Quick Reference Guide

This transceiver is equipped with the E2O (Easy-To-Operate) system. You can do the basic operation in numerical order of the illustration below.

1. [PWR/VOL] Knob
   Rotate this knob clockwise to turn on the radio, and adjust the audio level.

2. [▲]/[▼] Buttons
   Selects the operating channel.

3. [SQL] Button
   Press this key first, then press the [▲] key to squelch or press the [▼] key to un-squelch the radio.

4. [H/L(On)] Button
   Press to toggle the transmit power between High (5W) and Low (1W).

5. [PTT] Switch
   Speak into the microphone in a normal voice level while pressing this switch.

6. [16/9] Button
   • Press to recall channel 16.
   • Press and hold to recall channel 9.

MIC
When transmitting, position your mouth 1 inch (2.5 cm) away from the small mic hole. Speak slowly and clearly into the microphone.

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WARNING! FCC RF EXPOSURE REQUIREMENTS

This Radio has been tested and complies with the Federal Communications Commission (FCC) RF exposure limits for Occupational Use/Controlled exposure environment. In addition, it complies with the following Standards and Guidelines:


⚠️ WARNING:
This radio generates RF electromagnetic energy during transmit mode. This radio is designed for and classified as Occupational Use Only, meaning it must be used only during the course of employment by individuals aware of the hazards, and the ways to minimize such hazards. This radio is not intended for use by the General Population in an uncontrolled environment.

⚠️ CAUTION:
To ensure that your exposure to RF electromagnetic energy is within the FCC allowable limits for occupational use, always adhere to the following guidelines:

- This radio is NOT approved for use by the general population in an uncontrolled exposure environment. This radio is restricted to occupational use, work related operations only where the radio operator must have the knowledge to control his or her RF exposure conditions.
- When transmitting, hold the radio in a vertical position with its microphone 1 inch (2.5 cm) away from your mouth and keep the antenna at least 1 inch (2.5 cm) away from your head and body.
- The radio must be used with a maximum operating duty cycle not exceeding 50%, in typical Push-to-Talk configurations. DO NOT transmit for more than 50% of total radio use time (50% duty cycle). Transmitting more than 50% of the time can cause FCC RF exposure compliance requirements to be exceeded.
- SAR compliance for body-worn use was only demonstrated for the specific belt-clip (CLIP-920). Other body-worn accessories or configurations may NOT comply with the FCC RF exposure requirements and should be avoided.
The CLIP-920 belt-clip must be used in order to comply with the FCC/IC RF exposure requirements.

Always use Standard Horizon authorized accessories.

The information listed above provides the user with the information needed to make him or her aware of RF exposure, and what to do to assure that this radio operates with the FCC RF exposure limits of this radio.

Electromagnetic Interference/Compatibility

During transmissions, this radio generates RF energy that can possibly cause interference with other devices or systems. To avoid such interference, turn off the radio in areas where signs are posted to do so. Do not operate the transmitter in areas that are sensitive to electromagnetic radiation such as hospitals, health care facilities, aircraft, and blasting sites.
1. GENERAL INFORMATION

1.1 INTRODUCTION
Congratulations on your purchase of the HX380! Whether this is your first portable marine VHF transceiver, or if you have other STANDARD HORIZON equipment, the STANDARD HORIZON organization is committed to ensuring your enjoyment of this high performance transceiver, which should provide you with many years of satisfying communications even in the harshest of environments. STANDARD HORIZON technical support personnel stands behind every product sold, and we invite you to contact us should you require technical advice or assistance.

The HX380 is a Submersible 5-Watt portable two way marine transceiver with the capability to be programmed with 40 LMR (Land Mobile Radio) channels with CTCSS or DCS signaling by a dealer. The transceiver has all allocated International, Canadian, or USA channels. It has emergency channel 16 which can be immediately selected from any channel by pressing the key.

The HX380 includes the following features: 10 PRESET channels for enabling the instant access, Memory Scanning, Priority Scanning, Battery Saver, easy-to-read large LCD display, EEPROM memory back-up, Battery Life displayed on the LCD, and a transmit Time-Out Timer (TOT).

The HX380 transmitter provides a full 5 Watt of transmit power and also is selectable to 1 Watt to assist the user in ensuring maximum battery life.

We appreciate your purchase of the HX380, and encourage you to read this manual thoroughly, so as to learn and fully understand the capabilities of the HX380.

1.2 RF EXPOSURE SAFETY STATEMENT
Your wireless handheld portable transceiver contains a low power transmitter. When the Push-To-Talk (PTT: ) button is pushed, the transceiver sends out radio frequency (RF) signals.

This device is authorized to operate at a duty factor not to exceed 50% (this corresponds to 50% transmission time and 50% reception time).

This transmitter and its antenna must maintain a separation distance of at least 1 inch (2.5 cm) from your face. Speak in a normal voice, with the antenna pointed up and away from the face at the required separation distance.

Use only the supplied antenna. Unauthorized antennas, modifications, or attachments could damage the transmitter.
2. ACCESSORIES

2.1 PACKING LIST
When the package containing the transceiver is first opened, please check it for the following contents:

- HX380 Transceiver
- CAT460 Antenna (Antenna gain: -1.5 dBi, Impedance: 50 ohm)
- SBR-41LI 7.4 V Li-Ion Battery Pack
- CD-48 Charger Cradle for HX380
- SAD-25 Wall Charger for CD-48
- E-DC-19A DC Cable with 12 V Cigarette Lighter Plug
- Belt Clip
- Owner’s Manual

2.2 OPTIONS

1. MH-73A4B Speaker/Microphone
2. MH-57A4B Mini Speaker/Microphone
3. SSM-21A Submersible Speaker/Microphone
4. SSM-64A VOX Headset
5. SSM-55A Earpiece/Microphone
6. CN-3 Radio-to-Ship’s Antenna Adapter
7. CD-48 Charger Cradle
8. SBR-41LI 7.4 V Li-Ion Battery Pack
9. FBA-40 Alkaline Battery Case
10. SAD-25 AC Wall Charger for the CD-48
11. E-DC-19A DC Cable with 12 V Cigarette Lighter Plug
12. E-DC-6 DC Cable; plug and wire only

Note: Before operating the HX380 for the first time, it is recommended that the battery be charged. Please see section “4.3.3 BATTERY CHARGING” for details.
3. ABOUT THIS RADIO

3.1 ABOUT THE VHF MARINE BAND
The radio frequencies used in the VHF marine band lie between 156 and 162 MHz. The marine VHF band provides communications over distances that are essentially “Line of sight” Actual transmission range depends much more on antenna type, gain and height than on the power output of the transmitter. On a fixed mount 25 W radio transmission expected distances can be greater than 15 miles, for a portable 5 W radio transmission the expected distance can be greater than 5 miles in “Line of sight”.

