

STANDARD HORIZON

NOTHING TAKES TO WATER LIKE STANDARD HORIZON

2012 MARINE COMMUNICATIONS PRODUCT CATALOG



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THE LEADER IN MARINE COMMUNICATIONS



Our mission:

Our mission is quite simple, "Produce the finest Marine Communications in 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	RADAR	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>*5 W for Australia Version.</small>
LARGE DISPLAY	LUMINESCENT Gasket	E 2 0 Easy To Operate	OPTIONAL MIC / HEADSET	SECOND STATION	THERMO SENSOR +140°F (+60°C) +14°F (-10°C)	TONE CONTROL	GPS COMPASS
WAYPOINT NAV	DISTRESS	FISH FINDER	80 dB RECEIVER	CUSTOMIZABLE SCREENS	PICTURE IN PICTURE	GPS	High Capacity Li-Ion Battery Included
3.7V Battery technology	AC and DC Charger Included	USB Charger Included	WATER PROOF GUARANTEE	<small>STANDARD HORIZON</small>			

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A FAMILY OF MARINE COMMUNICATIONS

A WIDE RANGE OF PRODUCTS TO SUIT YOUR NEEDS

HANDHELD VHF RADIOS



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FLOATING HANDHELD VHF RADIOS



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MULTIMEDIA CHARTPLOTTERS



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HANDHELD VHF RADIOS

DESIGNED SPECIFICALLY FOR USE IN HARSH MARINE ENVIRONMENTS



HX280S

BEST OF THE BASICS



Features :

- Submersible IPX7 - 3.3 Ft for 30 minutes
- More than 13 hours of battery life
- Selectable 5 and 1 Watt transmit power output
- Supplied with a 1650 mAh Lithium-ion battery, AC and DC chargers and a charging cradle
- Huge channel display
- Programmable Scan, Priority Scan and Dual Watch
- NOAA Weather channels and Weather Alert
- Low battery indicator
- Preset key used to recall up to 10 favorite channels



HX370S

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 for 30 minutes
- Supplied with 1400 mAh Ni-MH battery, alkaline battery tray, AC and DC chargers and cradle
- Programmable scanning, dual watch and priority scan
- SOS Strobe Light
- Heavy duty die-cast frame
- Voice Scrambler capable



HX370SAS

INTRINSICALLY SAFE



All the great features of the HX370S in an intrinsically safe housing.

INTRINSICALLY SAFE INFORMATION:

The HX370SAS, FNB-V57IS Ni-Cd battery pack, optional CMP460 speaker microphone and FVP-31 voice scrambler meet the ANSI/UL 913-6th Ed. Requirements for: Class 1: Flammable Gases, Vapors, or Liquids Div. 1 Group A (Acetylene) Group B (Hydrogen) Group C (Ethylene) Group D (Propane) Class 2: Combustible Dusts Div. 1 Group E (Metals) Group F (Coal) Group G (Grain) Class 3: Ignitable Fibers and flyings



HX400

COMMERCIAL VHF WITH LMR CHANNELS



Features:

- Submersible IPX8 - 5 Ft 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 2400 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



HX400IS

NEW FOR 2012

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 913-7th Ed.



FLOATING HANDHELD VHF RADIOS

LEADING THE INDUSTRY WITH THE FIRST FLOATING VHF WITH GPS



Water Enabled Light



HX300

NEW FOR 2012

COMPACT FLOATING HANDHELD VHF



Features:

- Floating
- Submersible IPX8 - 5 Ft 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 cable



HX290

FLOATING 5 WATT HANDHELD VHF



Features:

- Floating
- Submersible IPX8 - 5 Ft for 30 minutes
- Glow-In-The-Dark strip
- Selectable 5 and 1 Watt transmit power output
- Supplied with Li-Ion battery, AC and DC chargers and cradle
- 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



HX851

FLOATING 6 WATT HANDHELD VHF WITH GPS



Features:

- Floating
- IPX7 - 3.3 Ft 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 Li-Ion battery, AC and DC chargers and cradle



HX751

FLOATING 6 WATT HANDHELD VHF



Features:

- Floating
- Submersible IPX7 - 3.3 Ft for 30 minutes
- Luminescent Glow in the Dark gasket
- 6 Watt transmit power
- SOS Strobe light
- Battery life indication
- Preset key used to recall up to 10 favorite channels
- 700 mW Loud speaker audio with treble and bass Audio Tone Control
- Programmable Scan, Priority Scan and Dual Watch
- NOAA Weather channels and Weather Alert
- Built-in thermometer sensor
- SOS Strobe light capable
- Selectable Power Output 6/5/2.5/1 Watt
- Supplied with Li-Ion battery, AC and DC chargers and cradle



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HANDHELD VHF ACCESSORIES

THE ACCESSORIES YOU NEED!

