

Thank you for purchasing the IC-2300H FM TRANSCEIVER with Icom's state of the art technology.

Please read all instructions carefully before using the IC-2300H.

This instruction sheet describes only basic operations. For more detailed instructions, go to our web site to view or download the full IC-2300H instruction manual. (URL: <https://www.icomjapan.com/support/>) In the instruction manual, some options or some functions may not be available for this version. Please ask your dealer for details.

■ Precautions

⚠ WARNING RF EXPOSURE! This device emits Radio Frequency (RF) energy. Extreme caution should be observed when operating this device. If you have any questions regarding RF exposure and safety standards, please refer to the Federal Communications Commission Office of Engineering and Technology's report on Evaluating Compliance with FCC Guidelines for Human Radio Frequency Electromagnetic Fields (OET Bulletin 65).

⚠ WARNING! NEVER connect the transceiver to an AC outlet. This may pose a fire hazard or result in an electric shock.

⚠ WARNING! NEVER cut the DC power cable between the DC plug and fuse holder. If an incorrect connection is made after cutting, the transceiver may be damaged.

⚠ WARNING! NEVER operate the transceiver while driving a vehicle. Safe driving requires your full attention—anything less may result in an accident.

⚠ WARNING! NEVER connect the transceiver to a power source of more than 16 V DC or use reverse polarity. This could cause a fire or damage the transceiver.

⚠ WARNING! NEVER operate or touch the transceiver with wet hands. This may result in an electric shock or damage the transceiver.

⚠ WARNING! NEVER place the transceiver where normal operation of the vehicle may be hindered or where it could cause bodily injury.

⚠ WARNING! NEVER let metal, wire or other objects touch any internal part of the transceiver. This may result in an electric shock.

CAUTION: NEVER expose the transceiver to rain, snow or any liquids. The transceiver may be damaged.

DO NOT push the PTT when not actually intending to transmit. **KEEP** the transceiver out of the reach of children.

During mobile operation, **DO NOT** operate the transceiver without running the vehicle's engine. When the transceiver's power is ON and your vehicle's engine is OFF, the vehicle's battery will soon become exhausted.

BE CAREFUL! The transceiver will become hot when operating it continuously for long periods of time.

DO NOT set the transceiver in a place without adequate ventilation. Heat dissipation may be affected, and the transceiver may be damaged.

DO NOT use or place the transceiver in direct sunlight or in areas with temperatures below -10°C (+14°F) or above +60°C (+140°F).

DO NOT use harsh solvents such as benzene or alcohol when cleaning, as they will damage the transceiver's surfaces.

USE only Icom microphones (supplied or optional). Other manufacturer's microphones have different pin assignments and may damage the transceiver if attached.

Approved Icom optional equipment is designed for optimal performance when used with an Icom transceiver.

Icom is not responsible for the destruction or damage to an Icom transceiver in the event the Icom transceiver is used with equipment that is not manufactured or approved by Icom.

■ Panel description— Front panel

1 POWER KEY [⏻]
Hold down for 1 second to turn power ON or OFF.

2 MEMORY WRITE KEY [S.MW MW]
Push to enter the memory write mode.
Hold down for 1 second to program the selected memory channel.
Continue to hold down the key to automatically increment the memory channels.

3 MICROPHONE CONNECTOR
Connect the supplied microphone here.

4 VOLUME CONTROL [VOL]
Rotate to adjust the audio level.

5 SQUELCH CONTROL [SQL]
Rotate to adjust the squelch level.
The S-meter squelch or attenuator squelch is activated, when you rotate [SQL] clockwise from the center position.

6 SET-LOCK KEY [SET LOCK]
Push to enter to the Set mode.
Hold down for 1 second to turn the Lock function ON or OFF.

7 MONITOR-CHANNEL NAME-PA KEY [MONI ANM PA]
Push to turn the monitor function ON or OFF.
In the memory or Call channel mode, hold down for 1 second to turn the channel name or number ON or OFF.
In the marine channel mode, hold down for 1 second to turn ON the Public Address function.

