The RAM3+ (CMP31) allows you to remotely control all functions of Standard Horizon fixed mount VHF radios which include GX1600, GX1700, GX2000, GX2100, GX2150, GX2200 and GX5500S. 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 RAM3+ (CMP31) can be extended up to 70 feet using the optional CT-100 (23 Foot) extension cable. The RAM3+ (CMP31) is backed by an industry leading 3-year waterproof warranty.

WARNING: Do not connect or remove the CMP31 (RAM3+) microphone while the radio is powered on. This may result in equipment failure.

1. Connect the Extension Cable to the 8-pin connector on the transceivers rear panel, then tighten the Cable Nut (Figure 1).
2. Referring to Figure 2, attach the supplied ferrite core as close as possible to the MIC plug of the Routing Cable and External Speaker Connections, then snap its two halves together. And then, wind some plastic tape around the ferrite core, to prevent vibration from causing the two halves to split apart and fall off the wires.
3. Referring to Figure 3, make a 1.2” (30 mm) hole in the wall then insert the Extension Cable into this hole. Connect the Gasket and Mount Base to the Extension Cable Connector using the Nut.
4. Drill the four Screw holes (approx. 2 mm) on the wall then install the Mounting Bracket to the wall using four screws.
5. Put the Rubber Cap on to the Nut.
6. The installation is now complete. Connect the RAM3+ (CMP31) to the Extension Cable Connector and tighten the Cable Nut.

Included Accessories and Replacement Part Numbers
1. 23-Foot Routing Cable (S8101512)
2. Rubber Cap (RA052520A)
3. Mounting Bracket (RA40525100) & Screws (U24312020 x 4 pcs)
4. Microphone Hanger (RA0458800: Black or RA0436000: White) & Screws (U40412220 x 2 pcs)
5. Ferrite Core (L9190198 or L9190192)

User’s Manual
The details of the installation and operation of the RAM3+ (CMP31) is included in the owner’s manual of the compatible fixed mount radio, or it can be downloaded at www.standardhorizon.com. If you have any questions or comments, please contact Standard Horizon Marine Product Support at 800/767-2450.

Optional Accessories
CT-100 23 ft Extension Cable
MLS-300 External Loud Speaker
MLS-310 10 watt Amplified Speaker

Specifications
Supply voltage: 13.8 VDC (Supplied from the transceiver)
Current consumption: 700 mA @VOL Max. 200 mA @AF Mute
Operating Temperature: -4 °F to +140 °F (-20 °C to +60 °C)
MIC. Sensitivity (Typical): 60 mVrms @ 1 kHz Tone with 3 kHz Deviation
MIC. Impedance: 2 kΩ
AF output: 800 mW @ 8 Ω for 10 % THD (Internal Speaker) 3 W @ 4 Ω for 10 % THD (External Speaker)
Display Resolution: 132 x 64 dot
Display Size: 1.8” x 0.9” (45 x 23 mm)
Case Size: 2.6” x 5.5” x 1.2” (67 x 140 x 30 mm)
Weight (Approx): 12.9 oz (365g)

NOTE
Caution!: Before cutting the cable, it must be disconnected from the rear panel of the transceiver.

The routing cable can be cut and spliced, however care needs to be taken when reconnecting the wires to ensure water integrity. After cutting you will notice there are the following wires:
- Yellow, Green, Brown, Purple, Blue, Green, Red*, and Shield*
- The Red and Shield wires are wrapped in foil. Remove the foil, and separate the Red and Shield wires.

Disposal of your Electronic and Electric Equipment
Products with the symbol (crossed-out wheeled bin) cannot be disposed as household waste.

Electronic and Electric Equipment should be recycled at a facility capable of handling these items and their waste byproducts.

In EU countries, please contact your local equipment supplier representative or service center for information about the waste collection system in your country.

YAESU MUSEN CO., LTD.
Teramachi, Nishihata, Shinagawa-ku, Tokyo 140-0002 Japan

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

YAESU UK
Unit 12, Sun Valley Business Park, Winnall Close Winchester, Hampshire, SO23 0LB, U.K.

Owner’s Manual
The details of the installation and operation of the RAM3+ (CMP31) is included in the owner’s manual of the compatible fixed mount radio, or it can be downloaded at www.standardhorizon.com. If you have any questions or comments, please contact Standard Horizon Marine Product Support at 800/767-2450.

Standard Horizon
Nothing takes to water like Standard Horizon
[H/L] Key
Press this key to toggle the transmit power between high and low. When the [H/L] key is pressed while the transceiver is on channel 13 or 67, the power will temporarily switch from LOW to HI power until the PTT is released. The [H/L] key does not function on transmit inhibited and low power only channels.

PTT (Push-To-Talk) Key
Press this key to activate the transmission.

POWER (UP) Key
Press and hold down this key to turn on the transceiver and RAM3+ (CMP31) “on” and “off”.

Microphone
The internal microphone is located here. When transmitting, position your mouth about 1/2 to 1 inch (1.2 ~ 2.5 cm) away from the small mic hole. Speak slowly and clearly into the microphone.

DISPLAY
Channel display.

SOFT KEY
For details, refer to owner’s manual of the transceiver.

KEY PAD
(CALL/MENU) Key
Press this key to access the DSC OPERATION menu. Press and hold this key to access the SETUP menu.

16/9 Key
First press: channel 16 is immediately selected.
Second press: recalls the last selected channel.
Press and hold: selects channel 9.

▲/▲▼/▼ DOWN Key
These keys are used to select channels, adjust the volume and squelch level, and to choose DSC calls, DSC setup and Radio setup function.

[VOL/SQ] Key (Volume Control / Squelch Control)
Press this key to toggle the function of the microphone’s ▲ or ▼ key between the channel selections, volume level adjustment, and squelch level adjustment.

CLR/WX Key
For details, refer to owner’s manual of the transceiver.

ENT Key
This key functions as the enter key.

Speaker
The internal speaker is located here.

DISTRESS KEY
This key is used to send a DSC Distress Call. Lift the red spring loaded DISTRESS cover, then press and hold in the [DISTRESS] key.

DECLARATION OF CONFORMITY
Type of Equipment: Remote Station Microphone
Brand Name: STANDARD HORIZON
Model Number: CMP31
Manufacturer: YAESU MUSEN CO., LTD.
Address of Manufacturer: Tennozu Parkside Building, 2-5-8 Higash-Shinagawa, Shinagawa-ku, Tokyo, 140-0002 Japan

Applicable Standards:
This equipment is tested and conforms to the essential requirements of directive, as included in following standards:

Safety
1999/5/EC Art. 3 (1) [a] EN 60950-1:2006+A2:2013

EMC
1998/50/EC Art. 3 (1) [b] EN 301 489-21 V1.2.1
EN 301 489-22 V1.2.1

Radio
2014/53/EU Art. 7 (b) EN 50351:2012

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 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.K Ltd.
Address: Unit 12, Sun Valley Business Park, Wiffin Close, Hampshire UK SO23 0L8

Technical Construction File
Issued by: YAESU MUSEN CO., LTD., Tokyo Japan
Drawn up in: Winchester, Hampshire UK
Date: 2nd November 2015
Signed for and on behalf of Yaesu UK Ltd

Name and position: PCJ Bigwood
Technical Sales Manager

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