

## HX470S



•Industries first Portable Tri-band, including VHF Marine, FRS\* and MURS\* bands.

Additional receive capabilities include AM,

when connected to GPS

FM broadcast and Aeronautical bands. •DSC Distress with GPS position

Unique Distress Beacon

•Selectable 1, 2.5 or 5 Watts of transmit power on marine band.

•Rugged Magnesium Die-cast case construction

•Includes 1300 mAh Lithium-ion battery, 120 / 220 VAC and 12 VDC 3 hour chargers, Drop in charger NMEA cradle.



















#### **Submersible Tri-Band Marine Portable**

### TRI-BAND

First Portable Marine transceiver capable of transmitting and receiving on Marine VHF, Family Radio Service, and the high powered Multi-Use Radio Service!

Having a portable radio able to communicate on three bands, the possibilities are endless. Want to communicate with another vessel? You can with the HX470S. Want to communicate from your vessel to family or friends on shore? You can using the FRS or high power MURS bands. Want a submersible radio to take along hiking; skiing, hunting or caravanning? You can have it all with the HX470S.

### **MULTI-BAND Receive**

First Portable Marine transceiver capable of receiving AM, FM, and Aeronautical bands! Imagine being in a small vessel and wanting to listen to music and news broadcasts. With the HX470S, 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 HX470S. The HX470S even allows you to monitor the AM Aeronautical band. Simply put the HX470S allows you to monitor a range of frequencies previously unavailable in any Portable Marine VHF

**Distress Beacon** Since the HX470S can be legally used while on the water or land STANDARD HORIZON has included a unique Distress Beacon. The HX470S features a strobe capable of being used as a light source, continuous beacon or in time of distress a beacon broadcasting the

### international Morse code for "S.O.S."

**Rugged Magnesium Die-Cast Construction** 

The HX470S utilizes a high impact, non-corresive die-fast case and chassis. This unique case insures the HX470S will with tank the physical course a Fortable versures from being dropped or banged on the deck of a Boat. All you expect in Portable Marine VHF and more. . .

### Digital Selective Calling (DSC) Distress Call

The HX470S is supplied with an NMEA charging cradle that allows the radio to be connected to a GPS. Connecting the HX470S to a GPS allows the position of your vessel to be stored inside the HX470S. In the event of an emergency, simply grab the HX470S lift the DISTRESS cover and depress the DISTRESS key. The HX470S will transmit a DSC distress call containing your position, while automatically activating the Distress beacon on the radio as well.

### Scanning, Dual Watch, Presets and more.

Want to monitor more than one channel the HX470S can be programmed to scan any number or combination of channels with or without a priority channel of choice. Want to monitor one marine channel and one FRS or MURS channel? You can with the HX470S. "Preset" key can be used to store up to 10 channels for each band (NOAA Weather Alert, FRS, MURS Band only for USA), handy for quick recall of your favorite channels.

### JIS7 Submersible

Engineered for unparalleled reliability, the HX470S is designed to exceed JIS 7 standards for submersibility to 3 feet for 30 minutes continuously.

Packaged with a 1300 mAh lithium-ion battery, the HX470S will deliver 10-12Hours 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 120/220 VAC or 12 VDC cable to the NMEA Charging Jack allows the Lithium-Ion battery to be charged within 3 hours, after which time the radio is trickle charged to keep the battery topped off. Additionally, both chargers act as a power cord allowing you to operate the radio directly off of 12 VDC or 120/220 VAC.

# HX470S

**SPECIFICATIONS** General Frequency Ranges (MHz) 156 MHz - 163.275 MHz (Marine Band + WX Band) Channel Steps: 25 kHz MURS Band (USA only) FRS Band (USA only) 88 MHz - 108 MHz (FM Broadcast) Channel Steps: 100 kHz 500 kHz - 1800 kHz (AM Broadca Channel Steps: 10 / 9 kHz 108 MHz - 137 MHz (AIR Band) ±2.5 ppm (-22° F to +140° F [-30° C to +60° C]) Frequency Stability Emission Type 16K0F3E, 11K0F3E(FRS), 16K0G2B(DSC) Antenna Impedance Supply Voltage Nominal: 7.4V DC, Negative Ground(Battery Terminal) 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 & MURS) 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 02. (265 g) with FNB-80LI Transmitter RF Power Output (@7.4 2 W (MURS Band) 0.5W (FRS Band) Modulation Type Variable Reactance Maximum Deviation ±5 kHz (Marine Band) ±5 kHz (MURS Band) ±2.5 kHz (FRS Band) Spurious Emission At least 65 dB below Microphone Impedance 2 k-Ohm

Double-Conversion Superheterodyne (NFM, AM) Circuit Type Triple-Conversion Superheterodyne (WFM) Intermediate Frequencies NFM, AM 47.25 MHz 450 kHz WFM 45.8 MHz 10.7 MHz 1 MHz 0.2 μV for 12 dB SINAD (Marine & MURS Band) Sensitivity  $0.2~\mu V$  for 12 dB SINAD (FRS Band)  $1~\mu V$  for 12 dB SINAD (FM Broadcast)  $0.5~\mu V$  for 10 dB SN (AM Broadcast) 0.5 µV for 10 dB SN (AIR Band) Adjacent Channel Selectivity 65 dB Typical 65 dB Typical Intermodulation 12 kHz / 25 kHz (-6 dB / -60 dB) NFM / AM 200 kHz / 300 kHz (-6 dB / -20 dB) WFM 6 kHz / 18 kHz (- 6dB / -60 dB) FRS Band

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

400 mW @ 8 Ohm for 10 % THD (@7.4 V)

Alkaline Battery Case

FBA-23





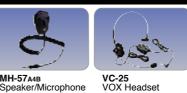
Barometric Pressure





Waterproof Speaker/Microphone





INCLUDED ACCESSORIES FNB-80LI Rechargeable Battery Pack NC-72B/C\* Charger Charger Cradle E-DC-19 Cable With Cigar Lighter Plug Quick Draw Belt Clip



**VERTEX STANDARD CO., LTD.** 4-8-8 Nakameguro, Meguro-ku, Tokyo 153-8644, Japan

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### **VERTEX STANDARD** -

Receiver

Selectivity

AF Output

US Headquarters

10900 Walker Street, Cypress, CA 90630, U.S.A. International Division 8350 N.W. 52nd Terrace, Suite 201, Miami, FL 33166, U.S.A.

YAESU EUROPE B.V.

P.O. Box 75525, 1118 ZN Schiphol, The Netherlands YAESU UK LTD. Email: sales@yaesu.co.uk

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

**VERTEX STANDARD HK LTD.** 

Unit 5, 20/F., Seaview Centre, 139-141 Hoi Bun Road, Kwun Tong, Kowloon, Hong Kong 2003.0210NA(EXP) B9200000 Printed in Japan