

## SPECIFICATIONS

VHF	IC-F70DT/DS, IC-F70T/S	IC-F3161DT/DS,T/S IC-F3163T/S	IC-F50V	IC-F50	IC-F33GT/GS	IC-F3021T/S IC-F3023T/S	IC-F14/S
UHF	IC-F80DT/DS, IC-F80T/S	IC-F4161DT/DS,T/S IC-F4163T/S	IC-F60V	IC-F60	IC-F43GT/GS	IC-F4021T/S IC-F4023T/S	IC-F24/S
Frequency range (VHF)	136-174MHz	136-174MHz	136-174MHz	136-174MHz	136-174MHz	136-174MHz	136-174MHz
(UHF)	380-450MHz 400-470MHz 450-520MHz	400-470MHz 450-512MHz 450-520MHz	400-470MHz 450-512MHz 450-520MHz	400-470MHz 450-512MHz 450-520MHz	400-470MHz 450-512MHz 450-520MHz	400-470MHz 450-512MHz 450-520MHz	400-470MHz 450-512MHz 450-520MHz
Number of channels	256ch/32 zones	512ch/128 zones	128ch/8 zones	128ch/8 zones	256ch/16 zones	128ch/8 zones	16 (Rotary type) 4 (Max.; simple type)
Dimensions (projections are not included; WxHxD)	58.6x152x38mm 2 <sup>3</sup> / <sub>16</sub> x5 <sup>1</sup> / <sub>32</sub> x1 <sup>1</sup> / <sub>2</sub> in	53x136x38.9mm 2 <sup>1</sup> / <sub>32</sub> x5 <sup>1</sup> / <sub>32</sub> x1 <sup>17</sup> / <sub>32</sub> in	56x97x36.4mm 2 <sup>1</sup> / <sub>32</sub> x3 <sup>13</sup> / <sub>16</sub> x1 <sup>1</sup> / <sub>16</sub> in	56x97x36.4mm 2 <sup>1</sup> / <sub>32</sub> x3 <sup>13</sup> / <sub>16</sub> x1 <sup>1</sup> / <sub>16</sub> in	53x120x36.9mm 2 <sup>1</sup> / <sub>32</sub> x4 <sup>23</sup> / <sub>32</sub> x1 <sup>7</sup> / <sub>16</sub> in	53x120x36.9mm 2 <sup>1</sup> / <sub>32</sub> x4 <sup>23</sup> / <sub>32</sub> x1 <sup>7</sup> / <sub>16</sub> in	53x120x42.4mm 2 <sup>1</sup> / <sub>32</sub> x4 <sup>23</sup> / <sub>32</sub> x1 <sup>2</sup> / <sub>32</sub> in
Weight (approx.)	400g; 14.1oz (with BP-253)	340g; 12.0oz (with BP-232U)	280g/284g; 9.9/10.0oz (with BP-227, V/U)	280g; 9.9oz (with BP-227)	340g; 12.0oz (with BP-232N)	300g; 10.6oz (with BP-232N)	300g; 10.6oz (with BP-232N)
RF output power (VHF/UHF)	5W/4W	5W/5W	5W/4W	5W/4W	5W/4W	5W/4W	5W/4W
LCD display	12 character x 2 line	12 character x 2 line	8 character	8 character	8 character	8 character	LED
PTT ID	✓	✓	✓	✓	✓	✓	Tx only
Alias Table	500	500	500	500	500	5	-
Selcall	✓	✓	✓	✓	✓	-	-
Call Alert	✓	✓	✓	✓	✓	-	-
Status Message	✓	✓	Tx only	Tx only	Tx only	-	-
Status Request	✓	✓	Rx only	Rx only	Rx only	-	-
Message	✓	✓	Tx only	Tx only	Tx only	-	-
Emergency	✓	✓	✓	✓	✓	✓ (No ACK)	Tx only
Man down function	UT-124	UT-124R	-	-	UT-124	UT-124R	UT-124
Lone Worker function	-	✓	✓	✓	✓	✓	-
Radio Check	✓	✓	✓	✓	✓	Rx only	-
Radio Stun/Revive	✓	✓	Rx only	Rx only	Rx only	Rx only	-
Call log	✓	✓	-	-	-	-	-
Number of profiles	5	5	5	5	5	5	1