FNB-V99LI
1150 mAh Li-Ion battery



FNB-115LI
2400 mAh Li-Ion battery



MH-73A4B
Speaker Microphone



PA-48B
110VAC Wall Charger



VC-24
Headset with VOX



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



MH-66D4B
Speaker Microphone



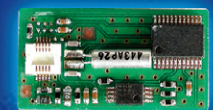
E-DC-19A
12VDC cigarette lighter charger



CD-38
NMEA Charging cradle



FVP-31
Scrambler board



HANDHELD VHF ACCESSORIES






MODEL	Description	HX280S	HX290	HX300	HX370S	HX370SAS*	HX400	HX400IS*	HX751	HX851
CAT460	VHF marine antenna	○	○	○	○	○	○	○	○	○
CD-26	Charger cradle used with PA-48B/C				○	○				
CD-38	NMEA charger cradle used with PA-48B/C									○
CD-39	Charger cradle used with PA-48B/C								○	
CD-46	Charger cradle used with PA-48B/C	○								
CD-50	3-hour charger cradle used with PA-45B/C						○	○		
CD-52	Charger cradle used with PA-48B/C		○							
CLIP-14	Belt clip				○	○				
CLIP-22	Belt clip			○			○	○		
CMP460	Submersible speaker microphone (IS rated)*		○		○	○	○	○	○	○
E-DC-6	12VDC cable	○	○		○	○			○	○
E-DC-19A	DC cable with cigarette lighter plug	○	○		○	○			○	○
E-DC-30	DC cable with cigarette lighter plug used with CD-50 only						○	○		
FBA-38	Alkaline battery tray								○	○
FBA-40	Alkaline battery tray	○								
FBA-42	Alkaline battery tray		○				○			
FBA-44	Alkaline battery tray			○						
FNB-V57IS	Intrinsically safe 1100 mAh Ni-Cd battery*					○				
FNB-83	1400 mAh Ni-MH battery				○					
FNB-V99LI	1150 mAh Lithium-ion battery								○	○
FNB-V105LI	1650 mAh Lithium-ion battery	○								
FNB-V110LI	1170 mAh Lithium-ion battery		○							
FNB-115LI	2400 mAh Lithium-ion battery						○			
FNB-115LIIS	Intrinsically safe 2400 mAh Lithium-ion battery*							○		
FNB-122LI	1560 mAh Lithium-ion battery			○						
FVP-31	Scrambler 4 code				○	○				
LCC-370	Leather case				○	○				
LCC-530S	Leather case						○	○		
MCC-270	Nylon radio case				○	○				
MH-57A4B	Mini speaker microphone with earphone jack		○				○		○	○
MH-66D4B	Submersible speaker microphone		○		○	○	○	○	○	○
MH-73A4B	Submersible speaker microphone		○		○	○	○	○	○	○
PA-45B	110AC 3-hour charger used with CD-50						○	○		
PA-45C	240AC 3-hour charger used with CD-50						○	○		
PA-48B	110VAC charger used with CD-26/38/39/46/52	○	○		○	○			○	○
PA-48C	240VAC charger used with CD-26/38/39/46/52	○	○		○	○			○	○
PA-54B	110VAC USB Wall Charger and cradle			○						
PA-54C	240VAC USB Wall Charger and cradle			○						
VAC-370B	110VAC rapid charger				○	○				
VAC-370C	240VAC rapid charger				○	○				
VC-24	VOX headset		○		○	○	○		○	○
VC-27	Earpiece/microphone		○		○	○	○		○	○

