LOUD HAILER

BUILT BY PROFESSIONALS FOR PROFESSIONALS



## GX5500S QUANTUM

**IPX7**  
1 m for 30 min Submersible for the Front Panel

ITU CLASS D

FIXED MOUNT DSC VHF WITH ALPHANUMERIC KEYPAD, 30 W PA/FOG-RAM3 COMPATIBLE



Features :

- 80 dB Commercial grade receiver
- Meets ITU-R M.493-13 Class D (Digital Selective Call)
- Bluetooth® capable headset (Optional BTK-2 Kit)
- Direct keypad entry of channels
- 30 Watt PA, FOG, Bells and Whistles with listen back
- Bass and Treble Audio Tone Control
- Noise canceling speaker microphone
- Large rotary knobs, and oversized display
- Second station capable with RAM3 or VH-310
- Front Panel microphone can be removed to rear panel and extended to 20 feet using MEK-4
- Features a large alpha numeric keypad



## VLH-3000

**IPX7**  
1 m for 30 min Submersible for the Front Panel

30 W DUAL ZONE LOUD HAILER

Features :

- 30 Watt PA output
- Forward and aft dual zone hailer with listen back
- Bells & whistles and 4 fog signals
- Noise canceling microphone
- Easy push button control
- Loud internal speaker audio
- Dual zone intercom capability with connection of up to 2 optional MLS-300i intercom speakers

\*1 when connected to an optional AIS receiver or transponder \*2 when connected to an optional GPS

FLOATING HANDHELD VHF RADIOS & HANDHELD VHF RADIOS



FIXED MOUNT VHF RADIOS / LOUDHAILER



MULTIMEDIA CHARTPLOTTERS & GPS CHARTPLOTTERS





# FIXED MOUNT VHF RADIO ACCESSORIES

GET THE JOB DONE RIGHT, THE FIRST TIME

CMP30 RAM3



- Full functioning second station
- Submersible IPX7 - 3.3 Ft for 30 minutes
- Full dot matrix display
- Programmable soft keys for easy operation
- Supplied with 23 Ft of routing cable
- External audio speaker connection

240SW



- 5x8" Rectangular 4 Ohm 40 Watt PA/Hailing horn
- Compatible with GX2000 / GX2200 / GX5500S and VLH-3000

220SW



- 5" Round 4 Ohm 30 Watt PA/Hailing horn
- Compatible with GX2000 / GX2200 / GX5500S and VLH-3000

MEK-4



- Microphone extension kit
- Remote mic up to 20 Ft
- Compatible with GX5500S

MLS-300



- External loud speaker
- Available in black or white
- Bracket or flush mount
- 5 Inch diameter
- 4 Ohms

MLS-310



- 10 watt amplified speaker
- Available in black or white
- Bracket or flush mount
- 5 Inch diameter
- ON/OFF Volume control
- 8 Ohms

MLS-300i



- Intercom speaker used with VLH-3000
- PTA (push to alert) button
- Available in black or white
- Bracket or flush mount
- 5 Inch diameter
- 4 Ohms

BTK-2

Industry 1st



- Wireless Bluetooth® headset
- Noise canceling boom mic
- Compatible with GX5500S
- PTT or VOX operation
- Volume and power buttons

The Bluetooth® word mark and logos are registered trademarks owned by the Bluetooth SIG, Inc. and any use of such marks by YAESU MUSEN Co., Ltd. is under license. Other trademarks and trade names are those of their respective owners.

