



# MDC 1200 Compatible Models



MDC 1200 signaling features

# Compatible with other MDC 1200 systems,

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 on the display. Once 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>	Push the emergency button or use the "man down" option board (UT-124 for handheld units) to send an emergency signal to the dispatch, as well as to other units*1 (silent or audible). 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 the public safety and plant security, as well as in any hazardous, high-risk area. The silent mode allows the user to call for help without alerting the people around them.
<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.
<b>Call log*1</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>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>Emergency Man Down*2</b>	Allows the radio to automatically initiate any of the emergency features, when a "man down" condition exists (UT-124 man down unit is required).	If someone is in trouble, the radio will automatically activate the emergency function.

\*1 IC-F1721, IC-F1821, IC-F5061 and IC-F70 series only. See the back page. \*2 IC-F70 and IC-F33G series only. \*3 IC-F1721, IC-F1821 and IC-F5061 series only.

\*\*4 16 status messages per MDC system, 5 MDC systems available.



IC-F1821D IC-F2821D  
IC-F1821 IC-F2821

IC-F1721D IC-F2721D  
IC-F1721 IC-F2721

IC-F5061 IC-F6061

# take advantage of Icom quality

FEATURE	FUNCTION	BENEFIT
<b>Status</b>	Allows a user to set up to 80*4 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*1 to poll other unit for their current status.	Immediately informs the dispatch of your current status and allows the dispatcher/controller to obtain status at any time.
<b>Message</b>	Send and receive*1 up to 80*4 programmable messages to the dispatch.	Improves channel efficiency allowing 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*1 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*1 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 missing radio before initiating stun.
<b>External Output*3</b>	Available on mobile units. Program this output to become active when 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 Profiles</b>	Configure up to 5 different combinations of all MDC functions. Store specific profiles for the applications needed 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 Motorola's MDC 1200 functionality and operations.	Easily integrate Icom radios into your existing fleet using MDC 1200.