8 OUTPUT POWER-DUPLEX KEY [LOW DUP]
Push to select the output power.
Hold down for 1 second to select the minus duplex, plus duplex or simplex mode.

9 TONE-TONE SCAN KEY [TONE T-SCAN]
Push to select the tone function.
Hold down for 1 second to start a Tone Scan.

10 MEMORY/CALL-PRIORITY KEY [M/CALL PRIO]
Push to select and toggle memory, Call and marine channel modes.
Hold down for 1 second to start a priority watch.

11 VFO/MHz TUNING-SCAN KEY [V/MHz SCAN]
Push to select the VFO mode.
In the VFO mode, push to select the tuning step.
Hold down for 1 second to start a scan.
Push to cancel an active scan.

12 BANK-OPTION KEY [BANK OPT]
Push to select a memory bank in the memory mode.
Hold down for 1 second to enter the Option Set mode.
In the marine channel mode, hold down for 1 second to enter the Marine Set mode.

13 TUNING DIAL [DIAL]
Selects the operating frequency, memory channel.
Selects an item in the Set mode.
Changes the scanning direction.

◇ Microphone connector (front panel view)

| | |
|---|-----------------------------|
| 1 | +8 V DC output (Max. 35 mA) |
| 2 | Channel up/down |
| 3 | 8 V control IN |
| 4 | PTT |
| 5 | GND (microphone ground) |
| 6 | MIC (microphone input) |
| 7 | GND |
| 8 | Data IN |

■ Panel description— Function display

1 FREQUENCY READOUT
Displays the operating frequency, channel name, Set mode contents, and so on.
The frequency decimal point blinks during a scan.
While the DTMF memory function is in use, "d" appears in the 100 MHz digit.

2 TRANSMIT ICON
Appears while transmitting.
Blinks while transmitting with the One-Touch PTT function ON.

3 AUDIO MUTE ICON
Appears when the Audio Mute function is activated.

4 NARROW MODE ICON
Appears when the narrow FM mode is selected.

5 OUTPUT POWER ICONS
Displays the selected transmit output power level.

6 KEY ICONS
Displays the function(s) of the front panel keys directly below the function display.

7 SKIP ICON
Appears when the selected memory channel is set as a skip channel.

8 MEMORY CHANNEL NUMBER READOUT
Displays the selected memory channel number.
"C" appears when the Call channel is selected.

9 MEMORY ICON
Appears when the Memory mode is selected.

10 S/RF INDICATOR
Displays the relative signal strength, while receiving signals.
Displays the output power level, while transmitting.

11 BUSY ICON
Appears when receiving a signal, or the squelch is open.
Blinks while the monitor function is turned ON.

12 S-METER SQUELCH ICON
Appears while the S-meter Squelch function is turned ON.

13 SQUELCH ATTENUATOR ICON
Appears while the Squelch Attenuator function is turned ON.

14 PRIORITY WATCH ICON
Appears during Priority Watch.

15 AUTO POWER OFF ICON
Appears when the Auto Power OFF function is turned ON.

16 TONE ICONS
Appear when the tone function is turned ON, and indicate which tone function is in use.
Push [TONE] to select the desired tone function.

| | |
|--------------|-----------------------------------|
| "♪" | Subaudible tone encoder (only TX) |
| "♪" and "Ⓜ" | DTCS encoder (only TX) |
| "Ⓜ" | CTCSS Squelch function |
| "Ⓜ" and "←R" | Reverse CTCSS Squelch function |
| "Ⓜ" | DTCS Squelch function |
| "Ⓜ" and "←R" | Reverse DTCS Squelch function |
| "Ⓜ" and "Ⓜ" | CTCSS Pocket beep function |
| "Ⓜ" and "Ⓜ" | DTCS Pocket beep function |

17 DUPLEX ICONS
The "+" icon appears in the plus duplex mode.
The "-" icon appears in the minus duplex mode.

18 FOGHORN ICON
Appears while the Foghorn function is turned ON.

19 LOCK ICON
Appears while the Lock function is turned ON.

■ Microphone (HM-133V)

1 VFO/LOCK KEY [VFO/LOCK]
Push to select the VFO mode.
Hold down for 1 second to turn the Lock function ON or OFF.

2 PTT SWITCH
Hold down to transmit; release to receive.
Toggles between transmitting and receiving while the One-Touch PTT function is in use.

