

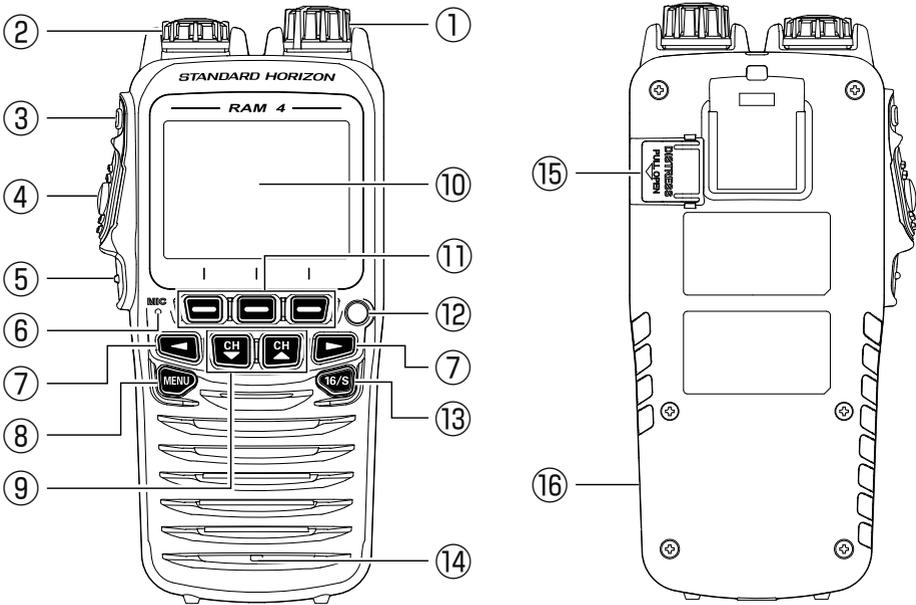
**STANDARD HORIZON***Nothing takes to water like Standard Horizon***SSM-71H****Wireless Remote Station Microphone RAM4W**

The RAM4W (SSM-71H) allows you to remotely control all functions of the enabled Standard Horizon fixed mount VHF radio. The full dot matrix display and programmable keys make operation simple and fast. Additional features include turning the radio on/off and all DSC functions including Distress. The four RAM4W (SSM-71H) can be connected to fixed mount VHF radio with the optional SCU-30 RAM4W Wireless Access Point. The RAM4W (SSM-71H) is backed by an industry leading 3-years waterproof warranty.

**Owner's Manual**

The details of the installation and operation of the **RAM4W (SSM-71H)** is included in the owner's manual of the compatible fixed mount radio, or it can be downloaded at [www.standardhorizon.com](http://www.standardhorizon.com).

## Front and Rear Panel



- ① **Power/VOL knob**  
Press and hold this knob to turn the transceiver and the remote mic on or off.  
Turns the adjusts the speaker volume.
- ② **DIAL/ENT knob**  
While the normal screen is displayed, rotate the **DIAL/ENT** knob to select your desired channel. While the MENU screen is displayed, rotate the knob to select your desired menu item.  
**Secondary use:**  
Press this knob to enter a selection in the MENU.
- ③ **SQL key (Squelch control)**  
Press this key to activate the squelch adjusting mode. Press the **CH▲** or **CH▼** key to adjust the squelch level.
- ④ **PTT (Push-To-Talk) switch**  
Push this switch to enable the transmitter.
- ⑤ **CLEAR/ON key**  
Press this key to cancel a menu selection. Press and hold this key to activate the key lock function.  
Press and hold this key again to deactivate the key lock function.
- ⑥ **Microphone**  
When spoken into transmits your voice with reduction of background noise, using Clear Voice Noise Reduction Technology.

**Note:** Position your mouth about 1/2" (1.5 cm) away from the microphone hole and speak in a normal voice.

⑦ ◀/▶ key

Press these keys to switch the function menu.

**Secondary use:**

While the MENU screen is displayed, press the key to slide the on-screen menu to the right/left side.

⑧ MENU key

Press this key to access the MENU.

⑨ CH▼/CH▲ key

These keys are used to change the operating channel.

Press the key momentarily, the channel increases/decreases one step. Holding the key, the channel increases/decreases continuously.

**Secondary use:**

- While the MENU screen is displayed, press the key to slide the on-screen menu upward/downward.
- When in the PA or Fog mode, press the key to change the channel.

⑩ Display

222 by 162 pixels full dot matrix display.

⑪ Soft keys

These three programmable keys can be customized through the setup menu mode. When pressing one of these keys briefly, the key functions will appear at the bottom of the display.

⑫ Strobe Light

When the **[STROBE]** soft key is pressed, the internationally-recognized Morse Code "S.O.S" message will light and flash repeatedly.

From MENU → SETUP → CONFIGURATION → STROBE LED, you can select one option from "CONTINUOUS", "SOS", "BLINK 1", "BLINK 2" and "BLINK 3".

⑬ 16/S key

Pressing this key immediately recalls channel 16 from any channel location. Holding down this key recalls the SUB channel (The default setting is channel 9). Pressing this key again reverts to the previous selected working channel.

⑭ Speaker

The internal speaker is located here.

⑮ DISTRESS key

This key is used to send a DSC distress call.