## FIXED MOUNT VHF ACCESSORIES

MODEL	Description	QUANTUM GX5500S	MATRIX AIS/GPS GX2200	MATRIX GX2000	EXPLORER GPS GX1700	EXPLORER GX1600	ECLIPSE DSC + GX1200	VLH-3000
BTK-2	Bluetooth® wireless headset kit	○						
CMP30B	Remote station microphone (Black)	○	○	○	○	○		
CMP30W	Remote station microphone (White)	○	○	○	○	○		
CT-100	23-foot extension cable for CMP30/VH-310	○	○	○	○	○		
Q7000619A	External GPS antenna with 30Ft of cable	○	○	○	○	○	○	
CVS2500A	Voice scrambler	○	○	○				
HC1100	Dust Cover						○	
HC1600	Dust Cover				○	○		
HC2000	Dust Cover		○	○				
MEK-4	Microphone Extension Kit (20')	○						
MLS-300	External speaker	○	○	○	○	○	○	○
MLS-300i	Intercom speaker with push-to-alert							○
MLS-310	External speaker with 10 W amplifier	○	○	○	○	○	○	○
MMB-84	Flush mount bracket	○	○	○			○	○
MMB-97	Flush mount bracket				○	○		
220SW	5" Round 4 Ohm 30 Watt PA/hailing horn	○	○	○				○
240SW	5 x 8" Rectangular 4 Ohm 40Watt PA/hailing horn	○	○	○				○

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FIXED MOUNT VHF RADIOS / LOUDHAILER



MULTIMEDIA CHARTPLOTTERS & GPS CHARTPLOTTERS





# FIXED MOUNT VHF RADIO SPECIFICATIONS

UNPARALLELED PERFORMANCE AT EVERY LEVEL

	GX5500S	GX2200	GX2000
			
<b>GENERAL</b>			
Input Voltage	13.8 VDC ±20 %	13.8 V DC ±20%	
Current Drain	Standby: 0.5 A	Standby: 0.55 A	
	Receiver: 1.5A	Receiver: 0.8 / 0.9 A	
	Transmit: 5.0 A (Hi), 1.5 A (Lo)	Transmit: 5.0 A (Hi), 1.0 A (Lo)	
Overall Dimensions	3.5"H x 9.1"W x 5.9"D (90H x 230W x 150D mm)	3.1"H x 7.1"W x 6.3"D (80H x 180W x 160D mm)	
Flush-Mount Dimensions	2.8"H x 8.1"W x 5.1"D (72H x 205W x 130D mm)	2.6"H x 6.3"W x 5.9"D (65H x 161W x 150D mm)	
Weight	3.2 lbs (1.5 kg)	3.1 / 3.2 lbs (1.5 kg)	
PA/FOG Power Output	30 W with listen back	30 W with listen back / 30 W no listen back	
<b>TRANSMITTER</b>			
RF Output	25 W (Hi), 1 W (Lo)	25 W (Hi), 1 W (Lo)	
Conducted Spurious Emissions	80 dB (Hi), 66 dB (Lo)	Less than -80 dBc (Hi), -66 dBc (Lo)	
Frequency Stability	±5 ppm (-4° F to +140° F)	±3 ppm (-4° F to +140° F)	
FM Hum and Noise	50 dB	50 dB	
<b>RECEIVER (for Voice and DSC)</b>			
Sensitivity (12 dB SINAD)	0.30 µV	0.30 µV	
Spurious and Image Rejection	80 dB	80 dB for Voice (75 dB for DSC)	
Intermodulation and Rejection	80 dB	80 dB for Voice (75 dB for DSC)	
Audio Output	4.5 W	4.5 W	
DSC Format	Class D ITU-R M.493-13	Class D ITU-R M.493-13	
<b>RECEIVER (for AIS)</b>			
Sensitivity		0.5 µV *2	
Selectivity		Spurious and Image Rejection 70 dB *2	
		Intermodulation and Rejection 70 dB *2	
<b>NMEA Input/Output</b>			
NMEA-0183	Input: GLL, GGA, RMC and GNS(4800 bps)	Input: GLL, GGA, GNS, RMC, GSA *2 and GSV *2 (4800 or 38400 *2 bps)	
	Output: DSC and DSE(4800 bps)	Output: DSC, DSE(4800 or 38400 *2 bps)	
NMEA-0183-HS		Output: VDM*2(38400 bps)	

