

# IC-F200

# **PRODUCT GUIDE**



### **PREFACE**

This product guide is made to promote our new product, the IC-F200 transceiver. 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 this transceiver.

This product guide's target users are dealer sales staff members who are going to sell this transceiver for the first time and have already sold Icom analog mode products.

Icom hopes this product guide will help you to promote sales of the IC-F200 transceiver.

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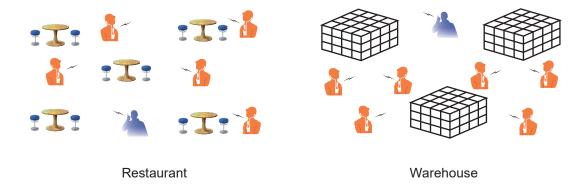
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### SECTION 1 PRODUCT OUTLINE

#### 1-1 ABOUT THE IC-F200 TRANSCEIVER

The IC-F200 transceiver is a UHF land mobile transceiver. This model is designed assuming light mission users use it for short-range communication. This model has been made to be rugged even for this class of products and carefully selected operation modes and functions.

This transceiver is useful for various situations, for example in restraunt and warehouse, with closing distance communication.



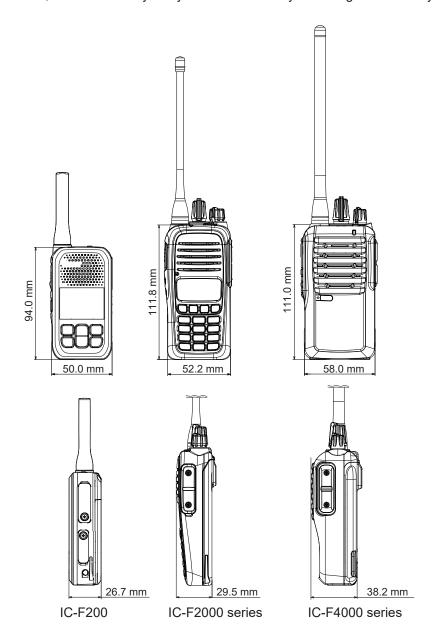
The fixed antenna on the IC-F200 is designed at the optimum length for good communication performance and to be easy to carry. The antenna is fixed on the transceiver, and users cannot remove or exchange it.



### 1-2 **SELLING POINTS**

### • SMALL SIZE AND LIGHT WEIGHT

The IC-F200 is designed to be lighter in weight and smaller than the existing IC-F2000 and IC-F4000 series transceivers. Therefore, users can easily carry this transceiver by attaching it to the body with the belt clip.



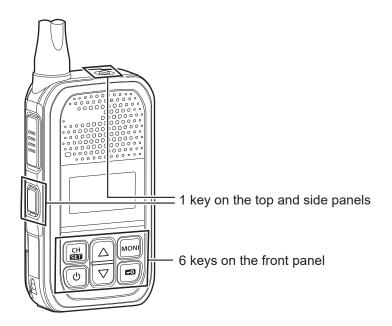
The IC-F200's comparisons of size volume and weight

| 10 10 1 200 0 00  |   |              |  |
|---|---|--------------|--|
| Comparison model  | IC-F200<br>Size (H: 94.0 × W: 50.0 × D: 26.7 mm)<br>Weight (157 g with BP-304A) |              |  |
|   | Size volume ratio   | Weight ratio |  |
| IC-F2000 series Size (H: 111.8 × W: 52.2 × D: 29.5 mm) Weight (230 g with BP-278) | 73%   | 68%          |  |
| IC-F4000 series Size (H: 111.0 × W: 58.0 × D: 38.2 mm) Weight (330 g with BP-264) | 51%   | 49%          |  |

#### EASY OPERATION

The IC-F200 has 6 keys on the front panel, and 1 each on the top and side panels.

Only one function is assigned to all keys except [CH/SET]. So, users can easily to operate the IC-F200.



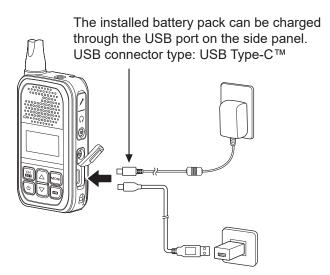
### • IP54 CONSTRUCTION

The IC-F200 is compatible with IP54. Therefore, this transceiver can be used outside.

#### • A USB PORT

Charging the installed battery pack is done with the supplied power adapter and a USB charger in the market. The charging period may differ, depending on the charging current of the connected charging device.

