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1 PTT (Push-To-Talk): Activates the transmitter when pressed.

2 SQL: Press to display the SQL level setting screen, then press the [▲] key to squelch or press the [▼] to un-squelch the radio.

3 MIC: Speak slowly and clearly into the MIC aperture having it about 1/2 to 1 inch (1.2 to 2.5 cm) away from your mouth while pressing the PTT key.

4 MENU/SET: Press to access MENU. Press and hold to enter SETUP Mode.

5 VOL− / VOL+: Press to adjust the speaker audio volume.

6 16/S: Press to recall channel 16. Press and hold to recall the sub channel.

7 Soft keys: These three programmable keys can be customized through the setup menu mode. By pressing one of these keys briefly, display the key functions at the bottom of the display.

8 Strobe Light: Glows the Strobe Light continuously by pressing the [STROBE] soft key.

9 ◄/►: Press to toggle the on-screen menus to right/left.

▼/▲: Press to change the operating channel.

10 CLR/On: Press to cancel a function or menu selection. Press and hold to lock and unlock the keypad.

11 : Press and hold to turn the transceiver ON/OFF.
1. GENERAL INFORMATION

1.1 INTRODUCTION

Congratulations on your purchase of the HX210! 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 stand behind every product sold, and we invite you to contact us should you require technical advice or assistance. We appreciate your purchase of the HX210, and encourage you to read this manual thoroughly, so as to learn and fully understand the capabilities of the HX210.

The HX210 is a Submersible*¹ Floating 6-Watt (5-Watt)*² portable two-way marine transceiver. The transceiver has all allocated International, USA, or Canadian channels. It has emergency channel 16 which can be immediately selected from any channel by pressing the [16/S] key.

The HX210 includes the following features: Memory Scanning, Priority Scanning, Dual and Triple watch, NOAA Weather Alert, easy-to-read large LCD display, Battery Life display on the LCD, and a transmit Time-Out Timer (TOT).

The HX210 transmitter provides a full 6-Watt (5-Watt)*¹ of transmit power which is also selectable to 1 Watt to assist the user in ensuring maximum battery life.

The HX210E supports ATIS mode which is used in the inland waterways of Europe. Please contact your local PTT administration or Marine Authority to obtain your ATIS number.

We appreciate your purchase of the HX210, and encourage you to read this manual thoroughly, so as to learn and fully understand the capabilities of the HX210.

*¹(IPX7 Specification for submersibility: 3 ft. (1 m) for 30 minutes)
*²(5-Watt TX required in Some Countries)
2. SAFETY PRECAUTIONS

Be sure to read the safety precautions, and use this product safely.
Yaesu is not liable for any failures or problems caused by the use or misuse of this product by the purchaser or any third party. Also, Yaesu is not liable for damages caused through the use of this product by the purchaser or any third party, except in cases where ordered to pay damages under the laws.

Types and meanings of the marks

⚠️ DANGER  This mark indicates an imminently hazardous situation, which, if not avoided, could result in death or serious injury.

⚠️ WARNING  This mark indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury.

⚠️ CAUTION  This mark indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury or only property damage.

Types and meanings of symbols

🚫 These symbols signify prohibited actions, which must not be done to use this product safely. For example: ⚠️ indicates that the product should not be disassembled.

⚠️ These symbols signify required actions, which must be done to use this product safely. For example: ❗️ indicates that the power plug should be disconnected.

⚠️ DANGER  Do not operate the device when flammable gas is generated. Doing so may result in fire and explosion.

Do not transmit with this device in a crowded place for the safety of persons using a medical device such as a cardiac pacemaker. The radio wave emitted from this product can cause the medical device to malfunction and result in an accident.

Do not touch any liquid leaking from the liquid display with your bare hands. There is a risk of chemical burns occurring when the liquid comes into contact with the skin or gets into the eyes. In this case, seek medical treatment immediately.

Do not touch any material leaking from the battery pack with bare hands. The chemical that has stuck to your skin or entered your eye can cause chemical burns. In such a case, consult the doctor immediately.

Do not solder or short-circuit the terminals of the battery pack. A fire, leak, overheating, explosion, or ignition may result. Do not carry the battery pack together with a necklace, hairpin, or small metal objects. A short circuit can result.

⚠️ WARNING  Do not power this transceiver with a voltage other than the specified power supply voltage. A fire, electric shock, or damage may result.

Do not make very long transmissions. The main body of the transceiver may overheat, resulting component failure or operator burns.

Do not disassemble or make any alteration to this product. An injury, electric shock, or failure may result.

Never touch the antenna during transmission. This may result in injury, electric shock and equipment failure.

Do not handle the battery pack or charger with wet hands. Do not insert or remove the power plug with wet hands. An injury, leak, fire, or failure may result.

If smoke or a strange odor is emitted from the main body, battery pack, or battery charger, immediately turn the transceiver off; remove the battery pack. A fire, chemical leak, overheating, component damage, ignition, or failure may result. Please contact the dealer from which you purchased this product.

⚠️ CAUTION  Do not place the transceiver on an unsteady or sloping surface, or in a location with extreme vibration. The transceiver may fall or drop, resulting in fire, injury and equipment damage.

Stay as far away from the antenna as possible during transmission. Long-term exposure to electromagnetic radiation may have a negative effect on the human body.

Do not dangle or throw the transceiver by holding its antenna. This may injure others and may also result in damage and failure of the transceiver.

Do not wipe the case using thinner and benzene etc. Use only a soft, dry cloth to wipe stains from the case.

Keep this product out of the reach of children. Injury to the child, or damage to the transceiver may result.

Do not use any products other than the specified options and accessories. Failure or miss operation may result.

If the transceiver will not be used for an extended period, turn it OFF and remove the battery pack for safety.

Do not throw the transceiver, or subject it to strong impact forces. Physical abuse may result in component damage and equipment failure.

Keep magnetic cards and videotapes away from the transceiver. The data recorded on cash cards or videotapes may be erased.

Do not use the transceiver in a crowded place. The antenna may strike others and result in an injury.

Install the hand strap and belt clip securely. Improper installation may cause the transceiver to fall or drop, resulting in an injury or damage.

Before discarding a depleted battery pack, affix tape or insulating covering to its terminals.
3. ONLINE WARRANTY REGISTRATION

Please visit www.standardhorizon.com - Owner’s Corner to register the HX210 Marine VHF.

NOTE: visiting the STANDARD HORIZON website from time to time may be beneficial. When new products are released, information will appear on the website.

4. ABOUT THIS RADIO

4.1 ABOUT THE VHF MARINE BAND

The radio frequencies used in the VHF marine band lie between 156 and 158 MHz with NOAA Weather stations available between 161 and 163 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 section “12. VHF MARINE CHANNEL ASSIGNMENTS”.

WARNING

This radio is capable of transmitting on Marine VHF radio frequencies. The FCC allows the use of VHF Marine band on water areas only. Use of the VHF Marine band when on land is not permitted. If persons use the VHF Marine Band on land and interfere with other communications, the FCC will be notified and search for the interference. Responsible parties found to be transmitting on the VHF Marine Band on land could be fined up to $10,000 for the first offense.

4.2 ABOUT WATER PROTECTION

The HX210 is only submersible* when the MIC/SP cap is installed in the MIC/SP jack.

*(IPX7 Specification for submersibility: 3 ft. (1 m) for 30 minutes)

4.3 DISTRESS AND HAILING (CHANNEL 16)

Channel 16 is designated 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 turned 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 you 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.
9. End the message by saying “*OVER*”. Release the **PTT** switch and listen.
10. If there is no answer, repeat the above procedure. If there is still no response, try another channel.

### 4.4 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. Here, also, 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. Some radios automatically monitor Channel 16 even when set to other channels or when scanning.

4.5 BRIDGE CHANNELS 13 AND 67

Channel 13 is used at docks, bridges and by vessels maneuvering in port. Messages on this channel must concern navigation only, such as meeting and passing in restricted waters.

Channel 67 is used for navigational traffic between vessels.

By regulation, power is normally limited to 1 Watt on these channels. Your radio is programmed to automatically reduce power to this limit on these channels. However, in certain situations it may be necessary to temporarily use a higher power. See page 14 for means to temporarily override the low-power limit on these two channels.

4.6 SIMPLEX/DUPLEX CHANNEL USE

Refer to the section “12. VHF MARINE CHANNEL ASSIGNMENTS” for instructions on use of simplex and duplex channels.

**NOTE**

All channels are factory-programmed in accordance with FCC (USA), ISED (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, International or Canadian operating band is selected.

4.7 AUTOMATED RADIO CHECK SERVICE (in the USA only)

In areas across the United States, Sea Tow offers boaters a way to conduct radio checks. To use Sea Tow’s free Automated Radio Check service, simply tune your VHF radio to the appropriate channel for your location and conduct a radio check as you typically would. Upon releasing your radio’s microphone, the system will play an automated message and relay your transmission back to you, thereby letting you know how your signal will sound to other boaters.

The Automated Radio Check Service is currently available in the areas listed below.