\*2 GX2200 only

	GX1700	GX1600	GX1200
			
<b>GENERAL</b>			
Input Voltage	13.8 VDC ±20 %	13.8 VDC ±20 %	13.8 VDC ±20 %
Current Drain	Standby: 0.45 A	Standby: 0.45 A	Standby: 0.3 A
	Receive: 0.8 A	Receive: 0.8 A	Receive: 1.0 A
	Transmit: 5.0 A (Hi), 1.0 A (Lo)	Transmit: 5.0 A (Hi), 1.0 A (Lo)	Transmit: 5.5 A (Hi), 1.5 A (Lo)
Overall Dimensions	3.4"H x 5.9"W x 3.5"D (85H x 150W x 90D mm)	3.3"H x 5.9"W x 3.5"D (85H x 150W x 90D mm)	2.4"H x 6.1"W x 6.7"D (60H x 155W x 170D mm)
Flush-Mount Dimensions	2.8"H x 5.4"W x 2.6"D (72H x 137W x 65D mm)	2.8"H x 5.4"W x 3.5"D (72H x 137W x 90D mm)	2.0"H x 5.2"W x 5.5"D (51 x 131 x 140 mm)
Weight	2.0 lbs (0.9 kg)	2.0 lbs (0.9 kg)	2.0 lbs (920 g)
PA/FOG Power Output	-	-	-
<b>TRANSMITTER</b>			
RF Output	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)	80 dB (Hi), 66 dB (Lo)
Frequency Stability	±3 ppm (-4° F to +140° F)	±3 ppm (-4° F to +140° F)	±3 ppm (-4° F to +122° F)
FM Hum and Noise	50 dB	50 dB	50 dB
<b>RECEIVER (for Voice and DSC)</b>			
Sensitivity (12dB SINAD)	0.25 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
Intermodulation and Rejection	70 dB for Voice (70 dB for DSC)	70 dB for Voice (70 dB for DSC)	70 dB
Audio Output	4.5W	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
<b>NMEA Input/Output</b>			
NMEA-0183 (4800bps for Position Data)	Input: GSA, GSV, GGA, GLL, GNS and RMC	Input: GSA, GSV, GGA, GLL, GNS and RMC	Input: GLL, GGA, RMC and GNS
	Output: DSC and DSE	Output: DSC and DSE	Output: DSC and DSE
NMEA-0183 HS (38400bps for AIS Data)	-	-	-
<b>GX1700 GPS Specifications</b>			
Channels	12 channels		
Sensitivity	Less than -130 dBm		
Time to First Fix	1 min typical (@ Cold Start)		
	40 sec typical (@ Warm Start)		
Geodetic Datum	WGS84		
SBAS Correction	WAAS, MSAS and EGNOS		

