

# IC-F1000/S/T

## *PRODUCT GUIDE*



▲IC-F1000



▲IC-F1000S



▲IC-F1000T

## **PREFACE**

This product guide is made to promote our new products, the IC-F1000 (N) series transceivers. The new product's outline and specifications are described in this document, and you will understand the target users, built-in functions, and sales points of these transceivers. This product guide is for dealer sales staff members who are going to sell these transceivers for the first time but have already sold Icom analog land mobile products.

Icom hopes this product guide will help you to promote sales of the IC-F1000 (N) series transceivers.

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# TABLE OF CONTENTS

<b>SECTION 1</b>	<b>PRODUCT OUTLINE</b> .....	<b>4</b>
	1-1 ABOUT THE IC-F1000 (N) SERIES TRANSCEIVERS .....	4
	1-2 SELLING POINTS .....	5
	1-3 PANEL DESCRIPTION .....	6
	1-4 FUNCTION DISPLAY .....	7
	1-5 DIMENSIONS .....	8
	1-6 TARGET USERS .....	9
<b>SECTION 2</b>	<b>PRODUCT RANGE</b> .....	<b>10</b>
<b>SECTION 3</b>	<b>COMPARISON WITH EXISTING MODELS</b> .....	<b>11</b>
	3-1 SPECIFICATION COMPARISON .....	11
	3-2 FUNCTION COMPARISON .....	14
<b>SECTION 4</b>	<b>COMPARISON TO COMPETITORS</b> .....	<b>15</b>
	4-1 SPECIFICATION COMPARISON .....	15
	4-2 FUNCTION COMPARISON .....	17
<b>SECTION 5</b>	<b>MAJOR FUNCTIONS</b> .....	<b>18</b>
	5-1 EMERGENCY CALL TRANSMISSION WITH THE MAN DOWN FUNCTION, MOTION DETECTION, AND LONE WORKER .....	18
	5-2 LONG BATTERY LIFE .....	18
	5-3 VARIOUS TYPES OF SIGNALING .....	18
	5-4 LOUD AUDIO OUTPUT .....	18
<b>SECTION 6</b>	<b>OPTIONAL ACCESSORIES</b> .....	<b>19</b>

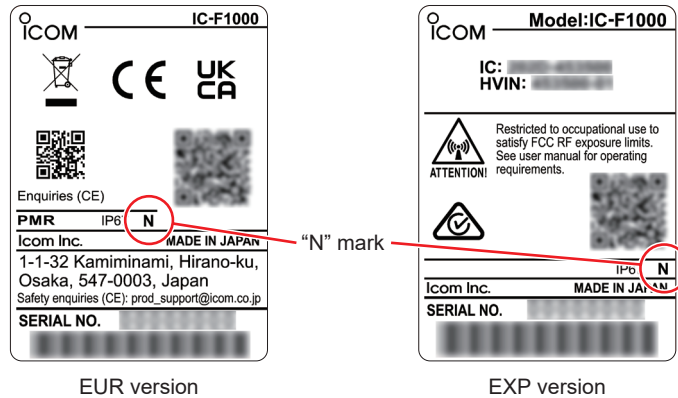
## SECTION 1 PRODUCT OUTLINE

### 1-1 ABOUT THE IC-F1000 (N) SERIES TRANSCEIVERS

The new IC-F1000 (N) series transceivers are successors to the IC-F1000 series, which are low-tier analog land mobile transceivers released in 2014. The previous ones have been on sale for a long time, with improvements made, including audio output boosting in 2018 and a simplified structure in 2019. But recently, as with general long-selling electronic devices, concerns have arisen that some parts would be discontinued. So the new ones, featuring replacement parts and a new circuit configuration, have been developed.

However, the USA version of the new ones will not be released because a new type approval for analog transceivers is not applicable under the FCC regulations. Therefore, be aware that the previous ones will continue to be manufactured and sold for the USA market.

The model names remain the same as the previous ones: IC-F1000, IC-F1000S, or IC-F1000T; however, the new ones will be collectively referred to as the IC-F1000 (N) series in this document. To distinguish from previous ones on the actual transceivers, the new ones have an “N” mark on the serial label, as shown below.



Serial label examples for the IC-F1000 (N) series transceivers

**NOTE:** The usable functions slightly differ between the new and previous ones. Refer to “3-2 FUNCTION COMPARISON.”

## 1-2 SELLING POINTS

### 1-2-1 EXTENSIVE LINE-UP

A total of three versions are available to suit user demands, as shown below: Non-Display type, Simple key type, and Ten-key type. A 14-segment eight-digit LCD is used for the Simple key and Ten-key types.



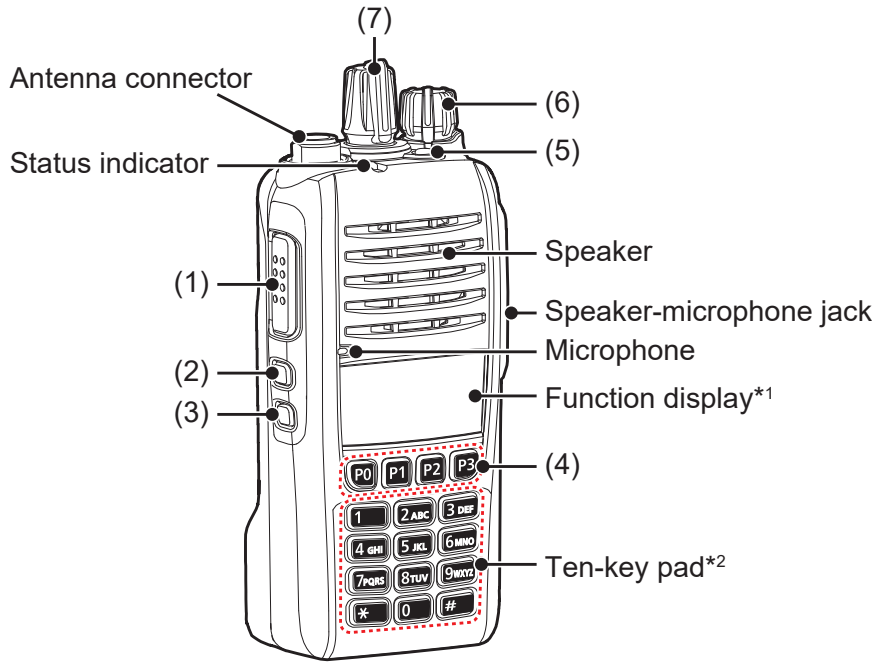
### 1-2-2 COMMON OPTIONAL ACCESSORIES TO PREVIOUS MODEL

