



**OPERATING GUIDE**

**GUIDE TO OPERATING  
LAND TRANSCEIVERS  
WITH MDC 1200 SYSTEM**

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**Icom Inc.**

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## IMPORTANT

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Thank you for purchasing this Icom radio. The MDC 1200 system functions are added to your IC-F70 and IC-F1700 series radio.

**READ ALL INSTRUCTIONS** carefully and completely before using the transceiver.

**SAVE THIS OPERATING GUIDE**— This operating guide contains important operating instructions for;

- **IC-F70DT/DS** and **IC-F70T/S** VHF TRANSCEIVERS
- **IC-F80DT/DS** and **IC-F80T/S** UHF TRANSCEIVERS
- **IC-F1710**, **IC-F1721/D**, **IC-F1810** and **IC-F1821/D** VHF MOBILE TRANSCEIVERS
- **IC-F2710**, **IC-F2721/D**, **IC-F2810** and **IC-F2821/D** UHF MOBILE TRANSCEIVERS

**NOTE:** In this operating guide, the LCD illustration is described using the 2 lines indication mode.

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## ■ Programmable function keys

The following functions for MDC 1200 system operation can be assigned to the programmable function keys;

IC-F70 series : **[EMERGENCY]**, **[UP]**, **[DOWN]**,  
**[MONITOR]**, **[P0]**, **[P1]**, **[P2]** and **[P3]**

IC-F1700 series: **[UP]\***, **[DOWN]\***, **[P0]**, **[P1]**, **[P2]**, **[P3]** and  
**[P4]**

\*IC-F1810, IC-F1821/D, IC-F2810 and IC-F2821/D only

Consult your Icom dealer or system operator for details concerning your transceivers programming.

If the programmable function names are bracketed in the following explanations, the specific key is used to activate the function depends on the programming.

### **MDC CALL KEY**

"MDC" is displayed on the key indicator. (IC-F70 series only)

- Push to enter the MDC menu selection mode. Then select the desired MDC menu from "**SELCALL**," "**CALALERT**," "**STUN**," "**REVIVE**," "**RADIOCHK**," "**STATUS**" and "**MSG**" using **[CH Up]**, **[CH Down]**, **[MDC Up]** or **[MDC Down]**.

After selection, push this key again to enter the transceiver alias or message channel selection mode.

- While in the transceiver alias or message channel selection mode, push to return to the MDC menu selection mode.

### **MDC UP AND DOWN KEYS**

"MDA" or "MDV" is displayed on the key indicator. (IC-F70 series only)

- Push to select the MDC menu after entering the MD menu selection mode.
- Push to select the desired transceiver alias or message channel while in the transceiver alias or message channel selection mode.

### **MDC SELCALL KEY**

"SELC" is displayed on the key indicator. (IC-F70 series only)

Push to enter the transceiver alias selection mode.

- After the desired alias selection, push **[PTT]** to transmit a SelCall.

### **MDC CALLALERT KEY**

"CALA" is displayed on the key indicator. (IC-F70 series only)

Push to enter the transceiver alias selection mode.

- After the desired alias selection, push **[PTT]** to transmit a CallAlert.

## ■ MDC 1200 system operation

The MDC 1200 signaling system enhances your transceiver's capabilities. It allows PTT ID, Selective Calling, CallAlert, Radio Check, Stun, Revive, Status, Messaging and Emergency signaling. Also, the dispatcher can stun and revive transceivers on the system.

An additional feature of MDC 1200 found in Icom transceivers is called aliasing. Each transceiver on the system has a unique ID number. Aliasing allows the substitution of an alphanumeric name for this ID number. For transmit, you can use this alias to select a transceiver to call. For receive, the alias of the calling station is displayed instead of the ID.