**West Coast**
- Sea Tow Newport/LA - Ch. 27
- Sea Tow San Diego - Ch. 27
Northeast
   Sea Tow Portland-Midcoast (Maine) - Ch. 27
   Sea Tow Boston - Ch. 27
   Sea Tow South Shore (Mass.) - Ch. 28
   Sea Tow Rhode Island - Ch. 24
   Sea Tow Eastern Long Island - Ch. 27
   Sea Tow Huntington (N.Y.) - Ch. 27
   Sea Tow Manasquan (N.J.) - Ch. 28

Mid-Atlantic
   Sea Tow Northern Chesapeake (Md.) - Ch. 28
   Sea Tow Central Chesapeake (Md.) - Ch. 27
   Sea Tow Hampton Roads (Va.) - Ch. 28

North Carolina
   Sea Tow Wrightsville Beach - Ch. 28
   Sea Tow Ocean Isle Beach - Ch. 28

Florida
   Sea Tow Sebastian - Ch. 28
   Sea Tow Fort Lauderdale - Ch. 27
   Sea Tow Charlotte Harbor - Ch. 24
   Sea Tow Tampa Bay - Ch. 27
   Sea Tow Horseshoe Beach - Ch. 27
   Sea Tow Carrabelle/St. Marks - Ch. 27
   Sea Tow Pensacola/Orange Beach (Ala.) - Ch. 27

4.8 NOTES TO ASSURE WATERPROOF INTEGRITY

CAUTION!

To ensure the waterproof integrity of the **HX210**, please make sure to ob-
serve the precautions described below of the **HX210** observe the precau-
tions regarding waterproofing as described below. Failure to observe even one of the precautions may degrad-
the waterproof integrity, resulting in water intrusion into the transceiver. As a result, the transceiver will not float.

- To prevent water intrusion please make sure that the MIC/SP cap is properly sealed.
- Make sure that there is no dust, dirt or crack on the jack or the rubber gasket.

NOTE

If you find any cracks on the MIC/SP cap or gasket, please contact Stan-
dard Horizon or your local dealer to purchase a replacement.

4.9 RADIO CARE

After using the **HX210** in a salt water environment, it is recommended to clean the radio with fresh water by rinsing the radio under a sink faucet or by dunking the radio in a bucket of fresh water. After washing, use a soft cloth and thoroughly dry all parts of the radio. This is to keep the rubber switches and speaker grill clean and in top operating condition.
5. ACCESSORIES

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

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<tr>
<th>Item</th>
<th>Description</th>
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</thead>
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<td>HX210</td>
<td>Transceiver</td>
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<tr>
<td>CAT460</td>
<td>Antenna*1</td>
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<tr>
<td>SAD-25/SAD-23*2</td>
<td>AC Adapter for SBH-25</td>
</tr>
<tr>
<td>E-DC-19A</td>
<td>DC Cable with 12 V Cigarette Lighter Plug</td>
</tr>
<tr>
<td>SBH-25</td>
<td>Charger Cradle</td>
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<tr>
<td>CLIP-22</td>
<td>Belt Clip</td>
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<tr>
<td>Hand Strap</td>
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<tr>
<td>Owner’s Manual</td>
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<td>SSM-14A</td>
<td>Submersible Speaker / Microphone with Earphone Jack</td>
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<td>SEP-10A</td>
<td>Earphone for SSM-14A</td>
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<td>MH-73A4B</td>
<td>Submersible Speaker / Microphone</td>
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<td>SSM-64A</td>
<td>VOX Headset</td>
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<tr>
<td>SSM-55A</td>
<td>Earpiece / Microphone</td>
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<td>CN-3</td>
<td>Radio-to-Ship’s-Antenna Adapter</td>
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<tr>
<td>SCH-11</td>
<td>Belt Clip Hanger</td>
</tr>
</tbody>
</table>

*1(Antenna gain: -1.5dBi, Impedance: 50 ohm)
*2( Depending on the transceiver version)

**NOTE:** Charge the battery before operating the HX210 for the first time. Please see section “6.1 BATTERIES AND CHARGERS” for details.
6. GETTING STARTED

6.1 BATTERIES AND CHARGERS

If the radio has never been used, or its charge is depleted, it may be charged by connecting the SBH-25 Charger Cradle with the SAD-25/SAD-23 AC Adapter, see section "6.1.2 BATTERY CHARGING". 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/SAD-23 and E-DC-19A will charge a completely discharged built-in battery in approximately 3 hours.

**Built-in Rechargeable Battery**

<table>
<thead>
<tr>
<th>Capacity</th>
<th>1850 mAh</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Voltage</td>
<td>7.4 V</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Temperature Range</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>°C</td>
<td>°F</td>
<td>°C</td>
</tr>
<tr>
<td>Charge</td>
<td>5</td>
<td>41</td>
</tr>
<tr>
<td>Discharge</td>
<td>−20</td>
<td>−4</td>
</tr>
<tr>
<td>Storage</td>
<td>−10</td>
<td>14</td>
</tr>
</tbody>
</table>

**CAUTION**

To avoid risk of explosion and injury, the built-in battery pack should only be charged or recharged in non-hazardous environments.

6.1.1 BATTERY SAFETY

The built-in battery of this transceiver contains 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:
- Use only STANDARD HORIZON approved batteries.
- Do not reverse the charge polarity. Use only the proper charger. If this is tampered with or another charger is used, permanent damage may result.
- Use only a STANDARD HORIZON approved charger. The use of any other charger may cause permanent damage to the battery.

Battery Recycling
DO NOT PLACE USED BATTERIES IN THE REGULAR TRASH!
LI-ION BATTERIES MUST BE COLLECTED, RECYCLED OR DISPOSED OF IN AN ENVIRONMENTALLY SOUND MANNER.

Incinerating Li-ion batteries, placing them in the land fill, or mixing them with the municipal solid waste collection, is PROHIBITED BY LAW in most areas.
Return batteries to an approved Li-ion battery recycler. This may be available 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.

6.1.2 BATTERY CHARGING
Using the supplied battery charger and cradle, it take about 3 hours* to charge the built-in battery fully.
*(Depending on the battery status, the charging time might be increased.)
1. Referring to the figure, connect the battery charger plugs.
2. Turn the transceiver OFF.
3. When the HX210 is inserted correctly, the HX210’s LCD display will show the battery charging icon.
4. When charging is completed, the battery charging icon will disappear.

CAUTION
The SAD-25/SAD-23 and SBH-25 are NOT designed to be waterproof. Do not attempt to charge in water hazardous locations.
NOTE

- The SAD-25/SAD-23 is only designed for the charging of the HX210’s built-in battery, and is not suitable for other purposes. The SAD-25/SAD-23 may introduce noise to TV and radio reception in the immediate vicinity, so it is not recommended for use adjacent to such devices.
- Contact Standard Horizon dealer or Factory Service about the built-in battery replacement. Refer to the section “11.2 FACTORY SERVICE”.

6.1.3 BATTERY LIFE INFORMATION

<table>
<thead>
<tr>
<th>Icon</th>
<th>Battery Status</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>: Full battery power</td>
</tr>
<tr>
<td></td>
<td>: Enough battery power</td>
</tr>
<tr>
<td></td>
<td>: Low battery power</td>
</tr>
<tr>
<td></td>
<td>: Poor battery power. Charge battery.</td>
</tr>
<tr>
<td></td>
<td>: Charge the battery immediately</td>
</tr>
</tbody>
</table>

When the “□□□□” icon appears, it is recommended that the battery be charged soon.

WARNING

If the transceiver will be unused for a long period of time, be sure to fully charge the built-in battery before storing it. When the transceiver is stored for an extended period, recharge the built-in battery every six months to prevent it from over-discharging.

6.2 BELT CLIP INSTALLATION / REMOVAL

- To install the Belt Clip: align the Belt Clip to the niche on the rear of the transceiver, then slide the Belt Clip downward until it locks in place with a “Click”.
- To remove the Belt Clip: press the Belt Clip Tab away from the rear of the transceiver to unlock the Belt Clip, then slide the Belt Clip upward to remove it.
7. CONTROLS AND INDICATORS

7.1 CONTROLS AND SWITCHES

NOTE
This section defines each control of the transceiver. For detailed operating instructions, refer to section “8. BASIC OPERATION”. Refer to the below illustration for the locations of the following controls, switches, and connections.

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

2. **PTT (PUSH-TO-TALK) Switch** (Left Side Panel)
   When pushed activates the transmitter.

3. **SQL Switch**
   Press this key to SQL adjustment.
   **Secondary use:**
   Press and hold this key to open the squelch, allowing you to monitor the operating channel. Press the key to resume normal (squelch controlled) monitoring.
Microphone
The internal microphone is located here. When transmitting, position the microphone about 1/2 to 1 inch (1.2 ~ 2.5 cm) away from your mouth. Speak slowly and clearly into the microphone.

Keypad
▲ (UP) Key
Press this key to change the operating channel or the squelch threshold level. Pressing the key momentarily, will increase the channel (or level) will increase one step. Holding the key, will increase the channel (or level) continuously.

▼ (DOWN) Key
Press this key to change the operating channel, or the squelch threshold level. Pressing the key momentarily, will decrease the channel (or level) will decrease one step. Holding the key, will decrease the channel (or level) continuously.

◄ & ► Keys
Press these keys to toggle the on-screen menus right or left.

MENU/SET Key
Press to access MENU.

Secondary use:
Press and hold to enter SETUP Mode.

CLR/On Key
Press to cancel a function or menu selection.

Secondary use:
Press and hold to lock and unlock the keypad.

VOL- & VOL+ Keys
Press these keys to enable the audio volume adjustment.