**NOTE:** The USB port is only for battery charging, not for data communication.



• The charging period is approximately 5.5 hours.

#### PROGRAMMABLE KEYS MOUNTED

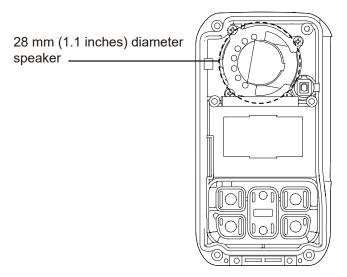
The IC-F200 has 2 programmable keys on the top and side panels.

One of the emergency functions, transmitting power selection, Scan Start/Stop, or Surveillance function can be assigned to the keys.



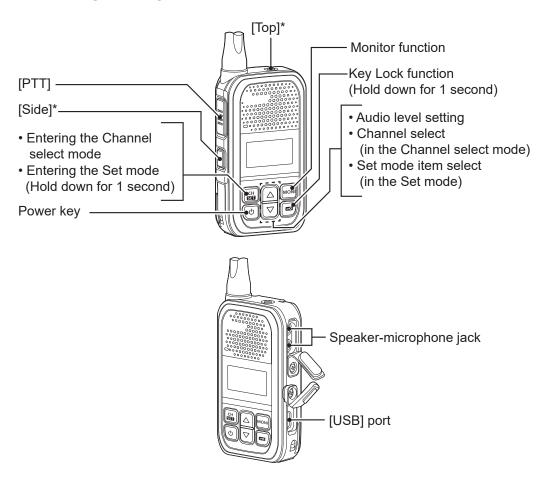
### • HIGH AUDIO OUTPUT POWER

A 28 mm (1.1 inches) diameter speaker is installed. The speaker provides 0.5 W high audio output, even in the small body. Speaker sound pressure level: 83 dB ±3 dB (1 W/0.5 m at 1 kHz)



FRONT panel back view

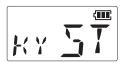
#### 1-3 PANEL DESCRIPTION



<sup>\*</sup>You can assign the desired functions to these keys using the optional CS-F200 programming software. (User Interface > Key Settings)

You can also assign another function to the [Side] and [Top] programmable function keys as the following operations.

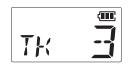
- 1. Turn OFF the transceiver.
- 2. While holding down [➡] and [Top], push [₺] to enter the Key Assignment mode.
  - "KYST" is displayed.



- 3. Push [Side] or [Top] to select the key that you want to reassign.
- 4. Push [▲] or [▼] to select a desired key function.
  - There are 5 options as follows.
  - 1: Null, 2: Emergency, 3: Scan Start/Stop, 4: Surveillance, 5: High/Low



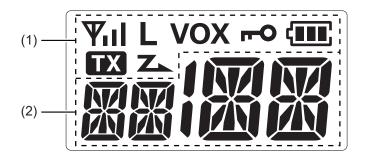
When the surveillance function is assigned to [Side].



When the scan function is assigned to [Top].

5. Push [ $\circlearrowleft$ ] to turn OFF the transceiver to exit the Key Assignment mode.

### 1-4 FUNCTION DISPLAY DESCRIPTION



### (1) Icon area

Displays the icons shown below.

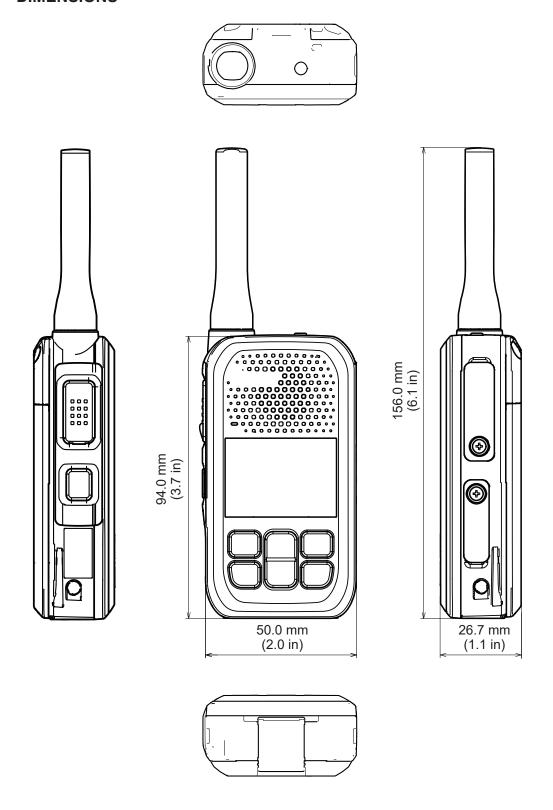
| Icon | Description  |
|------|--|
| Ψ    | <ul> <li>Displayed while the channel is busy<br/>(receiving a signal).</li> <li>Blinks while the monitor function is<br/>turned ON.</li> </ul> |
| al   | Displays the relative receive signal strength level.   |
| L    | Displayed when a low output power is selected.   |
| VOX  | Displayed when the VOX function is turned ON.  |