*Intrinsically Safe Version

PRODUCT SPECIFICATIONS

THE QUALITY YOU CAN COUNT ON

	HX280S	HX370S/HX370SAS	HX400	HX400IS
SUBMERSIBLE				
GENERAL				
Battery type / Capacity	Li-Ion 1650 mAh	Ni-MH 1400 mAh / Ni-Cd 1100 mAh	Li-Ion 2400 mAh	Li-Ion 2400 mAh
Input Voltage	7.4 VDC	7.2 VDC	7.4 VDC	7.4 VDC
Current Drain	Standby: 50 mA	Standby: 40 mA	Standby: 50 mA	Standby: 50 mA
	Receive: 320 mA (Max AF Output)	Receive: 200 mA (Max AF Output)	Receive: 320 mA (Max AF Output)	Receive: 320 mA (Max AF Output)
	Transmit: 1.6 A / 0.7 A (5 W / 1 W)	Transmit: 1.4 A / 0.9 A / 0.5 A (5 W / 2.5 W / 1 W)	Transmit: 1.6 A / 0.8 A (5 W / 1 W)	Transmit: 1.6 A / 0.8 A (5 W / 1 W)
Overall Dimensions	2.2"W x 5.3"H x 1.1"D (56W x 133H x 27.5D mm)	2.3"W x 4.7"H x 1.2"D (58W x 120H x 30.5D mm)	2.24"W x 5.24"H x 1.57"D (57W x 133H x 40D mm)	2.24"W x 5.24"H x 1.57"D (57W x 133H x 40D mm)
Weight	10.9 oz (310 g) (w/FNB-V105LI, Belt Clip & Antenna)	13.4 oz (380 g) (w/FNB-83, Belt Clip & Antenna)	12.3 oz (350 g) (w/FNB-115LI, Belt Clip & Antenna)	12.3 oz (350 g) (w/FNB-115LI, Belt Clip & Antenna)
TRANSMITTER				
RF Output	5 W / 1 W (at 7.4 V)	5 W / 2.5 W / 1 W (at 7.2 V)	5 W / 1 W (at 7.4 V)	5 W / 1 W (at 7.4 V)
Conducted Spurious Emissions	-75 dBc Typical	At least -73 dBc Typical	-75 dBc Typical	-75 dBc Typical
Frequency Stability	±5 ppm (-4° F to +140° F)	±2.5 ppm (-22° F to +140° F)	±2.5 ppm (-22° F to +140° F)	±2.5 ppm (-22° F to +140° F)
FM Hum and Noise	40 dB	40 dB	40 dB	40 dB
RECEIVER				
Sensitivity (12 dB SINAD)	0.25 µV	0.25 µV	0.25 µV	0.25 µV
Selectivity	70 dB	70 dB	70 dB (25 kHz) / 60 dB(12.5 kHz)	70 dB(25 kHz) / 60 dB(12.5 kHz)
Audio Output	700 mW	600 mW	700 mW	700 mW
NMEA In/Out	-	-	-	-

	HX290	HX300	HX751	HX851
FLOATING				 
GENERAL				
Battery type / Capacity	Li-Ion 1170 mAh	Li-Ion 1560 mAh	Li-Ion 1150 mAh	Li-Ion 1150 mAh
Input Voltage	7.4 VDC	3.7 VDC	7.4 VDC	7.4 VDC
Current Drain	Standby: 50 mA	Standby: 20 mA	Standby: 50 mA	Standby, GPS On: 100 mA
			Standby, Saver On: 10 mA	Standby, GPS Off: 60 mA
	Receive: 320 mA (Max AF Output)	Receive: 330 mA (Typical at Max AF Output)	Receive: 280 mA (Max AF Output)	Receive: 330 mA (Max AF Output)
Transmit: 1.6 A / 0.7 A (5 W / 1 W)	Transmit: 2.3 A / 0.9 A (5 W / 1 W)	Transmit: 2.3 A / 0.9 A (5 W / 1 W)	Transmit: 1.6 A / 1.5 A / 1.0 A / 0.7 A (6 W / 5 W / 2.5 W / 1 W)	Transmit: 1.6 A / 1.5 A / 1.0 A / 0.7 A (6 W / 5 W / 2.5 W / 1 W)
Overall Dimensions	2.2"W x 5.2"H x 1.7"D (57W x 133H x 44D mm)	2.32"W x 5.04"H x 1.3"D (59W x 128H x 33D mm)	2.4"W x 5.6"H x 1.6"D (62W x 141.5H x 41D mm)	2.5"W X 5.6"H x 1.8"D (62.5W x 141.5H x 45D mm)
Weight	10.9 oz (310 g) (w/FNB-110LI, Belt Clip & Antenna)	8.4 oz (240 g) (w/FNB-122LI, Belt Clip & Antenna)	10.8 oz (305 g) (w/FNB-V99LI, Belt Clip & Antenna)	11.8 oz (335 g) (w/FNB-V99LI, Belt Clip & Antenna)
TRANSMITTER				
RF Output	5 W / 1 W (at 7.4 V)	5 W / 1 W (at 3.7 V)	6 W / 5 W / 2.5 W / 1 W (at 7.4 V)	6 W / 5 W / 2.5 W / 1 W (at 7.4 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)	±10 ppm (-4° F to +140° F)
FM Hum and Noise	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
Selectivity	70 dB Typical	70 dB Typical	70 dB Typical	70 dB Typical
Audio Output	700 mW	600 mW	700 mW	700 mW
DSC Format	-	-	-	ITU-R M.493-11
NMEA In/Out	-	-	-	Output: GLL, GGA and RMC Input: GLL, GGA, GSA, GSV, DSC, DSE and RMC
HX851 GPS Specifications				
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			

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

7 FIXED MOUNT VHF RADIOS

POWER, PERFORMANCE, RELIABILITY



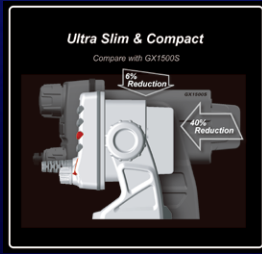
Also available in black



GX1700 NEW FOR 2012

EXPLORER GPS ITU CLASS D

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)
 - DSC test 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 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
 - Supplied with HC1600 Dust Cover