16/S Key
Pressing this key immediately recalls channel 16 from any channel selection. Press and hold 16/S Key to recall the sub channel.

POWER Key
Press and hold this key to turn the radio “ON” or “OFF”.

MIC/SP Jack
The jack accepts the optional SSM-14A Speaker/Microphone, MH-73A4B Submersible Speaker/Microphone, SSM-64A VOX Headset, or SSM-55A Earpiece/Microphone. When this jack is used, the internal speaker and microphone are disabled.
7 LCD Display
This display shows current operating conditions, as illustrated the below image.

8 Soft key
These three soft keys can be customized by the Setup Menu mode described in section “8.12 Soft Keys”. When one of the soft keys is pressed briefly, the functions will appear above each key on the display.

9 Water Enabled Light
When the HX210 comes in contact with water, the light will blink white to assist finding the radio in low light conditions. This feature operates when the radio is ON or OFF.

10 Speaker
The internal speaker is located here.

7.2 LCD INDICATORS

1 “TX” Indicator
This indicator appears during transmission.

2 “BUSY” Indicator
This indicator appears when a signal is being received or the radio is unsquelched.

3 Channel Group Indicator
These indicators show the selected channel group.
“USA”: USA
“INTL”: International
“CAN”: Canada
“UK”: United Kingdom (U.K.)
“BE”: Belgium
“NL”: Netherlands
“SW”: Sweden
“GE”: German
4. **“DW” Indicator**
   
   **DW**: Dual Watch is activated.
   
   **TW**: Tri-Watch is activated.

5. **TRANSMIT POWER Indicator**
   
   “HI”: 6 W (5 W)*
   
   “MD”: 2.5 W
   
   “LO”: 1 W
   
   *(5 W TX required in some countries)*

6. **“MEM” Indicator**
   
   This indicator shows the channel is registered in the transceiver “Scan Memory”.

7. **“P-SET” Indicator**
   
   Shown when the channel is programmed into the Preset Channel memory.

8. **Battery Indicator**

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>: Full battery power</td>
</tr>
<tr>
<td></td>
<td>: Enough battery power</td>
</tr>
<tr>
<td></td>
<td>: Low battery power</td>
</tr>
<tr>
<td></td>
<td>: Poor battery power. Charge battery.</td>
</tr>
<tr>
<td></td>
<td>: Charge the battery immediately</td>
</tr>
</tbody>
</table>

9. **“P” Indicator**
   
   Shown when the channel is set as the Priority Channel.

10. **“D” Indicator**
    
    Shown when the Dual Watch function is enabled in FM radio mode.

11. **“T” Indicator**
    
    Shown when the Triple Watch function is enabled in FM radio mode.

12. **Channel Display**
    
    The operating channel is shown on the LCD in both the transmit and the receive modes.

13. **VOL Indicator**
    
    This indicator shows the receive audio volume level.

14. **SQL Indicator**
    
    This indicator shows the squelch setting level.
8. BASIC OPERATION

8.1 PROHIBITED COMMUNICATIONS

The FCC prohibits the following communications:
- False distress or emergency messages.
- Messages to “any boat” except in emergencies and radio tests.
- Messages to or from a vessel on land.
- Transmission while on land.
- Obscene, indecent, or profane language (potential fine of $10,000).

8.2 INITIAL SETUP

1. To 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.

8.3 RECEPTION

1. Press and hold the POWER key for one second to turn the radio “ON”.
2. Press and hold the [SQL] switch until the “BUSY” indicator appears on the display. This is the “squelch off” state.
3. Press the [VOL-] or [VOL+] key until noise or audio from the speaker is heard at a comfortable level.
4. Press the [SQL] switch to resume normal (quiet) monitoring.
5. Press the [▲] or [▼] key to select the desired channel. Refer to the channel chart on page 38 for available channels.
6. When a signal is received, adjust the volume to the desired listening level. The “BUSY” indicator on the LCD is displayed indicating that the channel is being used or the radio is not squelched.

8.4 TRANSMISSION

1. Setup the transceiver as described in the “8.3 RECEPTION” discussion above.
2. Before transmitting, monitor the channel and make sure it is clear.
   THIS IS AN FCC REQUIREMENT!
3. Press the PTT (Push-To-Talk) switch to transmit. During transmission, the “TX” indicator will appear on the display.
4. Position the microphone about 1/2 to 1 inch (1.2 ~ 2.5 cm) away from your mouth. Speak slowly and clearly into the microphone.
5. When the transmission is finished, release the PTT switch.
8.4.1 TRANSMIT POWER
The TX output power of the HX210 is set to high level (6 W*) in factory default, and the “HI” indicator is displayed on the top part of the screen.

To change the TX output power:
1. Press one of the soft keys.
2. Press the [◄] or [►] key repeatedly, until [HI], [MD], or [LO] is displayed above a soft key at the bottom of the LCD.
3. Press the [HI], [MD], or [LO] soft key to switch between HI (6 W (5 W)*), MD (2.5 W), or LO (1 W) output power.
   *(5 W TX required in Some Countries)

8.4.2 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 receive mode, even if the PTT switch continues to be held down. The PTT switch must first be released, then wait 10 seconds before transmission may be started again. This Time-Out-Timer (TOT) prevents a continuous transmission that would result from an accidentally stuck PTT switch.

WATER ENABLED LIGHT
When the HX210 comes in contact with water a white light will blink to assist retrieving it in low light conditions. The light will automatically turn off in about 15 seconds when it is removed from water.
The HX210 has a menu selection to enable and disable. Refer to SETUP Mode Item “STROBE LED (Water Hazard)” on page 32 for details.

8.5 CHANNEL GROUP
Set the Channel Group according to the region.
1. Press and hold the [MENU/SET] key.
2. Press the [▲] or [▼] key to select “CHANNEL SETUP”.
3. Press the [SELECT] soft key.
4. Press the [▲] or [▼] key to select “CHANNEL GROUP”.
5. Press the [SELECT] soft key.
6. Press the [▲] or [▼] key to select the desired channel group “INTERNATIONAL”, “USA”, or “CANADA”*.
   *(In the European version, when setting the region, the selected European Channel Group will be displayed instead of “CANADA”. For details, refer to the Note on the Setting the Region on the separate yellow insert sheet.)
7. Press the [ENTER] soft key to store the selected setting.
8. Press the [CLR/On] key to return to radio operation.

**8.6 KEYPAD LOCKING**

In order to prevent accidental channel change, the HX210’s keypad may be locked.

Hold down the [CLR/On] key to lock the keypad (except the PTT, [VOL-], [VOL+] and [CLR/On] keys) so that they are not accidentally changed. “KEY LOCK” will appear on the entire screen, to indicate that the functions are locked.

To unlock the keys, press and hold the [CLR/On] key until “UNLOCK” appears.

**8.7 NOAA WEATHER CHANNELS (In USA and Canada only)**

1. Press the [MENU/SET] key to display the MENU screen, then press the [WX] soft key. The transceiver changes to the weather channel mode and the radio will be set to the last used NOAA weather channel.
2. Press the [▲] or [▼] key to select a different NOAA weather channel.
3. To exit from the NOAA weather channels, press the [MENU/SET] key to display MENU screen, then press the [CH] soft key. The transceiver will revert to the channel in use prior to switching to the weather channel mode.

**8.7.1 NOAA WEATHER ALERT**

In the event of extreme weather disturbances, such as storms and hurricanes, the NOAA (National Oceanic and Atmospheric Administration) sends a weather alert accompanied by a 1050 Hz tone and a subsequent weather report on one of the NOAA weather channels.

The HX210 can respond to weather alerts: when monitoring a weather channel; when stopping on a selected weather channel during scanning modes; while operating on another working channel; or while listening in the FM Radio mode.

To enable the weather alert function, refer to section “9.1.2 WEATHER ALERT (in USA and Canada only)”.

When an alert is received on a NOAA weather channel, scanning will stop and the transceiver will emit a loud beep to alert the user of a NOAA broadcast. Press any key to stop the alert.
After stopping the beep sound, the weather alert reception confirmation screen will appear. Press any key to display a confirmation screen. The confirmation screen will ask whether to move to the weather channel, or return to the marine channel. Press [YES] to switch to the weather channel, or press [NO] to return to the marine channel.

NOTE
If no key is pressed the alert will sound for 5 minutes and then the weather report will be received.

8.7.2 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 transceiver periodically to confirm that the Weather Alert feature is working, or for training crew members on how to configure the transceiver to receive the NOAA Weather Alerts.

8.8 PRESET CHANNELS: INSTANT ACCESS
10 preset channels can be programmed for instant access. Press one of the soft keys. Press the [◄] or [►] key repeatedly, then press the [P-SET] soft key. Pressing the [P-SET] key activates the user assigned channel bank. If the [P-SET] soft key is pressed and no preset channels have been assigned, an alert beep will be emitted from the speaker.

8.8.1 PROGRAMMING PRESET CHANNEL BANKS
1. Select the desired channel to be assigned into the Preset Channel Bank using the [▲] or [▼] key.
2. Press one of the soft keys.
3. Press the [◄] or [►] key repeatedly, until the [P-SET] soft key is displayed at the bottom of the LCD.
4. Press and hold the [P-SET] soft key until the “P-SET” icon and channel number are blinking.
5. Press the [ADD] soft key to program the channel into the preset channel memory. “P-SET” icon will appear.
6. Repeat steps 1 through 5 to program the additional channels into the preset channels. Up to 10 channels can be registered. If you attempt to register an 11th channel, the error beep will sound.