The user of a Marine VHF radio is subject to severe fines if the radio is used on land. The reasoning for this is you may be near an inland waterway, or propagation anomalies may cause your transmission to be heard in a waterway. If this occurs, depending upon the marine VHF channel on which you are transmitting, you could interfere with a search and rescue case, or contribute to a collision between passing ships. For VHF Marine channel assignments refer to page 30 section 9.

3.2 ABOUT THE LMR CHANNELS
The HX380 is capable of being programmed with 40 LMR (Land Mobile Radio) channels by a dealer. The frequency range is 134 to 174MHz which may be setup for 25 kHz (wide) or 12.5 kHz (narrow) channel stepping with CTCSS and DCS signaling. Contact your dealer for further details.

3.3 ABOUT WATER RESISTANCE
Water resistance of the transceiver is ensured only when the battery pack is attached to the transceiver and MIC/SP cap is installed in the MIC/SP jack.

3.4 EMERGENCY (CHANNEL 16 USE)
Channel 16 is known as the Hail and Distress Channel. An emergency may be defined as a threat to life or property. In such instances, be sure the transceiver is on and set to “Channel 16”. Then use the following procedure:

1. Press the PTT (Push-To-Talk: 📞) switch and say “Mayday, Mayday, Mayday. This is _____, _____, _____” (your vessel’s name).
2. Then repeat once: “Mayday, _____” (your vessel’s name).
3. Now report your position in latitude/longitude, or by giving a true or magnetic bearing (state which) to a well-known landmark such as a navigation aid or geographic feature such as an island or harbor entry.
4. Explain the nature of your distress (sinking, collision, aground, fire, heart attack, life-threatening injury, etc.).
5. State the kind of assistance your desire (pumps, medical aid, etc.).
6. Report the number of persons aboard and condition of any injured.
7. Estimate the present seaworthiness and condition of your vessel.
8. Give your vessel's description: length, design (power or sail), color and other distinguishing marks. The total transmission should not exceed 1 minute.
10. If there is no answer, repeat the above procedure. If there is still no response, try another channel.

3.5 CALLING ANOTHER VESSEL (CHANNEL 16 OR 9)
Channel 16 may be used for initial contact (hailing) with another vessel. However, its most important use is for emergency messages. This channel must be monitored at all times except when actually using another channel.

It is monitored by the U.S. and Canadian Coast Guards and by other vessels. Use of channel 16 for hailing must be limited to initial contact only. Calling should not exceed 30 seconds, but may be repeated 3 times at 2-minute intervals. In areas of heavy radio traffic, congestion on channel 16 resulting from its use as a hailing channel can be reduced significantly in U.S. waters by using Channel 9 as the initial contact (hailing) channel for non-emergency communications. Also hailing on channel 9, the calling time should not exceed 30 seconds but may be repeated 3 times at 2-minute intervals.

Prior to making contact with another vessel, refer to the channel charts in this manual, and select an appropriate channel for communications after initial contact. For example, Channels 68 and 69 of the U.S. VHF Charts are some of the channels available to non-commercial (recreational) boaters. Monitor your desired channel in advance to make sure you will not be interrupting other traffic, and then go back to either channel 16 or 9 for your initial contact.

When the hailing channel (16 or 9) is clear, state the name of the other vessel you wish to call and then “this is” followed by the name of your vessel and your Station License (Call Sign). When the other vessel returns your call, immediately request another channel by saying “go to”, the number of the other channel, and “over”. Then switch to the new channel. When the new channel is not busy, call the other vessel.

After a transmission, say “over”, and release the PTT (Push-To-Talk: 📡) switch. When all communication with the other vessel is completed, end the last transmission by stating your Call Sign and the word “out”. Note that it is not necessary to state your Call Sign with each transmission, only at the beginning and end of the contact.

Remember to return to Channel 16 when not using another channel.
3.6 OPERATING ON CHANNEL 13
Channel 13 is used at docks, bridges and for maneuvering in port. Messages on this channel must concern navigation only, such as meeting and passing in restricted waters. In emergencies and when approaching blind river bends, High power is allowed. Pressing the key will change the power output from Low Power (1 Watt) to High (5 Watts). When you change from this channel then return to it, low power will be automatically selected.

3.7 OPERATING ON CHANNEL 67
When channel 67 is used for navigational bridge-to-bridge traffic between ships, High power may be used temporarily (in the USA band) by pressing the key. When release the PTT switch, the transceiver will revert to low power.

3.8 SIMPLEX/DUPLEX CHANNEL USE
Refer to the VHF MARINE CHANNEL CHART (page 30) for instructions on use of simplex and duplex channels.

NOTE
All channels are factory-programmed in accordance with FCC, Industry Canada, and International regulations. The mode of operation cannot be altered from simplex to duplex or vice-versa. Simplex (ship to ship) or duplex (marine operator) mode is automatically activated, depending on the channel and whether the USA, Canadian or International operating band is selected.
4. GETTING STARTED

4.1 RADIO CARE

CAUTION
Before following the instructions below, insure the battery pack is in place and firmly connected. Care must be taken if the radio was dropped and a close inspection may be needed to insure the radio case and gaskets are in adequate condition.

The design of the HX380 allows water to enter between the radio and the battery pack, however waterproof performance is not compromised.

After using the HX380 in salt water environment is recommended to clean the radio with fresh water by rinsing the battery and radio (separately) under a sink facet or by dunking in a fresh water. After washing, use a soft cloth to thoroughly dry all parts of the radio and battery.

This will keep the radio parts and the battery clean and in top operating condition.

4.2 BELT CLIP INSTALLATION
Insert the mounting screw through the belt clip, and affix it snugly to the mounting hole on the back of the transceiver.

CAUTION
Do not install the supplied Belt Clip Mounting Screws if you are not installing the Belt Clip! Also, do not use an improper screw for mounting the Belt Clip! An improper screw may cause a “short circuit” to the internal circuitry, causing serious damage!
4.3 BATTERIES AND CHARGERS

If the radio has never been used, or its charge is depleted, it may be charged by connecting the CD-48 Charger Cradle with the SAD-25 Battery Charger, as shown in the illustration. If 12V DC power is available, the supplied E-DC-19A DC Cable with 12 V Cigarette Lighter Plug may be used for charging the battery. The SAD-25 and E-DC-19A will charge a completely discharged SBR-41LI battery pack in approximately 3 hours.

