iCOM

INSTRUCTIONS ①

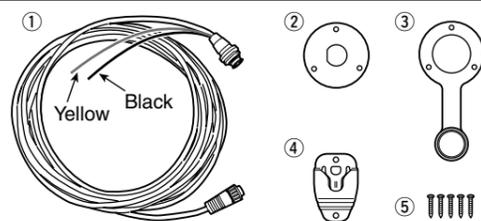### REMOTE-CONTROL MICROPHONE
HM−195B
HM−195SW

Thank you for purchasing the HM-195B/HM-195SW REMOTE-CONTROL MICROPHONE. The COMMANDMICIV™ is a remote control microphone for use with the IC-M423/IC-M424 and future products.
Carefully read the instruction manual of the transceiver you will use, before connecting and operating. These instructions describe only the remote-control operations.
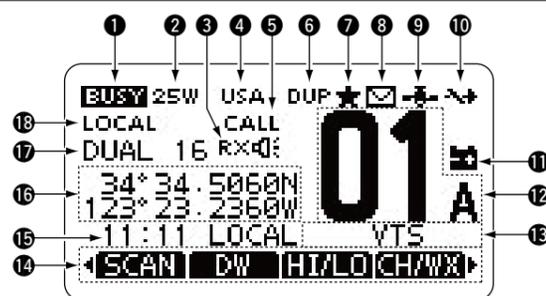
1 Supplied accessories

Accessories included with the HM-195: Qty.
① Connection cable (OPC-1540*: 6 m; 20 ft) 1
② Mounting base 1
③ Connector cap 1
④ Microphone hanger 1
⑤ Screws (M3 × 16 mm; tapping) 5
*The OPC-1540 has external speaker leads, as illustrated to the right. (Yellow: Speaker (+), Black: Speaker (−))
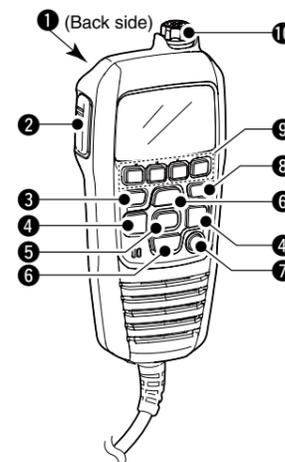
Yellow Black
① ② ③ ④ ⑤

2 Function display

❶ **BUSY/TRANSMIT ICON** (See 6)
➥ "BUSY" appears when receiving a signal or when the squelch is open.
➥ "TX" appears while transmitting.

❷ **POWER ICON** (See 6)
➥ "25W" appears when high power is selected.
➥ "1W" appears when low power is selected.

❸ **RX SPEAKER ICON** (See 27)
Appears while in the RX Speaker mode.

❹ **CHANNEL GROUP ICON** (See 5)
➥ A selected channel group icon, U.S.A. "USA," International "INT," Canadian "CAN," ATIS "ATIS" or DSC "DSC" appears, depending on the transceiver version.
➥ "WX" appears when the weather channel is selected.

❺ **CALL CHANNEL ICON** (See 5)
Appears when the Call channel is selected.

❻ **DUPLEX ICON** (See 5)
Appears when a duplex channel is selected.

❼ **TAG CHANNEL ICON** (See 13)
Appears when a TAG (favorite) channel is selected.

❽ **MAIL ICON** (See 23)
Blinks when there is an unread message.

❾ **GPS ICON**
➥ Stays ON when the GPS receiver is activated and valid position data is received.
➥ Blinks when invalid position data is being received.

❿ **SWITCH ICON** (See 25)
Appears when the "CH 16 SWITCH" in DSC Settings is set to 'OFF.'

⓫ **LOW BATTERY ICON**
Blinks when the battery voltage drops to approximately 10 V DC or less.

⓬ **CHANNEL NUMBER READOUT**
Shows the selected operating channel number.
• When a simplex channel is selected, "A" appears.