8.8.2 OPERATION on a Preset Channel
1. Press one of the soft keys.
2. Press the [◄] or [►] key repeatedly, until the [P-SET] soft key is displayed at the bottom of the LCD.

   ![Image of LCD displaying "P-SET"]

3. Press the [P-SET] soft key, then press the [▲] or [▼] key to select the desired preset channel.

   ![Image of LCD displaying a preset channel selection]

4. To return to the previous operation channel, press one of the soft keys, then press the [P-SET] soft key. The “P-SET” icon will disappear from the display.

8.8.3 Deleting a Preset Channel
1. Press one of the soft keys.
2. Press the [◄] or [►] key repeatedly, until the [P-SET] soft key is displayed at the bottom of the LCD.

   ![Image of LCD displaying "P-SET"]

3. Press the [P-SET] soft key, then press the [▲] or [▼] key to select the preset channel to be deleted.

   ![Image of LCD displaying a selected preset channel]

4. Press one of the soft keys, then press and hold the [P-SET] soft key until the “P-SET” icon and channel number are blinking.

   ![Image of LCD with blinking "P-SET" icon and channel number]

5. Press the [DEL] soft key to delete the channel from the preset channel memory.
6. To exit from the preset channels delete operation, press the [BACK] soft key.

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8.9 SCANNING

The HX210 provides two types of scanning, “Memory Scan” or “Priority Scan”. “Memory Scan” scans the channels that were programmed into Scan Memory and also channels stored in the Preset Channel memory. “Priority Scan” is similar to the “Memory Scan” scan, however it scans the priority channel (channel 16) and dual watches to channels programmed in memory scan and preset channel 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.

8.9.1 PROGRAMMING SCAN MEMORY
1. Press and hold the [MENU/SET] key.
2. Press the [▲] or [▼] key to select “CHANNEL SETUP”.
3. Press the [SELECT] soft key, then press the [▲] or [▼] key to select “SCAN MEMORY”.
4. Press the [SELECT] soft key.
5. Press the [▲] or [▼] key to select a desired channel to be scanned, then press the [MEM] soft key. The “ON” icon will appear at the right side of the selected channel.
6. Repeat step 5 for all the desired channels to be scanned.
7. To REMOVE a channel from the list, select the channel then press the [MEM] soft key. The “ON” icon of the selected channel will disappear.
8. When the selections are complete, press the [CLR] key to return to radio operation.

To check channels to be scanned, press the [▲] or [▼] key repeatedly, to display each channel. The “MEM” icon will appear when a designated memory channel is displayed.

8.9.2 SELECTING SCAN TYPE
1. Press and hold the [MENU/SET] key.
2. Press the [▲] or [▼] key to select “CHANNEL SETUP”.
3. Press the [SELECT] soft key, then select “SCAN TYPE” with the [▲] or [▼] key.
4. Press the [SELECT] soft key.
5. Press the [▲] or [▼] key to select “M-SCAN” or “P-SCAN”.
6. Press the [ENTER] soft key to store the selected setting.
7. Press the [CLR/On] key to return to radio operation.
8.9.3 SCANNING OPERATION

Memory Scanning (M-SCAN)

1. Set the scan type to “M-SCAN” in the SETUP menu (refer to “8.9.2 SELECTING SCAN TYPE”).
2. Press the [SQL] switch, then press the [▲] or [▼] key until the squelch background noise disappears.
3. Press one of the soft keys.
4. Press the [▲] or [▼] key repeatedly, until the [SCAN] soft key is displayed at the bottom of the LCD.
5. Press the [SCAN] soft key. “MEM SCAN” will appear on the display. Scanning will proceed from the lowest to the highest programmed channel number and preset channel (described in the next section). Scanning will stop on a channel when a transmission is received. The channel number will blink during reception.

Priority Scanning (P-SCAN)

1. Set the scan type to “P-SCAN” in the SETUP menu (refer to “8.9.2 SELECTING SCAN TYPE”).
2. Press the [SQL] switch, then press the [▲] or [▼] key until the squelch background noise disappears.
3. Press one of the soft keys.
4. Press the [▲] or [▼] key repeatedly, until the [SCAN] soft key is displayed at the bottom of the LCD.
5. Press the [SCAN] soft key. “PRI SCAN” appears on the display. Scanning will proceed between memory channels, the preset channels, and the priority channel.
   The priority channel will be scanned after each programmed channel.
8.10 MULTI WATCH (TO PRIORITY CHANNEL)

Multi watch is used to scan two or three channels for communications.

- In Dual Watch, a normal VHF channel (or an FM broadcast frequency*), and the priority channel, are scanned alternately.
- In Triple Watch, a normal VHF channel (or an FM broadcast frequency*), the priority channel, and the sub channel are scanned sequentially.

*(Start the Dual Watch function or the Triple Watch function, then start receiving the FM broadcast radio. (Refer to section “8.11 Listening to the FM Broadcast Radio”). The “D” or “T” icon will appear on the FM radio reception screen.)

When a signal is received on the normal channel the radio briefly switches between the normal channel and the priority channel to look for a transmission. If the radio receives communications on the priority channel the radio stops and listens to the priority channel until communication ends and then starts dual or triple watch scan again.

NOTE

The priority channel and sub channel may be changed from CH16 (default) and CH9 (default) to other channels. Refer to section “PRIORITY CH” or “SUB CH” (see page 28 for details).

8.10.1 Setting up the Multi Watch Operation

1. Press and hold the [MENU/SET] key.
2. Press the [▲] or [▼] key to select “CHANNEL SETUP”.
3. Press the [SELECT] soft key, then select “MULTI WATCH” with the [▲] or [▼] key.
4. Press the [SELECT] soft key.
5. Press the [▲] or [▼] key to select “DUAL” or “TRIPLE”.

DUAL (Dual Watch): The HX210 watches the activity of the current channel and the priority channel.

TRIPLE (Triple Watch): The HX210 watches the activity of the priority channel, the sub channel, and the current channel.

6. Press the [ENTER] soft key to store the selected setting.
7. Press the [CLR/□] key to return to radio operation.

8.10.2 Starting the Dual Watch

1. Press the [SQL] switch, then press the [▲] or [▼] key until the background squelch noise disappears.
2. Press the [▲] or [▼] key to select a channel you wish to dual watch.
3. Press one of the soft keys.
4. Press the [◄] or [►] key repeatedly, until the [DW] soft key is displayed at the bottom of the LCD.
5. Press the [DW] soft key. The radio will monitor the priority channel and the working channel that were selected in step 2.

6. While a signal is received on the channel selected in step 2, the HX210 will dual watch to the priority channel periodically.
7. To stop dual watch, press the [CLR/On] key.

8.10.3 Starting the Triple Watch
You may change the Dual Watch feature to Triple Watch via the Menu (“Set”) Mode. Triple Watch scans the priority channel, the sub channel, and one working channel.

1. Press the [▲] or [▼] key to select the working channel to scan along with the sub channel and the priority channel.
2. Press one of the soft keys.
3. Press the [◄] or [►] key repeatedly, until the [TW] soft key is displayed at the bottom of the LCD.
4. Press the [TW] soft key to activate the Triple Watch feature.

5. When a transmission is received on the priority channel, the HX210 will remain on the priority channel until the incoming signal disappears.
6. When a transmission is received on the sub channel, the HX210 will Dual watch the priority channel and the sub channel.
7. When the HX210 receives a transmission on the working channel, the HX210 will Triple Watch between the working channel, the priority channel, and sub channel.
8. To stop Triple watch, press the [CLR/On] key.

8.11 Listening to the FM Broadcast Radio
The HX210 includes provision for FM broadcast reception.

1. Press the [MENU/SET] key to display MENU screen, then press the “RADIO” soft key. The FM broadcast coverage is 65.000 to 108.000 MHz (100 kHz step) and utilizes Wide-FM mode.
2. Press the [▲] or [▼] key to select the desired frequency.

3. To exit from the FM Broadcast Reception mode, press the [MENU/SET] key to display the MENU screen, then press the [CH] soft key. The transceiver will revert to the channel in use prior to switching to the FM Broadcast band.

### 8.11.1 FM broadcast Frequency sweep operation

1. Recall the FM Broadcast Reception mode (see above).
2. Press the [SWEEP] soft key to start sweep operation.
   - Sweeping will proceed from the lowest to the highest frequencies (step 100 kHz).
   - If the radio receives an FM station, the sweep will stop on the received frequency.
3. To cancel sweep operation, press the [▲] or [▼] key.

### 8.11.2 Store the FM frequency

1. While listening in the FM Broadcast receive mode, select the desired FM frequency.
2. Press the [MEM] soft key to display the “ADD” screen.
3. Press the [SELECT] soft key.
4. Press the [▲] or [▼] key to scroll through the letters and choose the first letter of the name for the FM frequency.
5. Press the [SELECT] soft key to store the first letter of the name and step to the next letter to the right.
6. Repeat steps 4 and 5 until the name is complete. The name can consist of up to twelve characters, and if you do not use all twelve characters, press the [►] key to move to the next spaces. This method can also be used to enter a blank space within the name.
   - If a mistake was made entering in the name, press the [◄] or [►] soft key until the wrong character is selected, then perform steps 4 and 5.
7. When the twelve letters or spaces have been entered, select “FINISH”. Press the [ENTER] soft key to store the FM frequency.
   - To return the input, press the[◄] or [►] key.