Please note that your dealer has set one of the programmable keys (IC-F70 series: **[EMERGENCY]**, **[UP]**, **[DOWN]**, **[MONITOR]**, **[P0]**, **[P1]**, **[P2]** and **[P3]**, IC-F1700 series: **[UP]\***, **[DOWN]\***, **[P0]**, **[P1]**, **[P2]**, **[P3]** and **[P4]**) for MDC 1200 operation.

\* IC-F1810, IC-F1821/D, IC-F2810 and IC-F2821/D only

**NOTE:** In this operating guide, the following functions are assigned to the IC-F70 series for LCD description.

- [/] [P0]; MDC Call
- [/] [P1]; MDC SelCall
- [/] [P2]; MDC CallAlert

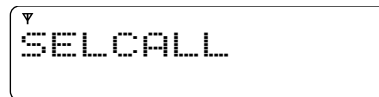
## ■ Transmitting a call

### ◆ Transmitting a Selective Call

Selective calling allows you to make a call to a specific station or to a particular group. Other MDC 1200 transceivers on the channel will not receive a selective call that does not match their station or group ID's.

- ① Push **[MDC Call]** to enter the MDC menu selection mode.
  - Or push **[MDC SelCall]** to enter the transceiver alias selection mode. In this case, skip step ②.

*For IC-F1700 series*



*For IC-F70 series*



- ② Push **[MDC Call]** again to enter the transceiver alias selection mode.
- ③ Select the desired alias using **[CH Up]**, **[CH Down]**, **[MDC Up]** or **[MDC Down]**.
- ④ Push and hold **[PTT]** to transmit the selective call to the selected station, then speak into the microphone.
  - "400" (for IC-F1700 series) or "400" (for IC-F70 series) appears.
- ⑤ Release **[PTT]** to receive.

## ◆ Transmitting a CallAlert

CallAlert allows you to notify another user who may be away from the transceiver that you want to talk.

- ① Push **[MDC Call]** to enter the MDC menu selection mode.
  - Or push **[MDC CallAlert]** to enter the transceiver alias selection mode. In this case, skip steps ② and ③.
- ② Select “**CALALERT**” using **[CH Up]**, **[CH Down]**, **[MDC Up]** or **[MDC Down]**.

*For IC-F1700 series*



*For IC-F70 series*



- ③ Push **[MDC Call]** again to enter the transceiver alias selection mode.
- ④ Select the desired alias using **[CH Up]**, **[CH Down]**, **[MDC Up]** or **[MDC Down]**.
- ⑤ Push **[PTT]** to transmit the CallAlert to the selected station.
  - “**CA CALL**” is displayed.
- ⑥ Release **[PTT]**.
  - “**CA OK**” is displayed if the targeted station received the alert.
  - “**CA FAIL**” is displayed if the targeted station does not send an acknowledgement.
- ⑦ After a specified time period has passed, the transceiver will return to receive.

## ◆ Transmitting a Stun Call

Stun call allows you to send MDC 1200 signal that will stun the targeted station.

- ① Push **[MDC Call]** to enter the MDC menu selection mode.
- ② Select “**STUN**” using **[CH Up]**, **[CH Down]**, **[MDC Up]** or **[MDC Down]**.

*For IC-F1700 series*



*For IC-F70 series*



- ③ Push **[MDC Call]** again to enter the transceiver alias selection mode.
- ④ Select the desired alias using **[CH Up]**, **[CH Down]**, **[MDC Up]** or **[MDC Down]**.
- ⑤ Push **[PTT]** to transmit the stun call to the selected station.
  - “**STN TX**” is displayed.
- ⑥ Release **[PTT]**.
  - “**STN ACK**” is displayed if the targeted station is turned ON, on channel and within range.
  - “**STN FAIL**” is displayed if the targeted station does not send an acknowledgement.
- ⑦ After a specified time period has passed, the transceiver will return to receive.