| Icon       |  | Description   |  |  |  |
|------------|--|---|--|--|--|
| <b>⊩</b> O | Displayed when the Key Lock function is ON.  |   |  |  |  |
| •          | • Blinks while charging. • Displayed the remaining battery charge.  Full Mid Charging Battery required exhausted |   |  |  |  |
| TX         | Displayed while transmitting.  |   |  |  |  |
| Z          | as a Sca   | Displayed when the channel is selected as a Scan Target channel.     Blinks while scanning. |  |  |  |

### (2) Alphanumeric readout

Displays channel number, audio level, or Set mode item.

### 1-5 DIMENSIONS



## 1-6 TARGET USERS



Supermarket



Restaurant



Hospital



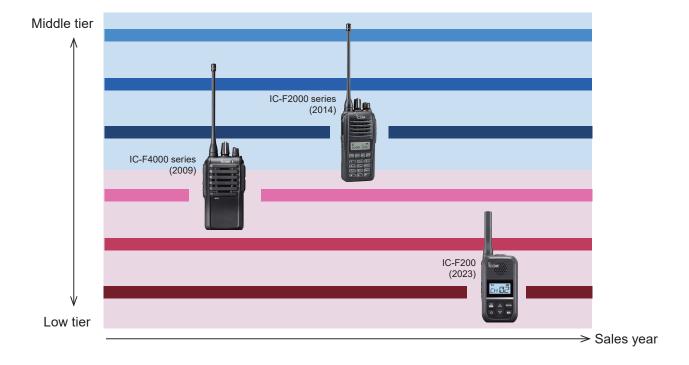
Event



Academic

# **SECTION 2 PRODUCT RANGE**

The IC-F200 transceiver is positioned as the low-tier land mobile hand-held transceiver, as shown on the following analog transceiver's positioning map.



### SECTION 3 **COMPARISON WITH OTHER ICOM MODELS**

#### 3-1 **FUNCTION COMPARISON**

| MODEL                                    |                 | IC-F2000  | IC-F4000 |  |  |  |
|--|-----------------|-----------|----------|--|--|--|
|  | IC-F200         | SERIES    | SERIES   |  |  |  |
| ITEMS                                    |                 | SERIES    | SERIES   |  |  |  |
|  | GNALLING        |           |          |  |  |  |
| CTCSS                                    | YES             | YES       | YES      |  |  |  |
| DTCS                                     | YES             | YES       | YES      |  |  |  |
| 2 TONE                                   | NONE            | YES       | YES      |  |  |  |
| 5 TONE                                   | NONE            | YES       | YES      |  |  |  |
| MDC1200                                  | NONE            | YES       | YES      |  |  |  |
| BIIS                                     | NONE            | NONE      | YES      |  |  |  |
| EMERGENCY AN                             | D SECURITY FUNC | CTIONS    |          |  |  |  |
| Inversion voice scrambler                | NONE            | 16-code   | NONE     |  |  |  |
| Emergency call                           | YES (TX only)*  | YES       | YES      |  |  |  |
| Man Down function                        | NONE            | YES       | NONE     |  |  |  |
| Lone Worker function                     | YES (TX only)*  | YES       | YES      |  |  |  |
| Motion and Stationary Detection function | NONE            | YES       | NONE     |  |  |  |
| Surveillance function                    | YES             | YES       | YES      |  |  |  |
| Siren sound for security alarm           | NONE            | YES       | YES      |  |  |  |
| Power ON password                        | NONE            | YES       | NONE     |  |  |  |
| CHANNEL ANNOUNC                          | EMENT AND VOX   | FUNCTIONS |          |  |  |  |
| Channel Announcement function            | YES             | YES       | NONE     |  |  |  |
| VOX function                             | YES             | YES       | YES      |  |  |  |
| AUDIO                                    | AUDIO FUNCTIONS |           |          |  |  |  |
| Audio compander                          | NONE            | YES       | NONE     |  |  |  |
| HARDWARE                                 |                 |           |          |  |  |  |
| Drogrammahla kaya                        | YES             | YES       | YES      |  |  |  |
| Programmable keys                        | (2 keys)        | (7 keys)† | (3 keys) |  |  |  |
| Compatible IP level                      | IP54            | IP67      | IP54     |  |  |  |

<sup>\*</sup>The MDC 1200 compatible transceivers can decode a PTT ID signal from the IC-F200. <sup>†</sup>For the IC-F2000S and IC-F2000T, no programmable key is available for the IC-F2000.