### 8.11.3 Memory Frequency Recall

1. Press the [NEXT] soft key to recall the Last displayed FM broadcast memory.
2. Then press the [NEXT] soft key repeatedly to step sequentially through the FM broadcast memories.
8.12 Soft Keys
The soft key functions may be reconfigured, and the duration time of the soft key icon display, after a key is pressed, can be changed.

8.12.1 Key Assignment
1. Press and hold the [MENU/SET] key.
2. Press the [▲] or [▼] key to select “CONFIG”, then press the [SELECT] soft key.
3. Select “KEY SETUP” with the [▲] or [▼] key, then press the [SELECT] soft key.
4. Select “ASSIGNMENT” with the [▲] or [▼] key, then press the [SELECT] soft key.
5. Press the [▲] or [▼] key to select the key number to be programmed, and press the [ENTER] soft key.
6. Press the [▲] or [▼] key to select a new function to be assigned to the soft key, and press the [ENTER] soft key. Available functions are listed below.

7. Press the [CLR/On] key to return to radio operation.

<table>
<thead>
<tr>
<th>Display</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>HI/MD/LO</td>
<td>Selects transmit power.</td>
</tr>
<tr>
<td>DW/TW</td>
<td>Turns dual or triple watch scan ON/OFF.</td>
</tr>
<tr>
<td>MEMORY</td>
<td>Add or remove channels from memory channel scan.</td>
</tr>
<tr>
<td>SCAN</td>
<td>Turns the scanning function ON/OFF.</td>
</tr>
<tr>
<td>PRESET</td>
<td>Programs or deletes the preset memory channel.</td>
</tr>
<tr>
<td>STROBE</td>
<td>Turns on or off the strobe light LED.</td>
</tr>
</tbody>
</table>

8.12.2 Key Timer
1. Press and hold the [MENU/SET] key.
2. Press the [▲] or [▼] key to select “CONFIG”, then press the [SELECT] soft key.
3. Select “KEY SETUP” with the [▲] or [▼] key, then press the [SELECT] soft key.
4. Select “KEY TIMER” with the [▲] or [▼] key, then press the [SELECT] soft key.
5. Press the [▲] or [▼] key to select the desired time, and press the [ENTER] soft key.

6. Press the [CLR/On] key to return to radio operation.
9. MENU ("SETUP")

The HX210’s Menu Mode allows enabling a number of the HX210 operating parameters to be custom-configured.

Use the following procedure to activate and set the Menu Mode parameters:
1. Press and hold the [MENU/SET] key.
2. Press the [▲] or [▼] key to select the desired menu item, then press the [SELECT] soft key.
3. Press the [▲] or [▼] key to select the desired menu item, then press the [SELECT] soft key.
4. Press the [▲] or [▼] key to select the desired setting.
5. Press the [ENTER] soft key to store the selected setting.
6. Press the [CLR/On] key to return to radio operation.

9.1 CHANNEL SETUP

9.1.1 CHANNEL GROUP
This menu item enables changing the channel group from International channels, to USA channels, or Canada channels.
Refer to the section “8.5 CHANNEL GROUP” for details.

9.1.2 WEATHER ALERT (in USA and Canada only)
Enables/disables the NOAA Weather Alert function. The default setting is “OFF”.
1. Press and hold the [MENU/SET] key.
2. Press the [▲] or [▼] key to select “CHANNEL SETUP”, then press the [SELECT] soft key.
3. Select “WEATHER ALERT” with the [▲] or [▼] key, then press the [SELECT] soft key.
4. Press the [▲] or [▼] key to select “ON” or “OFF”.
5. Press the [ENTER] soft key to store the new setting.
6. Press the [CLR/On] key to return to radio operation.

9.1.3 SCAN MEMORY
Before scanning can begin, the desired scan channels must be programmed. This selection allows channels to be stored to the scan memory.
Refer to the section “8.9.1 PROGRAMMING SCAN MEMORY” for details.

9.1.4 SCAN TYPE
This selection is used to change the scan mode between “M-SCAN” (Memory Scan) and “P-SCAN” (Priority Scan). The default setting is “P-SCAN”.
Refer to section “8.9.2 SELECTING SCAN TYPE” for details.
9.1.5 SCAN RESUME
This selection is used to select the time the HX210 waits after a transmission ends before the radio starts to scan channels again. The default setting is 2 seconds.

1. Press and hold the [MENU/SET] key.
2. Press the [▲] or [▼] key to select "CHANNEL SETUP", then press the [SELECT] soft key.
3. Select "SCAN RESUME" with the [▲] or [▼] key, then press the [SELECT] soft key.
4. Press the [▲] or [▼] key to select the desired time. The resume time can be set to "1 sec" through "5 sec".
5. Press the [ENTER] soft key to store the new setting.
6. Press the [CLR/Off] key to return to radio operation.

9.1.6 MULTI WATCH
This selection is used to choose between “Dual Watch” and “Triple Watch”. Refer to section “8.10.1 Setting up the Multi Watch Operation” for details.

9.1.7 PRIORITY CH
This procedure may be used to designate a different priority channel when priority scanning. By default, the radio priority channel is set to Channel 16.

1. Press and hold the [MENU/SET] key.
2. Press the [▲] or [▼] key to select "CHANNEL SETUP", then press the [SELECT] soft key.
3. Select "PRIORITY CH" with the [▲] or [▼] key, then press the [SELECT] soft key.
4. Press the [▲] or [▼] key to select the desired channel to be a priority.
5. Press the [ENTER] soft key to store the new setting.
6. Press the [CLR/Off] key to return to radio operation.

9.1.8 SUB CH
By default, the sub channel is set to Channel 9. This procedure allows the radio to assign a different sub channel for instant access.

1. Press and hold the [MENU/SET] key.
2. Press the [▲] or [▼] key to select "CHANNEL SETUP", then press the [SELECT] soft key.
3. Select "SUB CH" with the [▲] or [▼] key, then press the [SELECT] soft key.
4. Press the [▲] or [▼] key to select the desired channel to be the sub channel.

5. Press the [ENTER] soft key to store the new setting.

6. Press the [CLR/On] key to return to radio operation.

9.2 FM SETUP

9.2.1 ADD

1. Press and hold the [MENU/SET] key.

2. Press the [▲] or [▼] key to select “FM SETUP”, then press the [SELECT] soft key.

3. Press the [▲] or [▼] key to select “ADD”, then press the [SELECT] soft key.

4. Press the [▲] or [▼] key to select “FREQ”, then press the [SELECT] soft key.

5. Press the [▲] or [▼] key to scroll through the first position numbers of the frequency.

6. Press the [SELECT] soft key to store the first number in the frequency and step to the next position to the right.

7. Repeat steps 5 and 6 until the frequency is complete. If a mistake was made entering in the frequency, press the [◄] or [►] soft key until the wrong entry is selected, then perform steps 5 and 6.

8. After the four numbers have been entered, press the [SELECT] soft key, then press the [ENTER] soft key to save and exit to the “ADD” soft key.

9. Press the [▼] key, then press the [SELECT] soft key.

10. Press the [▲] or [▼] key to scroll through the first letter of the name of the frequency.

11. Press the [SELECT] soft key to store the first letter in the name and step to the next position to the right.

12. Repeat steps 10 and 11 until the name is complete. The name can consist of up to twelve characters. If you do not use all twelve characters, press the [►] key to move to the next space. This method can also be used to enter a blank space in the name. If a mistake was made entering in the name, press the [◄] or [►] soft key until the wrong character is selected, then perform steps 10 and 11.

13. After the twelve letters or spaces have been entered, press the [SELECT] soft key, then press the [ENTER] soft key to save and exit to radio operation.
9.2.2 EDIT
This selection is used to edit the FM Broadcast frequency and name.
1. Press and hold the [MENU/SET] key.
2. Press the [▲] or [▼] key to select “FM SETUP”, then press the [SELECT] soft key.
3. Press the [▲] or [▼] key to select “EDIT”, then press the [SELECT] soft key.
4. Press the [▲] or [▼] key to select the memory to be edited, then press the [ENTER] soft key.
   
5. Use the same procedure as described in steps 4 to 13 of “ADD” in the previous section.

9.2.3 DELETE
This selection can delete the frequency data stored on an FM Broadcast memory.
1. Press and hold the [MENU/SET] key.
2. Press the [▲] or [▼] key to select “FM SETUP”, then press the [SELECT] soft key.
3. Press the [▲] or [▼] key to select “DELETE”, then press the [SELECT] soft key.
4. Press the [▲] or [▼] key to select the memory to be deleted, then press the [ENTER] soft key.
   The delete confirmation screen will appear.
5. Press the [▲] or [▼] key to select “OK?” (delete) or “CANCEL” (cancel), then press the [SELECT] soft key.

9.3 CONFIG
9.3.1 KEY BEEP
This selection is used to select the beep tone volume level when a key is pressed.
1. Press and hold the [MENU/SET] key.
2. Press the [▲] or [▼] key to select “CONFIG”, then press the [SELECT] soft key.
3. Select “KEY BEEP” with the [▲] or [▼] key, then press the [SELECT] soft key.
4. Press the [▲] or [▼] key to select the desired level. The beep level can be set from “1” to “5”, or “OFF”.