Also available in black

GX1600

EXPLORER ITU CLASS D

ULTRA COMPACT FIXED MOUNT DSC
VHF-RAM3 COMPATIBLE



GX2000

MATRIX ITU CLASS D

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



- Features :
- Ultra thin and compact rear case design (3.5" depth)
 - DSC test call
 - Auto DSC channel change selection
 - 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 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
- * when connected to optional GPS

- 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
 - CPA (Closest Point of Approach) Alarm*1,2
 - 80dB Commercial grade receiver
 - 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 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
 - User programmable soft keys
 - Navigation (LAT/LON, SOG and COG) information shown on display*2
 - E2O (Easy To Operate) menu system
 - Supplied with HC2000 Dust Cover
- *1 when connected to an optional AIS receiver or transponder
*2 when connected to an optional GPS



Also available in black

GX1150

ECLIPSE DSC+ ITU CLASS D

AFFORDABLE FIXED MOUNT DSC VHF

- Features :
- Replaces older Eclipse+ and Eclipse DSC Models
 - 16/9, H/L and channel keys on the mic
 - DSC test call
 - Full dot matrix display
 - Submersible IPX7 - 3.3 Ft for 30 minutes
 - NMEA 0183 Input and Output
 - Programmable Scan, Priority Scan, and Dual Watch
 - NOAA Weather Channels with Alert





GX2150 MATRIX AIS+ **ITU CLASS D**

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



Also available in white



Features :

- Integrated dual channel AIS (Automatic Identification System) receiver
- 4800 or 38400 NMEA baud rate selection, for plotters with 1 NMEA port
- AIS target display: MMSI, Call Sign, Ship Name, BRG, DST, SOG and COG
- Call an AIS Class A or B AIS Ship with DSC*
- Programmable CPA or TCPA collision avoidance alarms*
- Submersible IPX7 (1 m/3.3 Ft for 30 minutes)
- 80dB Commercial grade receiver
- DSC position request and report functions when connected to a compatible GPS chart plotter
- 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 programmable soft keys
- 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
- E20 (Easy-To-Operate) menu system
- Supplied with HC2000 Dust Cover

*when connected to a GPS

COMMERCIAL GRADE MARINE VHF'S AND LOUD HAILER

BUILT BY PROFESSIONALS FOR PROFESSIONALS



GX5000S QUANTUM **ITU CLASS D**

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



Features :

- ITU Class D DSC VHF 80 dB Commercial grade receiver
- 25 Watt transmit power
- 30 Watt PA, FOG, Bells and Whistles with listen back
- Audio tone control
- Dot matrix LCD display
- Submersible construction
- Noise canceling speaker microphone
- Large rotary knobs, and oversized display
- Second station capable with RAM3 or VH-310
- Bluetooth® capable headset (Optional BTK-2 Kit)
- Front Panel microphone can be remoted to rear panel and extended to 20 feet using MEK-4



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GX5500S QUANTUM **ITU CLASS D**

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



Features :

- ITU Class D DSC VHF 80 dB Commercial grade receiver
- 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 remoted to rear panel and extended to 20 feet using MEK-4
- Features a large alpha numeric keypad



VLH-3000

30 W DUAL ZONE LOUD HAILER

Features :

- 30 Watt PA output
- Forward and aft PA horns 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

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FIXED MOUNT VHF 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 PA/Hailing horn
- Compatible with GX2000 / GX2150 / GX5000S, GX5500S and VLH-3000

220SW



- 4.5" Round 4 Ohm PA/Hailing horn
- Compatible with GX2000 / GX2150 / GX5000S, GX5500S and VLH-3000

MEK-4



- Microphone extension kit
- Remote mic up to 20 Ft
- Compatible with GX5000S / 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
- 4 Ohms
- ON/OFF Volume control

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 GX5000S and GX5500S
- PTT or VOX operation
- Volume and power buttons



