STANDARD HORIZON

Nothing takes to water like Standard Horizon

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.
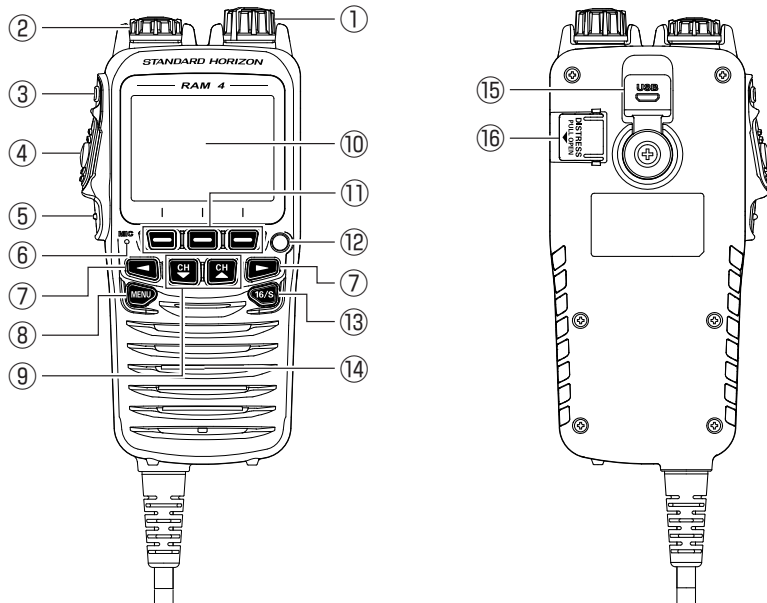
Owner's Manual

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/🔒** 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
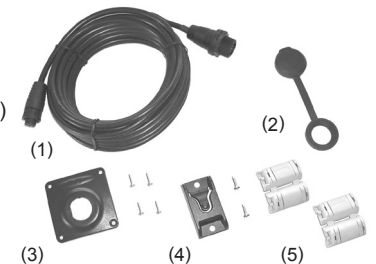
(1) 23 Feet Routing Cable (S8101512)

(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
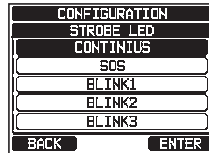
Configuration Setup

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: "**CONTONIOUS**" (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.

```
CONFIGURATION
STROBE LED
CONTINIUS
SOS
BLINK1
BLINK2
BLINK3
BACK          ENTER
```
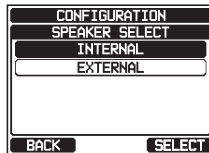
Speaker Select

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.

```
CONFIGURATION
SPEAKER SELECT
INTERNAL
EXTERNAL

BACK          SELECT
```

Disposal of Electrical and Electronic Equipment

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