3 UP/DOWN KEYS [▲] or [▼]
Push either key to change the operating frequency, memory channel, mode setting, and so on.
Hold down either key for 1 second to start scanning.

4 ACTIVITY INDICATOR
Lights red while any key other than [FUNC] [FUNC] and [DTMF-S] [DTMF-S], is pushed, or while transmitting.
Lights orange while the Microphone Keypad Lock function is activated.
Lights green while the One-Touch PTT function is in use.

5 KEYPAD
Push the keys to activate various functions.

6 FUNCTION INDICATOR
Lights orange while [FUNC] [FUNC] is activated—indicating the secondary function of keys can be accessed.
Lights green when [DTMF-S] [DTMF-S] is activated—DTMF signals can be transmitted using the keypad.

7 FUNCTION KEY [FUNC]

8 DTMF MEMORY SELECT KEY [DTMF-S]

9 FUNCTION KEYS [F-1] or [F-2]
Program and recall your desired transceiver setting.

10 BANK/OPTION KEY [BANK/OPTION]
In the memory mode, push to select the memory bank option.
Hold down for 1 second to enter the Option Set mode.
In the marine channel mode, hold down for 1 second to enter the Marine Set mode.
In the Marine Set mode, push to select the next item.

11 MEMORY/CALL KEY [MR/CALL]
Push to select the memory mode.
Hold down for 1 second to select the Call channel.
In the Marine Set mode, push to select the previous item.

■ HM-133V keypad

| KEY | FUNCTION | SECONDARY FUNCTION ([FUNC]+key) | OTHER FUNCTION |
|----------------|--|--|---|
| ANM MON1 | Opens and closes the squelch. | Turns the channel names or number display ON or OFF, in the memory mode. | After pushing [DTMF-S], transmits the appropriate DTMF code. When the DTMF memory encoder is activated, push [A] to [D], [*], [#], [0] to [9] to transmit the appropriate DTMF memory contents. |
| TSCAN SCAN2 | Starts and stops scanning. | Starts and stops tone scanning. | |
| PTT-M PRIO3 | Starts and stops priority watch. | Turns the One-Touch PTT function ON or OFF. | |
| DTCS HIGH4 | Selects high output power. | Turns ON the DTCS squelch. | |
| DTCS MID5 | Selects mid output power. | Turns ON the DTCS pocket beep function. | |
| DTMF LOW6 | Selects low output power. | Turns ON the DTMF memory encoder function. | |
| TSQ-L-9 DUP-B | Selects the minus duplex mode. | Turns ON the subaudible tone encoder. | |
| TSQ-L-9 DUP-B | Selects the plus duplex mode. | Turns ON the CTCSS pocket beep function. | |
| TSQ-L-9 | Selects the simplex mode. | Turns ON the tone squelch function. | |
| TONE-2 VOL-A D | Adjusts the audio level. | Sends a 1750 Hz tone signal while held down. | |
| MW CLR A | → Cancels frequency entry. → Cancels a scan or priority watch. → Exits the Set mode. | → Selects the memory channel programming mode. → Advances the memory channel number when continuously pushed after programming is completed. | |
| D-OFF SET B | → Enters the Set mode. → Selects the next item in the Set mode. | Turns OFF the DTMF memory mode. | |
| T-OFF ENT C | → Sets the keypad for numeral input. → Selects the previous item in the Set mode. | Turns OFF the subaudible tone encoder, pocket beep or CTCSS/DTCS tone squelch. | |
| MUTE SQL-D | Adjusts the squelch level. | Mutes the audio. • The Mute function is released when any operation is performed. | |
| TONE-1 VOL-* | Adjusts the audio level. | Sends a 1750 Hz tone signal for 1 second. | |
| SKKEY-1 SQL-# | Adjusts the squelch level. | Locks the digit keys on the keypad (including the [A] to [D], [#] and [*] keys). • The activity indicator lights orange while the Microphone Keypad Lock function is activated. | |

■ Basic operation

◇ Turning power ON/OFF
Hold down [⏻] for 1 second to turn the power ON or OFF.