The IC-F1000 (N) series has the same exterior design as the previous IC-F1000 series. Therefore, the same optional accessories, except for the programming software, can be used. It is easy to be a replacement or an additional transceiver in an existing communication system.

### 1-2-3 DURABILITY

Although the IC-F1000 (N) series is a low-tier model, it offers IP67 waterproof and dustproof performance, as well as MIL-STD-810 G robustness. It is suitable for users requiring durability.

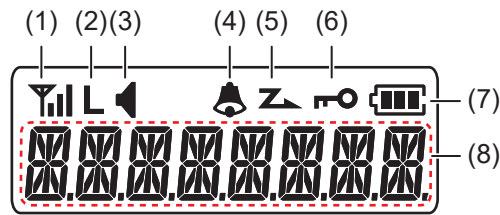
### 1-3 PANEL DESCRIPTION



Key	Description																																																
(1) [PTT]	Hold down to transmit, release to receive.																																																
(2) [Up]*/[Upper]*3 (3) [Down]*/[Lower]*3 (4) [P0], [P1], [P2], [P3]*1 (5) [Emer]	<p>Programmable keys. The following functions can be assigned using the optional CS-F2000N programming software.</p> <table border="1"> <thead> <tr> <th colspan="3">Assignable functions</th> </tr> </thead> <tbody> <tr> <td>CH Up</td> <td>Lock</td> <td>Surveillance</td> </tr> <tr> <td>CH Down</td> <td>Lone Worker</td> <td>Siren</td> </tr> <tr> <td>Zone</td> <td>High/Low</td> <td>TX Code Enter</td> </tr> <tr> <td>Scan Start/Stop</td> <td>C.Tone CH Ent</td> <td>TX Code CH Select</td> </tr> <tr> <td>Scan Add/Del (Tag)</td> <td>Talk Around</td> <td>TX Code CH Up</td> </tr> <tr> <td>Prio A</td> <td>Wide/Narrow</td> <td>TX Code CH Down</td> </tr> <tr> <td>Prio A (Rewrite)</td> <td>DTMF Autodial</td> <td>TX Code CH UP</td> </tr> <tr> <td>Prio B</td> <td>Re-dial</td> <td>TX Code CH DN</td> </tr> <tr> <td>Prio B (Rewrite)</td> <td>Call</td> <td>ID-MR Select</td> </tr> <tr> <td>MR-CH 1</td> <td>Call A (Code 1)</td> <td>User Set Mode</td> </tr> <tr> <td>MR-CH 2</td> <td>Call B (Code 2)</td> <td>Sp. Func 1</td> </tr> <tr> <td>MR-CH 3</td> <td>Call A (Code 30)</td> <td>Sp. Func 2</td> </tr> <tr> <td>MR-CH 4</td> <td>Call B (Code 29)</td> <td>Announce</td> </tr> <tr> <td>Moni</td> <td>Emergency</td> <td>Shift</td> </tr> <tr> <td>Moni (Audi)</td> <td></td> <td></td> </tr> </tbody> </table> <p><b>NOTE:</b> Usable functions may differ, depending on the transceiver version or presetting.</p>	Assignable functions			CH Up	Lock	Surveillance	CH Down	Lone Worker	Siren	Zone	High/Low	TX Code Enter	Scan Start/Stop	C.Tone CH Ent	TX Code CH Select	Scan Add/Del (Tag)	Talk Around	TX Code CH Up	Prio A	Wide/Narrow	TX Code CH Down	Prio A (Rewrite)	DTMF Autodial	TX Code CH UP	Prio B	Re-dial	TX Code CH DN	Prio B (Rewrite)	Call	ID-MR Select	MR-CH 1	Call A (Code 1)	User Set Mode	MR-CH 2	Call B (Code 2)	Sp. Func 1	MR-CH 3	Call A (Code 30)	Sp. Func 2	MR-CH 4	Call B (Code 29)	Announce	Moni	Emergency	Shift	Moni (Audi)		
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CH Up	Lock	Surveillance																																															
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Moni (Audi)																																																	
(6) [VOL]	<ul style="list-style-type: none"> <li>● Rotate to turn the transceiver ON or OFF.</li> <li>● Rotate to adjust the audio volume level.</li> </ul>																																																
(7) [Rotary Selector]	Rotate to select an operating channel.																																																

