



STANDARD HORIZON

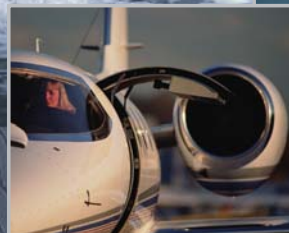
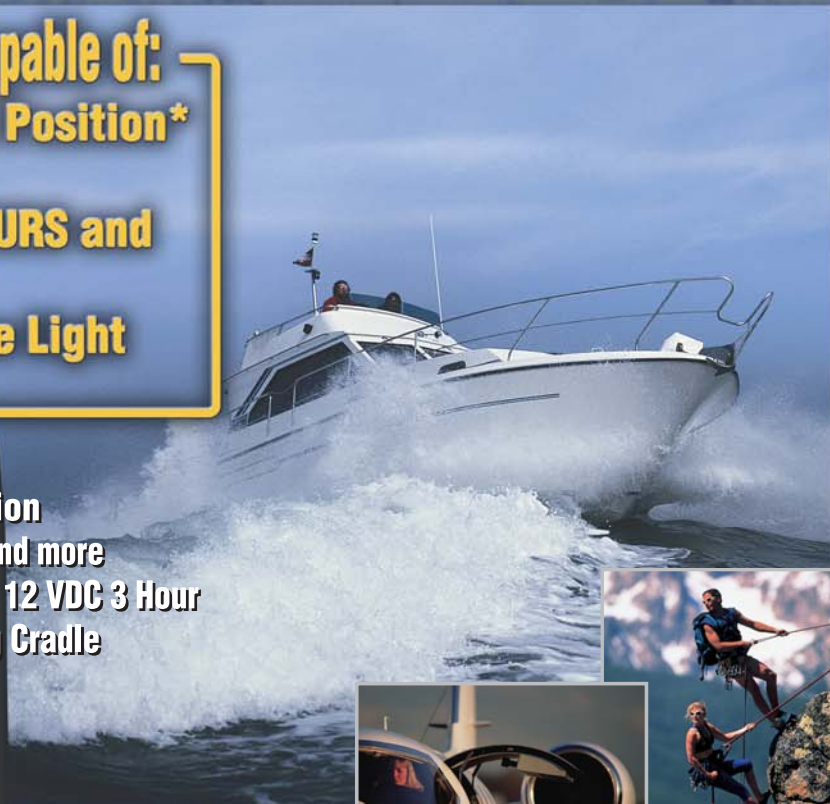
**Submersible
Multi-Band Marine Portable
HX471S**

Industry's 1st Marine Portable Capable of:

- **DSC Distress Calling with GPS Position***
- **VHF Marine & FRS Bands**
- **Receive AM/FM Broadcast, MURS and Aeronautical transmissions**
- **High Intensity Signaling Strobe Light**

*When GPS connected to NMEA/Charger cradle.

- **Submersible (3 feet for 30 minutes)**
- **Rugged Magnesium Die-Cast Construction**
- **NOAA Weather Alert, Scanning, Dual Watch and more**
- **Includes 1300 mAh Li-Ion Battery, 120 VAC, 12 VDC 3 Hour Quick Chargers, and drop in NMEA/Charging Cradle**



Actual Size
*Simulated LCD display

AVAILABLE IN BLACK

MULTI-BAND MARINE PORTABLE

TRANSMIT & RECEIVE

VHF Marine	+	FRS <small>Family Radio Service</small>
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RECEIVE ONLY

NOAA <small>Weather Band</small>	+	FM <small>Broadcast</small>	+	AM <small>Broadcast</small>
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+	Air Band	+	MURS <small>Multi-Use Radio Service</small>
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STANDARD HORIZON

Nothing takes to water like Horizon!

Digital Selective Calling (DSC) Distress call with GPS Position

The HX471S is supplied with a NMEA/Charging cradle that allows the radio to be connected to a GPS. Connecting the HX471S to a GPS allows the position of your vessel to be stored inside the HX471S. In the event of a distress, simply grab the HX471S, lift the DISTRESS cover and depress the DISTRESS key for 3 seconds. The HX471S will transmit a DSC Distress call containing your position, while automatically activating the High Intensity Signaling Strobe Light as well.

VHF Marine and FRS Bands

Having a portable radio able to communicate on VHF Marine and FRS bands the possibilities are endless. Want to communicate with another vessel? You can with the HX471S. Want to communicate from your vessel to a family member or friend on shore? You can with the FRS band. Want to have a submersible radio to take along hiking, skiing, hunting or caravanning? You can have it all with the HX471S!

Receiving AM / FM, MURS and Aeronautical Transmissions

Imagine being on a small vessel and wanting to listen to music and news broadcasts. With the HX471S, simply press the BAND key to select the FM band, and tune to your favorite channel. Want to listen to a ball game on the AM Broadcast band? You can with the HX471S. The HX471S even allows you to monitor MURS Band and the AM Aeronautical band. Simply put, the HX471S allows you to monitor a range of frequencies previously unavailable in any marine portable.

High Intensity Signaling Strobe Light

Since the HX471S can legally be used while on the water or land, STANDARD HORIZON has included an unique Distress Strobe Light. This strobe can also be used as a light source, continuous strobe or in time of distress, the strobe illuminates the International Morse Code characters "SOS".