⑯ USB jack

Use the micro USB type B jack for **SSM-71H (RAM4W)** battery charge.

Note: When the DATA jack is securely covered with rubber cap, the SSM-71H meets the waterproofing performance.

## Included Accessories and replacement part numbers

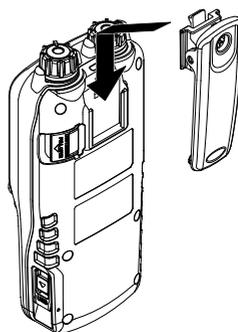
- SAD-17 USB Wall Charger (100-240 VAC)
- Charger Cable (Type USB “A” plug to Type USB micro “B” plug)
- CLIP-22 Belt Clip
- Belt Clip Hanger & Screws (U40412220 x 2 pcs)
- Hand Strap

## Optional Accessories

- (1)SCU-30 Wireless Access Point with 3 Feet Cable
- (2)SDD-14 USB DC Charger with Cigarette Lighter Plug

## Belt Clip Installation / Removal

1. To install, align the Belt Clip Clip-22 to the groove of the rear panel, then press the Belt Clip downward until it locks in place with a “Click”.
2. To remove, pull the Clip-22 tab away from the rear panel to unlock the Clip-22, then slide the Clip-22 upward to remove it.

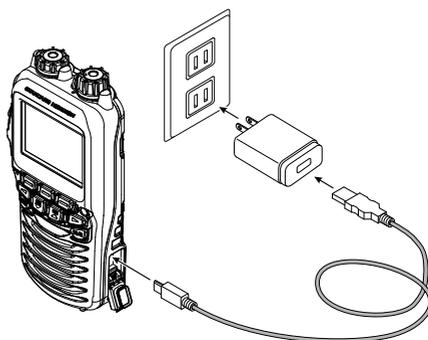


## Battery Charging

If the battery has never been used, or its charge is depleted, charge the RAM4W according to the following procedures:

1. Turn the RAM4W off.
2. Slide the USB cover button (with arrow) up to open the cover, then connect the supplied Charge Cable to the USB jack.
3. Connect the other side plug of the supplied Charge Cable to the SAD-17 then plug the SAD-17 into the AC line outlet.
4. If the connection is correct, the RAM4W's LCD display will show the battery charging icon.
5. A fully-discharged RAM4W will be charged completely in approximately 4 hours.

When charging is completed, the battery charging icon will disappear.



### CAUTION

Waterproof and floating features of the RAM4W are assured only when the USB jack cover is locked completely.  
 The SAD-17 is NOT designed to be waterproof. Charge the radio in a dry location.

The RAM4W is equipped with a high-performance Lithium Battery.

#### Built-in Lithium-ion Battery

<b>Capacity</b>	1800 mAh			
<b>Nominal Voltage</b>	7.4 V			
<b>Temperature Range</b>	<b>Minimum</b>		<b>Maximum</b>	
	<b>°C</b>	<b>°F</b>	<b>°C</b>	<b>°F</b>
<b>Charge</b>	5	41	35	95
<b>Discharge</b>	-20	-4	60	140
<b>Storage</b>	-10	14	35	95

### Battery Safety

Battery packs for your equipment 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 equipment. Please observe the following precautions:

**DO NOT SHORT BATTERY PACK TERMINALS:** Shorting the terminals that power the equipment 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.

#### 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.



## **Pairing**

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When using the RAM4W for the first time, the RAM4W and the Wireless Access Point SCU-30 must be paired. Refer to the Transceiver's Operating Manual for Pairing instructions.

1. Please bring the RAM4W and the SCU-30 close together when doing Pairing.
2. Press and hold [16/S] key and turn on the RAM4W.
3. Press and hold [16/S] key and turn on the transceiver.  
"Searching ..." appears on the LCD.
4. When pairing is completed, the display will appears "Complited".

## FCC 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.

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 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 UNDESIRE 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.

Le présent appareil est conforme aux CNR d'Industrie 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.

## Specifications

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Supply Voltage:	3.7 VDC
Current Consumption:	450 mA @VOL Max. 100 mA @AF Mute
Operating Temperature:	-4 °F to +140 °F (-20 °C to +60 °C)
Wireless Networking Module:	FCC ID: K660A290910, IC: 511B-0A290910
Frequency Band:	2.4 GHz
Wireless Networking Standard:	IEEE 802.11 b/g/n
AF output:	700 mW @ 8 ohms for 10 % THD
Display Size:	1.8" x 0.9" (45 x 23 mm)
Display Resolution:	222 x 162 dots
Dimensions (WxHxD):	2.5" x 5.3" x 1.3" (63 x 135 x 32.5 mm)
Weight (Approx):	7.23 oz (205 g)

## Symbol placed on the equipment

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 Direct Current

### **Disposal of Electrical and Electronic 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 byproducts.

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



# ***STANDARD HORIZON***

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**YAESU MUSEN CO., LTD.**  
Tennozu Parkside Building  
2-5-8 Higashi-Shinagawa, Shinagawa-ku, Tokyo 140-0002 Japan

**YAESU USA**  
6125 Phyllis Drive, Cypress, CA 90630, U.S.A.

**YAESU UK**  
Unit 12, Sun Valley Business Park, Winnall Close



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