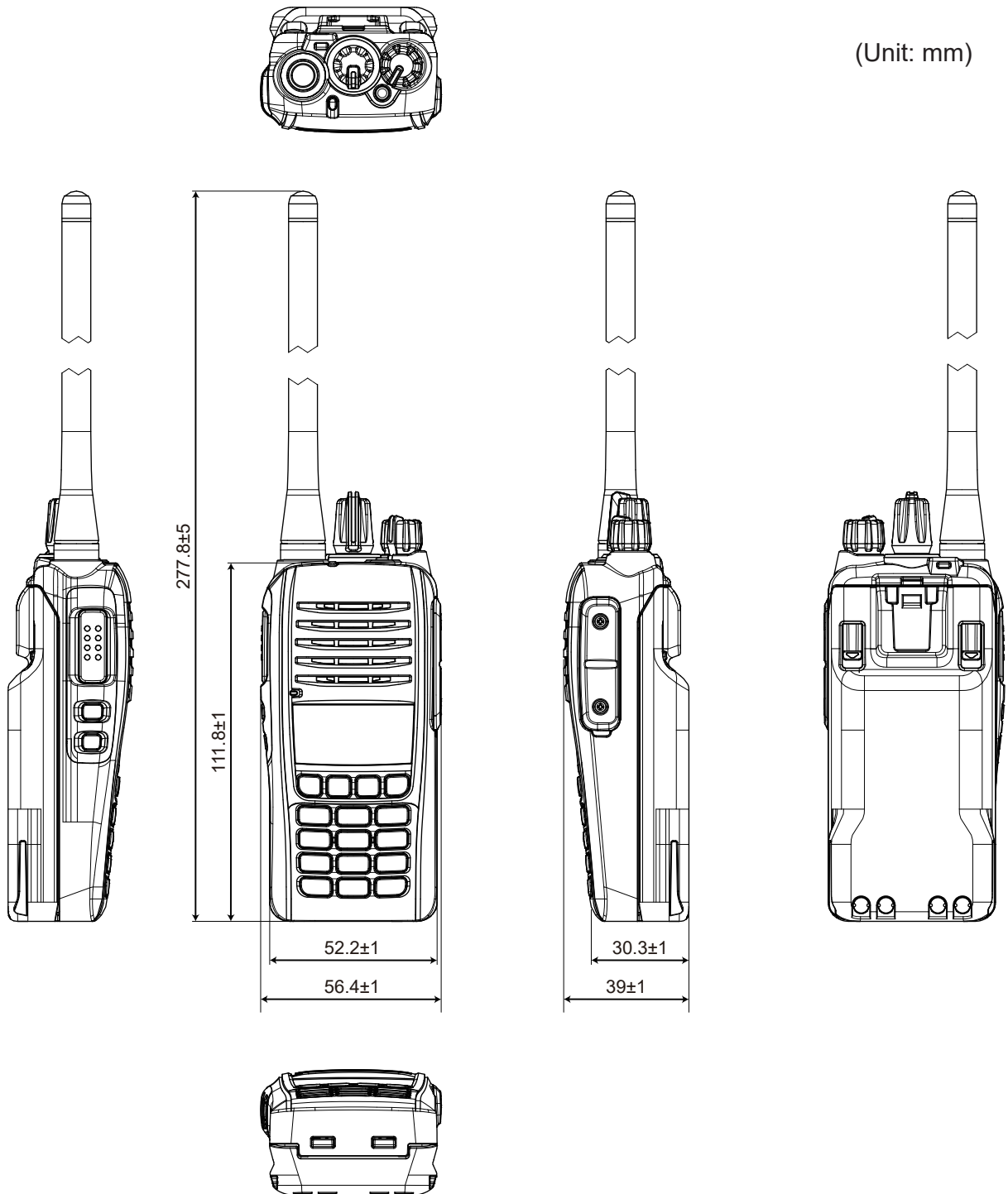
\*1 Only for the Simple key and Ten-key types. \*2 Only for the Ten-key type. \*3 Only for the Non-Display type.

## 1-4 FUNCTION DISPLAY



Indicator	Description										
(1) Signal strength indicator	Displays the relative receive signal strength level.										
(2) Low power icon	Displayed when low output power is selected. <b>NOTE:</b> When the battery charge decreases to a set level, low power is automatically selected, depending on the presetting.										
(3) Audible icon	<ul style="list-style-type: none"> <li>• Displayed when the selected channel is in the Audible (unmuted) mode.</li> <li>• Displayed when a matching 2-Tone or 5-Tone is received.</li> </ul>										
(4) Bell icon	Displayed when a matching signal is received, depending on the presetting.										
(5) Scan icon	Displayed or blinks while scanning.										
(6) Key lock icon	Displayed when the Key Lock function is ON.										
(7) Battery indicator	<p>Displays the remaining capacity in 4 steps.</p> <table border="1"> <thead> <tr> <th>Indication</th> <th>Battery capacity</th> </tr> </thead> <tbody> <tr> <td></td> <td>Full</td> </tr> <tr> <td></td> <td>Middle</td> </tr> <tr> <td></td> <td>Charging required</td> </tr> <tr> <td></td> <td>Battery exhausted</td> </tr> </tbody> </table>	Indication	Battery capacity		Full		Middle		Charging required		Battery exhausted
Indication	Battery capacity										
	Full										
	Middle										
	Charging required										
	Battery exhausted										
(8) Alphanumeric readout	Displays messages such as channel text.										

## 1-5 DIMENSIONS



**NOTE:** The illustration above shows the Ten-key type, with the FA-SC55V flexible antenna and BP-280 battery pack attached.