⓭ **CHANNEL NAME FIELD**
The channel name appears, if programmed. (See 8)

⓮ **KEY ICONS** (See 4)
Shows the programmed function of the softkeys on the front panel.

⓯ **TIME ZONE INDICATOR**
➥ Shows the current time when a GPS receiver is connected, or the time is manually programmed.
• When the GPS current time is invalid, "??" will blink every 2 seconds instead of the current time. After 23.5 hours has passed, "NO TIME" will appear.
• "??" will blink every 2 seconds instead of the current time, after 4 hours have passed from when the time was manually programmed. The manually programmed time is held for only 23.5 hours, and after that, "NO TIME" will appear.
➥ "LOCAL" appears when the offset time is set.
➥ "MNL" appears when the time is manually programmed.
➥ "UTC" appears when the GGA, GLL or GNS GPS sentence format is included in the GPS signal.
➥ The date information appears when the RMC GPS sentence format is included in the GPS signal.
➥ "NO TIME" appears when no GPS receiver is connected, and no time is manually input.

⓰ **POSITION INDICATOR**
➥ Shows the current position when a GPS receiver is connected, or the position is manually programmed.
• When the GPS position is invalid, "??" may blink every 2 seconds instead of position. The last position is held for only 23.5 hours, and after that, "NO POSITION" will appear.
• "??" will blink every 2 seconds instead of position, after 4 hours have passed from when the position is manually programmed. The manually programmed position is held for only 23.5 hours, and after that, "NO POSITION" will appear.
➥ "NO POSITION" appears when no GPS receiver is connected, and no position is manually input.

⓱ **SCAN INDICATOR**
➥ "SCAN 16" appears during a Priority scan; "SCAN" appears during a Normal scan. (See 14)
➥ "DUAL 16" appears during Dualwatch; "TRI 16" appears during Tri-watch. (See 15)

⓲ **LOCAL ICON** (See 6)
Appears when the Attenuator function is turned ON.
*Only U.S.A. and Australian version transceivers.

3 Panel description

The HM-195 remotely controls the transceiver and provides an Intercom function.
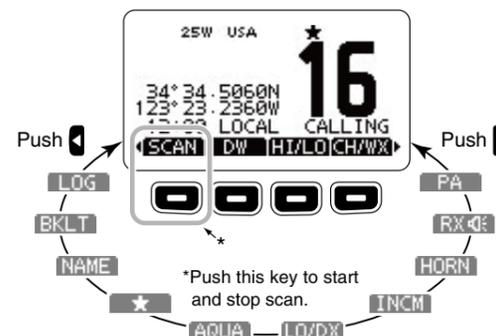
❶ (Back side) ❿

❶ **DISTRESS KEY [DISTRESS]** (See 19)
Hold down for 3 seconds to transmit a Distress call.

❷ **PTT SWITCH [PTT]**
Hold down to transmit, release to receive. (See 6)

❸ **MENU KEY [MENU]** (See 30)
Push to enter or exit the Menu screen.

❹ **LEFT AND RIGHT KEYS [◀]/[▶]**
➥ Push to switch to the previous or next key function that is assigned to the softkeys. (See 4)
➥ Push to select the desired character or number in the table while in the channel name, position programming mode, and so on. (See 8, 16, 17)

❺ **ENTER KEY [ENT]** (See 8, 10, 16)
Push to set the input data, selected item, and so on.

❻ **UP AND DOWN/CHANNEL SELECT KEYS [▲•CH]/[▼•CH]**
➥ Push to select the operating channels, Menu items, Menu settings, and so on. (See 5, 30)
➥ Push to check TAG channels, change the scanning direction or manually resume a scan. (See 14)

❼ **CHANNEL 16/CALL CHANNEL KEY [16/C]**
➥ Push to select Channel 16. (See 5)
➥ Hold down for 1 second to select the Call channel. (See 5)
• "CALL" appears when the Call channel is selected.
➥ When the Call channel is selected, hold down for 3 seconds to enter Call channel programming mode . (See 7)

❽ **CLEAR KEY [CLEAR]** (See 8, 16, 30)
Push to cancel the entered data, or to exit the Menu screen.