The SBR-41LI is a high performance Li-Ion battery providing high capacity in a compact package.

CAUTION

To avoid risk of explosion and injury, SBR-41LI battery pack should only be removed, charged or recharged in non-hazardous environments.

4.3.1 BATTERY SAFETY

Battery packs for your transceiver contain Li-Ion batteries. This type of battery stores a charge powerful enough to be dangerous if misused or abused, especially when removed from the transceiver. Please observe the following precautions:

DO NOT SHORT BATTERY PACK TERMINALS: Shorting the terminals that power the transceiver can cause sparks, severe overheating, burns, and battery cell damage. If the short is of sufficient duration, it is possible to melt battery components. Do not place a loose battery pack on or near metal surfaces or objects such as paper clips, keys, tools, etc. When the battery pack is installed on the transceiver, the terminals that transfer current to the transceiver are not exposed. The terminals that are exposed on the battery pack when it is mounted on the transceiver are charging terminals only and do not constitute a hazard.

DO NOT INCINERATE: Do not dispose of any battery in a fire or incinerator. The heat of fire may cause battery cells to explode and/or release dangerous gases.

Battery Maintenance

For safe and proper battery use, please observe the following:

- Battery packs should be charged only in non-hazardous environments;
- Use only STANDARD HORIZON-approved batteries;
- Use only a STANDARD HORIZON approved charger. The use of any other charger may cause permanent damage to the battery.
- Follow charging instructions provided with the chargers.
- Keep the battery contacts clean and dry.
Battery Storage
Store the batteries in a cool place to maximize storage life. Since batteries are subject to self-discharge, avoid high storage temperatures that cause large self-discharge rates. After extended storage, a full recharge is recommended.

Battery Recycling
DO NOT PLACE USED BATTERIES IN YOUR REGULAR TRASH!
LI-ION BATTERIES MUST BE COLLECTED, RECYCLED OR DISPOSED OF IN AN ENVIRONMENTALLY SOUND MANNER.
The incineration, land filling or mixing of Li-Ion batteries with the municipal solid waste stream is PROHIBITED BY LAW in most areas.
Return batteries to an approved Li-Ion battery recycler. This may be where you purchased the battery.
Contact your local waste management officials for other information regarding the environmentally sound collection, recycling and disposal of Li-Ion batteries.

4.3.2 BATTERY INSTALLATION AND REMOVAL
☐ To install the battery pack, hold the transceiver with your left hand, so your palm is over the speaker. Insert the battery pack into the battery compartment on the back of the radio, then push the bottom side of the battery pack until the battery pack locks with the Battery Pack Latch.
☐ To remove the battery, turn the radio off. Slide the Battery Pack Latch on the bottom of the radio, then lift up on the bottom of the battery and remove it from the radio.
4.3.3 BATTERY CHARGING

1. Turn the transceiver off.
2. Insert the DC plug from the SAD-25 into the DC jack on the CD-48 side panel, then plug the SAD-25 into the AC line outlet.
3. Insert the HX380 (with the battery pack) into the CD-48; the antenna should be at the left side when viewing the charger from the front.
4. If the HX380 is inserted correctly, the Red “CHARGING” indicator will glow. A fully-discharged pack will be charged completely in approximately 7 hours.
5. When charging is completed, the red LED indicator will change to green. Remove the transceiver from the CD-48, and unplug the SAD-25 from the AC line outlet.

Note: The LED of the CD-48 may blink red and green before charging is complete, but this is not a malfunction.

⚠️ WARNING ⚠️
- Do not reverse-connect the battery terminals.
- Do not parallel-connect the battery terminals.
- Do not change batteries in hazardous locations.
- To reduce the risk of explosion, recharge the batteries outside of hazardous locations.

⚠️ CAUTION ⚠️
The CD-48 cradle is NOT designed to be waterproof. Do not attempt to charge in water hazardous locations.

⚠️ NOTE ⚠️
The CD-48 cradle is only designed for the charging of the HX380’s battery, and is not suitable for other purposes. The CD-48 may contribute noise to TV and radio reception in the immediate vicinity, so we do not recommend its use adjacent to such device.
5. CONTROLS AND INDICATORS

5.1 CONTROLS AND SWITCHES

NOTE

This section defines each control of the transceiver. For detailed operating instructions, refer to section “6. BASIC OPERATION”. Refer to illustrations for the location of the following controls, switches, and connections.

1) **ANT** Jack (Top Panel)
   The supplied **CAT460** flexible antenna is attached here.

2) **MIC/SP** Jack (Top Panel)
   The jack accepts the optional **SSM-21A** Submersible Speaker/Microphone, **MH-73A4B** Speaker/Microphone, **MH-57A4B** Mini Speaker/Microphone, **SSM-64A** VOX Headset, or **SSM-55A** Earpiece/Microphone. When this jack is used, the internal speaker and microphone are disabled.

   **1) Do not allow the HX380 to become submerged in water while the plastic cover over the MIC/SP jack is removed.**

   **2) Do not remove/install the optional Speaker Microphone in a hazardous location.**

3) **POWER** Switch / **VOLUME** Control (VOL)
   Turns the transceiver on and off as well as adjusts the audio volume level.
   Turn this knob clockwise to turn the radio on and increase the speakers audio volume.
   Turn fully counter-clockwise to turn the radio off.

4) **PTT** (PUSH-TO-TALK) Switch
   When pushed activates the transmitter.

5) **LCD Display**
   This display shows current operating conditions. Refer to page 17 for details.
Keypad

**Key**
Pressing this key immediately recalls channel 16 from any channel location. Holding down this key recalls channel 9. Pressing this key again reverts to the previous selected working channel.

**Secondary use:**
When the key is held and the key is pressed, the radio will change the marine band between the International, Canadian, and USA channels.

**Advanced use:**
When the key is held and the key is pressed, the radio will change the priority channel between the Channel 16, Channel 9, and the Preset Channel.

**Key**
Press this key to toggle the transmitter output power between “High” (5 Watts) and “Low” (1 Watt) power. When the “Low” power is selected, the “L” icon will appear to the right of the channel indication on the display. This key does not function on the “Transmission Inhibited” and “Low power only” channels.

**Secondary use:**
Hold down this key to lock the keypad (except the , and PTT keys) so that they are not accidentally changed. The “On” icon will appear at the right of the channel indication on the display, to indicate that the functions are locked. Hold down this key until the “On” icon disappears to unlock the radio.