## 1-6 TARGET USERS



Security companies



Hotels



Restaurants



Construction sites

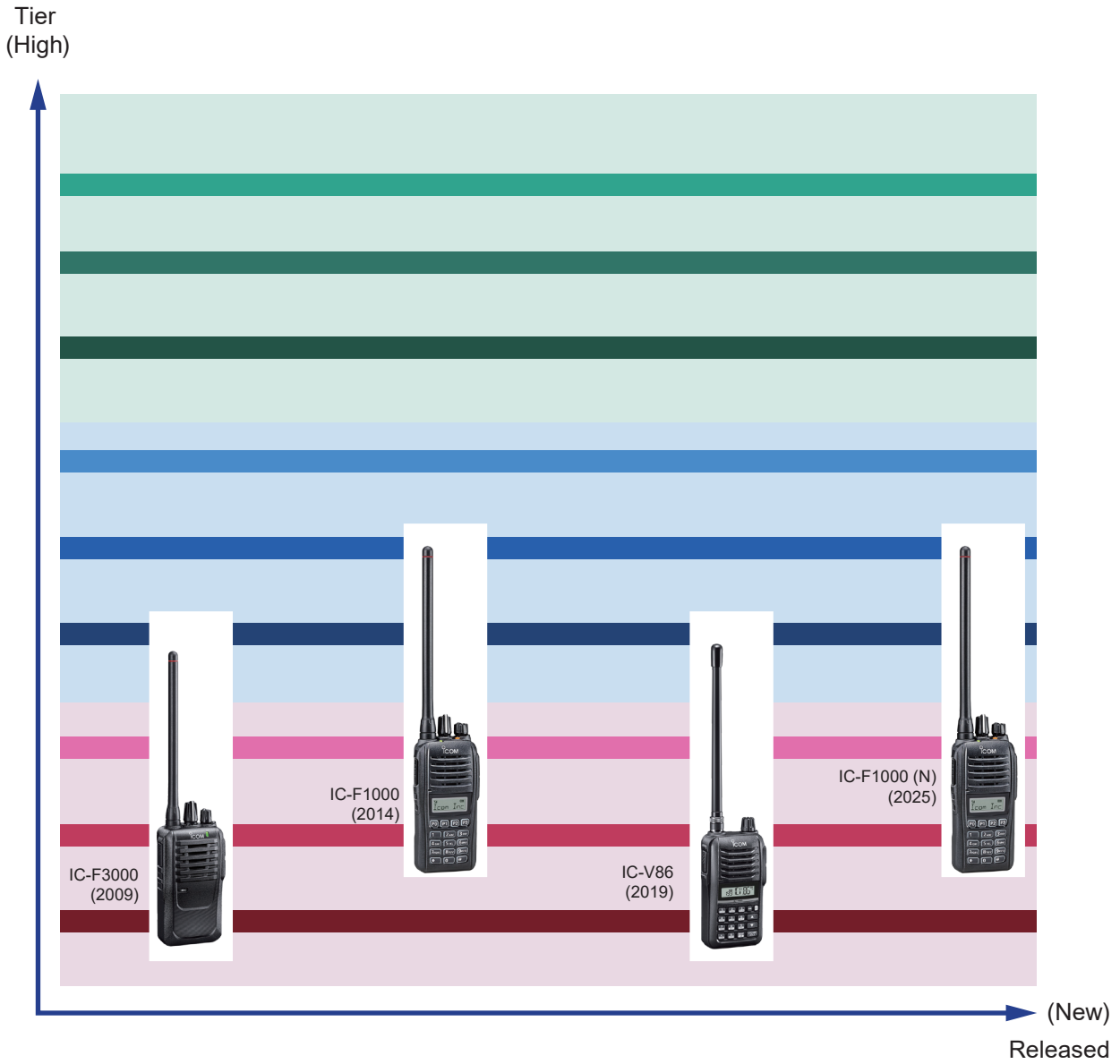


Warehouses



Plantations or farms

## SECTION 2 PRODUCT RANGE



## SECTION 3 COMPARISON WITH EXISTING MODELS

### 3-1 SPECIFICATION COMPARISON

ITEM		MODEL	IC-F1000 (N) series	IC-F1000 series	IC-F3000 series	
GENERAL	Frequency coverage		136 ~ 174 MHz			
	Number of channels		16* <sup>1</sup> 128* <sup>2</sup>		16	
	Types of emission	Narrow	8K50F3E/11K0F3E			
		Middle	14K0F3E* <sup>3</sup>			
		Wide	16K0F3E			
	Antenna impedance		50 Ω			
	Operable temperature range		-30 ~ +60°C	-25 ~ +55°C* <sup>3</sup> -30 ~ +60°C* <sup>4*5</sup>	-25 ~ +55°C* <sup>3</sup> -30 ~ +60°C* <sup>5</sup>	
	Power source voltage (Negative ground)		7.5 V DC nominal		7.2 V DC nominal	
	Current drain	RX	Standby	70 mA	77 mA	75 mA
			Max. audio (Internal SP)	500 mA		
		TX (High)	1.3 A			
	Dimensions (Approximate, Projections not included)	Width	52.2 mm		58.0 mm	
		Height	111.8 mm		111.0 mm	
Depth		24.5 mm (with BP-279) 30.3 mm (with BP-280)	22.3 mm (with BP-278) 24.5 mm (with BP-279) 30.3 mm (with BP-280)	31.0 mm (with BP-264) 35.5 mm (with BP-265) 35.5 mm (with BP-298)		
Weight (Approximate)		240 g (with BP-279) 270 g (with BP-280)	230 g (with BP-278) 240 g (with BP-279) 270 g (with BP-280)	330 g (with BP-264) 270 g (with BP-265) 265 g (with BP-298)		
Battery life (Approximate, Power Save function ON, TX:RX:Standby=5:5:90)		13 hours (BP-279) 20 hours (BP-280)	10 hours (BP-278) 14 hours (BP-279) 20 hours (BP-280)	22.4 hours (BP-298) 31.4 hours (BP-299)		

\*<sup>1</sup> Non-Display type. \*<sup>2</sup> Simple key and Ten-key types. \*<sup>3</sup> EN 300 086. \*<sup>4</sup> AS/NZS 4295. \*<sup>5</sup> TIA-603.

Continued on the next page...