5. Press the [ENTER] soft key to store the selected level.

6. Press the [CLR/On] key to return to radio operation.

9.3.2 BATTERY SAVE
This function allows you to change the battery save mode setting.
1. Press and hold the [MENU/SET] key.
2. Press the [▲] or [▼] key to select “CONFIG”, then press the [SELECT] soft key.
3. Select “BATTERY SAVE” with the [▲] or [▼] key, then press the [SELECT] soft key.
4. Press the [▲] or [▼] key to select the desired setting. You can select one from “OFF”, “50%”, “70%”, “80%”, or “90%”.
5. Press the [ENTER] soft key to store the selected setting.
6. Press the [CLR/On] key to return to radio operation.

9.3.3 STROBE LED
This selection is used to switch and set the function of the strobe LED.

Emergency
1. Press and hold the [MENU/SET] key.
2. Press the [▲] or [▼] key to select “CONFIG”, then press the [SELECT] soft key.
3. Select “STROBE LED” with the [▲] or [▼] key, then press the [SELECT] soft key.
4. Select “EMERGENCY” with the [▲] or [▼] key, then press the [SELECT] soft key.
5. Press the [▲] or [▼] key to select the desired setting. You can select one from “CONTINUOUS”, “SOS”, “BLINK 1”, “BLINK 2”, or “BLINK 3”.
6. Press the [ENTER] soft key to store the selected setting.
7. Press the [CLR/On] key to return to radio operation.
**Water Hazard**

1. Press and hold the [MENU/SET] key.
2. Press the [▲] or [▼] key to select “CONFIG”, then press the [SELECT] soft key.
3. Select “STROBE LED” with the [▲] or [▼] key, then press the [SELECT] soft key.
4. Select “WATER HAZARD” with the [▲] or [▼] key, then press the [SELECT] soft key.
5. Press the [▲] or [▼] key to select the desired setting. You can select one from “OFF”, “ON”, or “ON/PWR ON”.
   - **OFF**: The LED does not light up.
   - **ON**: The LED lights up.
   - **ON/PWR ON**: The LED lights up and the transceiver turns on even if the transceiver is OFF.
6. Press the [ENTER] soft key to store the selected level.
7. Press the [CLR/On] key to return to radio operation.

### 9.3.4 KEY SETUP

The function assigned to the function screen Soft Keys can be changed (see page 26 “8.12 Soft Keys”).

### 9.3.5 BACKLIT LEVEL

The backlight brightness may be adjusted in 5 levels.

1. Press and hold the [MENU/SET] key.
2. Press the [▲] or [▼] key to select “CONFIG”, then press the [SELECT] soft key.
3. Select “BACKLIT LEVEL” with the [▲] or [▼] key, then press the [SELECT] soft key.
4. Press the [▲] or [▼] key to select the desired setting, from “1” to “5”, or “OFF”.
5. Press the [ENTER] soft key to store the selected level.
6. Press the [CLR/On] key to return to radio operation.
9.3.6 BACKLIT TIMER
This menu selection is used to setup the illumination time of the display and keypad.
1. Press and hold the [MENU/SET] key.
2. Press the [▲] or [▼] key to select “CONFIG”, then press the [SELECT] soft key.
3. Select “BACKLIT TIMER” with the [▲] or [▼] key, then press the [SELECT] soft key.
4. Press the [▲] or [▼] key to select the desired time.
   OFF: Disables the display/keypad lamp illumination.
   3/5/10/30 Sec: Illuminates the display/keypad for the selected time when any key (except the PTT switch) is pressed.
   CONTINUOUS: Illuminates the display/keypad continuously.
5. Press the [ENTER] soft key to store the selected level.
6. Press the [CLR/Off] key to return to radio operation.

9.3.7 CONTRAST
The contrast may be adjusted in 30 levels.
1. Press and hold the [MENU/SET] key.
2. Press the [▲] or [▼] key to select “CONFIG”, then press the [SELECT] soft key.
3. Select “CONTRAST” with the [▲] or [▼] key, then press the [SELECT] soft key.
4. Press the [▲] or [▼] key to select the desired level. The contrast level can be set from “1” to “30” (“15” is default).
5. Press the [ENTER] soft key to store the selected level.
6. Press the [CLR/Off] key to return to radio operation.

9.3.8 RESET
The memories and settings of each setup category may be initialized independently, or the transceiver may be reset to the original factory settings.
1. Press and hold the [MENU/SET] key.
2. Press the [▲] or [▼] key to select “CONFIG”, then press the [SELECT] soft key.
3. Select “RESET” with the [▲] or [▼] key, then press the [SELECT] soft key.
4. Press the [▲] or [▼] key to select the desired category from: “CHANNEL”, “CONFIG”, or “ALL” (all settings except the ATIS will be initialized).

5. Press the [SELECT] soft key.

6. Press the [▲] or [▼] key to select “OK?”, then press the [ENTER] soft key.

9.4 ABOUT...
Displays the version of the software currently operating on the transceiver.
10. ATIS SETUP (HX210E only)

The HX210E supports the ATIS (Automatic Transmitter Identification System) used in Inland waterways in Europe. When enabled ATIS mode transmits a unique ATIS code each time the PTT switch is released at the end of a transmission.

Users should check with their local marine regulatory authority in their country for assistance in obtaining an ATIS code.

**WARNING**

The ATIS code can be inputted only once, please be careful not to input the incorrect ATIS code. If you need to change the ATIS code after it has been entered, the radio will have to be returned to Factory Service. Refer to the section “11.2 FACTORY SERVICE”.

10.1 ATIS CODE PROGRAMMING

1. Press and hold the [MENU/SET] key to display “MENU”.
2. Press the [▲] or [▼] key to select “ATIS SETUP”, then press the [SELECT] soft key.
3. Press the [▲] or [▼] key to select “ATIS CODE”, then press the [SELECT] soft key.
4. Press the [▲] or [▼] key to select the first number of your ATIS, then press the [SELECT] soft key to step to the next number.

![ATIS Code Input Screen](image)

5. Repeat step 4 to set your ATIS (ten digits).
6. If a mistake was made entering in the ATIS, press the [DEL] soft key until the wrong number is deleted, then perform step 4.
7. When finished programming the number, press the [ENTER] soft key.
8. The Radio will ask you to input the ATIS number again. Perform steps 4 through 6 above.
9. After the second number has been input, press the [ENTER] soft key to store the ATIS number in memory.
10. Press the [OK] soft key to return to radio operation.
10.2 ATIS CH GROUP

The HX210E has the capability to turn on and off the ATIS feature for each channel group.

1. Press and hold the [MENU/SET] key to display “MENU”.
2. Press the [▲] or [▼] key to select “ATIS SETUP”, then press the [SELECT] soft key.
3. Press the [▲] or [▼] key to select “ATIS GROUP”, then press the [SELECT] soft key.
4. Press the [▲] or [▼] key to select the channel group (International, Canadian, or USA) you wish to change the setting, and press the [ENTER] soft key.
5. Press the [▲] or [▼] key to select “ON” or “OFF”.
6. Press the [ENTER] soft key to save the new setting.
7. If you want to set the ATIS feature to another channel group, repeat step 4 through 6.
8. Press the [CLR/On] key to return to radio operation.
11. MAINTENANCE

11.1 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:

- Never key the microphone unless an antenna or suitable dummy load is connected to the transceiver.
- Use only STANDARD HORIZON-approved accessories and replacement parts.

11.2 FACTORY SERVICE
In the unlikely event that the radio fails to perform or needs servicing, please contact one of the following:

In USA and Canada
Standard Horizon
Attention Marine Repair Department
6125 Phyllis Drive, Cypress, California 90630, U.S.A.
Telephone (800) 366-4566

In Europe
Yaesu (UK) Ltd
Unit 12, Sun Valley Business Park, Winnall Close
Winchester, Hampshire, SO23 0LB, U. K.
Telephone +44 (0)1962 866667

In Other Countries
Contact the dealer or the distributor.

11.3 TROUBLESHOOTING CHART

<table>
<thead>
<tr>
<th>SYMPTOM</th>
<th>PROBABLE CAUSE</th>
<th>REMEDY</th>
</tr>
</thead>
<tbody>
<tr>
<td>The USA/INTL/CAN modes do not function.</td>
<td>Proper operation not followed.</td>
<td>Specify the item number from “SETUP MENU” – “CHANNEL SETUP” – “CHANNEL GROUP”.</td>
</tr>
<tr>
<td>Cannot output sound by pressing and holding the SQL key.</td>
<td>Low battery.</td>
<td>Charge battery. Refer to section 6.1 of this manual.</td>
</tr>
<tr>
<td></td>
<td>Audio volume level is too low.</td>
<td>Press the [VOL+] key until background noise outputs.</td>
</tr>
<tr>
<td>Charge indicator does not appear on the display when charging a battery.</td>
<td>Defective built-in battery.</td>
<td>Contact Standard Horizon dealer.</td>
</tr>
<tr>
<td></td>
<td>The transceiver is not set onto the SBH-25 Charger Cradle properly.</td>
<td>Set the transceiver onto the SBH-25 Charger Cradle properly.</td>
</tr>
<tr>
<td></td>
<td>Power is not supplied to the SBH-25 Charger Cradle.</td>
<td>Connect SAD-25/SAD-23 or E-DC-19A to the SBH-25 Charger Cradle for AC/DC power supplies.</td>
</tr>
<tr>
<td>Cannot turn the transceiver OFF. The transceiver is unresponsive to keypad operation.</td>
<td>The Micro Computer has frozen.</td>
<td>Press and hold the POWER switch for over 15 seconds to restart the transceiver.</td>
</tr>
</tbody>
</table>
## 12. VHF MARINE CHANNEL ASSIGNMENTS

