

# **STANDARD HORIZON**

*Nothing takes to water like Standard Horizon*

**Intrinsically Safe  
VHF FM Marine Transceiver**

# **HX400IS**

**COMMERCIAL VHF WITH LMR CHANNELS**



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



Actual Size



## 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 with 40 Land Mobile Radio (134-174MHz) channels with CTCSS or DCS signaling by a Standard Horizon dealer.

## Lithium-ion battery and rapid charger

The HX400IS is supplied with a large capacity 2300mAh Lithium-Ion battery, with an expected operating time of up to 17 hours. The radio is supplied with a 3 hour rapid charger for minimum down time.

## Built-in Noise Canceling Mic and Voice scrambler

Expect clear communications, the built-in Noise Canceling microphone is engineered to cancel out external noise when operating in a busy environment. Expect private communications, with an internal 4 code scrambler compatible with other Standard Horizon Hand held radios and Fixed mount radios with a 4 code scrambler installed.

## Loud 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 made simple 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 one or two other channels (Dual and TRI-Watch) channel (dual watch).

## INTRINSICALLY SAFE (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: **SSM-14A and CMP460**

## SPECIFICATIONS

### General

Frequency Range (MHz)	Marine Band / WX Band: 156.025 MHz - 163.275 MHz LMR Band: 134.000 MHz - 174.000 MHz
Number of LMR Channels	40
Channel Steps	25 kHz (25.0/12.5 kHz LMR)
Frequency Stability	±2.5 ppm (-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)/0.8 A (L)
Operating Temperature	-30° C to +60° C
Waterproof rating:	IPX8 (1.5 m for 30 minutes)
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 (@7.4 V)
Maximum Deviation	±5 kHz (Wide) / ±2.5 kHz (Narrow)
Spurious Emission	At least -36 dBm below
Microphone Impedance	2 k-Ohm

### Receiver

Circuit Type	Double-Conversion Superheterodyne
Sensitivity	0.25 µV12 dB SINAD
Adjacent Channel Selectivity	70 dB (Wide) / 60 dB (Narrow)
Intermodulation response	68 dB (typical)
Selectivity	12 kHz / 25 kHz (-6 dB / -60 dB) (Wide) 6 kHz / 18 kHz (-6 dB / -60 dB) (Narrow)
AF Output (Internal SP)	700 mW @16 Ohm for 10 % THD (@7.4 V)

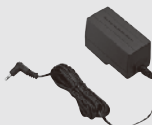
Standard Horizon reserves the right to make changes and enhancements to products at our discretion. Current specifications are therefore subject to change without notice.

## INCLUDED ACCESSORIES

**FNB-115LIIS**  
Li-Ion Battery Pack



**PA-45**  
Charger



**CD-50**  
Charger Cradle



**CAT460**  
Antenna



**CLIP-22**  
Belt Clip



HAND STRAP

## OPTIONAL ACCESSORIES

**SSM-14A\***  
Submersible  
speaker  
microphone



**CMP460\***  
Submersible  
speaker  
microphone



**E-DC-30**  
DC cable with  
Cigarette lighter  
plug used  
with CD-50



**SAD-1460**  
6 unit Multi Charger



\* Intrinsically Safe Version