**Advanced use:**
When the key is held and the key is pressed, the radio will change the priority channel between the Channel 16, Channel 9, and the Preset Channel.

**Key**
Press this key to recall the user preset memory channels (shown as memory channel number “0” - “9” on the display). Press the or key to select the desired preset channel. Press and hold this key for two seconds to memorize the selected channel into the preset memory.

**Key**
Press the key momentarily to increase the channel one step. Hold the key down to increase the channel continuously.

**Secondary use:**
Used to adjust the squelch threshold level up after the key is pressed.
Key
Press the key momentarily to decrease the channel one step. Hold the key down to decrease the channel continuously.

**Secondary use:**
Used to adjust the squelch threshold level down after the SQL key is pressed.

SQL Key
Press this key to activate the squelch adjusting mode. Press the A or D key to adjust the squelch threshold level.

**Secondary use:**
Press and hold this key for two seconds to open the squelch, allowing you to monitor the operating channel. Release the key to resume normal (quiet) monitoring.

Scan Key
Starts scanning and priority scanning of programmed channels.

**Secondary use:**
Press and hold the SCAN key for two seconds to activate the Dual Watch feature.

Key
Press to stop the Scan, Priority Scan, or Dual Watch feature.

**Secondary use:**
Press and hold this key to immediately recall the last-used NOAA Weather Channel from any channel location. Recalls the previously-selected working channel when the key is pressed again.

**Advanced use:**
When the key is held and the key is pressed, the radio will change the marine band between the USA, International, and Canadian channels.

Speaker
The internal speaker is located here.

Microphone
The internal microphone is located here.
When transmitting, position your mouth 1 inch (2.5 cm) away from the small mic hole. Speak slowly and clearly into the microphone.

Battery Pack Lock (Bottom side)
Slide the Battery Pack Lock to the “↓” position for battery removal.
5.2 LCD INDICATORS

1. **“BUSY”** Indicator
   This indicator appears when a signal is being received or when the radio is un-squelched.

2. **“L”** Indicators
   This indicator shows when the TX output power is selected to “Low” (1 Watt) power.

3. Alpha/numeric “Tag” display
   Indicates the current channel name or operating mode.

4. **“”** Battery Indicator
   “” Full battery
   “” Lower battery
   “” Battery is very low
   “ (Blinking)” Prepare to charge the battery

5. **“TX”** Indicator
   This indicator appears during transmission.

6. **“U/I/C”** Indicator
   These indicators show the “band” of operation for the particular channel. “U” indicates the USA band; “I” indicates the International band; and “C” indicates the Canadian band.

7. **“P”** Indicator
   This indicator shows the channel is in the “PRESET” channel memory.

8. Channel Display
   The operating channel is shown on the LCD in both the transmission and reception modes.

9. **“”** Indicator
   When the “” icon is shown on the LCD, all keys are disabled except for the PTT ( ), SQL, and keys.

10. **“PRI”** Indicator
    This indicator is shown when the Priority channel is selected.
6. BASIC OPERATION

6.1 INITIAL SETUP
1. Install the battery pack on the transceiver (see section “4.3.2 BATTERY INSTALLATION AND REMOVAL”).
2. Install the antenna onto the transceiver; hold the bottom end of the antenna, then screw it onto the mating connector on the transceiver until it is snug. Do not over-tighten.

6.2 RECEPTION
1. Turn the VOL knob clockwise to turn the transceiver on. The battery voltage will appear briefly at the upper left corner on the display, then the channel name will appear.
2. Press the SQL key to activate the squelch adjusting mode (The “SQL LVL” notation will appear). Press the VOL key until the “BUSY” indicator appears on the display, then press the VOL key again.
3. Turn the VOL knob clockwise until the noise or audio from the speaker is at a comfortable level.
4. Press the SQL key, then press the VOL key until the random noise disappears. This state is known as the “Squelch Threshold”.
5. Press the VOL or SQL key to select the desired channel. Refer to the channel chart on page 30 for available channels.
6. When a signal is received, adjust the VOL knob to the desired listening level. The “BUSY” indicator on the LCD is displayed indicating that the channel is being used.

6.3 TRANSMISSION
1. Perform “6.2 RECEPTION” discussion above.
2. Before transmitting, monitor the channel and make sure it is clear.
   **THIS IS AN FCC REQUIREMENT!**
3. For communications over short distances, press the VOL key to select Low power (1 watt: “L” icon appears). **Note:** Transmitting on Low power prolongs battery life. Low power should be selected whenever possible.
4. If using Low power is not effective, select High power (5 watts: “L” icon disappears) by pressing the key.

5. When receiving a signal, wait until the incoming signal stops before transmitting. The transceiver cannot transmit and receive simultaneously.

6. Press and hold the PTT (Push-To-Talk: ) switch to transmit. During transmission, the “TX” indicator will appear on the display.

7. Position your mouth 1 inch (2.5 cm) away from the microphone. Speak slowly and clearly into the microphone.

8. When the transmission is finished, release the PTT switch.

6.3.1 TRANSMIT TIME - OUT TIMER (TOT)

While the PTT switch is held down, transmission time is limited to 5 minutes. This prevents prolonged (unintentional) transmissions. About 10 seconds before automatic transmitter shutdown, a warning beep will sound from the speaker. The transceiver automatically switches to the receiving mode, even if the PTT switch is held down. Before transmitting again, the PTT switch must first be released. This Time-Out-Timer (TOT) prevents a continuous transmission that would result from an accidentally stuck PTT switch.

**NOTE**
The PTT switch is disabled for 10 seconds after the transceiver automatically switches to the receiving mode by the TOT feature.

6.4 USA, CANADIAN, AND INTERNATIONAL CHANNELS

1. To change from US to Canadian or International Marine Channels, hold down the key and press the key. The band will change from USA, to Canadian, and to International with each press.

2. “U” appears on the LCD for the USA band, “C” appears for the Canadian band, and “I” appears for the International band.

3. Refer to the marine channel charts in section “VHF MARINE CHANNEL ASSIGNMENTS” for allocated channels.
6.5 NOAA WEATHER CHANNELS

In the event of a major storm or other appreciable weather condition requiring vessels at sea (or other bodies of water) to be notified, the NOAA (National Oceanographic and Atmospheric Administration) broadcasts a 1050 Hz tone which the HX380 can detect and alert you of pending storm warnings. The 1050 Hz tone, when detected, will produce a loud beep in the speaker of the HX380, to signal that a Weather Alert Broadcast is being received.

