

SSM-70H Remote Station Microphone RAM4

The RAM4 (SSM-70H) 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 RAM4 (SSM-70H) can be extended up to 70 feet using the optional CT-100 (23 feet) extension cable. The RAM4 (SSM-70H) is backed by an industry leading 3-years waterproof warranty.

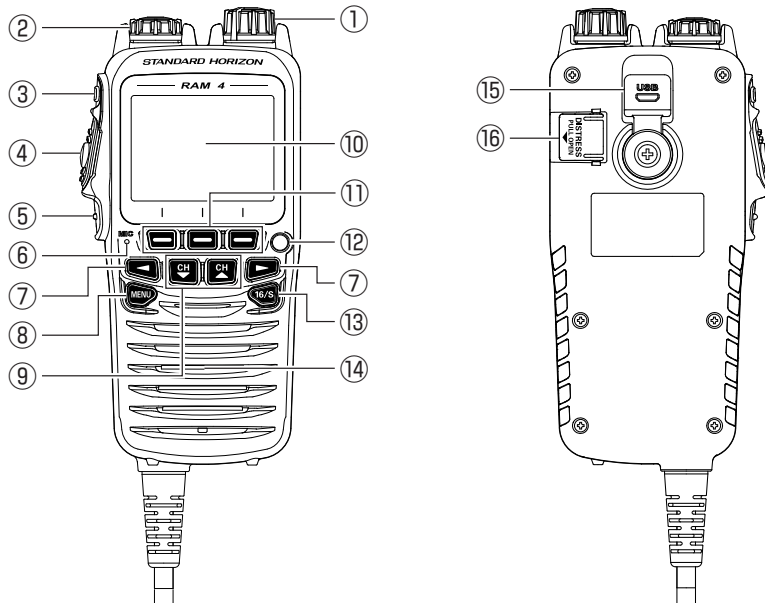
Owner's Manual

The details of the installation and operation of the **RAM4 (SSM-70H)** is included in the owner's manual of the compatible fixed mount radio, or it can be downloaded at www.standardhorizon.com.

Safety Precautions (Be Sure to Read)

Be sure to read the safety precautions of Operating Manual of the compatible transceiver to use this product safely.

Front and Rear Panel



① **Power/VOL knob**

Press and hold this knob to turn the transceiver and the remote mic ON or OFF. Adjusts the speaker volume level.

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 adjustment 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**

The internal microphone transmits your voice reducing 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 of soft keys.

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.

⑩ **Display**

Full dot matrix display, 222 by 162 pixels.

⑪ **Soft keys**

These three programmable keys can be customized in the setup menu to quickly access advanced functions of the radio.

⑫ **Strobe LED**

When the **[STROBE]** soft key is pressed, the Strobe LED will light or 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 **DATA jack**

Use the micro USB type B jack for **RAM4 (SSM-70H)** firmware updates.

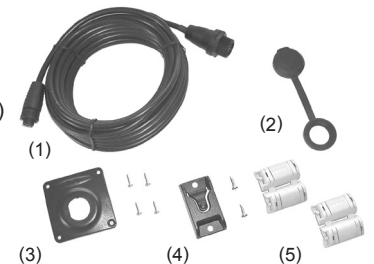
Note: When the DATA jack is securely covered with rubber cap, the SSM-70H meets the waterproofing performance.

⑯ **DISTRESS key**

This key is used to send a DSC distress call.

Included Accessories and replacement part numbers

- (1) 23 Feet Routing Cable (S8101512)
- (2) Rubber Cap (RA052520A)
- (3) Mounting Bracket (RA052510A) & Screws (U24312020 x 4 pcs)
- (4) Microphone Hanger (RA0458800) & Screws (U40412220 x 2 pcs)
- (5) Ferrite Cores (L9190212 x 2 pcs)
- (6) Operating Manual



Optional Accessories

- (1) CT-100 23 Feet Extension Cable
- (2) MLS-300 External Loud Speaker
- (3) MLS-310 10W Amplified External Speaker

Configuration Setup

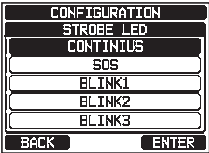
SSM-70H operation is same as the enabled radio. This makes operation of the radio and SSM-70H microphone similar and much easier. The only difference is that the following two items are added to CONFIGURATION SETUP:

Strobe LED

When the [STROBE] soft key is pressed, the Strobe LED will light and flash repeatedly.

1. [MENU] ➡ "SETUP" ➡ "CONFIGURATION" ➡ "STROBE LED"

2. Rotate the DIAL/ENT knob to select the desired setting. The available Strobe settings are: "CONTINUOUS" (default setting), "SOS", "BLINK 1", "BLINK 2", or "BLINK 3".
3. Press the [ENTER] soft key to store the selected setting.
4. Press the CLEAR/ key to return to radio operation.
5. When the [STROBE] soft key is pressed, the Strobe LED will light or flash repeatedly.

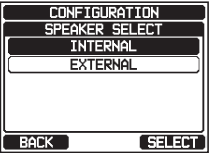


Speaker Select

The SSM-70H microphone can drive either the internal speaker or the external speaker. When connecting an external speaker, follow the procedure below to mute the SSM-70H speaker and enable the external speaker that is connected to the wires on the SSM-70H routing cable.

1. [MENU] ➡ "SETUP" ➡ "CONFIGURATION" ➡ "SPEAKER SELECT"

2. Rotate the DIAL/ENT knob to select "INTERNAL" or "EXTERNAL", then press the [SELECT] soft key.
3. Press the CLEAR/ key to return to radio operation.



Changes or modifications to this device not expressly approved by YAESU MUSEN could void the user's authorization to operate this device.

Disposal of Electrical and Electronic Equipment

Products with the symbol (crossed-out wheeled bin) cannot be disposed of 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.



Specifications

Supply voltage	13.8 VDC (Supplied from the transceiver)
Current consumption	400 mA @VOL Max. (Internal Speaker) 550 mA @VOL Max. (External Speaker) 200 mA @AF Mute
Operating Temperature	−4 °F to +140 °F (−20 °C to +60 °C)
MIC. Sensitivity (Typical)	130 mVrms @ 1 kHz Tone with 94 dB(A)
MIC. Impedance	2 k ohms
AF output	2.0 W @ 8 ohms for 10 % THD (Internal Speaker) 2.4 W @ 4 ohms for 10 % THD (External Speaker)
Display Size (Approx.)	1.7" x 1.2" (44 x 32 mm)
Display Resolution	222 x 162 dots
Case Size	2.5" x 5.3" x 1.3" (63 x 135 x 32.5 mm)
Weight (Approx)	13.05 oz (370 g)

YAESU

Declaration of Conformity

Type of Equipment:	Remote Station Microphone
Brand Name:	STANDARD HORIZON
Model Number:	SSM-70H
Manufacturer:	YAESU MUSEN CO., LTD.
Address of Manufacturer:	Tennozu Parkside Building, 2-5-8 Higashi-Shinagawa, Shinagawa-ku, Tokyo 140-0002 Japan

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 undesired operation.

The technical documentation as required by the Conformity Assessment procedures is kept at the following address:

Company:	Yaesu U.S.A.
Address:	6125 Phyllis Drive, Cypress, CA 90630, U.S.A.
Telephone:	(714) 827-7600

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.

YAESU MUSEN CO., LTD.

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