IC-F70DT  
IC-F70DS  
IC-F70T  
IC-F70S

IC-F80DT  
IC-F80DS  
IC-F80T  
IC-F80S

IC-F50

IC-F60

IC-F33GT  
IC-F33GS

IC-F43GT  
IC-F43GS

# SPECIFICATIONS

		IC-F70T/S IC-F70DT/DS	IC-F80T/S IC-F80DT/DS	IC-F50	IC-F60	IC-F33GT/GS	IC-F43GT/GS	IC-F1721/D IC-F1821/D	IC-F2721/D IC-F2821/D	IC-F5061	IC-F6061	
<b>SPECIFICATIONS</b>	Frequency coverage (Unit: MHz) (Varies according to version)	136-174	400-470 450-520	136-174	400-470 450-512 450-520	136-174	400-470 450-512 450-520	136-174	400-470 450-512	136-174	400-470 450-512 450-520	
	Number of channels	256 ch/32 zones		128 ch/8 banks		256 ch/16 banks		256 ch/32 zones		512 ch/128 zones		
	Dimensions (projections not included; W×H×D)	58.6×152×38 mm 2 <sup>5</sup> / <sub>16</sub> ×5 <sup>3</sup> / <sub>16</sub> ×1 <sup>1</sup> / <sub>2</sub> in		56×97×36.4 mm 2 <sup>1</sup> / <sub>2</sub> ×3 <sup>1</sup> / <sub>16</sub> ×1 <sup>1</sup> / <sub>16</sub> in		53×120×32.5 mm 2 <sup>3</sup> / <sub>32</sub> ×4 <sup>2</sup> / <sub>32</sub> ×1 <sup>9</sup> / <sub>32</sub> in		175×45×170 mm 6 <sup>7</sup> / <sub>8</sub> ×1 <sup>2</sup> / <sub>32</sub> ×6 <sup>1</sup> / <sub>16</sub> in		160×45×150 mm 6 <sup>5</sup> / <sub>16</sub> ×1 <sup>2</sup> / <sub>32</sub> ×5 <sup>2</sup> / <sub>32</sub> in		
	Weight (approx.)	400g; 14.1oz (with BP-235)		280g; 9.9oz (with BP-227)		321g; 11.3oz (with BP-232N, VHF version)		1.5kg; 3.3lb		1.31kg; 2.9lb		
	RF output power (High)	5W	4W	5W	4W	5W	4W	50W	45W	50W	45W	
	Intermodulation rejection (FM)	75dB (typ.)		74dB (typ.)		74dB (typ.)		80/75dB (typ.)		77dB (typ.)		
	AF output power	500mW (typ.) (at 5% dist. with an 8Ω load)		500mW (typ.) (at 5% dist. with an 8Ω load)		500mW (typ.) (at 5% dist. with an 8Ω load)		4W (typ.), 22W (typ., Ext audio) (at 10% dist. with a 4Ω load)		4W (typ.) (at 10% dist. with a 4Ω load)		
	LCD Display	12 character × 2-line		8 character		8 character		12 character × 2-line		12 character × 2-line		
<b>MDC 1200 FEATURES</b>	PTT ID (Tx/Rx)	✓		✓		✓		✓		✓		
	Selcall (Tx/Rx)	✓		✓		✓		✓		✓		
	Radio Check (Tx/Rx)	✓		✓		✓		✓		✓		
	Call alert (Tx/Rx)	✓		✓		✓		✓		✓		
	Stun/Revive (Tx/Rx)	✓		Rx only		Rx only		✓		✓		
	Message (Tx/Rx)	✓		Tx only		Tx only		✓		✓		
	Status (Tx/Rx)	✓		Tx only		Tx only		✓		✓		
	Emergency (Tx/Rx)	✓		Tx only		Tx only		✓		✓		
	Call log	✓		-		-		✓		✓		
	Man down function	UT-124		-		UT-124		-		-		
External out	-		-		-		✓		✓			
<b>OTHER FEATURES</b>	Voice Scrambler	Inversion	✓		✓		✓		✓		✓	
		Non-rolling	UT-109 (Version 02)		✓ <sup>*1</sup>		UT-109 (Version 02)		UT-109 (Version 02)		UT-109R	
		Rolling	UT-110 (Version 02)		✓ <sup>*1</sup>		UT-110 (Version 02)		UT-110 (Version 02)		UT-110R	
	APCO P25 digital <sup>*3</sup>	✓ <sup>*2</sup>		-		-		✓ <sup>*2</sup>		-		
	6.25kHz digital <sup>*3</sup>	-		-		-		-		UT-119H		
	LTR <sup>®</sup> trunking <sup>*3</sup>	UT-111		-		-		UT-111		✓		
	Intrinsically safe	-		✓ <sup>*1</sup>		-		-		-		

\*1 Depending on version. \*2 UT-120 and/or activation key is required depending on version.

\*3 Not available in MDC 1200 mode.

✓ : Available      - : Not available

UT-111 : Required internal unit (Eg. UT-111)



Icom makes rugged products that have been tested to and passed the following MIL-STD requirements and strict environmental standards.

Standard	Low Pressure Storage (Altitude)	Low Pressure Operation (Altitude)	High Temperature Storage	High Temperature Operation	Low Temperature Storage	Low Temperature Operation	Temperature Shock	Solar Radiation	Rain Blowing	Rain Drip	Humidity Induced	Salt Fog	Dust Blowing	Immersion	Vibration	Shock Functional	Shock Transit Drop
MIL-810 C Method, Procedure	500.1, I	-	501.1, I	-	502.1, I	-	503.1, I	505.1, I	506.1, I	506.1, II	507.1, I	509.1, I	510.1, I	512.1, I	514.2, VIII, X	516.2, I	516.2, II, IV
MIL-810 D Method, Procedure	500.2, I	500.2, II	501.2, I	501.2, II	502.2, I	502.2, II	503.2, I	505.2, I	506.2, I	506.2, III	507.2, II	509.2, I	510.2, I	512.2, I	514.3, I	516.3, I	516.3, IV
MIL-810 E Method, Procedure	500.3, I	500.3, II	501.3, I	501.3, II	502.3, I	502.3, II	503.3, I	505.3, I	506.3, I	506.3, II	507.3, II	509.3, I	510.3, I	512.3, I	514.4, I	516.4, I	516.4, IV
MIL-810 F Method, Procedure	500.4, I	500.4, II	501.4, I	501.4, II	502.4-3, I	502.4-3, II	503.4, I	505.4, I	506.4, I	506.4, III	507.4	509.4	510.4, I	512.4, I	514.5, I	516.5, I	516.5, IV
IC-F70T/DS, IC-F70T/S IC-F80T/DS, IC-F80T/S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
IC-F50, IC-F60	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
IC-F33GT/GS, IC-F43GT/GS	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
IC-F1821/D, IC-F2821/D	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
IC-F1721/D, IC-F2721/D	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

The tests for the IC-F5061 series are still under evaluation.