◇ VFO mode selection
The IC-2300H has two basic operating modes; the VFO mode and the memory mode.
Push [V/MHz] to select the VFO mode.
Push [M/CALL] one or more times to select the memory, Call or marine channel* mode.

◇ Setting a frequency
1 If necessary, push [V/MHz] to select the VFO mode.
2 Rotate [DIAL] to set the frequency.
• The frequency changes according to the selected tuning step.
• Push [V/MHz] one or more times, to toggle the frequency step between 1 MHz and 10 MHz, if desired.

◇ Tuning step selection
The tuning step is the smallest selectable frequency increment you can use to set the operating frequency. The following tuning steps are selectable.
• 5 kHz • 6.25 kHz • 10 kHz • 12.5 kHz • 15 kHz
• 20 kHz • 25 kHz • 30 kHz • 50 kHz
NOTE: For convenience, select the tuning step that matches the frequency intervals of the repeaters in your area.
1 If necessary, push [V/MHz] to select the VFO mode.
2 Push [SET] to enter the Set mode.
3 Push [SET] or [MONI] one or more times, until "TS" appears.
4 Rotate [DIAL] to select the desired tuning step.
5 Push any key, other than [SET] or [MONI], to save the entry and exit the Set mode.

◇ Call channel selection
Push [M/CALL] one or more times to select the Call channel.
• "C" appears instead of a memory channel number.
• Push [M/CALL] to select the marine channel* mode, push again to return to the memory mode, or push [V/MHz] to select the VFO mode.

◇ Lock function
Use the Lock function to prevent accidental channel changes and unnecessary function access.
Hold down [LOCK] (SET) for 1 second to turn the Lock function ON or OFF.
• [PTT], [MONI], [VOL] and [SQL] can be used, even while the Frequency Lock function is ON.

◇ Monitor function
This function is used to listen to weak signals without disturbing the squelch setting, or to open the squelch manually, even when the tone squelch is in use.
Push [MONI] to open the squelch.
• The "BUSY" icon blinks.
• Push [MONI] again to cancel the function.

◇ Squelch attenuator
The transceiver has an RF attenuator related to the squelch level setting. Approximately 20 dB of attenuation is obtained at the maximum setting.

Turn ON the Squelch Attenuator function:
1 Push [⏻] to turn OFF the power.
2 While holding down [LOCK] (SET), hold down [⏻] for 1 second to turn ON the power and enter the Initial Set mode.
3 Push [SET] or [MONI] one or more times, to select the "SQL" item.
4 Rotate [DIAL] to select "AT" (Attenuator).
5 Push [⏻] to save and exit the Initial Set mode.
6 Rotate [SQL] clockwise past the 12 o'clock position, to activate the squelch attenuator.
• The attenuation level can be adjusted up to approximately 20 dB, between the 12 o'clock and fully clockwise positions.
• When setting the squelch from the microphone, a level greater than "17" activates the attenuator.

NOTE: When using with the Monitor function.
The squelch attenuator functions even when the Monitor function is in use. It is recommended to set [SQL] between 10 and 12 o'clock (7 to 17 level when it is set using the HM-133V).

◇ S-meter squelch
The transceiver has an S-meter squelch. The S-meter squelch allows you to set minimum signal level needed to open the squelch.

Turn ON the S-meter squelch function:
1 Push [⏻] to turn OFF the power.
2 While holding down [LOCK] (SET), hold down [⏻] for 1 second to turn ON the power and enter the Initial Set mode.
3 Push [SET] or [MONI] one or more times, to select the "SQL" item.
4 Rotate [DIAL] to select "SS" (S-meter squelch).
5 Push [⏻] to exit the Initial Set mode.
6 Rotate [SQL] clockwise past the 12 o'clock position, to activate the S-meter squelch.

◇ Selecting output power
Set the output power level to suit your operating requirements. Lower output power during short-distance communications may reduce the possibility of interference to other stations and will reduce current consumption.
Push [LOW] one or more times to select the output power.
• The power level can be changed even while transmitting.