### 3-2 SPECIFICATION COMPARISON BETWEEN THE USA VERSION

|  | MODEL        | IC-F200   | IC-F2000 series  | IC-F4000 series  |
|--|--------------|---|--|--|
| ITEMS                                  |              |   |  | 10-1 4000 361163   |
| _                                      | (2.11.)      | GENER   |  | 100 170+ 150 510+  |
| Frequency co                           | verage (MHz) | 450~470   | 400~470*, 450~512*   | 400~470*, 450~512*   |
| Number of channels                     |              | 16  | 16 (Non-display model),<br>128 (display model)                     | 16   |
| Power supply voltage (Negative ground) |              | 3.7 V DC nominal  | 7.5 V DC nominal   | 7.2 V DC nominal   |
| Current drain                          |              | 0.8 A maximum   | 0.5 A<br>(Internal speaker)  | 0.5 A<br>(Internal speaker)                                      |
|  | TX           | 1.8 A maximum   | 1.3 A  | 1.6 A  |
| Dimensions (projections n<br>H×W×D)    | ot included: | 94.0 × 50.0 × 26.7 mm:<br>3.7 × 2.0 × 1.1 in                | 111.8 × 52.2 × 29.5 mm:<br>4.4 × 2.1 × 1.2 in<br>(with the BP-278) | 111.0 × 58 × 38.2 mm:<br>4.4 × 2.3 × 1.5 in<br>(with the BP-264) |
| Weight                                 |              | 157 g: 5.5 oz<br>(with the BP-304A)                         | 230 g: 8.1 oz<br>(with the BP-278)                                 | 330 g: 11.6 oz<br>(with the BP-264)                              |
|  |              | TRANSM  |  |  |
| Rated output                           |              | 2.0 W or less   | 4 W  | 4 W  |
| Maximum per<br>frequency dev           |              | ±2.5 kHz  | ±2.5 kHz   | ±2.5 kHz   |
| Frequency err                          | or           | ±500 Hz   | ±2.5 ppm   | ±2.5 ppm   |
| Spurious emis                          | ssions       | 60 dB minimum,<br>80 dB typical                             | 70 dB minimum  | 70 dB minimum  |
| Adjacent char                          |              | 60 dB minimum,<br>65 dB typical                             | 60 dB minimum,<br>69 dB typical                                    | 60 dB minimum,<br>66 dB typical                                  |
| Audio harmor<br>(at AF 1 kHz 40        |              | 5.0% maximum  | 1.5% typical   | 1.5% typical   |
| FM Hum and Noise                       |              | 40 dB minimum,<br>56 dB typical<br>(without a CCITT filter) | 34 dB minimum,<br>40 dB typical<br>(without a CCITT filter)        | 34 dB minimum,<br>40 dB typical<br>(without a CCITT filter)      |
| Limiting chara the modulator           |              | 70%~100% of maximum deviation                               | 60%~100% of maximum deviation                                      | 60%~100% of maximum deviation                                    |
|  |              | RECEI   | /ER  |  |
| Sensitivity (12                        | dB SINAD)    | 0.18 μV typical   | 0.25 μV typical  | 0.25 μV typical  |
| Audio power                            | Internal SP  | 0.6 W typical at 5 % distortion into the 4 $\Omega$         | 1.5 W typical at 5 % distortion into the 8 $\Omega$                | 1.5 W typical at 5 % distortion into the 8 $\Omega$              |
| output                                 | External SP  | 0.15 W typical at 5% distortion into an 8 $\Omega$          | 0.4 W typical at 5 % distortion into an 8 $\Omega$                 | 0.4 W typical at 5 % distortion into an 8 $\Omega$               |
| Adjacent char                          | nnel         | 45 dB minimum,  | 60 dB minimum,   | 60 dB minimum,   |
| selectivity                            |              | 52 dB typical   | 67 dB typical  | 65 dB typical  |
| Intermodulation                        | on           | 55 dB minimum,<br>64 dB typical                             | 70 dB minimum,<br>73 dB typical                                    | 70 dB minimum,<br>74 dB typical                                  |
| Hum and Nois                           | se .         | 40 dB minimum,<br>47 dB typical<br>(without a CCITT filter) | 40 dB minimum,<br>47 dB typical<br>(with a CCITT filter)           | 34 dB minimum,<br>47 dB typical<br>(without a CCITT filter)      |
| Squelch sensitivity<br>(Threshold)     |              | 0.16 μV typical   | 0.25 μV typical  | 0.25 μV typical  |

Specifications: Measurements made in accordance with TIA-603 procedures \*Depending on the version.