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MULTIMEDIA CHARTPLOTTERS & GPS CHARTPLOTTERS





# TOUCH SCREEN MULTIMEDIA CHARTPLOTTERS



## CPN1010i



## CPN700i

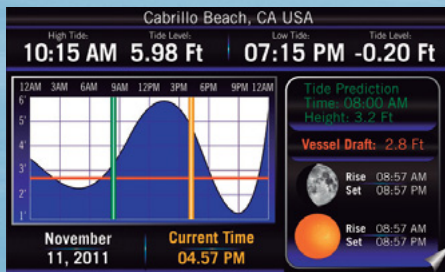


**Features:**

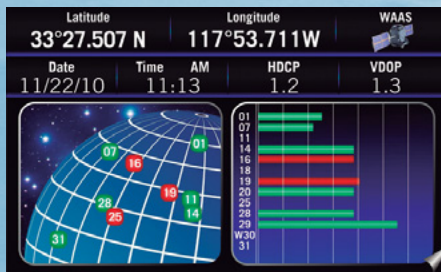
- CPN700i: 7" WVGA 800 x 480 high resolution wide screen touch screen display
- CPN1010i: 10.2" WSVGA 1024 x 600 high resolution wide screen touch screen display
- Built-in stereo speakers with auxiliary output to connect to your onboard stereo
- Bluetooth® capability to use option keyboard and mouse
- Wi-Fi® / Internet Web Browser and Media Player built-in
- USB connection for memory stick to watch movies, view pictures, or listen to music
- Optional C-Map 4D cartography for viewing 3D, raster or vector charts
- Internal 50 channel WAAS GPS antenna with external antenna connection
- AIS and Fish Finder capable
- CPN700i (1) CPN1010i (2) Video inputs with Picture in Picture display
- CPN1010i (1) VGA Video output • NMEA2000® compatible
- Dual chart window with independent zoom levels
- Easy Routing and Guardian Alarm
- Supplied with swivel mounting bracket and flush mounting hardware

**Update Features**

- Mobile Link – Display CPN Chart and Navigation data on iPhone or iPad via Jeppesen's Plan2Nav application
- C-Weather – Jeppesen's free weather forecasting service lets boater's download important weather data onto their CPN Chartplotter, including wind speed/direction, wave height, surface temperature, humidity, and visibility.



Tide page



GPS Status page



Highway page



**C-MAP 4D – Customize the way you cruise, sail or fish today ... and tomorrow.**  
 C-MAP 4D is the only maritime chartplotting solution that lets you completely customize your digital navigation charts. You choose the content (MAX or 4D), and you choose when to purchase additional Value-Added-Data to enhance your boating or sailing experience.



3D Views



2D/3D Raster Overlays



2D/3D Satellite Overlay

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MULTIMEDIA CHARTPLOTTERS & GPS CHARTPLOTTERS







# GPS CHARTPLOTTERS



## CP590NC



## CP190iNC



## CP390iNC



### Features:

- CP190iNC: 5 inch 320x240 resolution display
- CP390iNC: 7 inch 800x480 high resolution wide screen display
- CP590NC: 12 inch 800x600 high resolution display
- CP190iNC / CP390iNC: Internal 50 channel WAAS GPS receiver with external GPS connection
- CP590NC: External 50 channel WAAS GPS antenna
- Video input with Picture In Picture display (CP390iNC 1 input, CP590NC 2 inputs)
- VGA video output connects to an external monitor or compatible TV (CP590NC)
- C-MAP NT+ and C-MAP MAX cartography options
- AIS and Fish Finder capable
- Displays DSC Distress and Position report calls received from a DSC VHF radio
- Dual chart window with independent zoom levels
- Route Checking and Guardian Alarm
- Supplied with a swivel bracket and flush mounting hardware

# GPS CHARTPLOTTER / FISH FINDER COMBOS



## CPF190iNC



## CPF190i



### Fish Finder Features

- Built-in 600 W Dual frequency Fish finder
- 50 and 200 kHz dual frequency selection
- Bottom Lock and White Line selections
- Sensitivity Time Control (STC) and Surface Noise Filter
- Speed through water (if available on transducer)
- Alarms - Shallow, Depth, Temp Upper and Lower

### Features:

- CPF190i: 5 inch 320x240 resolution display
- Internal 50 channel WAAS GPS receiver and antenna
- External 50 Channel WAAS GPS Smart antenna option
- C-MAP NT+ and C-MAP MAX cartography options
- AIS and Fish Finder capable
- Dual chart window with independent zoom levels
- Route Checking and Guardian Alarm
- Supplied with a swivel bracket and flush mounting hardware



### C-Map Max Optional Cartography

Bring your electronic charts to life with the ultimate navigator. You'll benefit from the most accurate chart detail, versatile features and a wealth of useful data.