3-1 SPECIFICATION COMPARISON (CONTINUED)

ITEM		MODEL	IC-F1000 (N) series	IC-F1000 series	IC-F3000 series	
<b>TRANSMITTER</b>	Rated output power		5 W			
	Modulation		Frequency modulation	Variable reactance frequency modulation		
	Maximum permissible deviation	Narrow	±2.5 kHz			
		Middle	±4.0 kHz*3			
		Wide	±5.0 kHz			
	Frequency error		±2.5 ppm			
	Spurious emissions		0.25 μW (≤1 GHz)*3*4 1.0 μW (>1 GHz)*3*4 70 dB or more*5	0.25 μW (≤1 GHz)*3*4 0.5 μW (>1 GHz)*3*4 70 dB or more*5	0.25 μW (≤1 GHz)*3 1.0 μW (>1 GHz)*3 70 dB or more*5	
	Adjacent channel power	Narrow	78 dB typical*3 -42 dBm typical*4 71 dB typical*5	70 dB typical		
		Middle	81 dB typical*3	72 dB typical*3	80 dB typical*3	
		Wide	82 dB typical*3 -44 dBm typical*4 81 dB typical*5	74 dB typical	80 dB typical	
	Audio harmonic distortion (AF 1 kHz 40% Deviation)	Narrow	1.0% typical	1.5% typical		
		Middle	1.0% typical*3			
		Wide	1.0% typical			
FM Hum and Noise (With CCITT Filter)	Narrow	69 dB typical*3 67 dB typical*5	-	-		
	Middle	70 dB typical*3	-	-		
	Wide	70 dB typical*3 68 dB typical*5	-	-		
Input impedance (Microphone impedance)		2.2 kΩ				

\*1 Non-Display type. \*2 Simple key and Ten-key types. \*3 EN 300 086. \*4 AS/NZS 4295. \*5 TIA-603.

Continued on the next page...

3-1 SPECIFICATION COMPARISON (CONTINUED)

ITEM		MODEL	IC-F1000 (N) series	IC-F1000 series	IC-F3000 series	
RECEIVER	Receiver System		Direct conversion	Double-conversion Superheterodyne		
	Intermediate frequencies	1st	–	46.35 MHz		
		2nd	–	450 kHz		
	Sensitivity (20 dB SINAD* <sup>3</sup> or 12 dB SINAD* <sup>4</sup> * <sup>5</sup> )		–4 dBμV (EMF) typical* <sup>3</sup> 0.20 μV typical* <sup>4</sup> * <sup>5</sup>	–4 dBμV (EMF) typical* <sup>3</sup> 0.25 μV typical* <sup>4</sup> * <sup>5</sup>	–4 dBμV (EMF) typical* <sup>3</sup> 0.25 μV typical* <sup>5</sup>	
	Audio power output (5% distortion with 8 Ω load)	Internal speaker	1.5 W typical			
		External speaker	0.4 W typical 1.5 W typical (BTL)		0.4 W typical	
	Adjacent channel selectivity	Narrow	72 dB typical* <sup>3</sup> * <sup>4</sup> * <sup>5</sup>	53 dB typical	70 dB typical	
		Middle	74 dB typical* <sup>3</sup>	72 dB typical* <sup>3</sup>	78 dB typical* <sup>3</sup>	
		Wide	76 dB typical* <sup>3</sup> * <sup>4</sup> 75 dB typical* <sup>5</sup>	76 dB typical	78 dB typical	
	Spurious response		70 dB or more			
	Intermodulation		65 dB or more* <sup>3</sup> 72 dB typical* <sup>4</sup> 75 dB typical* <sup>5</sup>	68 dB typical* <sup>3</sup> 74 dB typical* <sup>4</sup> * <sup>5</sup>	67 dB typical* <sup>3</sup> 75 dB typical* <sup>5</sup>	
	Hum and noise (with CCITT Filter )	Narrow	53 dB typical* <sup>3</sup> 63 dB typical* <sup>5</sup>	46 dB typical	51 dB typical	
		Middle	57 dB typical* <sup>3</sup>	49 dB typical* <sup>3</sup>	55 dB typical* <sup>3</sup>	
Wide		58 dB typical* <sup>3</sup> 66 dB typical* <sup>5</sup>	52 dB typical	57 dB typical		
Squelch sensitivity		–8 dBμV (EMF) typical* <sup>3</sup> 0.20 μV typical* <sup>4</sup> * <sup>5</sup>	–6 dBμV (EMF) typical* <sup>3</sup> 0.25 μV typical* <sup>4</sup> * <sup>5</sup>	–4 dBμV (EMF) typical* <sup>3</sup> 0.25 μV typical* <sup>5</sup>		
Output impedance (Audio impedance)		8 Ω				

\*1 Non-Display type. \*2 Simple key and Ten-key types. \*3 EN 300 086. \*4 AS/NZS 4295. \*5 TIA-603.

### 3-2 FUNCTION COMPARISON

ITEM		MODEL	IC-F1000 (N) series	IC-F1000 series	IC-F3000 series
VOICE FUNCTIONS	Voice Announcement		Yes	Yes	No
	Scrambler Functions		No	Yes	No
	Compander Functions		No	Yes	No
	VOX Function		Yes	Yes	Yes
EMERGENCY FUNCTIONS	Emergency Call		Yes	Yes	Yes
	Lone Worker		Yes	Yes	Yes
	Lone Worker with Stationary		Yes	Yes	No
	Man Down		Yes	Yes	No
	Motion Detection		Yes	Yes	No
ANALOG FUNCTIONS	CTCSS Encode/Decode		Yes	Yes	Yes
	DTCS Encode/Decode		Yes	Yes	Yes
	2-Tone Functions		Yes	Yes	Yes
	5-Tone Functions		Yes	Yes	Yes
	DTMF Functions		Yes	Yes	Yes
	MDC Functions		Yes	Yes	Yes (Only PTT ID)
	BIIS Functions		No	Yes (Only PTT ID)	Yes (Only PTT ID)
HARDWARE	LCD		Yes*	Yes*	No
	Ten-key pad		Yes*	Yes*	No
	IP rating		IP67	IP67	IP54

\* Depending on the transceiver version.