### 3-3 SPECIFICATION COMPARISON BETWEEN THE EXP VERSION

|                                     | MODEL        | IC-F200                                      | IC-F2000 series  | IC-F4000 series  |
|-------------------------------------|--------------|--|--|--|
| ITEMS                               |              |  |  | 10-1 4000 301103   |
|                                     |              | GENEF  |  |  |
| Frequency co                        | verage (MHz) | 450~470                                      | 400~470*, 450~520*   | 400~470*, 450~520*   |
| Number of ch                        |              | 16   | 16 (Non-display model),<br>128 (display model)                     | 16   |
|                                     | Narrow       | 11K0F3E                                      | 8K50F3E, 11K0F3E   | 11K0F3E  |
|                                     | Wide         | 16K0F3E                                      | 16K0F3E  | 16K0F3E  |
| Power supply (Negative gro          |              | 3.7 V DC nominal                             | 7.5 V DC nominal   | 7.2 V DC nominal   |
| Current drain                       |              | 0.8 A maximum                                | 0.5 A<br>(Internal speaker)  | 0.5 A<br>(Internal speaker)                                      |
| (Approximate)                       | TX           | 1.8 A maximum                                | 1.3 A  | 1.6 A  |
| Dimensions (projections n<br>H×W×D) | ot included: | 94.0 × 50.0 × 26.7 mm:<br>3.7 × 2.0 × 1.1 in | 111.8 × 52.2 × 29.5 mm:<br>4.4 × 2.1 × 1.2 in<br>(with the BP-278) | 111.0 × 58 × 38.2 mm:<br>4.4 × 2.3 × 1.5 in<br>(with the BP-264) |
| Weight                              |              | 157 g: 5.5 oz<br>(with the BP-304A)          | 230 g: 8.1 oz<br>(with the BP-278)                                 | 330 g: 11.6 oz<br>(with the BP-264)                              |
|                                     |              | TRANSM                                       | ITTER  |  |
| Rated output power                  |              | 2.0 W or less                                | 4 W  | 5 W  |
| Maximum permissible                 | Narrow       | ±2.5 kHz                                     | ±2.5 kHz   | ±2.5 kHz   |
| frequency<br>deviation              | Wide         | ±5.0 kHz                                     | ±5.0 kHz   | ±5.0 kHz   |
| Frequency em                        | or           | ±500 Hz                                      | ±2.5 ppm   | ±2.5 ppm   |
| Spurious emis                       | ssions       | 60 dB minimum,<br>80 dB typical              | 70 dB minimum  | 70 dB minimum  |
| Adjacent channel                    | Narrow       | 60 dB minimum,<br>65 dB typical              | 60 dB minimum,<br>69 dB typical                                    | 60 dB minimum,<br>66 dB typical                                  |
| power                               | Wide         | 65 dB minimum,<br>70 dB typical              | 70 dB minimum,<br>74 dB typical                                    | 70 dB minimum,<br>73 dB typical                                  |
| Audio<br>harmonic<br>distortion     | Narrow       | 5.0% maximum                                 | 1.5% typical   | 1.5% typical   |
| (at AF 1<br>kHz 40%<br>Deviation)   | Wide         |  | 1.0% typical   | 1.0% typical   |
| FM Hum and Noise                    | Narrow       | 40 dB minimum,<br>56 dB typical              | 34 dB minimum,<br>40 dB typical                                    | 34 dB minimum,<br>40 dB typical                                  |
| (without a CCITT filter)            | Wide         | 46 dB minimum,<br>56 dB typical              | 40 dB minimum,<br>46 dB typical                                    | 40 dB minimum,<br>46 dB typical                                  |
| Limiting chara the modulator        |              | 70%~100% of maximum deviation                | 60%~100% of maximum<br>deviation                                   | 60%~100% of maximum deviation                                    |

Specifications: Measurements made in accordance with TIA-603 procedures

Continued on the next page...