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FIXED MOUNT VHF RADIOS / LOUDHAILER



MULTIMEDIA CHARTPLOTTERS & GPS CHARTPLOTTERS





# GPS CHARTPLOTTER ACCESSORIES

## GPS CHARTPLOTTER ACCESSORIES

MODEL	Description	CPN1010i	CPN700i	CP590NC	CP390iNC	CP190iNC	CPF190iNC
ACAC10	Line Out Audio Adapter Cable	O	O				
ACVC10	Video Adapter Cable	O	O	O	O		
DST520	600 W 2" Nylon Thru-Hull Depth/Temp	*	*	*	*	*	O
DST521	600 W Transom Mount Depth/Speed/Temp	*	*	*	*	*	O
DST523	600 W 2" Bronze Thru Hull Depth/Temp	*	*	*	*	*	O
DST525	600 W In-Hull Depth Transducer	*	*	*	*	*	O
DST526	600 W Bronze Thru Hull Depth/Speed/Temp with fairing block	*	*	*	*	*	O
DST527	1000 W In-Hull Depth Transducer	*	*	*	*	*	
DST528A	1000 W Thru-Hull Depth/Temp with fairing block	*	*	*	*	*	
FF525	Dual Frequency Black Box Fish Finder Module	O	O	O	O	O	
VGAC10	VGA Adapter Cable	O		O			
Q7000619A	50 Channel GPS NMEA Antenna with 30 Feet of routing cable	Option	Option	O	Option	Option	Option

\*Can be used when FF525 is connected

## FISHFINDER AND TRANSDUCERS



### FF525 Black box fishfinder

- 50/200 kHz Dual frequency
- 600 W or 1000 W output

Power supply : 10 - 35 VDC  
 Max stand by current draw : 1000 W:142 mA at 12 VDC  
 : 600 W:100 mA at 12 VDC  
 Max current draw 1000W : 1.42A at 12 Volt DC  
 : 600 W:1A at 12 Volt DC  
 Power Output : 600/1000 W (4800/8000 WPeak to Peak)  
 Display Colors : 256 and 16 color capable  
 Display/Vertical Resolution : 400 pixels on CP390iNC, CP590NC, CPN700i and CPN1010i  
 : 200 pixels on CP190iNC  
 Frequency : Dual 50 and 200 kHz  
 Max Depth\* : 1000 W:1200 Ft (365 m) at 200 kHz; 4000 Ft (1219 m) at 50 kHz  
 : 600 W:700 Ft (213 m) at 200 kHz; 1500 Ft (457 m) at 50 kHz

Min Depth : 2.5 Ft (0.8 m) at 200 kHz; 5 Ft (1.6 m) at 50 kHz  
 Max Typical\* : 1000 W:980 Ft (299 m) at 200 kHz; 2700 Ft (823 m) at 50 kHz  
 : 600 W:600 Ft (183 m) at 200 kHz; 1350 Ft (411 m) at 50 kHz  
 NMEA output sentences : Depth: DBT, DPT  
 : Temperature: MTW  
 : Speed (with DST521 or DST526): VHW  
 Weight : 2.20 LBS (1 kg)  
 Operating temperature range : 32° F to 122° F (0° C to +50° C)  
 Storage temperature range : -4° F to 158° F (-20° C to +70° C)  
 Dimensions : 7.73"W x 1.96"H x 6.5"D (196.4W x 50H x 164.96D mm)

NOTE\* This is not a guaranteed specification. The actual maximum depth capability of the system depends on the type of transducer fitted, the reflectivity of the bottom, water condition, etc.