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FIXED MOUNT VHF ACCESSORIES

MODEL	Description	ECLIPSE DSC + GX1150	EXPLORER GX1600	EXPLORER GPS GX1700	MATRIX GX2000 & GX2150	QUANTUM GX5000S	QUANTUM GX5500S	VLH-3000
BTK-2	Bluetooth® wireless headset kit					0	0	
CMP30B	Remote station microphone (Black)		0	0	0	0	0	
CMP30W	Remote station microphone (White)		0	0	0	0	0	
CT-100	23-foot extension cable for CMP30/VH-310		0	0	0	0	0	
Q7000619A	External GPS antenna with 30Ft of cable	0	0	0	0	0	0	
CVS2500A	Voice scrambler				0	0	0	
HC1100	Dust Cover	0						
HC1600	Dust Cover		0	0				
HC2000	Dust Cover				0			
MEK-4	Microphone Extension Kit (20')					0	0	
MLS-300	External speaker	0	0	0	0	0	0	0
MLS-300i	Intercom speaker with push-to-alert							0
MLS-310	External speaker with amplifier	0	0	0	0	0	0	0
MMB-84	Flush mount bracket	0			0	0	0	0
MMB-97	Flush mount bracket		0	0				
VH-310	Remote telephone style handset					0	0	
220SW	4.5" Round PA/hailing horn				0	0	0	0
240SW	5 x 8" Rectangular PA/hailing horn				0	0	0	0



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FIXED MOUNT SPECIFICATIONS

UNPARALLELED PERFORMANCE AT EVERY LEVEL

	GX1150 	GX1600 	GX1700 
GENERAL			
Input Voltage	13.8 VDC ±20 %	13.8 VDC ±20 %	13.8 VDC ±20 %
Current Drain	Standby: 0.3 A	Standby: 0.45 A	Standby: 0.45 A
	Receive: 1.0 A	Receive: 0.8 A	Receive: 0.8 A
	Transmit: 5.5 A (Hi), 1.5 A (Lo)	Transmit: 5.0 A (Hi), 1.0 A (Lo)	Transmit: 5.0 A (Hi), 1.0 A (Lo)
Overall Dimensions	2.4"H x 6.1"W x 6.7"D (60H x 155W x 170D mm)	3.4"H x 5.9"W x 3.5"D (85H x 150W x 90D mm)	3.4"H x 5.9"W x 3.5"D (85H x 150W x 90D mm)
Flush-Mount Dimensions	2.0"H x 5.2"W x 5.5"D (51H x 131W x 140D mm)	2.8"H x 5.4"W x 2.6"D (72H x 137W x 66D mm)	2.8"H x 5.4"W x 2.6"D (72H x 137W x 65D mm)
Weight	2.0 lbs (0.9 kg)	2.0 lbs (0.9 kg)	2.0 lbs (0.9 kg)
PA/FOG Power Output	-	-	-
TRANSMITTER			
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)	Less than -80 dBc (Hi), -66 dBc (Lo)
Frequency Stability	±5 ppm (-4° F to +122° F)	±3 ppm (-4° F to +140° F)	±3 ppm (-4° F to +140° F)
FM Hum and Noise	50 dB	50 dB	50 dB
RECEIVER (for Voice and DSC)			
Sensitivity (12 dB 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)	80 dB for Voice (75 dB for DSC)
Intermodulation and Rejection	70 dB for Voice (70 dB for DSC)	70 dB for Voice (70 dB for DSC)	70 dB for Voice (70 dB for DSC)
Audio Output (4 Ohm load)	4.5 W	4.5 W	4.5 W
DSC Format	Class D ITU-R M.493-12	Class D ITU-R M.493-12	Class D ITU-R M.493-13
NMEA Input/Output			
NMEA-0183 (4800bps for Position Data and DSC output)	Input: GLL, GGA, RMC and GNS Output: DSC and DSE	Input: GLL, GGA, RMC and GNS Output: DSC and DSE	Input: GSA, GSV, GGA, GLL, GNS and RMC Output: DSC and DSE
NMEA-0183 HS (38400bps for AIS Data input)	-	-	-

GX1700 GPS Specifications	
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

	GX2000/GX2150 	GX5000S/GX5500S 
GENERAL		
Input Voltage	13.8 VDC ±20 %	13.8 VDC ±20 %
Current Drain	Standby: 0.55 A	Standby: 0.5 A
	Receive: 0.8 / 0.9 A	Receive: 1.5 A
	Transmit: 5.0 A (Hi), 1.0 A (Lo)	Transmit: 5.0 A (Hi), 1.5 A (Lo)
Overall Dimensions	3.1"H x 7.1"W x 6.3"D (80H x 180W x 160D mm)	3.5"H x 9.1"W x 5.9"D (90H x 230W x 150D mm)
Flush-Mount Dimensions	2.6"H x 6.3"W x 5.9"D (65H x 161W x 150D mm)	2.8"H x 8.1"W x 5.1"D (72H x 205W x 130D mm)
Weight	3.1 lbs (1.4 kg) / 3.2 lbs (1.5 kg)	3.1 lbs (1.4 kg) / 3.2 lbs (1.5 kg)
PA/FOG Power Output	30 W no Listen back / 30 W with Listen back	30 W with Listen back
TRANSMITTER		
RF Output	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)
Frequency Stability	±3 ppm (-4° F to +140° F)	±5 ppm (-4° F to +140° F)
FM Hum and Noise	50 dB	50 dB
RECEIVER (for Voice and DSC)		
Sensitivity (12 dB SINAD)	0.30 µV	0.30 µV
Spurious and Image Rejection	80 dB for Voice (75 dB for DSC)	80 dB
Intermodulation and Rejection	80 dB for Voice (75 dB for DSC)	80 dB
Audio Output (4 Ohm load)	4.5 W	4.5 W
DSC Format	Class D ITU-R M.493-13	Class D ITU-R M.493-12
RECEIVER (for AIS)		
Sensitivity (12 dB SINAD)	0.5 µV *	
Selectivity	Spurious and Image Rejection 70 dB *	
	Intermodulation and Rejection 70 dB *	
NMEA Input/Output		
NMEA-0183	Input: GLL, GGA, GNS, RMC, GSA * and GSV * (4800 or 38400 * bps) Output: DSC, DSE and VDM * (4800 or 38400 * bps)	Input: GLL, GGA, RMC and GNS (4800 bps) Output: DSC and DSE (4800 bps)
NMEA-0183-HS	Output: VDM	