❾ **SOFTKEYS**
Desired functions can be assigned in the Menu screen. See the transceiver's manual for details.

❿ **VOLUME AND SQUELCH SWITCH/POWER SWITCH [VOL/SQL•PWR]**
➥ When the power is OFF, hold down for 1 second to turn ON power. (See 6)
➥ Hold down for 1 second to turn OFF power.
➥ When the power is ON, push to enter the volume level adjustment mode.* (See 10)
• Each push of this switch toggles the mode between the volume level adjustment, squelch threshold level adjustment, operating channel selection and the LCD and key backlight brightness adjustment, if assigned.
➥ Rotate to adjust the volume level.* (See 10)
*The desired function can be assigned in the Menu screen.

4 Softkey function

Various functions can be assigned to the softkeys.
When a key function is assigned, the key icon is displayed above the softkey, as shown below.
Consult your Icom dealer for details concerning which functions are preprogrammed into the keys.

◇ **Softkey function selection**
When "◀" or "▶" is displayed beside the key icon, pushing [◀] or [▶] sequentially shows the previous or next key function that is assigned to the softkey.

Push ◀   Push ▶
*Push this key to start and stop scan.

※ The order of the key icons may differ, depending on the preprogramming.
※ **Except for a U.S.A. and Australian version transceiver:**
※ • [CHAN] appears instead of [CH/WX].
※ • [LO/DX] does not appear.

5 Channel selection

◇ **Channel 16**
① Push [16/C] to select Channel 16.
② Push [CH/WX]* to return to the screen displayed before you selected Channel 16, or push [▲](CH) or [▼](CH) to select an operating channel.

◇ **Call channel**
① Hold down [16/C] for 1 second to select the Call channel of the selected channel group.
② Push [CH/WX]* to return to the screen displayed before you selected Call channel, or push [▲](CH) or [▼](CH) to select an operating channel.
*[CHAN] appears except for a U.S.A. and Australian version transceiver.
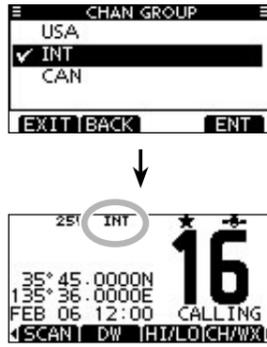
◇ **Weather channels**
(U.S.A. and Australian version transceiver only.)
① Push [CH/WX] once or twice to select a weather channel.
• "WX" appears when a weather channel is selected.
• "WX ⊙" appears when the Weather Alert function is in turned ON.
② Push [▲](CH) or [▼](CH) to select a channel.

5 Channel selection (Continued)

◇ Channel group selection
① Push [MENU].
② Rotate Dial or push [▲]/[▼] to select "Radio Settings," and then push [ENT].
③ Rotate Dial or push [▲]/[▼] to select "CHAN Group," and then push [ENT].
④ Rotate Dial or push [▲]/[▼] to select the desired channel group, and then push [ENT].
 • The selectable channel groups may differ, depending on the transceiver version.
⑤ Push [EXIT] to exit.
⑥ Push [▲](CH) or [▼](CH) to select a channel.
 • "DUP" appears when a duplex channel is selected.
 • "A" appears when a simplex channel is selected.

When the International channel group is selected.