## SECTION 4 COMPARISON TO COMPETITORS

### 4-1 SPECIFICATION COMPARISON

ITEM		MODEL	IC-F1000 (N) series	Motorola CP185	Kenwood NX-1200AE3	Hytera AP58X
Frequency coverage			136 ~ 174 MHz			
Number of channels			16* <sup>1</sup> 128* <sup>2</sup>	16	64	128
Operable temperature range			-30 ~ +60°C			
Power source voltage (Negative ground)			7.5 V DC nominal	Unknown	7.5 V DC ± 20%	7.2 V DC
GENERAL	Dimensions (Approximate, Projections not included)	Width	52.2 mm	58 mm	54 mm	55 mm
		Height	111.8 mm	120 mm	123 mm	115 mm
		Depth	24.5 mm (with BP-279) 30.3 mm (with BP-280)	37 mm	33.5 mm (with KNB-84L/45L/53N) 37.5 mm (with KNB-69L)	29.5 mm
Weight (Approximate)			240 g (with BP-279) 270 g (with BP-280)	350 g (with Li-ion battery)	295 g (with KNB-84L/45L) 365 g (with KNB-53N) 310 g (with KNB-69L)	230 g (with antenna and battery)
Battery life (Approximate, TX:RX:Standby=5:5:90)			13 hours (with BP-279) 20 hours (with BP-280)	11 hours (with Li-ion battery) 10 hours (with Ni-MH battery) 16 hours (with High Capacity Li-ion battery)	11.0 hours (with KNB-84L/45L) 7.0 hours (with KNB-53N) 14.0 hours (with KNB-69L)	12 hours (with standard battery) 18 hours (with optional battery)

\*<sup>1</sup> Non-Display type. \*<sup>2</sup> Simple key and Ten-key types. \*<sup>3</sup> EN 300 086. \*<sup>4</sup> AS/NZS 4295. \*<sup>5</sup> TIA-603.

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4-1 SPECIFICATION COMPARISON (CONTINUED)

ITEM		MODEL	IC-F1000 (N) series	Motorola CP185	Kenwood NX-1200AE3	Hytera AP58X	
TRANSMITTER	Rated output power		5 W				
	Frequency error		±2.5 ppm		±0.5 ppm		
	Spurious emissions		0.25 µW (≤1 GHz) <sup>*3*4</sup> 1.0 µW (>1 GHz) <sup>*3*4</sup> 70 dB or more <sup>*5</sup>	-63 dBc	-36 dBm or less (<1 GHz) -30 dBm or less (1 ~ 4 GHz)	-36 dBm (<1 GHz) -30 dBm (>1 GHz)	
	Audio harmonic distortion		1.0% typical	5% or less	2%	3% or less	
	FM Hum and Noise (With CCITT Filter)	Narrow	69 dB typical <sup>*3</sup> 67 dB typical <sup>*5</sup>	Unknown	40 dB		
		Middle	70 dB typical <sup>*3</sup>		-	43 dB	
Wide		70 dB typical <sup>*3</sup> 68 dB typical <sup>*5</sup>	45 dB				
Sensitivity (12 dB SINAD)		0.20 µV typical <sup>*4*5</sup>	0.25 µV or less	0.26 µV (Wide) 0.22 µV (Narrow)	0.18 µV		
Audio power output (Internal speaker)		1.5 W typical (5% distortion with 8 Ω load)	0.5 W	1 W	1 W (Distortion 3% or less)		
Adjacent channel selectivity	Narrow	72 dB typical <sup>*3*4*5</sup>	65 dB	67 dB	60 dB		
	Middle	74 dB typical <sup>*3</sup>	-	-	70 dB		
	Wide	76 dB typical <sup>*3*4</sup> 75 dB typical <sup>*5</sup>	70 dB	74 dB	70 dB		
Spurious response		70 dB or more		70 dB			
Intermodulation		65 dB or more <sup>*3</sup> 72 dB typical <sup>*4</sup> 75 dB typical <sup>*5</sup>	65 dB or more (Narrow) 70 dB or more (Wide)	70 dB	70 dB <sup>*5</sup> 65 dB <sup>*3</sup>		
Hum and noise (with CCITT Filter)	Narrow	53 dB typical <sup>*3</sup> 63 dB typical <sup>*5</sup>	Unknown	40 dB			
	Middle	57 dB typical <sup>*3</sup>		43 dB			
	Wide	58 dB typical <sup>*3</sup> 66 dB typical <sup>*5</sup>		45 dB			

\*1 Non-Display type. \*2 Simple key and Ten-key types. \*3 EN 300 086. \*4 AS/NZS 4295. \*5 TIA-603.

## 4-2 FUNCTION COMPARISON

MODEL		IC-F1000 (N) series	Motorola CP185	Kenwood NX-1200AE3	Hytera AP58X
ITEM					
VOICE FUNCTIONS	Voice Announcement	Yes	Unknown	Yes	No
	Scrambler Functions	No	Yes	Yes	Yes
	Compannder Functions	No	Yes	Yes	No
	VOX Function	Yes	Yes	Yes	Yes
EMERGENCY FUNCTIONS	Emergency Call	Yes	No	Yes	No
	Lone Worker	Yes	No	Yes	No
	Lone Worker with Stationary	Yes	No	No	No
	Man Down	Yes	No	No	No
	Motion Detection	Yes	No	No	No
ANALOG FUNCTIONS	CTCSS Encode/Decode	Yes	Yes	Yes	Yes
	DTCS Encode/Decode	Yes	Yes	Yes	Yes
	2-Tone Functions	Yes	Yes	Yes	Yes
	5-Tone Functions	Yes	No	Yes	Yes (Optional)
	DTMF Functions	Yes	Yes	Yes	No
	MDC Functions	Yes	Yes	Yes	Yes
	BIIS Functions	No	No	No	No
HARDWARE	LCD	Yes*	Yes*	No	Yes
	Ten-key pad	Yes*	No	No	Yes
	IP rating	IP67	IP54	IP54/IP55	IP54

\* Depending on the transceiver version.