### 600 W TRANSDUCERS

### 1000 W TRANSDUCERS



**DST520**  
2" Nylon Thru-Hull  
Depth & Temp



**DST521**  
Transom Mount,  
Depth, Speed & Temp



**DST523**  
2" Bronze Thru-Hull  
Depth & Temp



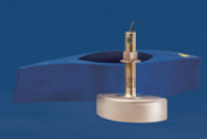
**DST525**  
In-Hull Mount,  
Depth



**DST526**  
Bronze Thru-Hull, Triducer,  
Depth, Speed & Temp,  
with fairing block

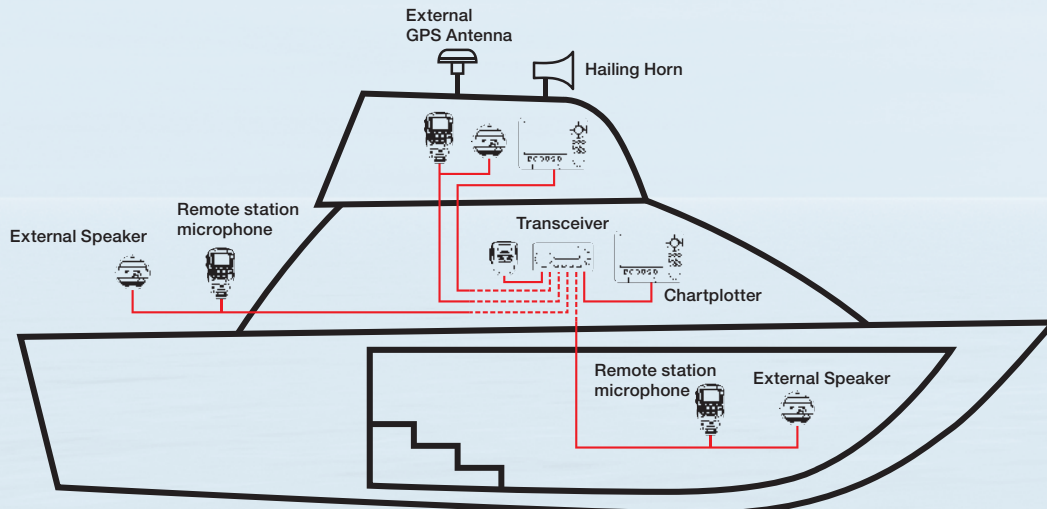


**DST527**  
In-Hull Mount,  
Depth



**DST528A**  
Thru-Hull, Long stem,  
Depth & Temp  
with fairing block

## Conceptual diagram of possible locations and connections



NOTE: The GX1600 and GX1700 Explorer and the GX2000 and GX2200 Matrix Fixed Mount VHF radios are only capable of connecting to one optional remote microphone, however the GX5500S can connect up to two optional remote microphones and a Bluetooth wireless headset.



### Q7000619A

External GPS Antenna  
50 Channel GPS NMEA Antenna  
with 30 feet of routing cable

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FIXED MOUNT VHF RADIOS / LOUDHAILER



MULTIMEDIA CHARTPLOTTERS & GPS CHARTPLOTTERS







# GPS CHARTPLOTTERS SPECIFICATIONS

UNPARALLELED PERFORMANCE AT EVERY LEVEL

## Touch screen and Multimedia ChartPlotters


	CPN1010i 	CPN700i 
<b>GENERAL</b>		
Input Voltage	10-35 VDC	10-35 VDC
Current Drain	1.5 A	750 mA
Display	10.1" bonded touch screen Sunlight viewable technology	7" bonded touch screen Sunlight viewable technology
Display Resolution	WSVGA 1024 x 600	WVGA 800 x 480
Aspect Ratio	16 x 9	16 x 9
Brightness	1000 nits	1000 nits
Contrast	500:1 contrast	250:1 contrast
Cartography	built-in, optional C-Map 4D	built-in, optional C-Map 4D
Operating Temperature Range	32° F to +131° F (0° C to +55° C)	32° F to +131° F (0° C to +55° C)
Overall Dimensions	7.5"H x 12"W x 2.8"D	5.9"H x 9.3"W x 2.8"D
Flush Mount Dimensions	6.8"H x 10.6"W	5.5"H x 8"W
Weight (without bracket)	4.4 lbs	2.7 lbs
User Points	Marks/waypoints 3000 Routes 50/100 points each	Marks/waypoints 3000 Routes 50/100 points each
Track Points	10,000	10,000
NMEA 0183 Out/In	RS232: 3/2, RS422: 2/2	RS232: 3/2, RS422: 2/2
Internal GPS Type	WAAS, 50 channel	WAAS, 50 channel
Bluetooth®	Bluetooth® version 2.1	Bluetooth® version 2.1
WiFi	802.11b/g/n	802.11b/g/n
USB	On rear panel	On rear panel
Low Level Audio Output	100 mV to 4 V	100 mV to 4 V
Video	2 Video input NTSC/PAL with Picture in Picture / 1VGA output	1 Video input NTSC/PAL with Picture in Picture