### 12.1 HX210 (USA Version)

<table>
<thead>
<tr>
<th>CH</th>
<th>U</th>
<th>C</th>
<th>I</th>
<th>S/D</th>
<th>TX</th>
<th>RX</th>
<th>CHANNEL USE</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>X</td>
<td>X</td>
<td>D</td>
<td></td>
<td>156.050</td>
<td>160.650</td>
<td>Public Correspondence (Marine Operator)</td>
</tr>
<tr>
<td>1001</td>
<td>X</td>
<td></td>
<td>S</td>
<td></td>
<td>156.050</td>
<td></td>
<td>Port Operation and Commercial. VTS in selected areas</td>
</tr>
<tr>
<td>02</td>
<td>X</td>
<td>X</td>
<td>D</td>
<td></td>
<td>156.100</td>
<td>160.700</td>
<td>Public Correspondence (Marine Operator)</td>
</tr>
<tr>
<td>03</td>
<td>X</td>
<td>X</td>
<td>D</td>
<td></td>
<td>156.150</td>
<td>160.750</td>
<td>Public Correspondence (Marine Operator)</td>
</tr>
<tr>
<td>1003</td>
<td>X</td>
<td></td>
<td>S</td>
<td></td>
<td>156.150</td>
<td></td>
<td>U.S. Government Only, Coast Guard</td>
</tr>
<tr>
<td>04</td>
<td>X</td>
<td>D</td>
<td></td>
<td></td>
<td>156.200</td>
<td>160.800</td>
<td>Public Correspondence (Marine Operator), Port operation, ship movement</td>
</tr>
<tr>
<td>1004</td>
<td>X</td>
<td></td>
<td>S</td>
<td></td>
<td>156.200</td>
<td></td>
<td>Pacific coast: Coast Guard, East Coast: Commercial fishing</td>
</tr>
<tr>
<td>05</td>
<td>X</td>
<td>X</td>
<td>D</td>
<td></td>
<td>156.250</td>
<td>160.850</td>
<td>Public Correspondence (Marine Operator), Port operation, ship movement</td>
</tr>
<tr>
<td>1005</td>
<td>X</td>
<td></td>
<td>S</td>
<td></td>
<td>156.250</td>
<td></td>
<td>Port operation. VTS in Seattle</td>
</tr>
<tr>
<td>06</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>S</td>
<td></td>
<td>156.300</td>
<td>Inter-ship Safety</td>
</tr>
<tr>
<td>07</td>
<td>X</td>
<td>D</td>
<td></td>
<td></td>
<td>156.350</td>
<td>160.950</td>
<td>Public Correspondence (Marine Operator), Port operation, ship movement</td>
</tr>
<tr>
<td>1007</td>
<td>X</td>
<td></td>
<td>S</td>
<td></td>
<td>156.350</td>
<td></td>
<td>Commercial</td>
</tr>
<tr>
<td>08</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>S</td>
<td></td>
<td>156.400</td>
<td>Commercial (Inter-ship only)</td>
</tr>
<tr>
<td>09</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>S</td>
<td></td>
<td>156.450</td>
<td>Boater Calling channel, Commercial &amp; Non-commercial (Recreational)</td>
</tr>
<tr>
<td>10</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>S</td>
<td></td>
<td>156.500</td>
<td>Commercial</td>
</tr>
<tr>
<td>11</td>
<td>X</td>
<td>X</td>
<td>S</td>
<td></td>
<td>156.550</td>
<td></td>
<td>Commercial. VTS in selected areas.</td>
</tr>
<tr>
<td>12</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>S</td>
<td></td>
<td>156.600</td>
<td>Port operation. VTS in selected areas.</td>
</tr>
<tr>
<td>13</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>S</td>
<td></td>
<td>156.650</td>
<td>Inter-ship Navigation Safety (Bridge-to-bridge)</td>
</tr>
<tr>
<td>14</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>S</td>
<td></td>
<td>156.700</td>
<td>Port operation. VTS in selected areas.</td>
</tr>
<tr>
<td>15</td>
<td>X</td>
<td></td>
<td>S</td>
<td></td>
<td>- - -</td>
<td>156.750</td>
<td>Environmental (Receive only)</td>
</tr>
<tr>
<td>15</td>
<td>X</td>
<td>X</td>
<td>S</td>
<td></td>
<td>156.750</td>
<td></td>
<td>Commercial, non-commercial, ship movement (1 W)</td>
</tr>
<tr>
<td>16</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>S</td>
<td></td>
<td>156.800</td>
<td>International Distress, Safety and Calling</td>
</tr>
<tr>
<td>17</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>S</td>
<td></td>
<td>156.850</td>
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<td>–</td>
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**Note:**
- **LOW** indicates low power usage.
- **DUPLEX** indicates duplex communication.
- **SIMPLEX** indicates simplex communication.
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<th>CH</th>
<th>TX (MHz)</th>
<th>RX (MHz)</th>
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<td>All countries (except Germany)</td>
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<td>–</td>
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**NOTE**  Country Channel assignment are different depending on the region.

*1: Channel 31 is assigned to only BELGIUM and NETHERLAND.
*2: Channel 37 is assigned to only NETHERLAND.
*3: Channel M and M2 are assigned to only UNITED KINGDOM.
*4: LOW Power setting for BELGIUM, NETHERLAND and GERMANY.
*5: Channel L1, L2, L3, F1, F2 and F3 are assigned to only SWEDEN.
*6: LOW Power setting for GERMANY.
13. SPECIFICATIONS

Performance specifications are nominal, unless otherwise indicated, and are subject to change without notice. Measurements*1 are in accordance with TIA/EIA-603 (U.S.A.) and EN301 178 (EXP).

*1 (Except the FM Broadcast Receiver)

● GENERAL
Frequency Ranges ................................................................. TX: 156.025 MHz - 161.600 MHz (Frequency differs in some regions) RX: 156.050 MHz - 163.275 MHz (International, Including WX channels)
Channel Spacing ........................................................................................................................................... 25 kHz
Frequency Stability ................................................................. ±3 ppm (–20°C to +60°C)
Emission Type .................................................................................................................................. 16K0G3E
Antenna Impedance ................................................................. 50 Ω
Operating Voltage ................................................................. 7.4 V DC, Negative Ground
Current Consumption .......................................................... 330 mA (Receive, Typical at AF MAX.)
....................................................................................................................................................................................... 100 mA (Standby)
....................................................................................................................................................................................... 1.6 A / 1.0 A / 0.7 A (TX: 6 W (5 W)*2 / 2.5 W / 1 W)
Operating Temperature ............................................................ –20°C to +60°C
Case Size (W x H x D) .................................................. 2.36” x 5.20” x 1.57” (60 mm x 132 mm x 40 mm) (w/o knob & antenna)
Weight (Approx.): ...............................................................9.88 oz (280 g) (with hand strap, belt clip & antenna)

● TRANSMITTER
RF Power Output ................................................................. 6 W (5 W)*2 / 2.5 W / 1 W (@7.4 V )
Maximum Deviation ................................................................. ±5 kHz
Spurious Emission ................................................................. Less than 0.25 µW
Microphone Impedance ................................................................. 2 kΩ

*2 (5 W TX required in Some Countries)

● RECEIVER
Circuit Type ................................................................. Double Conversion Superheterodyne
Intermediate Frequencies .................................................. 1st: 38.85 MHz, 2nd: 450 kHz
Adjacent Channel Selectivity ................................................................. 70 dB typical
Intermodulation ................................................................................................................................. 70 dB typical (U.S.A)
....................................................................................................................................................................................... 68 dB typical (EXP)
Hum & Noise Ratio: ................................................................. 40 dB typical
Sensitivity: ................................................................................................................................. 0.25 µV for 12 dB SINAD (U.S.A.)
.................................................................................................................................................................................. -5 dBµ for 20 dB SINAD (EXP)
Selectivity: ................................................................. 12 kHz / 25 kHz (–6 dB / –60 dB)
AF Output (Internal SP) ................................................................. 600 mW @16 Ω for 10 % THD (@7.4 V)

● FM BROADCAST RECEIVER
Frequency Range: ................................................................. 65 MH z - 108 MHz
Frequency Step: ................................................................. 100 kHz
Sensitivity: ................................................................. 1.0 µV for 12 dB SINAD

Symbols placed on the equipment

existent Direct current
14. FCC AND CANADA RADIO LICENSE INFORMATION

Standard Horizon radios comply with the Federal Communication Commission (FCC) and the Innovation, Science and Economic Development Canada (ISED) requirements that regulate the Maritime Radio Service.

14.1 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 https://www.fcc.gov/fcc-form-605. To obtain a form from the FCC, call (888) 225-5322.

14.2 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.

14.3 CANADIAN SHIP STATION LICENSING

Please click on the following link for licensing information:

The following link lists several Branches/Offices regarding licensing. Licensing depends on the region of operations.