1. To receive a NOAA (National Oceanic and Atmospheric Administration) weather broadcast, press and hold the key. The transceiver changes to the weather channel mode and recalls the last used NOAA weather channel. This mode consists of a preset memory bank containing the NOAA weather channels.

2. Press the or key to change to other weather channels.

3. To exit from the weather channel mode, press and hold the key. The transceiver will revert to the channel you were using prior to switching to the weather channel mode.

6.5.1 NOAA WEATHER ALERT

In the event of extreme weather disturbances such as storms and hurricanes, NOAA sends a “weather alert” consisting of a 1050 Hz tone, followed by weather reports on the weather channels.

When a “weather alert” is received on a weather channel, the transceiver emits a beep tone. Press the key to stop the beep tone and listen to the weather reports.

6.5.2 NOAA WEATHER ALERT TESTING

In order to test this system, NOAA broadcasts the 1050 Hz tone every Wednesday sometime between 11 AM and 1 PM local time. You may use this opportunity to test your HX380 periodically to confirm that the Weather Alert feature is working, or for training crew members on how to configure the HX380 to receive the NOAA Weather Alerts.
6.6 KEYPAD LOCKING
In order to prevent accidental channel change, the HX380’s keypad may be locked.

1. Hold down the key to lock the keypad (except the PTT, SOL, and keys) so that they are not accidentally changed. The “” icon will appear next to the channel number on the display, indicating that the functions are locked.

2. Hold down the key until the “” icon disappears to unlock the radio.

6.7 PRESET CHANNELS (0 ~ 9): INSTANT ACCESS
Ten user assigned channels can be programmed for instant access. Pressing the key activates the user assigned channel bank.

6.7.1 PROGRAMMING
1. Select the desired channel to be saved into the Preset channel bank using the or key.
2. Press and hold the key until the channel number blinks. The “P” icon and Preset channel number blink, then release the key.
3. Press the or key to select the desired Preset channel (“0” ~ “9”). If you see the “Underscore” between the current channel number and the Preset channel number, it means that the Preset channel currently has no data written on it (i.e. the channel is “free”).
4. Press the key to program the current channel into the Preset channel bank.
5. Repeat steps 3 and 4 to program the other channel into the Preset Channels, if desired.
6. To delete a Preset Channel, select the Preset Channel Number to be deleted using the or key, then press and hold the key until the Preset Channel Number is removed from the display.

6.7.2 OPERATION
1. Press the key to change the transceiver to the Preset channel mode. The “P” icon and Preset channel number will appear on the display.
2. Press the or key to select the desired Preset Channels (“0” through “9”).
3. To exit from the Preset channel mode, press the key. The transceiver will revert to the channel you were on prior to switching to the Preset channel mode.
6.8 MEMORY SCAN
The HX380 will automatically scan channels programmed into Preset Channel Memory and also channels store into Scan Memory.

When an incoming signal is detected on one of the channels during scan, the radio will pause on that channel, allowing you to listen to the incoming transmission. The radio will automatically start scanning again after the transmission stops.

6.8.1 PROGRAMMING SCAN MEMORY
1. Turn the transceiver off by rotating the VOL knob fully counter-clockwise.
2. Hold down the squelch key, and then turn on the transceiver while still holding down the squelch key.
3. Press the or key to select “MEM CH” and press the squelch key.
4. Press the or key to select desired channel to be scanned, then press the squelch key. The “M” icon appears on the display, which indicates the channel has been selected to the scan channel.
5. Repeat step 4 for all the desired channels to be programmed into scan memory.
6. To DELETE a channel from the list, select the channel then press the squelch key. The “M” icon disappears from the display.
7. When you have completed programming the scan memory, press the key to save your changes, and then press the key to exit to normal operation.

6.8.2 OPERATION
1. Press the squelch key to activate the squelch adjusting mode, then press the or key until the background noise disappears.
2. Press the key to start scanning channels programmed into memory and preset channels. “MSCAN” will be shown in the upper left corner of the display.
3. When the HX380 receives a transmission, it will stop on the channel until the incoming signal disappears, then start scanning again.
4. To stop scanning, press the key.
6.9 PRIORITY SCAN

The Priority Scan is similar to the Memory Scan. However, the Priority Scan monitors the Preset Channels, Scan Memory Channels and the Priority Channel. The following channels can be set as the Priority channel: CH16, CH9, or one of the Preset channel (default setting is CH16).

1. To set the priority channel, hold down the key and press the key. The channel will change from 16 to 09 to Preset channels 0 through 9 with each press of the key. When the key is released the displayed channel will be set as the priority channel (the “PRI” icon will appear above of the channel number).

2. Press the key to start Scanning.

3. Press and hold the key to start Priority Scan, “PSCAN” will be shown on the display.

4. When the HX380 receives a transmission on a working channel, it will stop on the working channel and dual watch to the priority channel until the incoming signal disappears, then start scanning again.

5. When the HX380 receives a signal on the Priority channel it will stay on this channel until the incoming signal disappears, then start Priority scanning again.

6. To stop Priority Scanning, press the key.
6.10 DUAL WATCH
The Dual Watch feature allows the radio to scan between the Priority Channel and one other channel.

1. To set the Priority channel, hold down the key and press the key, when the channel you want is shown, release the key.
2. Select the desired channel you want to Dual watch to the priority channel using the or key.
3. Press and hold the key for two seconds to activate the Dual Watch feature. A “DW” notation will appear on the upper left corner of the display when the Dual Watch feature is activated.
4. When a transmission is received on the “Priority” channel, the radio will stay on the “Priority Channel” until the incoming signal disappears.
5. When the radio receives a transmission on the working channel, the radio will Dual Watch between the working channel and Priority channel.
6. The radio will resume Dual Watch when the incoming signal disappears at the end of the transmission.
7. To stop the Dual Watch feature and return to normal operation, press the key briefly.

6.11 TRI-WATCH
You may change the Dual Watch feature to Tri-watch via the Menu (“Set”) Mode. Refer to Menu Mode Item “DUAL WATCH MODE” on page 26 for details.

Tri-Watch scans Channel 16, 9, and one other channel. When enabled the HX380 will show “TW 16/9” in the upper left corner of the display.