*: Transmission is inhibited in the marine channel mode.

Scan start/stop

Preparation

If desired, set the scan resume option, program the scan edges, program 2 or more memory channels, and set the skip channels.

Operation

1 Select the mode or bank.

For full/programmed scan:

➔ Push [V/MHz] to select the VFO mode.

For memory or TAG channel scan:

➔ Push [M/CALL] one or more times to select the memory or marine channel mode.

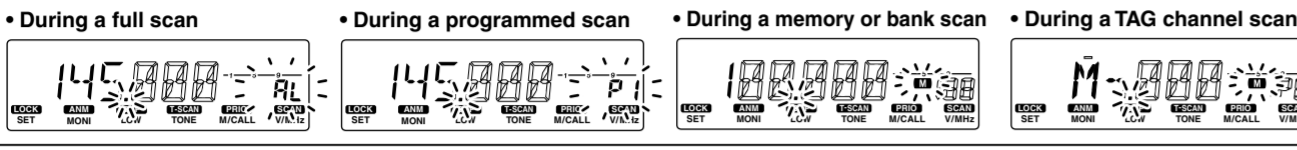
For bank scan:

➔ Push [BANK], and then rotate [DIAL] to select the desired bank.

2 Set the squelch to the point where the noise is just muted.

3 Hold down [SCAN] (V/MHz) for 1 second to start a scan.

- Rotate [DIAL] to change the scanning direction.
- Except for memory and TAG channel scans, the scan type blinks in the memory channel readout.
- During a full scan, push [SET] to switch between a full scan and a programmed scan (P1, P2 and P3).
- Push [V/MHz] to cancel the scan.



Memory channels

The IC-2300H has a total of 207 memory channels for storing often used operating frequencies, repeater settings, and so on. Memories include 6 scan edges and 1 Call channel.

PROGRAMMING MEMORY CHANNELS

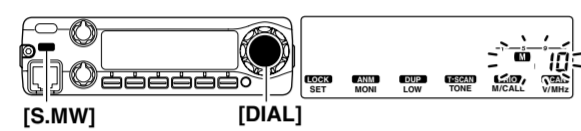
1. Setting the frequency

In the VFO mode, set the desired operating frequency, repeater, tone, tuning steps, and so on.

2. Selecting the memory channel

Push [S.MW], and then rotate [DIAL] to select the desired memory channel.

• The "M" icon and memory channel number blink.



3. Writing the memory channel

Hold down [MW] (S.MW) for 1 second to program.

- 3 beeps sound
- The memory channel number automatically increases when continuing to hold down [MW] (S.MW) after programming.

Selecting Memory channel

1 Push [M/CALL] one or more times to select the memory mode.

• The "M" icon appears.

2 Rotate [DIAL] to select a desired memory channel.

• Only programmed memory channels can be selected.

Set mode

Set mode setting

- 1 Push [SET] to enter the Set mode.
- 2 Push [SET] or [MONI] to select a desired item.
- 3 Rotate [DIAL] to select an option or value.
- 4 Push any key other than [SET] or [MONI], to save and exit the Set mode.

Set mode items

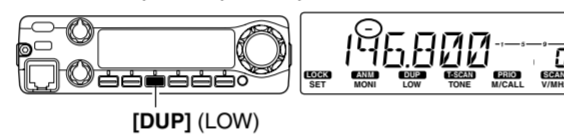
- Repeater tone frequency: Select the subaudible tone needed to access the repeater. (Display: 88.5)
- Tone squelch frequency: Select the CTCSS tone frequency for the tone squelch function. (Display: 88.5)
- DTCS code: Set the DTCS code for DTCS squelch use. (Display: 023)
- DTCS polarity: Set the Transmit and Receive DTCS polarity. (Display: DTP--NN)
- Frequency offset: Set the duplex frequency offset. (Display: 0600)
- Reverse mode: Turn the Reverse Duplex function ON or OFF. (Display: REV--OF)
- Tuning step: Set the VFO tuning step. (Display: TS--5)
- Scan stop timer: Select the scan pause timer option. (Display: SCP--10)
- Scan resume timer: Select the resume options of a scan pause. (Display: SCT--2)
- Display dimmer: Set the backlight brightness. (Display: DIM--4)
- Auto dimmer: Set the Auto Dimmer brightness. (Display: ATD--OF)
- Display color: Select the display backlight color. (Display: COL--AM)
- Display contrast: Adjust the LCD contrast. (Display: CON--2)
- Transmit permission: Turn the TX inhibit function ON or OFF. (Select "OFF" to inhibit transmitting.) (Display: TX--ON)
- Channel skip setting: Turn the Skip function ON or OFF. (Display: CHS--OF)
- Bank setting: Assign the desired memory and scan edge channels. (Display: BAK--...)
- Bank link function: Assign the desired banks for a continuous banks scan. (Display: BLK--OF)
- Wide/Narrow: Set both the transmit and receive passband. (Display: W/N--W)
- MIC gain: Set the microphone sensitivity. (Display: MIC--HI)