	VLH-3000 
GENERAL	
Input Voltage	13.8 VDC ± 20 %
PA Output	Two 30W outputs (at 4 Ohms 10% distortion)
IC Output	Two 4W outputs (at 4 Ohms 10% distortion)
Listen-Back Input Level	2 mV
AF Output	
External Speaker Output	More than 4 W (at 4 ohm 10 % distortion)
Internal Speaker Output	More than 2 W (at 8 ohm 10 % distortion)
Mic sensitivity	10 mV
PA/Fog Current Draw	8 A (Max) when Forward and Aft Horns are used.
Idle current	300mA
Operating temperature	-4° F to +131° F
Storage temperature	-22° F to +158° F
Water integrity performance	IPX7 (3 Feet for 30 minutes) for the front panel
Overall Dimensions	4.3"H x 7.1"W x 5.5"D (110H x 180W x 140D mm)
Flush mount dimensions	3.6"H x 6.5"W x 4.5"D (92H x 165W x 115D mm)
Weight	3 lbs (1.4 kg)

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

*GX2150 only

11 GPS CHARTPLOTTERS



CP190i



CP390i



CP590



Features:

- CP190i: 5 inch 320x240 resolution display
- CP390i: 7 inch 800x480 high resolution wide screen display
- CP590: 12 inch 800x600 high resolution display
- Internal 50 channel GPS receiver with external GPS connection
- Supplied with external 50 channel WAAS GPS antenna (CP590)
- Video input with Picture In Picture display (CP390i 1 input, CP590 2 inputs)
- VGA video output connects to an external monitor or compatible TV (CP590)
- C-MAP NT+ and C-MAP MAX cartography options
- AIS, Fish Finder and Radar 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

BUILT-IN CHARTS



GPS CHARTPLOTTER / FISH FINDER COMBOS



CPF190i



CPF390i



Features:

- CPF190i: 5 inch 320x240 resolution display
- CPF390i: 7 inch 800x480 high resolution wide screen display
- Internal 50 channel WAAS GPS receiver and antenna
- External 50 Channel WAAS GPS Smart antenna option
- Video input with Picture In Picture display (CPF390i 1 input)
- C-MAP NT+ and C-MAP MAX cartography options
- AIS, Fish Finder and Radar capable
- Dual chart window with independent zoom levels
- Route Checking and Guardian Alarm
- Supplied with a swivel bracket and flush mounting hardware



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



BUILT-IN CHARTS

Built-in detailed maps for coastal navigation of USA including Alaska, Hawaii and Great Lakes, Canada, Bahamas, Caribbean, Cuba, Mexico, Puerto Rico, and Central America



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.



CPN700i



CPN1010i



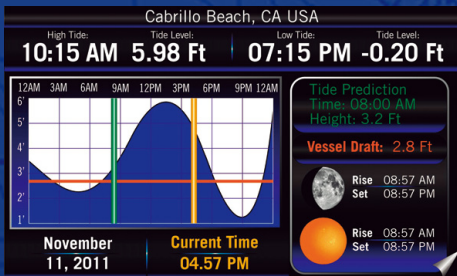
Features:

- 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 Explorer and Windows 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
- Dual chart window with independent zoom levels
- AIS, Fish Finder and Radar capable
- CPN700i (1) CPN1010i (2) Video inputs with Picture in Picture display
- CPN1010i (1) VGA Video output
- Dual chart window with independent zoom levels
- Easy Routing and Guardian Alarm
- Supplied with swivel mounting bracket and flush mounting hardware

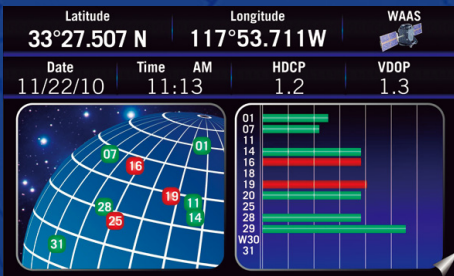


Internet & Multimedia at your finger tips

Built-in Wi-Fi® allows internet access from any hotspot. Check your email and reply with the touch screen keyboard or connect a Bluetooth® mouse and keyboard. Stream music or video and listen effortlessly from built-in speakers, or connect to an optional amp with the dedicated low level audio outputs. Connect a memory stick in the rear panel USB connector and watch movies, view pictures, or listen to music from a USB memory stick.