1. Press and hold the key for two seconds to activate the TRI-Watch feature. “TW 16/9” will appear on the upper left corner of the display when the Tri-Watch feature is activated.
2. When a transmission is received on the channel 16, radio will stay on the channel 16 until the incoming signal disappears.
3. When a transmission is received on the channel 9, the radio will Dual watch between the channel 16 and channel 9.
4. When the radio receives a transmission on the working channel, the radio will Tri-watch between the working channel 16 and channel 9.
5. To stop the Tri-watch feature and return to normal operation, press the key.
7. MENU (“SET”) MODE

The Setup Menu allows a number of the HX380 operating parameters to be custom-configured for your operating requirements.

The Menu Mode is easy to activate and set, using the following procedure:
1. Turn the transceiver off by rotating the VOL knob fully counter-clockwise.
2. Hold down the VOL key, then turn on the transceiver while still holding down the VOL key.
3. The Menu item will scroll on the upper left corner of the display and its current status or value will appear on the large display.
4. Press the or key to select the Menu item to be adjusted.
5. Press the key to enable adjustment of the selected Menu item. The current status or value will blink.
6. Press the or key to select the desired status or value of the Menu item.
7. After completing your adjustment, press the key to save the new setting.
8. If you wish to change another Menu item, repeat steps 4 to 7 above.
9. Press the key to exit to normal operation.

BEEP LEVEL

Function: Enables/Disables the Keypad beep.
Available Values: HI / Lo / oFF
Default: HI

LAMP MODE

Function: Selects the Lamp illumination method for the LCD/Keypad.
Available Values: KEY / Cnt (Continuous) / oFF
Default: KEY

KEY: Illuminates the LCD/Keypad for 5 seconds when any key is pressed.
Cnt (Continuous): Illuminates the LCD/Keypad continuously.
oFF: Turns off the back light for the LCD and keys.

SCAN LAMP

Function: Enables/Disables the Lamp while scanner is paused.
Available Values: on / oFF
Default: on
DUAL WATCH MODE
Function: Selects dual or tri-watch as desired.
Available Values: t- (Tri Watch) / d- (Dual Watch)
Default: d- (Dual Watch)
t- (Tri Watch): The radio watches the activity of CH16, CH9, and the current channel.
d- (Dual Watch): The radio watches the activity of the current channel and the Priority channel.

DIMMER MODE
Function: Selects the display brightness level.
Available Values: 0 / 1 / 2 / 3
Default: 3

WX ALERT MODE
Function: Enables/Disables the NOAA Weather Alert function.
Available Values: on / oFF
Default: on

DUAL WATCH DISPLAY
Function: Selects the display mode while Dual Watch scanning.
Available Values: nor (Normal) / SPC (Special)
Default: nor (Normal)
When this menu is set to “Normal”, the channel numbers during dual watch will be shown scrolling on the display. When “Special” is selected the channel numbers on the display do not change unless a call was received. The channel shown is the last channel that was received. This is a handy feature if you cannot look at the radio the moment a transmission was received.

SCAN DISPLAY
Function: Selects display mode while scanning.
Available Values: nor (Normal) / SPC (Special)
Default: nor (Normal)
When this menu is set to “Normal”, the channel numbers during dual watch will be shown scrolling on the display. When “Special” is selected the channel numbers on the display do not change unless a call was received. The channel shown is the last channel that was received. This is a handy feature if you cannot look at the radio the moment a transmission was received.
**CH NAME**

**Function:** Changes the channel name shown on the display.

To change the channel name:
1. Select the channel you wish to change the name *before* following the steps below.
2. Turn off the **HX380** by rotating the **VOL** knob counter clockwise.
3. Hold down the **SQL** key, then turn on the transceiver while still holding down the **SQL** key.
4. Press the **A** or **V** key to select “CH NAME”.
5. Press the **SQL** key. The current channel name will appear on the upper left corner of the display.
6. Press the **A** or **V** key to select the first character (letter, number, or symbol) in the name, then press the **SQL** key to move to the next character.
7. Repeat step 6 as many times as necessary to complete the name tag (up to 12 characters).
8. After completing your adjustment, press the **SQL** key to save the new setting.
9. Press the **MEM** key to exit to normal operation.

**MEM CH**

**Function:** Programming Scan Memory.

See page 22 for details of the programming.
8. MAINTENANCE

8.1 GENERAL
The inherent quality of the solid-state components in STANDARD HORIZON radios will provide many years of continuous use. Take the following precautions to prevent damage to the radio.

- To prevent corrosion of electrical contacts and keep the water resistance, keep the microphone or the jack connected at all times.
- Never press the PTT switch unless an antenna or suitable dummy load is connected to the antenna receptacle.
- Ensure that the input voltage does not exceed the value specified in your Owner’s Manual.
- Use only STANDARD HORIZON-approved accessories and replacement parts.

8.2 REPLACEMENT PARTS
Occasionally an owner needs a replacement part. Items can be ordered from our Parts Department by writing or calling (in USA or Canada), or Standard Horizon/Yaesu authorized dealers (outside USA or Canada).

Marine Division of YAESU U.S.A.
6125 Phyllis Drive, Cypress, CA 90630, U.S.A.
Telephone (800) 767-2450

Commonly requested parts, and their part numbers are listed below.

- **CAT460** Antenna: AY139X001
- **VOL** Knob: RA1193900
- **MIC/SP** Rubber Cap: RA1194200
- **MIC/SP** Plastic Cap: RA057790A
- **CLIP-920** Belt Clip: AAE51X001
8.3 FACTORY SERVICE
In the unlikely event that the radio fails to perform or needs servicing, please contact the following:

For repairs In USA
Standard Horizon
Attention Marine Repair Department
6125 Phyllis Drive, Cypress, CA 90630
Telephone (800) 366-4566

For repairs In Canada
Westcom Marine
488 East 62 nd Avenue
Vancouver BC V5X2G1
Telephone (604) 327-6280

An “RA” Return Authorization number is not necessary to send a product in for service. Include a brief note describing the problem along with your name, return address, phone number, and proof of purchase.