*Appears only when accessing the Set mode from the memory mode.

Repeater operation

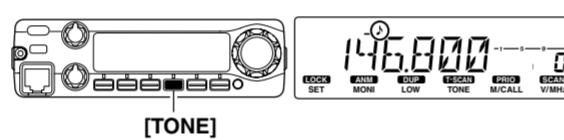
1. Setting duplex

Hold down [DUP] (LOW) for 1 second once or twice to select minus duplex or plus duplex.



2. Repeater tone

If accessing the repeater requires a subaudible tone, push [TONE] one or more times until "J" appears.



Initial Set mode

The initial Set mode is accessed at power ON, and allows you to set seldom-changed settings. In this way, you can "customize" the transceiver to suit your preference and operating style.

Initial Set mode operation

- 1 While holding down [SET], hold down [U] for 1 second to enter the Initial Set mode.
- 2 Push [SET] or [MONI] to select the desired item.
- 3 Rotate [DIAL] to select the option or value.
- 4 Push [U] to save and exit the initial Set mode.

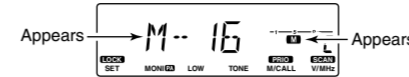
Initial Set mode items

- Key-touch beep: Turn the confirmation beeps ON (default) or OFF. (Display: BEP--ON)
- Time-out timer: Inhibit continuous transmissions longer than the set time period. (Display: TOT--OF)
- Auto power OFF: Automatically turn the transceiver's power OFF. (Display: POF--OF)
- Repeater lockout: Set the transmission lockout capability. (Display: RLO--OF)
- Squelch delay: Set the squelch delay to "S" (Short) or "L" (Long). (Display: SQT--S)
- Squelch type: Set the squelch type to "OFF" (Noise squelch), "SS" (S-meter Squelch) or "AT" (Squelch Attenuator). (Display: SQT--OF)
- Tone burst: Turn the Tone Burst function ON or OFF. (Display: SQT--OF)
- DTMF speed: Set the DTMF sending rate to 1-3 or 5. (Display: DTF--1)
- Display type: Set the display type while in the memory mode. (Display: DSP--FR)
- Voltage display: Turn the Voltage Display function ON or OFF. (Display: VLT--ON)

Marine channels (Transmission is inhibited in the marine channel mode.)

Selecting a marine channel

1 Push [M/CALL] one or more times to select the marine channel mode.



2 Rotate [DIAL] to select the desired channel.

Setting TAG channels

Marine channels; 09 and 16 are preprogrammed as TAG channels. You can set other marine or memory channels as TAG channels.

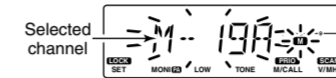
NOTE: Only TAG channels are selectable in the marine channel mode.

1 Push [M/CALL] one or more times to select the marine channel mode.

2 Push [S.MW].



3 Rotate [DIAL] to select a marine or memory channel to be added.



4 Hold down [MW] (S.MW) for 1 second.

• 3 beeps sound and the selected channel is added.

Clearing TAG channels

The programmed TAG channels can be cleared as a TAG channel.