14.4 FCC / ISED INFORMATION

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

FCC Type Accepted: ................................................................. Part 80
ISED Type Accepted: ............................................................. RSS-182
Output Power with built-in Battery: .................... 1.0/2.5/6.0 W (Low/Mid/High)
Emission: ................................................................................. 16K0G3E
Frequency Range: ............................................................... 156.025 to 162.025MHz
FCC Type Number: ............................................................... K6630613X30
ISED Type Approval: ......................................................... 511B-30613X30
### 15. RF EXPOSURE SAFETY STATEMENT

#### 15.1 SAFETY INFORMATION

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. In August 1996, the Federal Communications Commission adopted RF exposure guidelines with safety levels for hand-held wireless devices.

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

**WARNING:** To maintain compliance with the FCC’s RF exposure guidelines, this transmitter and its antenna must maintain a separation distance of at least 1 inch (2.5 centimeters) 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, and may violate FCC regulations.

#### 15.2 CONSIGNES DE SECURITE

Votre émetteur-récepteur portatif sans fil contient un émetteur à faible puissance. Lorsque vous appuyez sur le bouton Push-to-Talk (PTT), l’émetteur-récepteur émet des signaux de radiofréquence (RF). En août 1996, la FCC (Commission Fédérale des Communications) a adopté des directives relatives à l’exposition aux RF avec des niveaux de sécurité pour les appareils sans fil portatifs. Le fonctionnement de cet appareil est autorisé à un facteur d’utilisation ne dépassant pas 50 % (correspondant à 50% de la durée de transmission et 50% de la durée de réception).

**AVERTISSEMENT:** Pour assurer la conformité avec les directives d’exposition RF de la FCC, cet émetteur-récepteur et son antenne doivent être maintenus à une distance minimum d’un pouce (2,5 centimètre) de votre visage. Parlez avec une voix normale, avec l’antenne dirigée vers le haut et éloignée du visage, à la distance requise. Si vous utilisez un casque pour cette radio, et que vous portez la radio sur vous, utilisez exclusivement le clip de ceinture Yaesu pour cet émetteur-récepteur, et assurez-vous que l’antenne se trouve à une distance minimum d’un pouce (2,5 centimètres) de votre corps pendant l’émission. Utilisez exclusivement l’antenne fournie. Les antennes, les modifications et les accessoires non autorisés peuvent endommager l’émetteur-récepteur et enfreindre les réglementations FCC.
16. FCC NOTICE

NOTICE
Unauthorized changes or modifications to this equipment may void compliance with FCC Rules. Any change or modification must be approved in writing by STANDARD HORIZON, a division of YAESU USA.

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.

NOTE: THE GRANTEE IS NOT RESPONSIBLE FOR ANY CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE. SUCH MODIFICATIONS COULD VOID THE USER’S AUTHORITY TO OPERATE THE EQUIPMENT.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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.

Le présent appareil est conforme aux CNR d'Industry Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l’appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d’en compromettre le fonctionnement.
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.

Le présent émetteur radio (identifier le dispositif par son numéro de certification ou son numéro de modèle s’il fait partie du matériel de catégorie I) a été approuvé par Industry Canada pour fonctionner avec les types d’antenne énumérés ci-dessous et ayant un gain admissible maximal et l’impédance requise pour chaque type d’antenne. Les types d’antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l’exploitation de l’émetteur.

The applicant is responsible for providing proper instructions to the user of the radio device, and any usage restrictions, including limits of exposure durations. The user manual shall provide installation and operation instructions, as well as any special usage conditions, to ensure compliance with SAR and/or RF field strength limits. For instance, compliance distance shall be clearly stated in the user manual.

The user manual of devices intended for controlled use shall also include information relating to the operating characteristics of the device; the operating instructions to ensure compliance with SAR and/or RF field strength limits; information on the installation and operation of accessories to ensure compliance with SAR and/or RF field strength limits; and contact information where the user can obtain Canadian information on RF exposure and compliance. Other related information may also be included.
STANDARD HORIZON Limited Warranty

Limited Warranty is valid only in the country/region where this product was originally purchased.

On-line Warranty Registration:
Thank you for buying STANDARD HORIZON products! We are confident your new radio will serve your needs for many years! Please register your product at [www.standardhorizon.com](http://www.standardhorizon.com) - Owner's Corner

Warranty Terms:
Subject to the Limitations of the Warranty and the Warranty Procedures described below, YAESU MUSEN hereby warrants this product to be free of defects in materials and workmanship in normal use during the “Warranty Period.” (the “Limited Warranty”).

Limitations of Warranty:
A. YAESU MUSEN is not liable for any express warranties except the Limited Warranty described above.
B. The Limited Warranty is extended only to the original end-use purchaser or the person receiving this product as a gift, and shall not be extended to any other person or transferee.
C. Unless a different warranty period is stated with this YAESU product, the Warranty Period is three years from the date of retail purchase by the original end-use purchaser.
D. The Limited Warranty is valid only in the country/region where this product was originally purchased.
E. During the Warranty Period, YAESU MUSEN will, at its sole option, repair or replace (using new or refurbished replacement parts) any defective parts within a reasonable period of time and free of charge.
F. The Limited Warranty does not cover shipping cost (including transportation and insurance) from you to us, or any import fees, duties or taxes.
G. The Limited Warranty does not cover any impairment caused by tampering, misuse, failure to follow instructions supplied with the product, unauthorized modifications, or damage to this product for any reasons, such as: accident; excess moisture; lightning; power surges; connection to improper voltage supply; damage caused by inadequate packing or shipping procedures; loss of, damage to or corruption of stored data; product modification to enable operation in another country/purpose other than the country/purpose for which it was designed, manufactured, approved and/or authorized; or the repair of products damaged by these modifications.
H. The Limited Warranty applies only to the product as it existed at the time of the original purchase, by the original retail purchaser, and shall not preclude YAESU MUSEN from later making any changes in design, adding to, or otherwise improving subsequent versions of this product, or impose upon YAESU MUSEN any obligation to modify or alter this product to conform to such changes, or improvements.
I. YAESU MUSEN assumes no responsibility for any consequential damages caused by, or arising out of, any such defect in materials or workmanship.
J. TO THE FULLEST EXTENT PERMITTED BY LAW, YAESU MUSEN SHALL NOT BE RESPONSIBLE FOR ANY IMPLIED WARRANTY WITH RESPECT TO THIS PRODUCT.
K. If the original retail purchaser timely complies with the Warranty Procedures described below, and YAESU MUSEN elects to send the purchaser a replacement product rather than repair the “original product”, then the Limited Warranty shall apply to the replacement product only for the remainder of the original product Warranty Period.
L. Warranty statutes vary from state to state, or country to country, so some of the above limitations may not apply to your location.

Warranty Procedures:
1. To find the Authorized STANDARD HORIZON Service Center in your country/region, visit [www.standardhorizon.com](http://www.standardhorizon.com). Contact the STANDARD HORIZON Service Center for specific return and shipping instructions, or contact an authorized STANDARD HORIZON dealer/distributor from whom the product was originally purchased.
2. Include proof of original purchase from an authorized STANDARD HORIZON dealer/distributor, and ship the product, freight prepaid, to the address provided by the STANDARD HORIZON Service Center in your country/region.
3. Upon receipt of this product, returned in accordance with the procedures described above, by the STANDARD HORIZON Authorized Service Center, all reasonable efforts will be expended by YAESU MUSEN to cause this product to conform to its original specifications. YAESU MUSEN will return the repaired product (or a replacement product) free of charge to the original purchaser. The decision to repair or replace this product is the sole discretion of YAESU MUSEN.

Other conditions:
YAESU MUSEN’S MAXIMUM LIABILITY SHALL NOT EXCEED THE ACTUAL PURCHASE PRICE PAID FOR THE PRODUCT. IN NO EVENT SHALL YAESU MUSEN BE LIABLE FOR LOSS OF, DAMAGE TO OR CORRUPTION OF STORED DATA, OR FOR SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR INDIRECT DAMAGES, HOW EVER CAUSED; INCLUDING WITHOUT LIMITATION TO THE REPLACEMENT OF EQUIPMENT AND PROPERTY, AND ANY COSTS OF RECOVERING, PROGRAMMING OR REPRODUCING ANY PROGRAM OR DATA STORED IN OR USED WITH THE YAESU PRODUCT.

Some Countries in Europe and some States of the USA do not allow the exclusion or limitation of incidental or consequential damages, or a limitation on how long an implied warranty lasts, so the above limitation or exclusions may not apply. This warranty provides specific rights, there may be other rights available which may vary between countries in Europe or from state to state within the USA. This Limited Warranty is void if the label bearing the serial number has been removed or defaced.
EU Declaration of Conformity

We, Yaesu Musen Co. Ltd of Tokyo, Japan, hereby declare that this radio equipment HX210E is in full compliance with EU Radio Equipment Directive 2014/53/EU. The full text of the Declaration of Conformity for this product is available to view at http://www.yaesu.com/jp/red

ATTENTION – Conditions of usage

This transceiver works on frequencies that are regulated and not permitted to be used without authorisation in the EU countries shown in this table. Users of this equipment should check with their local spectrum management authority for licensing conditions applicable for this equipment.

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Disposal of Electronic and Electrical Equipment

Products with the symbol (crossed-out wheeled bin) cannot be disposed as household waste.

Electronic and Electrical Equipment should be recycled at a facility capable of handling these items and their waste by-products.

Please contact a local equipment supplier representative or service center for information about the waste collection system in your country.