Submersible (3 feet for 30 minutes)

Engineered for unparalleled reliability, the HX471S is designed to survive submersion in 3 Feet of water for 30 Minutes.

Rugged Magnesium Die-Cast Construction

The HX471S utilizes a high impact, non-corrosive die-cast chassis. This unique case insures the HX471S will withstand the physical abuse a Portable receives from being dropped or banged on the deck of your boat.

NOAA Weather Alert, Scanning, Dual Watch and more . . .

The HX471S has the capability to warn you of impending severe weather by audibly alerting you to switch to the active weather channel. Want to monitor more than one channel The HX471S can be programmed to Scan any number or combination of channels with or without priority channel. Want to scan between a VHF Marine channel and a FRS channel You can, using the Dual Watch function. The HX471S also has a Preset key that allows you to store up to 10 channels for each band (Marine VHF, FRS, MURS AM/FM and Aeronautical bands), handy for quick recall of your favorite channels.

Value Packaging

Packaged with a 1300 mAh Lithium-Ion battery, the HX471S will deliver 10-12 hours of continuous operation off a single charge. In addition, the Lithium-Ion battery never will develop a "memory" inhibiting its ability to deliver a complete day of service. Attaching either the 120 VAC or 12 VDC cable to the NMEA Charging cradle allows the battery to be charged within 3 hours, after which time the radio is trickle charged to keep the battery topped off.

Built Better, Backed Better

Because the HX471S is built better, it's backed better. If the STANDARD HORIZON HX471S Portable radio fails for any reason (including water damage) during normal use in the first 3 years of ownership, STANDARD HORIZON will repair or replace it free, without hassle or charges. If it fails anytime thereafter in normal use, for as long as the original purchaser owns the radio, Standard Horizon's Lifetime Flat Rate Service or Customer Loyalty Programs will cover it. The rates for the Flat Rate and Customer Loyalty Program's are determined at the time of the original purchase.



OPTIONAL ACCESSORIES



FBA-23
Alkaline Battery Case



SU-1
Barometric Pressure
Sensor Unit



FVP-31
Encryption Unit



CMP460
Waterproof
Speaker/Microphone



MH-57A48
Speaker/Microphone



VC-24
VOX Headset

INCLUDED ACCESSORIES

FNB-80LI Rechargeable Battery Pack **NC-72B** 120 VAC Charger **CD-25** Charger Cradle **E-DC-19** Cable With Cigar Lighter Plug
CLIP-14 Quick Draw Belt Clip

SPECIFICATIONS

General	
Frequency Ranges (MHz)	156 MHz - 163.275 MHz (Marine Band + WX Band) Channel Steps: 25 kHz MURS Band (Receive only) FRS Band 88 MHz - 108 MHz (FM Broadcast) Channel Steps: 100 kHz 500 kHz - 1800 kHz (AM Broadcast) Channel Steps: 10 / 9 kHz 108 MHz - 137 MHz (AIR Band) Channel Steps: 25 kHz
Frequency Stability	±2.5 ppm (-22° F to +140° F [-30° C to +60° C])
Emission Type	16K0F3E, 11K0F3E(FRS), 16K0G2B(DSC)
Antenna Impedance	50 Ohms
Supply Voltage	Nominal: 7.4V DC, Negative Ground
Current Consumption	195 mA (Receive) 68 mA (Standby, Saver Off) 45 mA (Standby, Saver On) 1.7 A (Marine High Power) 1.2 A (Marine Mid Power) 0.8 A (Marine Low Power & FRS)
Operating Temperature	-22° F to +140° F (-30° C to +60° C)
Case Size (W x H x D)	2.36" x 3.78" x 1.12" (60 x 96 x 29 mm) w/o knob & antenna
Weight (Approx.)	9.3 oz. (265 g) with FNB-80LI
Transmitter	
RF Power Output (@ 7.4 V)	5, 2.5 or 1 W (Marine Band) 0.5W (FRS Band)
Modulation Type	Variable Reactance
Maximum Deviation	±5 kHz (Marine Band) ±2.5 kHz (FRS Band)
Spurious Emission	At least 65 dB below
Microphone Impedance	2 k-Ohm
Receiver	
Circuit Type	Double-Conversion Superheterodyne (NFM, AM) Triple-Conversion Superheterodyne (WFM)
Intermediate Frequencies	NFM, AM WFM 1st: 47.25 MHz 45.8 MHz 2nd: 450 kHz 10.7 MHz 3rd: - 1 MHz
Sensitivity	0.2 µV for 12 dB SINAD (Marine & MURS Band) 0.2 µV for 12 dB SINAD (FRS Band) 1 µV for 12 dB SINAD (FM Broadcast) 0.5 µV for 10 dB SN (AM Broadcast) 0.5 µV for 10 dB SN (AIR Band)
Adjacent Channel Selectivity	65 dB Typical
Intermodulation	65 dB Typical
Selectivity	12 kHz / 25 kHz (-6 dB / -60 dB) NFM / AM 200 kHz / 300 kHz (-6 dB / -20 dB) WFM 6 kHz / 18 kHz (-6 dB / -60 dB) FRS Band
AF Output	400 mW @ 8 Ohm for 10 % THD (@ 7.4 V)

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