## SECTION 5 MAJOR FUNCTIONS

### 5-1 EMERGENCY CALL TRANSMISSION WITH THE MAN DOWN FUNCTION, MOTION DETECTION, AND LONE WORKER

The IC-F1000 (N) series can transmit an Emergency call with the Man Down function. Also, an Emergency call can be made by the Motion Detection and Lone Worker. The Motion Detection functions when the operator moves fast for a specified time. The Lone Worker functions when the operator does not operate the transceiver and when the transceiver detects a stationary state for a specified time, depending on the presetting.

Additionally, any 5-Tone codes can be sent with each of the Emergency key operation, Man Down, and Lone Worker functions. This function enables the operators on the receiving side to identify the reason for the Emergency call.

Example of 5-Tone setting for the Emergency call:

The image shows two screenshots from a device's menu system. The top screenshot is titled "Emergency Setting" and shows a list of signaling options under "Signaling (5-Tone)". A red box highlights the STN Codes for "Man Down STN Code 28", "Lone Worker STN Code 27", and "Emergency Key STN Code 26". A red arrow points from this box to the bottom screenshot. The bottom screenshot is titled "5-Tone TX Code CH" and shows a table with columns for CH, TX Code, Input Digit, Text, Update, and De. A red box highlights the rows for CH 26 (EMER KEY), CH 27 (Lone Wor), and CH 28 (Man Down).

CH	TX Code	Input Digit	Text	Update	De
23	00000	45		ON	
24	00000	45		ON	
25	00000	45		ON	
26	12345	45	EMER KEY	ON	
27	23456	45	Lone Wor	ON	
28	34567	45	Man Down	ON	
29	00000		LALL #		
30	00000		CALL #		

### 5-2 LONG BATTERY LIFE

The IC-F1000 (N) series features a low-power consumption circuit, enabling long-term operation as follows. (Conditions: Power Save function ON, TX:RX:Standby=5:5:90 operation duty rate)

- With the BP-279 battery pack: Approximately 13 hours
- With the BP-280 battery pack: Approximately 20 hours

### 5-3 VARIOUS TYPES OF SIGNALING

The IC-F1000 (N) series is capable of using the following signaling, which are often required for the analog transceivers.

- CTCSS or DTCS
- 5-Tone or 2-Tone
- MDC 1200
- DTMF (Only for transmission)

### 5-4 LOUD AUDIO OUTPUT

The IC-F1000 (N) series is equipped with a Bridge-Tied-Load (BTL) circuit, enabling it to output 1.5 W of audio from its internal speaker, even though it has a compact body.








Additionally, the optional HM-222HLWP external speaker microphone can also output 1.5 W of audio.

## SECTION 6 OPTIONAL ACCESSORIES

Current (as of January 2026) optional accessories available for the IC-F1000 (N) series transceivers are shown below. (Some accessories may not be available in some countries.)

BATTERY PACKS	
<ul style="list-style-type: none"> <li>● <b>BP-279</b> Li-ion battery pack Capacity: 1485 mAh min., 1570 mAh typ. Output voltage: 7.2 V DC</li> </ul>  <p style="text-align: right;"><b>IP67</b></p>	<ul style="list-style-type: none"> <li>● <b>BP-280</b> Li-ion battery pack Capacity: 2280 mAh min., 2400 mAh typ. Output voltage: 7.2 V DC</li> </ul>  <p style="text-align: right;"><b>IP67</b></p>
MICROPHONES	
<ul style="list-style-type: none"> <li>● <b>HM-153LA</b> Earphone microphone Cable length*: 1.0 m Cable length for earphone*: 0.5 m</li> </ul> 	<ul style="list-style-type: none"> <li>● <b>HM-158LA</b> Speaker microphone Cable length*†: 0.49 m Earphone jack: <math>\phi</math>3.5 mm</li> </ul> 
<ul style="list-style-type: none"> <li>● <b>HM-159LA</b> Speaker microphone Cable length*†: 0.46 m Earphone jack: <math>\phi</math>3.5 mm</li> </ul> 	<ul style="list-style-type: none"> <li>● <b>HM-166LA</b> Earphone microphone Cable length for connector*: 0.9 m Cable length for earphone*: 0.45 m</li> </ul> 
<ul style="list-style-type: none"> <li>● <b>HM-168LWP</b> Speaker microphone Cable length*†: 0.49 m</li> </ul>  <p style="text-align: right;"><b>IP67</b></p>	<ul style="list-style-type: none"> <li>● <b>HM-222HLWP</b> Speaker microphone Supports BTL amplifier output Cable length*†: 0.48 m Earphone jack: <math>\phi</math>3.5 mm</li> </ul>  <p style="text-align: right;"><b>IP68</b></p>

