

# STANDARD HORIZON

Submersible  
VHF FM Marine Transceiver

# HX400IS



- Intrinsically Safe (ANSI/UL913 rated)
- Submersible IPX8 (1.5m for 30minutes)
- Selectable 5/1 W transmit power output
- Built-in Noise Cancelling Microphone and Voice Scrambler for clear and private communications
- 40 Programmable Land Mobile Channels 134MHz to 174MHz with CTCSS and DCS signaling
- Supplied with 2300mAh Li-Ion battery, AC and DC 3-hour quick charger
- Programmable channel names
- Low Battery indicator
- International, All USA and Canadian Marine Channels
- Optional speaker microphones available
- Preset key used to recall up to 10 favorite channels



\*Actual Size  
\*Simulated LCD display

Supplied  
with



FNB-115LIIS  
Li-Ion Battery Pack



PA-45  
Charger

CD-50  
Charger Cradle



CAT460  
Antenna

HAND STRAP

CLIP-22  
Belt Clip

## Lithium-ion battery and charger

The HX400IS is supplied with a whopping 2300mAh Lithium-Ion battery that will keep you talking for about 17 hours. There is no need to worry about the time it takes to fully charge the huge 2300mA battery as the HX400IS is supplied with a 3-hour rapid charger.

## Marine and Land Mobile Channels

The HX400IS is factory programmed with all International, USA, Canadian and NOAA Weather channels. It also has the capability to be programmed 40 Land Mobile Radio (134-174MHz) channels with CTCSS or DCS signaling by a Standard Horizon dealer.

## Built-in Noise Canceling Mic and Voice scrambler

The HX400IS will surpass your voice transmissions expectations in noisy and windy environments with the built-in noise canceling microphone. No need to purchase an optional voice scrambler for secure communications as the HX400IS has it built-in.

The internal scrambler is compatible with Standard Horizon VHF Fixed Mount and Handheld VHF 4-code scramblers.

## Loud speaker audio

The HX400IS is designed to be heard in even the noisiest environments with 700mW of power supplied to the internal speaker.

## Programmable Scan, Priority Scan and Dual Watch

Scanning is not an issue with the HX400IS. The radio can be setup to scan any number of channels with or without a priority channel or simply can be setup to scan between a priority channel and on other channel (dual watch).

### INTRINSIC SAFETY (IS) INFORMATION

The **HX400IS**, equipped with any of the following optional units, meets the requirement of ANSI/UL 913 5th Edition for Class I, II, III Division 1, Group C, D, E, F, G, T3 for hazardous locations.

Battery Pack: **FNB-115LIIS (Li-Ion battery pack)**

Speaker Microphones: **MH-66D4B and CMP460**

### SPECIFICATIONS

#### General

Frequency Range (MHz)	156MHz - 163.275MHz (Marine Band + WX Band) 134MHz - 174MHz (LMR Band)
Channel Steps	25 kHz (25.0/12.5 kHz LMR)
Frequency Stability	±2.5ppm (-30°C to 60°C)
Emission Type	16K0G3E, 16K0F3E, 11K0F3E
Antenna Impedance	50 Ohms
Supply Voltage	7.4 V DC
Current Consumption	320 mA (Receive), 50 mA (Standby) TX: 1.6 A (H)/0.8A (L)
Operating Temperature	-30° C to +60° C
Waterproof rating:	30 minutes @ 1.5 meter depth (IPX8)
Case Size (W x H x D)	57 x 133 x 40 mm w/o knob & Antenna
Weight (Approx.)	350 g with FNB-115LIIS

#### Transmitter

RF Output Power	5 W / 1 W @7.4V
Modulation Type	Variable Reactance
Maximum Deviation	±5 kHz (Wide)/±2.5 kHz (Narrow)
Spurious Emission	At least 36 dB below
Microphone Impedance	2 k-Ohm

#### Receiver

Circuit Type	Double-Conversion Superheterodyne
Intermediate Frequencies	1st: 67.65MHz 2nd: 450 kHz
Sensitivity	0.25 $\mu$ V 12 dB SINAD
Adjacent Channel Selectivity	70 dB (Wide) / 60 dB (Narrow)
Intermodulation response	68 dB (typical)
Selectivity	12 kHz / 25 kHz (-6 dB / -60dB) (Wide) 6 kHz / 18 kHz (-6 dB / -60dB) (Narrow)
AF Output (Internal SP)	700 mW @ 16 Ohm for 10 % THD (@7.4V)

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

#### OPTIONAL ACCESSORIES

<b>CMP460</b> Submersible speaker microphone	<b>E-DC-30</b> DC cable with Cigarette lighter plug with CD-50
<b>MH-66D4B</b> Submersible speaker microphone	<b>SAD-1460</b> 6 unit Multi Charger

#### INCLUDED ACCESSORIES

<b>FNB-115LIIS</b> Li-Ion Battery Pack	<b>CD-50</b> Charger Cradle	<b>CLIP-22</b> Belt Clip
<b>PA-45</b> Charger	<b>CAT460</b> VHF Marine Antenna	<b>Handstrap</b>