1 Push [M/CALL] one or more times to select the marine channel mode.

2 Rotate [DIAL] to select the marine channel to be cleared.

3 Hold down [MW] (S.MW) for 1 second.

• 3 beeps sound and the selected channel is cleared.

Setting the Call/Priority channel

Set a TAG channel as the Call or Priority channel.

1 Push [M/CALL] one or more times to select the marine channel mode.

2 Hold down [OPT] (BANK) for 1 second, to enter the Marine Set mode.

3 Push [SET] or [MONI] until the "M-" and "C" or "M-" and "P" appear.



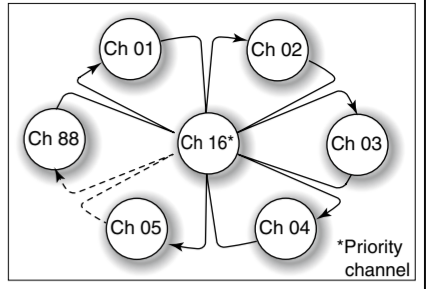
4 Rotate [DIAL] to select the channel to set as the Call or Priority channel.

5 Push any key other than [SET], [MONI] or [BANK], to save the setting and exit the Marine Set mode.

Priority watch, Dualwatch/Tri-watch

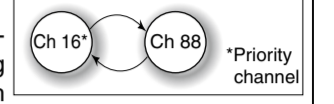
Priority watch

A priority watch sequentially searches through all TAG channels, while also monitoring the Priority channel. When a signal is detected on the Priority channel, the watch pauses until the signal disappears; when a signal is detected on a channel other than the Priority channel, the Priority watch switches to Dualwatch, until the signal disappears.



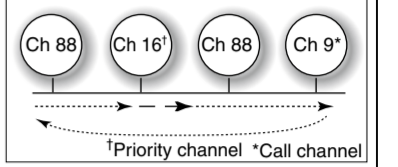
Dualwatch

Dualwatch monitors the Priority channel while receiving on a TAG channel. The watch pauses when a signal is received on the Priority channel.



Tri-watch

Tri-watch monitors the Priority channel and the Call channel while receiving on a TAG channel. Tri-watch switches to Dualwatch, when receiving a signal on the Call channel.



*One or more TAG channels other than the Call and Priority channels must be programmed, to start the Tri-watch.

Start the watch:

- 1 Push [M/CALL] one or more times to select the marine channel mode.
- 2 Hold down [OPT] (BANK) for 1 second, to enter the Marine Set mode.
- 3 Push [SET] or [MONI] until "PRI" appears.
- 4 Rotate [DIAL] to select the Watch type.
 - "PR": Priority watch
 - "DU": Dualwatch
 - "TR": Tri-watch.
- 5 Push any key other than [SET], [MONI] or [BANK], to save the setting and exit the Marine Set mode.
- 6 Hold down [M/CALL] (PRIO) for 1 second to start the watch.
 - The "PRIO" icon appears.
- 7 To stop the watch, push [M/CALL].

Foghorn function

The Foghorn function repeatedly sounds a horn.

- 1 Push [M/CALL] one or more times to select the marine channel mode.
- 2 Hold down [OPT] (BANK) for 1 second, to enter the Marine Set mode.
- 3 Push [SET] or [MONI] until "FVL" appears.
- 4 Rotate [DIAL] to set the output level to 1 (min) to 32 (max).
- 5 Push [SET] or [MONI] until "FREQ" appears.
- 6 Rotate [DIAL] to set the horn frequency to 200-850 Hz in 10 Hz steps.

- 7 Push [SET] or [MONI] until "FOG" appears.
- 8 Rotate [DIAL] to set the Foghorn pattern.
 - Select "OF" to turn OFF the function.
 - Refer to the below table for the horn output patterns.
- 9 Push any key other than [SET], [MONI] or [BANK], to save the setting and exit the Marine Set mode.
 - The "FOG" icon blinks while the Foghorn function is ON.
 - While sounding a horn, rotate [DIAL] to set the horn output level.