6 Receiving and transmitting

① Hold down [PWR] to turn ON the power.
② Set the audio and squelch levels. (See **10**, **11**)
 ➥ First, open the squelch. Then, adjust the audio output level. After that, adjust the squelch level until the noise just disappears.
③ Change the channel group. (See **5**)
④ Push [▲](CH) or [▼](CH) to select a channel. (See **5**)
 • When receiving a signal, "BUSY" appears and audio is heard.
 • Further adjustment of the volume level may be necessary.
⑤ Push [LO/DX] to turn the receive Attenuator function ON or OFF, if necessary.
 • Only U.S.A. and Australian version transceivers.
 • "LOCAL" appears when the receive Attenuator function is ON.
⑥ Push [HI/LO] to select the output power, if necessary.
 • "25W" appears when high power is selected, and "1W" appears when low power is selected.
 • Choose low power for short range communications, choose high power for longer distance communications.
 • Some channels are for only low power.
⑦ Hold down [PTT] to transmit, then speak at your normal voice level.
 • "TX" appears.
 • Channel 70 cannot be used for transmission other than DSC.
⑧ Release [PTT] to receive.

✓ Information
The Noise Cancel function reduces random noise components in the transmit and/or receive signal. See the transceiver's manual for details.

Simplex channels, 3, 21, 23, 61, 64, 81, 82 and 83 CANNOT be used lawfully by the general public in U.S.A. waters.

IMPORTANT: To maximize the readability of your transmitted signal, pause a few seconds after pushing [PTT], hold the microphone 5 to 10 cm (2 to 4 inches) from your mouth and speak at a normal voice level.

✓ NOTE for the TOT (Time-out Timer) function
The TOT function inhibits continuous transmission beyond a preset time period after the transmission starts.
10 seconds before transmission is cutoff, a beep sounds to indicate the transmission will be shut down and "TOT" appears in the channel name field. Transmission is not possible for 10 seconds after this shut down.

7 Call channel programming

① Select the desired channel group to be programmed. (See **5**)
② Hold down [16/C] for 1 second to select the Call channel of the selected channel group.
 • "CALL" and the Call channel number appear.
③ Hold down [16/C] again for 3 seconds (until a long beep changes to 2 short beeps) to enter the Call channel programming mode.
④ Rotate Dial or push [▲](CH) or [▼](CH) to select a channel.

⑤ Push [ENT] to program the displayed channel as the Call channel.
 • Push [CLEAR] to cancel.

8 Channel name programming

Each channel can be assigned a unique alphanumeric ID of up to 10 characters.
Capital letters, 0 to 9, some symbols (! " # $ % & ' ( ) * + , − . / [\ ] ^ _ : ; < = > ?) and a space can be input.

① Push [▲](CH) or [▼](CH) to select a channel.
 • First, cancel the Dualwatch, Tri-watch or Scan function, if activated.
② Push [NAME] to open the channel name programming screen.
 • A black box is displayed on the first character.

③ Enter the desired channel name in the following manner:
 • Select a desired character using Dial, or [▲]/[▼]/[◀]/[▶].
 • Push [ENT] to set it.
 • To move the cursor, select either arrow, "←" or "→," then push [ENT].
 • Select "SPACE," then push [ENT] to input a space.
 • Select "DELETE," then push [ENT] to delete a character.
 • Push [CLEAR] to cancel and return to the previous screen.
④ Repeat step ③ to input all characters.

⑤ Push [◀], [▶], [▲] or [▼] to select "FINISH," then push [ENT] to set the name and return to the previous screen.
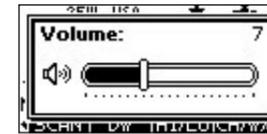
9 AquaQuake water draining function

The AquaQuake water draining function clears water away from the speaker grill. Without this function, water may muffle the sound coming from the speaker. A buzzing sound is heard when this function is activated.

➥ While holding down [AQUA], the AquaQuake function is activated to clear water away from the speaker grill.
 • While holding down [AQUA], a low buzzing sounds to drain water, regardless of the volume level setting.
 • The HM-195's keys are disabled while the AquaQuake function is activated.