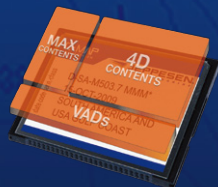
Tide page



GPS Status page



Highway page



C-Map 4D

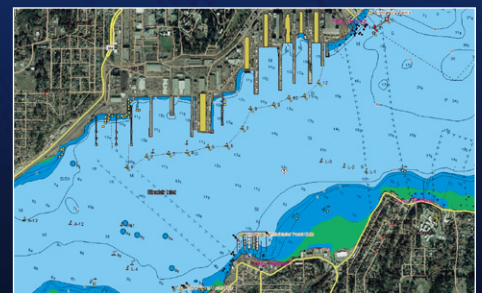
The only navigation solution that is actually two chart products on one cartridge. Choose the Max or Full 4D content, and then you can unlock data or add new chart data as it becomes available.



3D Views



2D/3D Raster Overlays



2D/3D Satellite Overlay



Industry 1st



CPV550

Chart Plotter Features:

- 12 inch 800x600 high resolution display
- Supplied with external 50 channel WAAS GPS antenna
- C-MAP NT+ and C-MAP MAX cartography options
- AIS, Fish Finder and Radar capable
- VGA video output connects to an external monitor or compatible TV
- Dual chart window with independent zoom levels
- Compass display around vessel icon and AIS target colors on chart page
- Route Checking and Guardian Alarm

VHF and PA features:

- Commercial Grade Class D DSC
- 80 dB commercial receiver
- Connection for two RAM3 or VH-310
- 25 Watt transmit power
- 30 Watt PA output with listen back
- Pre Programmed fog signals



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 CP390i, CP590, CPV550, CPN700i and CPN1010i
 : 200 pixels on CP190i
 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 DTSS21 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

GPS CHART PLOTTER ACCESSORIES

MODEL	Description	CP190i	CPF190i	CP390i	CPF390i	CP590	CPV550	CPN700i	CPN1010i
220SW	5" Round 4 Ohm 30 W PA/FOG horn						○		
240SW	5" x 7" Rectangular 4 Ohm 30 W PA/FOG horn						○		
ACVC10	Video Adapter Cable			○	○	○	○	○	○
ACAC10	Line out audio cable adapter							○	○
CMP30B	Black RAM3 Remote VHF Microphone						○		
CMP30W	White RAM3 Remote VHF Microphone						○		
VH-310	Telephone Style Remote VHF						○		
MLS-300	External VHF Speaker						○		
MLS-310	External VHF Speaker with 10 W amplifier						○		
MEK-4	Microphone Extension Kit (20')						○		
CT-100	23' RAM3 and VH-310 Extension Cable						○		
CVS2500A	4 Code Voice Scrambler						○		
DST520	600 W 2" Nylon Thru-Hull Depth/Temp	*	○	*	○	*	*	*	*
DST521	600 W Transom Mount Depth/Speed/Temp	*	○	*	○	*	*	*	*
DST523	600 W 2" Bronze Thru-Hull Depth/Temp	*	○	*	○	*	*	*	*
DST525	600 W In-Hull Depth Transducer	*	○	*	○	*	*	*	*
DST526	600 W Bronze Thru-Hull Depth/Speed/Temp with fairing block	*	○	*	○	*	*	*	*
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	○		○		○	○	○	○
MMB-84	Flush Mount Kit						○		
VGAC10	VGA Adapter Cable					○			
Q7000619A	50 Channel GPS NMEA Antenna with 30 Feet of routing cable	Option	Option	Option	Option	○	○	○	○

*Can be used when FF525 is connected

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GPS CHARTPLOTTERS SPECIFICATIONS