Foghorn patterns

| TYPE | PATTERN | USAGE |
|----------------------|---|--|
| UNDERWAY "FOG-WA" | One 5-second blast every 120 seconds. (5 sec. ±1, 120 sec.) | Motor vessel underway and making way. |
| STOP "FOG-ST" | Two 5-second blasts (separated by 2 seconds) every 120 seconds. (5 sec. ±1, 2 sec., 120 sec.) | Motor vessel underway but stopped (not making way). |
| SAIL "FOG-SA" | One 5-second blast followed by two 1-second blasts (each separated by 2 seconds) every 120 seconds. (5 sec. ±1, 1 sec., 2 sec., 120 sec.) | Sailing vessel underway, fishing vessel (underway or anchored), vessel not under command, a vessel restricted in her ability to maneuver (underway or at anchor), or a vessel towing or pushing another ahead. |
| TOW "FOG-TO" | One 5-second blast followed by three 1-second blasts (each separated by 2-seconds) every 120 seconds. (5 sec. ±1, 1 sec., 2 sec., 120 sec.) | Vessel under tow (manned). |

Marine Set mode

Marine Set mode operation

- 1 Push [M/CALL] one or more times to select the marine channel mode.
- 2 Hold down [OPT] (BANK) for 1 second, to enter the Marine Set mode.
- 3 Push [SET] or [MONI] to select the desired item.
- 4 Rotate [DIAL] to select the option or value.
- 5 Push any key other than [SET], [MONI] or [BANK], to save the setting and exit the Marine Set mode.

Marine Set mode items

- Priority channel: Set the Priority channel. (Display: M--16)
- Call channel: Set the Call channel. (Display: M--9)
- Skip channel: Turn the channel skip setting ON or OFF for the channel skip scans. (Display: CHS--OF)
- AF output selections: Select the AF output location. (Display: RSP--OF)
- Foghorn function: Set the Foghorn pattern to Underway ("WA"), Stop ("ST"), Sail ("SA"), Tow ("TO") or OFF ("OF"). (Display: FOG--OF)
- Foghorn frequency: Set the Foghorn frequency to between 200 and 850 Hz, in 10 Hz steps. (Display: FREQ400)
- Public Address (PA) output level: Set the Public Address output level to between 1 (min) and 32 (max). (Display: PVL 10)
- Foghorn output level: Set the foghorn output level to between 1 (min) and 32 (max). (Display: FVL 10)
- Watch type: Set the watch type to Priority watch ("PR"), Dualwatch ("DU") or Tri-watch ("TR"). (Display: PRI--PR)

Public Address (PA) function

The Public Address function is for hailing or making onboard announcements through a PA speaker. IMPORTANT: While the Public Address function is turned ON, the transceiver cannot receive nor transmit signals.

Setting the Public Address function

- 1 Push [M/CALL] one or more times to select the marine channel mode.
- 2 Hold down [OPT] (BANK) for 1 second, to enter the Marine Set mode.
- 3 Push [SET] or [MONI] until "PVL" appears.
- 4 Rotate [DIAL] to set the output level to between 1 (minimum) and 32 (maximum).
- 5 Push any key other than [SET], [MONI] or [BANK], to save the setting and exit the Marine Set mode.

Turning ON the Public Address function

- 1 Hold down [PA] (MONI) for 1 second, to turn ON the Public Address function. (Display: PA ON)
- 2 Hold down [PTT], and speak into the microphone at a normal voice level.
 - "PA ON" blinks, while holding down [PTT].
- 3 Hold down [PA] (MONI) for 1 second again, to turn OFF the Public Address function.

AF output selections

The IC-2300H has three AF output selections. Select the output that suits your operating style.

- 1 Push [M/CALL] one or more times to select the marine channel mode.
- 2 Hold down [OPT] (BANK) for 1 second, to enter the Marine Set mode.
- 3 Push [SET] or [MONI] until "RSP" appears.
- 4 Rotate [DIAL] to select the AF output location.
 - "OF": The received AF signal is output from the speaker jack. (When no external speaker is connected, the AF signal is output from the internal speaker.)
 - "AL": The received AF signal is output from both internal speaker and speaker jack.
 - "IN": The received AF signal is output from the internal speaker.
- 5 Push any key other than [SET], [MONI] or [BANK], to save the setting and exit the Marine Set mode.