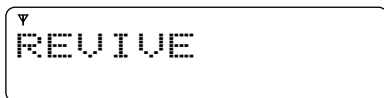
## 2 MDC 1200 OPERATION

### ◆ Transmitting a Revive Call

Revive call allows you to send MDC 1200 signals that will revive the targeted (stunned) station.

- ① Push **[MDC Call]** to enter the MDC menu selection mode.
- ② Select “**REVIVE**” using **[CH Up]**, **[CH Down]**, **[MDC Up]** or **[MDC Down]**.

*For IC-F1700 series*



*For IC-F70 series*



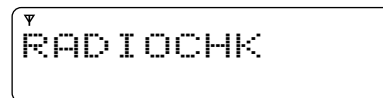
- ③ Push **[MDC Call]** again to enter the transceiver alias selection mode.
- ④ Select the desired alias using **[CH Up]**, **[CH Down]**, **[MDC Up]** or **[MDC Down]**.
- ⑤ Push **[PTT]** to transmit the revive call to the selected station.
  - “**REV TX**” is displayed.
- ⑥ Release **[PTT]**.
  - “**REV ACK**” is displayed if the targeted station is turned ON, on channel and within range.
  - “**REV FAIL**” is displayed if the targeted station does not send an acknowledgement.
- ⑦ After a specified time period has passed, the transceiver will return to receive.

### ◆ Transmitting a Radio Check Call

Radio check call allows you to determine whether another transceiver is turned on, within range and on channel without requiring any action from the targeted station user.

- ① Push **[MDC Call]** to enter the MDC menu selection mode.
- ② Select “**RADIOCHK**” using **[CH Up]**, **[CH Down]**, **[MDC Up]** or **[MDC Down]**.

*For IC-F1700 series*



*For IC-F70 series*



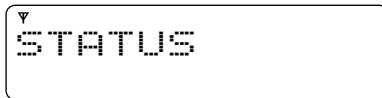
- ③ Push **[MDC Call]** again to enter the transceiver alias selection mode.
- ④ Select the desired alias using **[CH Up]**, **[CH Down]**, **[MDC Up]** or **[MDC Down]**.
- ⑤ Push **[PTT]** to transmit the radio check call to the selected station.
  - “**RDO CHK**” is displayed.
- ⑥ Release **[PTT]**.
  - “**CHK ACK**” is displayed if the targeted station is turned ON, on channel and within range.
  - “**CHK FAIL**” is displayed if the targeted station does not send an acknowledgement.
- ⑦ After a specified time period has passed, the transceiver will return to receive.

## ◆ Transmitting a Status Message

Status Messaging allows you to send a pre-programmed status message. There are 16 status codes that can be sent. In addition, the dispatcher can send an MDC 1200 signal that causes the transceiver to automatically transmit its current status.

- ① Push **[MDC Call]** to enter the MDC menu selection mode.
- ② Select **"STATUS"** using **[CH Up]**, **[CH Down]**, **[MDC Up]** or **[MDC Down]**.

*For IC-F1700 series*

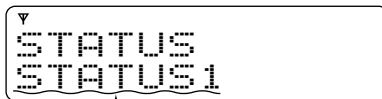


*For IC-F70 series*

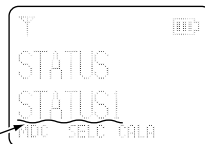


- ③ Push **[MDC Call]** again to enter the status message selection mode.

*For IC-F1700 series*



*For IC-F70 series*



Pre-programmed status message is displayed.

- ④ Select the desired status message using **[CH Up]**, **[CH Down]**, **[MDC Up]** or **[MDC Down]**.

- ⑤ Push **[PTT]** to transmit the selected status message.
  - **"STAT TX"** is displayed.
- ⑥ Release **[PTT]**.
  - **"STAT OK"** is displayed.
  - **"STA FAIL"** is displayed if there is no acknowledgment from the dispatcher.
- ⑦ After a specified time period has passed, the transceiver will return to receive.