10 Adjusting the volume level

① Rotate [VOL/SQL](Dial), or push [VOL/SQL](Dial) one or more times to display the volume adjustment screen.
② Rotate [VOL/SQL](Dial) to adjust the volume level.
 • The HM-195 has 20 volume levels and OFF.
 • If no key operation is performed for about 5 seconds, the HM-195 sets the selected volume level, and returns to the normal mode.
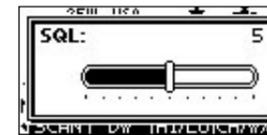
③ Push [ENT] to set the level, and exit the volume adjustment mode.
 • Push [CLEAR] to cancel.

The desired function can be assigned to [VOL/SQL](Dial). See the transceiver's manual for details.

11 Adjusting the squelch level

① Push [VOL/SQL](Dial) one or more times to display the squelch adjustment screen.
② Rotate [VOL/SQL](Dial) to adjust the squelch level.
 • The squelch is adjustable in 11 levels. OPEN is completely open; 10 is tight squelch; 1 is loose squelch.
 • If no key operation is performed for about 5 seconds, the selected squelch level is set, and returns to the normal mode.

③ Push [ENT] to set the level, and exit the squelch adjustment mode.
 • Push [CLEAR] to cancel.

The desired function can be assigned to [VOL/SQL](Dial). See the transceiver's manual for details.

12 Adjusting the display backlight level

The function display and keys can be backlit for better visibility under low light conditions.
The backlight is adjustable in 7 levels and OFF.

➥ Push [BKLT] to show the backlight adjustment screen. Rotate Dial to adjust the brightness of the LCD and key backlight, and then push [ENT].
 • If no key operation is performed for about 5 seconds, the HM-195 sets the selected backlight level, and returns to the normal mode.

13 Setting TAG channels

① Select the desired channel group. (See **5**)
② Select the desired channel to be set as a TAG channel.
③ Push [★] to set the displayed channel as a TAG channel.
 • "★" appears on the display.
④ To cancel the TAG channel setting, repeat step ③.
 • "★" disappears.

✓ Clearing (or setting) all tagged channels
Hold down [★] for 3 seconds (until a long beep changes to 2 short beeps) to clear all TAG channel settings in the selected channel group.
 • Repeat above procedure to set all channels as TAG channels.

14 Starting a scan

① Select Priority scan or Normal scan in the Menu screen.
 • See the transceiver's manual for details.
② Select the desired channel group. (See **5**)
③ Set the TAG channels. (See **13**)
④ Make sure the squelch is closed to start a scan.
⑤ Push [SCAN] to start a Priority or Normal scan.
 • "SCAN 16" appears during a Priority scan; "SCAN" appears during a Normal scan.
 • When a signal is detected, the scan pauses until the signal disappears, or resumes after pausing 5 seconds, depending on the Set mode setting. (Channel 16 is still monitored during a Priority scan.)
 • Push [▲]/[▼] to check the scanning TAG channels, change the scanning direction or manually resume the scan.
 • A beep tone sounds and "16" blinks when a signal is received on Channel 16 during a Priority scan.

⑥ To stop the scan, push [CLEAR], or repeat step ⑤.

15 Dualwatch/Tri-watch operation

① Select Dualwatch or Tri-watch in the Menu screen.
 • See the transceiver's manual for details.
② Push [▲](CH) or [▼](CH) to select the desired operating channel.
③ Push [DW] to start a Dualwatch or Tri-watch scan.
 • "DUAL 16" appears during Dualwatch; "TRI 16" appears during Tri-watch.
 • A beep tone sounds when a signal is received on Channel 16.

④ To cancel Dualwatch or Tri-watch, push [DW] again.

☞**See "Instructions ②" (16 to 21) or "Instructions ③" (22 to 30) for other functions.**

CLEAN THE HM-195 THOROUGHLY WITH FRESH WATER after exposure to saltwater, otherwise, the keys and switch may become inoperable due to salt crystallization.