<sup>\*</sup>Depending on the version.

| MODEL                        |   | IC-F200                        | IC-F2000 series                | IC-F4000 series          |
|------------------------------|---|--------------------------------|--------------------------------|--------------------------|
|                              |   | RECEIN                         | /ER                            |                          |
| Sensitivity (12              | dB SINAD)                               | 0.18 μV typical                | 0.25 μV typical                | 0.25 μV typical          |
|                              | Internal SP                             | 0.6 W typical at 5 %           | 1.5 W typical at 5 %           | 1.5 W typical at 5 %     |
| Audio power                  | Internal SP                             | distortion into the 4 $\Omega$ | distortion into the 8 $\Omega$ | distortion into the 8 Ω  |
| output                       | External SP                             | 0.15 W typical at 5%           | 0.4 W typical at 5 %           | 0.4 W typical at 5 %     |
|                              | External SP                             | distortion into an 8 Ω         | distortion into an 8 Ω         | distortion into an 8 Ω   |
| Adjacent                     | Narrow                                  | 45 dB minimum,                 | 60 dB minimum,                 | 60 dB minimum,           |
| channel                      | INATIOW                                 | 52 dB typical                  | 67 dB typical                  | 65 dB typical            |
| selectivity                  | Wide                                    | 60 dB minimum,                 | 70 dB minimum,                 | 70 dB minimum,           |
| Selectivity                  | wide                                    | 68 dB typical                  | 75 dB typical                  | 73 dB typical            |
| Intermodulation              |   | 55 dB minimum,                 | 70 dB minimum,                 | 70 dB minimum,           |
| Intermodulation              | , | 64 dB typical                  | 73 dB typical                  | 74 dB typical            |
|                              |   | 40 dB minimum,                 | 40 dB minimum,                 | 34 dB minimum,           |
|                              | Narrow                                  | 47 dB typical                  | 47 dB typical                  | 47 dB typical            |
| Hum and                      |   | (without a CCITT filter)       | (with a CCITT filter)          | (without a CCITT filter) |
| Noise                        |   | 40 dB minimum,                 | 45 dB minimum,                 | 40 dB minimum,           |
|                              | Wide                                    | 47 dB typical                  | 52 dB typical                  | 52 dB typical            |
|                              |   | (without a CCITT filter)       | (with a CCITT filter)          | (without a CCITT filter) |
| Squelch sensi<br>(Threshold) | tivity                                  | 0.16 μV typical                | 0.25 μV typical                | 0.25 μV typical          |

Specifications: Measurements made in accordance with TIA-603 procedures.

# **SECTION 4 COMPARISON TO COMPETITORS**

### 4-1 FUNCTION COMPARISON

| MODEL                         | IC-F200         | PKT-23    | CLS1410 |  |  |  |
|-------------------------------|-----------------|-----------|---------|--|--|--|
|                               | SIGNALLING      |           |         |  |  |  |
| CTCSS                         | YES             | YES       | YES     |  |  |  |
| DTCS                          | YES             | YES       | YES     |  |  |  |
| EMERGENCY AN                  | D SECURITY FUNC | CTIONS    |         |  |  |  |
| Emergency call                | YES (TX only)*  | NONE      | NONE    |  |  |  |
| Lone Worker function          | YES (TX only)*  | NONE      | NONE    |  |  |  |
| Surveillance function         | YES             | NONE      | NONE    |  |  |  |
| CHANNEL ANNOUNC               | EMENT AND VOX   | FUNCTIONS |         |  |  |  |
| Channel Announcement function | YES             | YES       | NONE    |  |  |  |
| VOX function                  | YES             | YES       | YES     |  |  |  |
| SCA                           | N FUNCTION      |           |         |  |  |  |
| SCAN function                 | YES             | YES       | YES     |  |  |  |
| PROGRAMMING                   |                 |           |         |  |  |  |
|                               | YES             |           |         |  |  |  |
| Air Clone                     | (Only for EXP   | YES       | NONE    |  |  |  |
|                               | version)        |           |         |  |  |  |
| HARDWARE                      |                 |           |         |  |  |  |
| Channel number display        | YES             | NONE      | YES     |  |  |  |
| Drogrammahla kaya             | YES             | YES       | NONE    |  |  |  |
| Programmable keys             | (2 keys)        | (2 keys)  | NONE    |  |  |  |
| Compatible IP level           | IP54            | IP54      | IP52    |  |  |  |

<sup>\*</sup>The MDC 1200 compatible transceivers can decode a PTT ID signal from the IC-F200.