UNPARALLELED PERFORMANCE AT EVERY LEVEL

	CP190i	CP390i	CPF190i	CPF390i	CP590
GENERAL					
Input Voltage	10-35 VDC	10-35 VDC	10-35 VDC	10-35 VDC	10-35 VDC
Current Drain	CP190i: 520 mA max	CP390i: 750 mA max	2.2 A max	2.3 A max	1.5 A max
Display	TFT Color LCD (active area 5") Sunlight viewable 256-color	TFT Color LCD (active area 7") Sunlight viewable 256-color	TFT Color LCD (Active area 5") Sun viewable 256-Color	TFT Color LCD (Active area 7") Sun viewable 256-Color	TFT Color LCD (active area 12") Sunlight viewable 256-color
Display Resolution	320 x 240 pixels	800 x 480 pixels	320 x 240 pixels	800 x 480 pixels	800 x 600 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	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)	32° F to +131° F (0° C to +55° C)
Overall Dimensions	4.4"H x 7.1"W x 1.7"D	5.7"H x 9.9"W x 1.5"D	4.3"H x 7.1"W x 2.3"D	5.7"H x 9.9"W x 2.5"D	10.2"H x 15.4"W x 6.3"D
Flush Mount Dimensions	3.4"H x 6.5"W	4.3"H x 8.9"W	3.75"H x 6.5"W	4.3"H x 8.9"W	8" x 10.8"
Weight (without bracket)	1.3 lbs (600 g)	2 lbs (920 g)	1.7 lbs (780 g)	2.5 lbs (1120 g)	6.6 lbs (3 kg)
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)	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)	10,000 (recordable in 20 tracks)
NMEA 0183	3 Outputs and 2 inputs	5 Outputs and 4 inputs	2 Outputs and 1 input	3 Outputs and 3 inputs	5 Outputs and 4 inputs
Receiver Type	WAAS, 50 Channel	WAAS, 50 Channel	WAAS, 50 Channel	WAAS, 50 Channel	WAAS, 50 Channel
Fish Finder Power Out			600 W	600 W	
Dual Frequency			50 and 200 kHz	50 and 200 kHz	
Depth Capability			5 feet to 700 feet at 200 kHz	5 feet to 700 feet at 200 kHz	
			5 feet to 1500 feet at 50 kHz	5 feet to 1500 feet at 50 kHz	

Touch screen and Multimedia ChartPlotters

	CPN700i	CPN1010i
GENERAL		
Input Voltage	10-35 VDC	10-35 VDC
Current Drain	750 mA	1.5 A
Display	7" bonded touch screen Sunlight viewable technology	10.1" bonded touch screen Sunlight viewable technology
Display Resolution	WVGA 800 x 480	WSVGA 1024 x 600
Aspect Ratio	16 x 9	16 x 9
Brightness	1000 nits	1000 nits
Contrast	250:1 contrast	500:1 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	5.9"H x 9.3"W x 2.8"D	7.5"H x 12"W x 2.8"D
Flush Mount Dimensions	5.5"H x 8"W	7"H x 10.7"W
Weight (without bracket)	2.7 lbs	4.4 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
Multimedia	Internet Explorer / Windows Media Player	Internet Explorer / Windows Media Player
Low Level Audio Output	100 mV to 4 V	100 mV to 4 V
Video	1 Video input NTSC/PAL with Picture in Picture	2 Video input NTSC/PAL with Picture in Picture / 1 VGA output

VHF GPS ChartPlotter Combo Specifications.

	CPV550
GENERAL	
Input Voltage	13.8 VDC ±20 %
Current Drain	Standby 1.6 A max, Receive: 2.0 A
Display	TFT Color LCD (Active area 12") Sunlight viewable technology
Display Resolution	800 x 600 pixels
Built-in Cartography	C-MAP NT+ / Max C-Card
Operating Temperature Range	32° F to +131° F (0° C to +55° C)
Overall Dimensions	10.9"H x 15.3"W x 6.1"D
Flush Mount Dimensions	6.5"H x 9.9"W x 5.1"D
Weight (without bracket)	8.8 lbs (4.0 kg)
User Points	Marks/Waypoints 1000 Routes: 30 (max 50 Waypoints each)
Track Points	3000 (recordable in 5 Tracks)
NMEA 0183	4 Outputs and 3 inputs
VHF Transmitter	
RF Output	25 / 1 W
Conducted Spurious Emission	80 dB (Hi) / 60 dB (Lo)
Frequency Stability	±5 ppm (-4° F to +122° F)
FM Hum and Noise	50 dB
VHF Receiver	
Sensitivity (12 dB SINAD)	0.25 µV
Spurious and Image Rejection	80 dB
Intermodulation and Rejection	80 dB
Audio Output	4.5 W
Frequency Stability	±5 ppm (-4° F to +122° F)
DSC Format	Class D, ITU-R M.493-12
NMEA Input/Output	Output: DSC and DSE Input: GLL, GGA, RMC and GNS
PA/FOG Power Output	30 W with Listenback



Because Standard Horizon Chart Plotters are built better, they're backed better. If your Standard Horizon Chart Plotter 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 it for the life time of the product it is covered by Standard Horizon's Lifetime Flat Rate Service and Customer Loyalty Programs.

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

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