VHF	IC-F1821/D	IC-F1721/D	IC-F5061/D, IC-F5063	IC-F5021 IC-F5023/H	IC-F121S IC-F111S
UHF	IC-F2821/D	IC-F2721/D	IC-F6061/D, IC-F6063	IC-F6021 IC-F6023/H	IC-F221S IC-F211S
Frequency range (VHF)	136-174MHz	136-174MHz	136-174MHz	136-174MHz	136-174MHz
(UHF)	400-470MHz 450-512MHz	400-470MHz 450-512MHz	400-470MHz 450-512MHz 450-520MHz	400-470MHz 450-512MHz 450-520MHz	400-430MHz 440-490MHz
Number of channels	256ch/32 zones	256ch/32 zones	512ch/128 zones	128ch/8 zones	8ch/2 zones
Dimensions (projections are not included; WxHxD)	175x45x170 mm 6 <sup>7</sup> / <sub>16</sub> x1 <sup>2</sup> / <sub>32</sub> x6 <sup>1</sup> / <sub>16</sub> in	175x45x170 mm 6 <sup>7</sup> / <sub>16</sub> x1 <sup>2</sup> / <sub>32</sub> x6 <sup>1</sup> / <sub>16</sub> in	160x45x150 mm 6 <sup>3</sup> / <sub>16</sub> x1 <sup>2</sup> / <sub>32</sub> x5 <sup>2</sup> / <sub>32</sub> in	150x40x167.5 mm 5 <sup>2</sup> / <sub>32</sub> x1 <sup>1</sup> / <sub>16</sub> x6 <sup>1</sup> / <sub>32</sub> in	150x40x167.5 mm 5 <sup>2</sup> / <sub>32</sub> x1 <sup>1</sup> / <sub>16</sub> x6 <sup>1</sup> / <sub>32</sub> in
Weight (approx.)	1.5kg; 3.3lb	1.5kg; 3.3lb	1.3kg; 2.9lb	1.1kg; 2.4lb	1.1kg; 2.4lb
RF output power (VHF/UHF)	50W/45W	50W/45W	50W/45W 25W/25W (F5063/F6063)	50W/45W 25W/25W (F5023/F6023)	50W/45W
LCD display	12 character x 2 line	12 character x 2 line	12 character x 2 line	8 character	LED
PTT ID	✓	✓	✓	✓	Tx only
Alias Table	500	500	500	5	-
Selcall	✓	✓	✓	✓	-
Call Alert	✓	✓	✓	✓	-
Status Message	✓	✓	✓	✓	-
Status Request	✓	✓	✓	✓	-
Message	✓	✓	✓	✓	-
Emergency	✓	✓	✓	✓ (No ACK)	Tx only
Lone Worker function	-	-	✓	✓	-
Radio Check	✓	✓	✓	Rx only	-
Radio Stun/Revive	✓	✓	✓	Rx only	-
Call log	✓	✓	✓	✓	-
External out	✓	✓	✓	✓	-
Number of profiles	5	5	5	5	1

✓ : Available    - : Not available    UT-124 : Requires internal unit (Eg. UT-124)

# MDC 1200 Compatible Models



## MDC 1200 signaling features

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# Compatible with other MDC 1200 systems, take advantage of Icom quality