8.4 TROUBLESHOOTING CHART

<table>
<thead>
<tr>
<th>SYMPTOM</th>
<th>PROBABLE CAUSE</th>
<th>REMEDY</th>
</tr>
</thead>
<tbody>
<tr>
<td>The [key] key does not start the scan.</td>
<td>No channels memorized.</td>
<td>Use the [key] key to enter desired channels into the Preset memory.</td>
</tr>
<tr>
<td></td>
<td>Squelch is not adjusted.</td>
<td>Adjust the squelch to threshold or to the point where noise just disap-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>pears. Further adjustment of the squelch control may eliminate incoming</td>
</tr>
<tr>
<td></td>
<td></td>
<td>signals.</td>
</tr>
<tr>
<td>Cannot select between USA, INTL, or Canadian bands.</td>
<td>Proper operation not fol-</td>
<td>HOLD down the [key] key and press the [key] key.</td>
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<tr>
<td></td>
<td>owed.</td>
<td></td>
</tr>
<tr>
<td>Speaker audio is not heard when the [key] key is pressed and held.</td>
<td>Low battery.</td>
<td>Charge battery. Refer to section 4.3.3 of this manual.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Audio volume level is too low.</td>
</tr>
<tr>
<td>Some keys do not operate.</td>
<td>Key Lock is on.</td>
<td>Turn the Key Lock off. Refer to section 6.6 of this manual.</td>
</tr>
<tr>
<td>Charging indicator on CD-48 does not illuminate.</td>
<td>•Defective battery SBR-41LI.</td>
<td>Contact Standard Horizon Product Support at (800)767-2450.</td>
</tr>
<tr>
<td></td>
<td>•Battery contacts not making contact with the charger cradle.</td>
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<tr>
<td>CH</td>
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## VHF MARINE CHANNEL CHART

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<th>U</th>
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<th>S/D</th>
<th>TX</th>
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<td>X</td>
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<td>156.725</td>
<td>US: Port Operations, Canada: Commercial fishing only, International: Inter-ship, Port operations and Ship movement</td>
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<td>Port operation and Ship movement</td>
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<td>Port operation, ship movement</td>
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<td>D</td>
<td>157.125</td>
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<td>X</td>
<td>S</td>
<td>157.425</td>
<td>Public Correspondence (Marine Operator)</td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:** Simplex channels, 03A, 21A, 23A, 61A, 64A, 81A, 82A and 83A CANNOT be lawfully used by the general public in U.S.A. waters.
10. WARRANTY

Marine Products Limited Warranty

PLEASE NOTE
The following “Limited Warranty” is for valid for products that have been purchased in the United States and Canada. For limited Warranty details outside the United States, contact the dealer in your country.

STANDARD HORIZON (a division of YAESU U.S.A.) warrants, to the original purchaser only, each new Marine Communications Product (“Product”) manufactured and/or supplied by STANDARD HORIZON against defects in materials and workmanship under normal use and service for a period of time from the date of purchase as follows:

Fixed Mount and Portable Transceivers
- 1 year - if purchased before 01/01/91
- 3 years - if purchased between 01/01/91 and 01/01/94
- 3 years Waterproof - if purchased after 01/01/94

Loud hailers
- 1 year - if purchased before 01/01/91
- 3 years - if purchased after 01/01/91

Associated Chargers
- 1 year - if purchased before 01/01/91
- 3 years - if purchased after 01/01/91

Associated Batteries - 1 year. Note: Batteries will be deemed defective only if storage capacity drops below 80% of rated capacity or if leakage develops.


To receive warranty service, the purchaser must deliver the Product, transportation and insurance prepaid, to STANDARD HORIZON (a division of YAESU U.S.A.), Attention Marine repairs 6125 Phyllis Drive, Cypress, CA 90630. Include proof of purchase indicating model, serial number, and date of purchase. STANDARD HORIZON will return the Product to the purchaser freight prepaid. Products purchased prior to January 1, 1991 will bear the STANDARD HORIZON warranty terms in effect prior to that date.

In the event of a defect, malfunction or failure of the Product during the warranty period, STANDARD HORIZON’s liability for any breach of contract or any breach of express or implied warranties in connection with the sale of Products shall be limited solely to repair or replacement, at its option, of the
Product or part(s) therein which, upon examination by STANDARD HORIZON, appear to be defective or not up to factory specifications. STANDARD HORIZON may, at its option, repair or replace parts or subassemblies with new or reconditioned parts and subassemblies. Parts thus repaired or replaced are warranted for the balance of the original applicable warranty.

STANDARD HORIZON will not warrant installation, maintenance or service of the Products. In all instances, STANDARD HORIZON’s liability for damages shall not exceed the purchase price of the defective Product.

This warranty only extends to Products sold within the 50 States of the United States of America and the District of Columbia.

STANDARD HORIZON will pay all labor to repair the product and replacement parts charges incurred in providing the warranty service except where purchaser abuse or other qualifying exceptions exist. The purchaser must pay any transportation expenses incurred in returning the Product to STANDARD HORIZON for service.

This limited warranty does not extend to any Product which has been subjected to misuse, neglect, accident, incorrect wiring by anyone other than STANDARD HORIZON, improper installation, or subjected to use in violation of instructions furnished by STANDARD HORIZON, nor does this warranty extend to Products on which the serial number has been removed, defaced, or changed. STANDARD HORIZON cannot be responsible in any way for ancillary equipment not furnished by STANDARD HORIZON which is attached to or used in connection with STANDARD HORIZON’s Products, or for the operation of the Product with any ancillary equipment, and all such equipment is expressly excluded from this warranty. STANDARD HORIZON disclaims liability for range, coverage, or operation of the Product and ancillary equipment as a whole under this warranty. STANDARD HORIZON reserves the right to make changes or improvements in Products, during subsequent production, without incurring the obligation to install such changes or improvements on previously manufactured Products.

The implied warranties which the law imposes on the sale of this Product are expressly LIMITED, in duration, to the time period specified above. STANDARD HORIZON shall not be liable under any circumstances for consequential damages resulting from the use and operation of this Product, or from the breach of this LIMITED WARRANTY, any implied warranties, or any contract with STANDARD HORIZON. IN CONNECTION WITH THE SALE OF ITS PRODUCTS, STANDARD HORIZON MAKES NO WARRANTIES, EXPRESS OR IMPLIED AS TO THE MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, EXCEPT AS EXPRESSLY SET FORTH HEREIN.
Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitation on how long an implied warranty lasts, so the above limitations or exclusions may not apply. This warranty gives specific legal rights, and there may be other rights which may vary from state to state.

**ONLY PRODUCTS SOLD ON OR AFTER JANUARY 1, 1991 ARE COVERED UNDER THE TERMS OF THIS LIMITED WARRANTY.**

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**ON-LINE WARRANTY REGISTRATION**

THANK YOU for purchasing a Standard Horizon products! We are confident your new radio will serve your needs for many years!

Please visit [www.standardhorizon.com](http://www.standardhorizon.com) to register the HX380 Marine VHF. It should be noted that visiting the Web site from time to time may be beneficial to you, as new products are released they will appear on the STANDARD HORIZON Web site. Also a statement regarding product support should be added to the manual.