\*Approximate †When curled

HEADSETS AND ADAPTER CABLES	
<ul style="list-style-type: none"> <li>● <b>HS-94</b> Earhook type headset                      Plug: <math>\phi 2.5</math> mm                      Cable length*: 0.8 m                      Microphone arm length*: 90 mm</li> </ul> 	<ul style="list-style-type: none"> <li>● <b>HS-94LWP</b> Earhook type headset                      Plug: 2-pin Screw attached type                      Cable length*: 1.0 m                      Microphone arm length*: 92 mm</li> </ul> 
<ul style="list-style-type: none"> <li>● <b>HS-95</b> Neck arm type headset                      Plug: <math>\phi 2.5</math> mm                      Cable length*: 1.0 m                      Microphone arm length*: 115 mm</li> </ul> 	<ul style="list-style-type: none"> <li>● <b>HS-95LWP</b> Neck arm type headset                      Plug: 2-pin Screw attached type                      Cable length*: 1.3 m                      Microphone arm length*: 115 mm</li> </ul> 
<ul style="list-style-type: none"> <li>● <b>HS-97</b> Headset with throat microphone                      Plug: <math>\phi 2.5</math> mm                      Cable length*: 0.8 m                      Cable length for earphone*: 230 mm</li> </ul> 	<ul style="list-style-type: none"> <li>● <b>OPC-2004LA</b> Plug adapter cable for VOX operation                      (For use with either the HS-94, HS-95, or HS-97)                      Cable length*: 110 mm</li> </ul> 
<ul style="list-style-type: none"> <li>● <b>VS-4LA</b> PTT switch cable                      (For use with either the HS-94, HS-95, or HS-97)                      Cable length for transceiver side*: 0.77 m                      Cable length for headset side*: 135 mm</li> </ul> 	

\*Approximate

**BATTERY CHARGERS**

- **BC-213** Desktop charger  
Supplied power adapter\*1: BC-123SA/SE/SV  
Rapid charging current: 750 mA±10%



- **BC-123SE/SV** (L-shaped type plug)  
Power adapter for the BC-213  
Output voltage: 12.0 V DC  
Output current: 1.0 A  
Cable length\*: 1.8 m, 5.9 feet



- **BC-123SA/SE/SV** (Straight type plug)  
Power adapter for the BC-213  
Output voltage: 12.0 V DC  
Output current: 1.0 A  
Cable length\*: 1.8 m, 5.9 feet



- **BC-242** Power adapter for the BC-213  
Output voltage: 12.0 V DC  
Output current: 1.0 A  
Cable length\*: 1.7 m



- **CP-23L** Cigarette lighter cable  
Cable length\*: 1.8 m



- **MB-130** Vehicle charging bracket  
Use with the BC-213



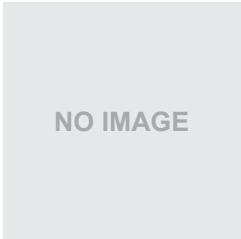
\*Approximate \*1Depending on versions

**BATTERY CHARGERS**

- **BC-214N (#41 ~ #43)** Multi-charger  
AD-130 (charger adapter) are installed in each slot.  
Supplied power adapter\*1: BC-157S  
Rapid charging current: 750 mA±10%



- **AD-130** Charger adapter  
Same as installed in the BC-214N (#41 ~ #43).



- **BC-157S** Power adapter for BC-214N  
Output voltage: 12.0 V DC  
Output current: 7.5 A  
DC cable length\*: 0.9 m  
AC cable length\*: 1.8 m



**ANTENNAS**

- **FA-SC25V** Flexible antenna  
Frequency coverage: 136~150 MHz  
Length\*: 165 mm  
Ring color: Blue



- **FA-SC26VS** Stubby antenna  
Frequency coverage: 136~144 MHz  
Length\*: 80 mm  
Ring color: Blue



- **FA-SC27VS** Stubby antenna  
Frequency coverage: 142~150 MHz  
Length\*: 80 mm  
Ring color: Purple



- **FA-SC28V** Flexible antenna  
Frequency coverage: 148~162 MHz  
Length\*: 165 mm  
Ring color: Yellow



\*Approximate \*1Depending on versions

**ANTENNAS**

- **FA-SC29V** Flexible antenna  
Frequency coverage: 160~174 MHz  
Length\*: 165 mm  
Ring color: Green



- **FA-SC55V** Flexible antenna  
Frequency coverage: 150~174 MHz  
Length\*: 165 mm  
Ring color: Red



- **FA-SC56VS** Stubby antenna  
Frequency coverage: 150~162 MHz  
Length\*: 80 mm  
Ring color: Red



- **FA-SC57VS** Stubby antenna  
Frequency coverage: 160~174 MHz  
Length\*: 80 mm  
Ring color: Green



- **FA-SC61VC** Cut type antenna  
Frequency coverage: 136~174 MHz  
Length\*: 175 mm  
Ring color: White



- **FA-SC62V** High gain antenna  
Frequency coverage: 150~160 MHz  
Length\*: 254 mm  
Ring color: Brown



- **FA-SC63V** High gain antenna  
Frequency coverage: 155~165 MHz  
Length\*: 241.3 mm  
Ring color: Black



\*Approximate

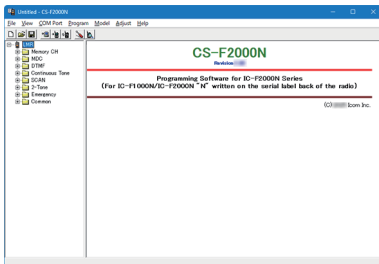
**BELT CLIP**

- **MB-133** Alligator type belt clip



**OTHERS**

- **CS-F2000N** Programming software



- **OPC-478UC-1/OPC-478UD** Programming cable  
Cable length for programming\*: 0.5 m  
Cable length for USB\*: 1.5 m



▲OPC-478UD

- **AD-98FSC** Antenna connector adapter



**For maintenance purposes**

\*Approximate

**The revision record**

<b>Version</b>	<b>Month/Year</b>	<b>The revised contents</b>
Version 1.0	January 2026	First issue.

How the World Communicates

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