## 2 MDC 1200 OPERATION

### ◆ Transmitting a Message

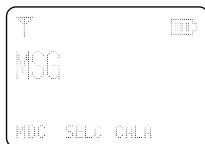
The transceiver can send a pre-programmed message. There are 16 messages that can be sent on a channel.

- ① Push **[MDC Call]** to enter the MDC menu selection mode.
- ② Select “MSG” using **[CH Up]**, **[CH Down]**, **[MDC Up]** or **[MDC Down]**.

*For IC-F1700 series*

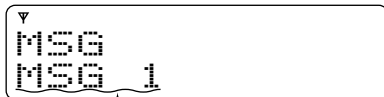


*For IC-F70 series*

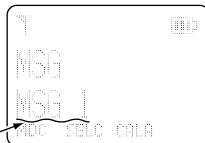


- ③ Push **[MDC Call]** again to enter the pre-programmed message selection mode.

*For IC-F1700 series*



*For IC-F70 series*



- ④ Select the desired message using **[CH Up]**, **[CH Down]**, **[MDC Up]** or **[MDC Down]**.
- ⑤ Push **[PTT]** to transmit the selected message.
  - “MSG TX” is displayed.

- ⑥ Release **[PTT]**.
  - “MSG OK” is displayed.
  - “MSG FAIL” is displayed if there is no acknowledgment from the dispatcher.
- ⑦ After a specified time period has passed, the transceiver will return to receive.



### ◇ PTTID Calls

The transceiver can send an MDC 1200 signal that includes PTTID when **[PTT]** is pushed (beginning of transmission) and released (end of transmission). If a PTTID call is received, the transceiver will display the calling station ID (or alias) and emit a beep\*.

\*Depends on the setting.





### ◇ Emergency Calls

The MDC 1200 Emergency feature can be accessed using the **[Emergency Single]** or **[Emergency Repeat]** key (described in the instruction manual). The transceiver will repeatedly send an Emergency MDC 1200 command for a programmed length of time until it receives an acknowledgment signal.

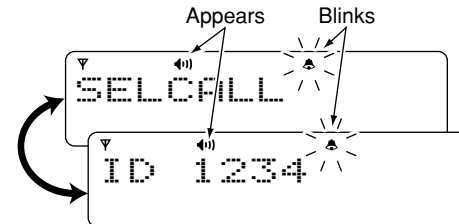
The emergency call can be transmitted without a beep emission and LCD indication change depends on the setting. With MDC 1200 Emergency, the transceiver can also be programmed to keep the microphone open during an emergency call, allowing monitoring of the situation. Ask your dealer for details.

## ■ Receiving a call

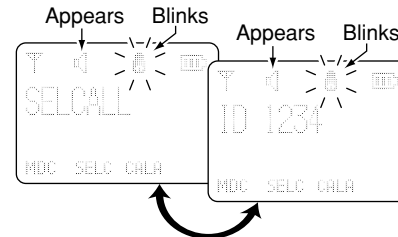
### ◇ Receiving a Selective Call

- When a selective call is received;
  - Beeps sound.
  - “” (for IC-F1700 series) or “” (for IC-F70 series) appears.
  - “” (for IC-F1700 series) or “” (for IC-F70 series) blinks.
  - The calling station ID (or alias) and “**SELCALL**” are displayed alternately.

#### For IC-F1700 series



#### For IC-F70 series



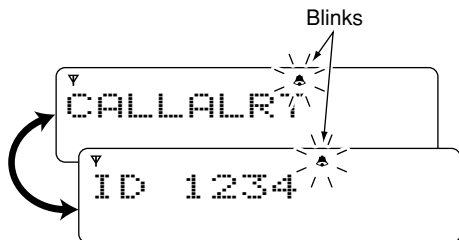
- Push and hold **[PTT]** and speak into the microphone.
- Release **[PTT]** to receive a response.