### 4-2 SPECIFICATION COMPARISON

| ITEMS                                  | MODEL        | IC-F200   | PKT-23                                       | CLS1410                                       |  |
|--|--------------|---|--|---|--|
| TILMO                                  | GENERAL      |   |  |   |  |
| Frequency co                           | verage (MHz) | 450~470   | 451~470                                      | 459.5~469.5                                   |  |
| Number of ch                           | annels       | 16  | 4  | 4   |  |
| Bandwidth (kl                          | Hz)          | 12.5/25.0* *Only for EXP version                          | 12.5   | 12.5  |  |
| Antenna impe                           |              | 50 Ω nominal  | 50 Ω nominal                                 | 50 Ω nominal                                  |  |
| Operating ten                          | perature     | -30°C to +60°C<br>-22°F to +140°C                         | -30°C to +60°C<br>-22°F to +140°C            | −30°C to +60°C<br>−22°F to +140°C             |  |
| Dimensions<br>(projections n<br>H×W×D) | ot included: | 94.0 × 50.0 × 26.7 mm:<br>3.7 × 2.0 × 1.1 in              | 85.0 × 46.0 × 21.0 mm:<br>3.3 × 1.8 × 0.8 in | 147.3 × 50.8 × 27.9 mm:<br>5.8 × 2.0 × 1.1 in |  |
| Weight                                 |              | 157 g: 5.5 oz   | 230 g: 8.1 oz                                | 130.4 g: 4.6 oz                               |  |
|  |              | TRANSM  | ITTER  |   |  |
| Rated output                           | power        | 2.0 W or less   | 1.5 W (ERP)                                  | 1 W   |  |
| Spurious emis                          | ssions       | 60 dB minimum,<br>80 dB typical                           | 55 dB  | –20 dBm                                       |  |
| Audio harmor (at AF 1 kHz 40           |              | 5.0% maximum  | 5.0% or less                                 | 2.0%  |  |
| FM Hum and                             | Narrow       | 40 dB minimum,<br>56 dB typical                           | 50 dB  | -40 dB  |  |
| (without a CCITT filter)               | Wide         | 46 dB minimum,<br>56 dB typical<br>(Only for EXP version) | -  | -   |  |
|  |              | RECEI   | /ER  |   |  |
| Sensitivity (12                        | dB SINAD)    | 0.18 μV typical   | 0.22 μV                                      | 0.18 µV                                       |  |
| Audio power                            | output       | 0.6 W typical at 5 % distortion into the 4 $\Omega$       | 0.3 W with 5% or less distortion             | 0.5 W with 5% distortion into the 8 $\Omega$  |  |
| Adjacent                               | Narrow       | 45 dB minimum,<br>52 dB typical                           | 60 dB  | 65 dB   |  |
| channel<br>selectivity                 | Wide         | 60 dB minimum,<br>68 dB typical<br>(Only for EXP version) | _  | _   |  |
| Intermodulation                        |              | 55 dB minimum,<br>64 dB typical                           | 50 dB  | 60 dB   |  |

Specifications: Measurements made in accordance with TIA-603 procedures.

### SECTION 5 MAJOR FUNCTION INTRODUCTION

The major functions of the IC-F200 transceiver based on the main firmware Rev. 1.0 are described as follows.

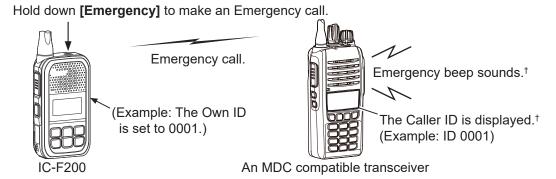
#### 5-1 EMERGENCY CALL

The IC-F200 can make an Emergency call by the following two methods.

#### Using [Emergency]

Hold down **[Emergency]** on the top panel for 2 seconds\* (default setting), and the IC-F200 enters the Emergency mode.

When the Reminder Timer\* (default setting is 0 seconds) time has passed, the IC-F200 makes an Emergency call.

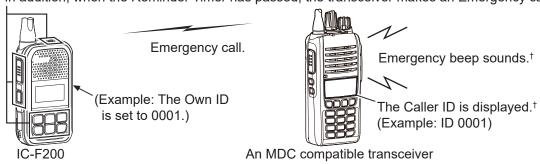


#### Lone Worker

When no key operation is performed for the ON Timer preset time (default setting: 60 minutes\*), the IC-F200 enters Emergency mode, and the countdown starts. After the Reminder Timer (default setting: 60 seconds\*) time has passed, the IC-F200 makes an Emergency call.

\*The setting period can be changed using the CS-F200.