FLOATING HANDHELD VHF RADIOS & HANDHELD VHF RADIOS



## GPS ChartPlotters

	CP590NC 	CP390iNC 	CP190iNC 	CPF190iNC 
<b>GENERAL</b>				
Input Voltage	10-35 VDC	10-35 VDC	10-35 VDC	10-35 VDC
Current Drain	1.5 A max	750 mA max	520 mA max	2.2 A max
Display	TFT Color LCD (Active area 12") Sunlight viewable 256-color	TFT Color LCD (Active area 7") Sunlight viewable 256-color	TFT Color LCD (Active area 5") Sunlight viewable 256-color	TFT Color LCD (Active area 5") Sun viewable 256-Color
Display Resolution	800 x 600 pixels	800 x 480 pixels	320 x 240 pixels	320 x 240 pixels
Cartography	C-MAP NT+ / MAX C-Card	C-MAP NT+ / MAX C-Card	C-MAP NT+ / MAX C-Card	C-Map NT+ / Max C-Card
Operating Temperature Range	32° F to +131° F (0° C to +55° C)	32° F to +131° F (0° C to +55° C)	32° F to +131° F (0° C to +55° C)	32° F to +131° F (0° C to +55° C)
Overall Dimensions	10.2"H x 15.4"W x 6.3"D	5.7"H x 9.9"W x 1.5"D	4.4"H x 7.1"W x 1.7"D	4.3"H x 7.1"W x 2.3"D
Flush Mount Dimensions	8"H x 10.8"W	4.3"H x 9"W	3.4"H x 6.5"W	3.75"H x 6.5"W
Weight (without bracket)	6.6 lbs (3 kg)	2 lbs (920 g)	1.3 lbs (600 g)	1.7 lbs (780 g)
User Points	Marks/Waypoints 3000 Routes: 50 (max 100 Waypoints each)	Marks/Waypoints 3000 Routes: 50 (max 100 Waypoints each)	Marks/Waypoints 3000 Routes: 50 (max 100 Waypoints each)	Marks/Waypoints 3000 Routes: 50 (max 100 waypoints each)
Track Points	10,000 (recordable in 20 tracks)	10,000 (recordable in 20 tracks)	10,000 (recordable in 20 tracks)	10,000 (recordable in 20 tracks)
NMEA 0183	5 Outputs and 4 inputs	5 Outputs and 4 inputs	3 Outputs and 2 inputs	2 Outputs and 1 input
Receiver Type	WAAS, 50 Channel	WAAS, 50 Channel	WAAS, 50 Channel	WAAS, 50 Channel
Fish Finder Power Out				600W
Dual Frequency				50 and 200 kHz
Depth Capability				2.5 Ft to 700 Ft at 200 kHz 5 Ft to 1500 Ft at 50 kHz

FIXED MOUNT VHF RADIOS / LOUDHAILER



Because Standard Horizon Chartplotters are built better, they're backed better. If your Standard Horizon Chartplotter ever fails for any reason including water damage during normal use in the first three years, STANDARD HORIZON will repair or replace it free, without hassle or charges...period! If it fails thereafter in normal use for the life time of the product it is covered by Standard Horizon's Lifetime Flat Rate Service and Customer Loyalty Programs.

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MULTIMEDIA CHARTPLOTTERS & GPS CHARTPLOTTERS





# ***STANDARD HORIZON***

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"Standard Horizon makes every effort to keep our oceans blue.  
This catalog was produced with the environment in mind please recycle."