Product Support Inquiries

If you have any questions or comments regarding the use of the HX380, you can visit the STANDARD HORIZON Web site to send an E-Mail or contact the Product Support team at (800) 767-2450 M-F 8:00AM to 5:00PM PST.

In addition to the warranty, STANDARD HORIZON includes a lifetime “flat rate” and “customer loyalty” programs to provide service after the warranty period has expired. If you wish to obtain the flat rate price for out-of-warranty repair, you must include the information on the Owner’s Record with the unit when you return it to your Dealer or to STANDARD HORIZON.

**Lifetime Flat Rate Service Program:** For the original Owner only, for the lifetime of the unit, STANDARD HORIZON will repair the unit to original specifications.

Note: The flat rate amount is payable by the Owner only if STANDARD HORIZON or the STANDARD HORIZON Dealer determines that a repair is needed. After the repair, a 90-day warranty will be in effect from the date of return of the unit to the Owner.

This service program is not available for equipment which has failed as a result of neglect, accident, breakage, misuse, improper installation or modification, or water damage (depending on the product).
11. INSTALLATION OF OPTION

11.1 FBA-40 ALKALINE BATTERY TRAY

FBA-40 is a battery tray that holds six AA size Alkaline batteries and is used with the HX380 transceiver. When the FBA-40 is installed into the HX380 the radio can withstand immersion in water up to 1.5 m (about 5Ft) for 30 minutes.

1. On the FBA-40, remove the battery case cover. Due to the battery case water proof characteristics, it may be difficult to remove the battery tray case, put a coin to the edge of the battery compartment (_usec) then pry open the battery case cover.

2. Slide the six AA size Alkaline batteries into the FBA-40 Battery Case with the Negative (−) side of the batteries touching the spring connections inside the FBA-40 Battery Case.

3. Attach the battery cover to the FBA-40 Battery Case while being careful so that o-ring is not twisted.

4. Insert the FBA-40 Battery Case into the battery compartment on the back of the HX380 transceiver while tilting the Belt Clip outward, then push the bottom side of the FBA-40 Battery Case until the Battery Case locks with the Battery Pack Latch.
12. SPECIFICATIONS

Performance specifications are nominal, unless otherwise indicated, and are subject to change without notice.

12.1 GENERAL

Frequency Ranges: 156.025 MHz - 163.275 MHz (Marine Band + WX Band)  
134.000 MHz - 174.000 MHz (LMR Band)

Channel Spacing: 25 kHz / 12.5 kHz

Frequency Stability: ±2.5 ppm  
(–22 °F to +140 °F [–30 °C to +60 °C])

Emission Type: 16K0G3E (Marine Band)  
16K0F3E (LMR Band: Wide)  
11K0F3E (LMR Band: Narrow)

Antenna Impedance: 50 Ω

Supply Voltage: 7.4V DC, Negative Ground (Battery Terminal)

Current Consumption: 320 mA (Receive, Typical at AF MAX.)  
50 mA (Standby)  
1.6 A / 0.8 A (TX: 5 W / 1W)

Operating Temperature: –22 °F to +140 °F (–30 °C to +60 °C)

Case Size (W x H x D): 2.24” x 5.24” x 1.29” (57 x 133 x 33 mm)  
w/o knob & antenna

Weight (Approx.): 11.3 oz (320 g)  
w/SBR-41LI, Belt Clip, & Antenna

12.2 TRANSMITTER

RF Power Output: 5 W / 1 W (@7.4 V )

Modulation Type: Variable Reactance

Maximum Deviation: ±5.0 kHz (Wide) / ±2.5 kHz (Narrow)

Spurious Emission: –36 dBm (<1 GHz), –30 dBm (>1 GHz)

Microphone Impedance: 2 kΩ
12.3 RECEIVER

Circuit Type: Double-Conversion Superheterodyne
Intermediate Frequencies: 1st: 67.65 MHz, 2nd: 450 kHz
Adjacent Channel Selectivity: 70 dB typical (Wide),
60 dB typical (Narrow)
Intermodulation: 59 dB typical
Sensitivity: –6 dBµV (0.25 µV) for 12 dB SINAD
Selectivity (Wide): 12 kHz / 25 kHz (–6 dB / –60 dB)
Selectivity (Narrow): 6 kHz / 18 kHz (–6 dB / –60 dB)
AF Output (Internal SP): 700 mW @16 Ω for 10 % THD (@7.4 V)
AF Output (External SP): 350 mW @8 Ω for 10 % THD (@7.4 V)

Measured in accordance with TIA/EIA-603.
FCC AND CANADA RADIO LICENSE INFORMATION

Standard Horizon radios comply with the Federal Communication Commission (FCC) and Industry-Canada requirements that regulate the Maritime Radio Service.

MARITIME STATION LICENSE

An FCC ship station license is no longer required for any vessel traveling in U.S. waters which uses a VHF marine radio, RADAR or EPIRB, and which is not required to carry radio equipment. However, any vessel required to carry a marine radio on an international voyage, carrying a HF single side band radiotelephone or marine satellite terminal. FCC license forms, including applications for ship (605) and land station licenses can be downloaded via the Internet at www.fcc.gov/Forms/Form605/605.html. To obtain a form from the FCC, call (888) 225-5322.

MARINE RADIO CALL SIGN

Currently the FCC does not require recreational boaters to have a Ship Radio Station License. The USCG recommends the boats registration number and the state to be used.

CANADIAN SHIP STATION LICENSING

You may need a license when traveling in Canada. If you do need a license contact their nearest field office or regional office or write:

Industry Canada
Radio Regulatory Branch
Attn: DOSP
300 Slater Street
Ottawa, Ontario
Canada, K1A 0C8

FCC/INDUSTRY CANADA INFORMATION

The following data pertaining to the transceiver is necessary to fill out the license application.

FCC Type Accepted: ...............................................................Part 80 / Part 90
Output Power with SBR-41LI: ................................................... 1.0/5.0 W (Low/High)
Emission: .................................................................16K0G3E (Marine Band)
                                    16K0F3E, 11K0F3E (LMR Band)
Frequency Range: ........................................156.025 to 163.275MHz (Marine Band)
                                    134.000 to 174.000 MHz (LMR Band)
FCC Type Number: ..............................................................K6630393X20
Industry Canada Type Approval: ...............................................511B-30393X20
THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRABLE OPERATION.

Changes or modifications to this device not expressly approved by YAESU U.S.A. could void the User’s authorization to operate this device.

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

This radio transmitter (identify the device by certification number, or model number if Category II) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.