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**Icom Inc.** 1-1-32, Kami-minami, Hirano-ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013 URL: <http://www.icom.co.jp/world/index.html>

**Count on us!**

**Icom America Inc.**  
2380 116th Avenue NE,  
Bellevue, WA 98004, U.S.A.  
Phone: +1 (425) 454-8155  
Fax: +1 (425) 454-1509  
E-mail: [sales@icomamerica.com](mailto:sales@icomamerica.com)  
URL: <http://www.icomamerica.com>

**Icom New Zealand**  
146A Harris Road, East Tamaki,  
Auckland, New Zealand  
Phone: +64 (09) 274 4062  
Fax: +64 (09) 274 4708  
E-mail: [inquiries@icom.co.nz](mailto:inquiries@icom.co.nz)  
URL: <http://www.icom.co.nz>

**Icom (UK) Ltd.**  
Unit 9, Sea St., Herne Bay,  
Kent, CT6 8LD, U.K.  
Phone: +44 (0)1227 741741  
Fax: +44 (0)1227 741742  
E-mail: [info@icomuk.co.uk](mailto:info@icomuk.co.uk)  
URL: <http://www.icomuk.co.uk>

**Asia Icom Inc.**  
6F No. 68, Sec. 1 Cheng-Teh Road,  
Taipei, Taiwan, R.O.C.  
Phone: +886 (02) 2559 1899  
Fax: +886 (02) 2559 1874  
E-mail: [sales@asia-icom.com](mailto:sales@asia-icom.com)  
URL: <http://www.asia-icom.com>

Your local distributor/dealer:

**Icom Canada**  
Glenwood Centre #150-6165 Highway 17,  
Delta, B.C., V4K 5B8, Canada  
Phone: +1 (604) 952-4266  
Fax: +1 (604) 952-0090  
E-mail: [info@icomcanada.com](mailto:info@icomcanada.com)  
URL: <http://www.icomcanada.com>

**Icom (Europe) GmbH**  
Communication Equipment  
Himmelgeister Str. 100,  
D-40225 Düsseldorf, Germany  
Phone: +49 (0)211 346047  
Fax: +49 (0)211 333639  
E-mail: [info@icomeurope.com](mailto:info@icomeurope.com)  
URL: <http://www.icomeurope.com>

**Icom France s.a.s.**  
Zac de la Plaine,  
1 Rue Brindejone des Moulinais, BP 45804,  
31505 Toulouse Cedex 5, France  
Phone: +33 (5) 61 36 03 03  
Fax: +33 (5) 61 36 03 00  
E-mail: [icom@icom-france.com](mailto:icom@icom-france.com)  
URL: <http://www.icom-france.com>

**Beijing Icom Ltd.**  
10C07, Long Silver Mansion, No.88, Yong Ding  
Road, Haidian District, Beijing, 100039, China  
Phone: +86 (010) 5889 5391/5392/5393  
Fax: +86 (010) 5889 5395  
E-mail: [bjicom@bjicom.com](mailto:bjicom@bjicom.com)  
URL: <http://www.bjicom.com>

**Icom (Australia) Pty. Ltd.**  
Unit 1 / 103 Garden Road,  
Clayton, VIC 3168 Australia  
Phone: +61 (03) 9549 7500  
Fax: +61 (03) 9549 7505  
E-mail: [sales@icom.net.au](mailto:sales@icom.net.au)  
URL: <http://www.icom.net.au>

**Icom Spain S.L.**  
Ctra. Rubi, No. 88 "Edificio Can Castanyer"  
08190, Sant Cugat del Valles, Barcelona, Spain  
Phone: +34 (93) 590 26 70  
Fax: +34 (93) 589 04 46  
E-mail: [icom@icomspain.com](mailto:icom@icomspain.com)  
URL: <http://www.icomspain.com>

**Icom Polska**  
Sopot, 3 maja 54, Poland  
Phone: +48 (58) 550 7135  
Fax: +48 (58) 551 0484  
E-mail: [icompolska@icompolska.com.pl](mailto:icompolska@icompolska.com.pl)  
URL: <http://www.icompolska.com.pl>