## 2 MDC 1200 OPERATION

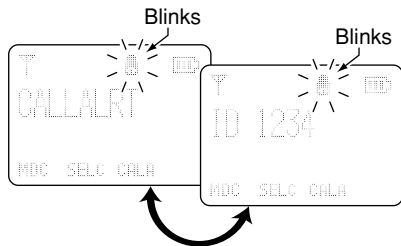
### ◆ Receiving a CallAlert

- ① When a CallAlert is received;
  - Beeps sound.
  - “📞” (for IC-F1700 series) or “📶” (for IC-F70 series) blinks.
  - The calling station ID (or alias) and “CALLALRT” are displayed alternately.

*For IC-F1700 series*



*For IC-F70 series*

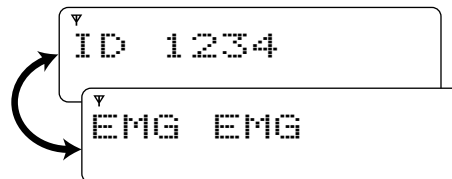


- ② Push and hold **[PTT]** and speak into the microphone.
- ③ Release **[PTT]** to receive a response.

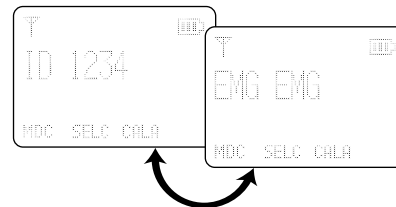
### ◆ Receiving a Emergency Call

- ① When an emergency call is received;
  - Beeps sound.
  - The calling station ID (or alias) and “EMG EMG” are displayed alternately until turning power OFF, the channel changing, etc.

*For IC-F1700 series*



*For IC-F70 series*

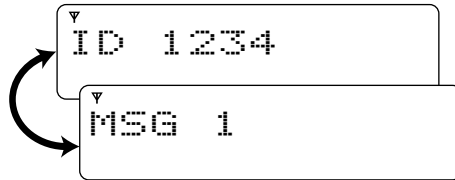


- ② When the automatic acknowledgement function is turned ON, the transceiver automatically transmits an acknowledgement call to the station.
  - The calling station stops calling.
- ③ Turn power OFF, change the channel, etc. to stop the beep and display indication.

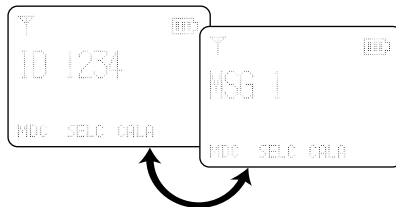
### ◆ Receiving a Message

- ① When a Message is received;
- Beeps sound.
  - The calling station ID (or alias) and the message are displayed alternately.

*For IC-F1700 series*



*For IC-F70 series*

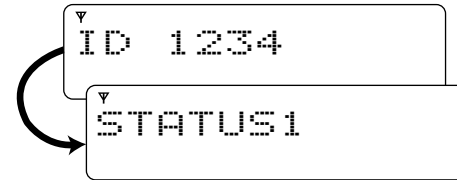


- ② Turn power OFF, push **[PTT]**, change the channel, etc. to stop the display indication.

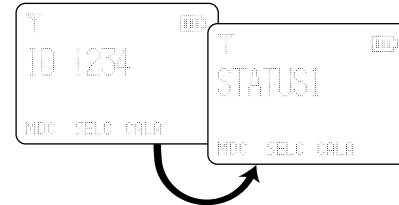
### ◆ Receiving a Status Message

- When a Status Message is received;
- Beeps sound.
  - The calling station ID (or alias) and the status message are displayed once.

*For IC-F1700 series*



*For IC-F70 series*



### ◆ Receiving a Stun or Revive

If a Stun command is received that matches your station ID, the transceiver will display “SORRY” and you can not receive or transmit. When a Revive command is received that matches your station ID, normal operation is restored.

**Count on us!**

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