FEATURE	FUNCTION	BENEFIT
<b>PTT ID*</b>	The radio sends own ID informing everyone on the system when the PTT button is pushed/released.	Allows the dispatch and other units to know who is calling. Easily identifies callers in noisy environments as the radio notifies that user who transmitted. Use with the alias table to assign text names for easy identification.
<b>Alias Table*</b>	Use this feature for both transmit and receive. On transmit the user can scroll through up to 500 aliases*1 on the display. Once the user selects the name the user can then call that unit. On receive if a unit ID corresponds with an alias, then that alias is shown on the display.	Allows users to quickly identify transmissions. You don't need to cross reference names to a table or memorize a bunch of numbers. Get your message through to the correct person easily. Easily identify other users by name as they communicate.
<b>Call Alert*</b>	In an open channel environment it allows users to sound an alert at user's radio when they're not hearing another person's call.	Useful in noisy environments where you may not hear normal calls or when the user is away from their radio.
<b>SelCall*</b>	Call individual users on a channel for private communications.	Enhances channel efficiency by allowing users to call a selected radio out in the field without disturbing other users.
<b>Emergency Call*</b>	The emergency call function allows you to send an emergency signal to the dispatch, as well as to other units. After the dispatch acknowledges the emergency signal, the radio automatically ceases sending out the signal, clearing the channel for normal traffic.	Allows users to quickly identify who transmitted an emergency signal. The PTT ID of the unit that transmitted the emergency call is displayed on screen. Essential for public safety and plant security, as well as in any hazardous, high-risk areas. The silent mode allows the user to call for help without alerting the people around them.
<b>Emergency Man Down*</b>	Allows the radio to automatically initiate any of the emergency features, when a "man down" condition exists (UT-124/R man down unit is required).	If someone is in trouble, the radio will automatically activate the emergency function.
<b>Lone Worker Function*</b>	When the radio is not operated for a preset period, the radio sounds a beep and requires you to push any button. If a button is not pushed, the radio automatically transmits an emergency signal.	If someone is in trouble, the radio will automatically activate the emergency function. This function is similar to the man down function, but does not require the man down unit.
<b>Emergency "Hot Mic" Monitoring*</b>	After the dispatch acknowledges an emergency message, the radio can transmit anything the microphone hears for a preprogrammed time period.	The dispatcher can listen into the environment where the emergency is taking place to help identify if an emergency exists, or what is occurring near the user.
<b>Auto Emergency Retransmit*</b>	If an initial emergency attempt(s) is unsuccessful due to the radio channel traffic, the radio will automatically send multiple emergency signals until it gets through. The number of retry attempts required to activate this function is programmable.	Maximizes the chance that an emergency call can be heard in a high-traffic environment.

\*Depending on the model, some MDC functions are not available. Please see the back page for details.

\*1: 5 aliases only for IC-F3021 and IC-F5021 series. \*2: 16 status and 16 messages per a MDC system profile, 5 MDC profiles available.

FEATURE	FUNCTION	BENEFIT
<b>Call Log*</b>	Displays the received call history of the SelCall, Call alert and Emergency call.	Log information includes the type of call, who placed the call, and when the call was placed.
<b>Status*</b>	Allows a user to set up to 16*2 conditions such as "on duty", "at lunch", or "in route". After a unit sends its status to the dispatch/controller, its status will be maintained in memory until changed. Also program radios to poll other units for their current status.	Immediately informs the dispatch of your current status and allows the dispatcher/controller to obtain the status at any time.
<b>Message*</b>	Send and receive up to 16*2 programmable messages to the dispatch.	Improves channel efficiency allowing the user to send commonly used messages using MDC instead of voice. Enables privacy by sending messages in digital format rather than voice and only the dispatcher can receive the messages.
<b>Stun*</b>	Send and receive stun commands. This feature will place a subscriber unit in a stunned state where no functionality is available until a revive command is received.	Program the radio to either disable other units or be remotely disabled itself in the event of an unauthorized use or a theft. Excellent for maintaining communication integrity with minimal disruption.
<b>Revive*</b>	Send and receive revive commands. This feature will revive a subscriber unit that previously received a stun command. Until a stunned unit receives this command, all functions will be locked out.	In the event that a radio was stunned, the dispatch can remotely revive the radio.
<b>Radio Check*</b>	Allows the dispatch to verify if a radio is powered on and within the communications range.	Check to see if a remote radio in the field is on, without disturbing or notifying the user. Also check for a missing radio before initiating stun.
<b>External Output*</b>	Available on mobile units. Program this output to become active when it receives an emergency, select or call alert call. Connect this output to an external device such as a siren or alarm strobe light.	Allows the user to customize their mobile systems for special modifications when radio receives a select call, call alert or emergency call.
<b>Multiple MDC System Profiles*</b>	Configure up to 5 different system combinations of all MDC functions. Store specific profiles such as PTT ID, emergency, status, etc, for the applications need on each channel.	Allows different MDC ID numbers to be used in the same radio, depending upon channel selected. Perfect for integrating one radio into multiple agency communications systems or multiple locations.
<b>Compatible with Other MDC 1200 System</b>	Behaviorally compatible with other brand's MDC 1200 functionality and operations.	Easily integrate Icom radios into your existing fleet using MDC 1200.