When no key operation is performed for the ON Timer preset time, the IC-F200 enters the Emergency mode. In addition, when the Reminder Timer has passed, the transceiver makes an Emergency call.



The MDC 1200 signal encoding is used for the IC-F200 Emergency call.

However, the IC-F200 does not have an MDC 1200 decoder, so another transceiver with an MDC 1200 decoder, such as the IC-F2000T, can receive an Emergency call and know who is in an emergency state.

<sup>†</sup>The Caller ID can only be displayed on an MDC 1200 compatible transceiver. However, the Emergency beeps sound on any transceiver, even transceivers incompatible with the MDC 1200.

### 5-2 AIR CLONE FUNCTION (FOR ONLY EXP VERSION)

The Air Clone function is helpful when simultaneously programming several IC-F200 transceivers with the same settings, even in the field.

• Setting period: Approximately 2 minutes.

To program the IC-F200 using the Air Clone function, operate the IC-F200 as follows.

|  | Master transceiver               | Target transceivers  |
|--|----------------------------------|--|
| Operation  |                                  |  |
| • STEP 1: PREPARATION  These operations are necessary for both the Master and Target transceivers.  Turn OFF the transceivers.  While holding down [SIDE] and [MONI], turn ON the transceiver to enter the Air Clone mode.  Push [▲] or [▼] to select an Air Clone channel.  The Master and Target transceivers must be set to the same channel. |                                  |  |
| <ul> <li>STEP 2: START CLONING</li> <li>On the Master transceiver, push [PTT] to start the Air Clone.</li> <li>On the Target transceivers, no operation is necessary.</li> </ul>   |                                  |  |
| CLONING IS FINISHED  When the Air Clone is finished.   | Returns to the screen in STEP 1. | Automatically turns OFF the transceiver.  NOTE: When "PR NG" is displayed on the Target transceivers  • The Target transceivers may have missed the Air Clone signal or failed to decode the signal.  • Try again or program the transceivers using the programming software in this case. |

## SECTION 6 OPTIONAL ACCESSORIES

Current (as of June 2023) optional accessories available for the IC-F200 transceiver are shown below.

### **CHARGER**

• BC-262

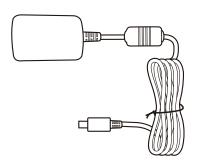


#### BC-263A

(Cable length: Approximately 1900 mm/74.8 in, Input voltage:  $100 \sim 240 \text{ V AC } 50/60 \text{ Hz}$ ,

Output voltage: 5.0 V,

Output current: Maximum 1.0 A, USB connector type: USB Type-C™)



### **BATTERY PACK**

• BP-304A (DC 3.6 V, Minimum: 2270 mAh, Typical: 2350 mAh)



### **BELT CLIP**

• MB-127



### **MICROPHONES**

### • HM-183LS

Speaker-microphone (Water and dust proof: IP67,

Cable length: Approximately 0.52 m/20.5 in\*)



Speaker-microphone (Water and dust proof: IP54, Cable length: Approximately 0.52 m/20.5 in\*)



### • HM-166LS

Tie-pin microphone with earphone (Cable length: Approximately 1.00 m/39.4 in, Ear phone cable length: Approximately 0.45 m/17.7 in)



### • HM-153LS

• HM-186LS

Tie-pin microphone with earphone (Cable length: Approximately 1.00 m/39.4 in)
Ear phone cable length: Approximately 0.50 m/19.7 in)



<sup>\*</sup>When curled.

### **HEADSETS AND ADAPTER CABLES**

#### • HS-94

Earhook type with boom microphone (Cable length: Approximately 0.80 m/31.5 in Boom length: Approximately 0.09 m/3.5 in)



### • HS-95

Behind head type

(Cable length: Approximately 1.00 m/39.4 in) Boom length: Approximately 0.12 m/4.7 in)



### • HS-97

Throat Microphone type (Cable length: Approximately 0.80 m/31.5 in Microphone cable length: Approximately 0.23 m/9.1 in)



### • OPC-2006LS

Adapter cable for HS-94, HS-95, and HS-97 (Cable length: Approximately 0.13 m/5.1 in)



### • OPC-2328

Adapter cable with the PTT switch for HS-94, HS-95, and HS-97 (Cable length for transceiver: Approximately 0.77 m/30.3 in, Cable length for headset: Approximately 0.14 m/5.5 in)



### Revision record

| Version     | Month/Year | The revised contents |
|-------------|------------|----------------------|
| Version 1.0 | June 2023  | First issue.         |

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