ICOM

OPERATING GUIDE

UHF TRANSCEIVER

# IC-F200


INTRODUCTION

1 PANEL DESCRIPTION

2 BASIC OPERATION

3 ADVANCED OPERATION

4 USER SET MODE

5 OTHER FUNCTION

6 OPTIONS


Icom Inc.

# INTRODUCTION

Thank you for choosing this Icom product.
This product was designed and built with Icom's state of the art technology and craftsmanship. With proper care, this product should provide you with years of trouble-free operation.

# IMPORTANT

**FIRST, CAREFULLY READ INSTRUCTIONS** that is provided with the transceiver.
**READ ALL INSTRUCTIONS** carefully and completely before using the transceiver.

**SAVE THIS OPERATING GUIDE—** This operating guide contains additional important operating instructions for the IC-F200.

Icom and the Icom logo are registered trademarks of Icom Incorporated (Japan) in Japan, the United States, the United Kingdom, Germany, France, Spain, Russia, Australia, New Zealand, and/or other countries.
All other products or brands are registered trademarks or trademarks of their respective holders.

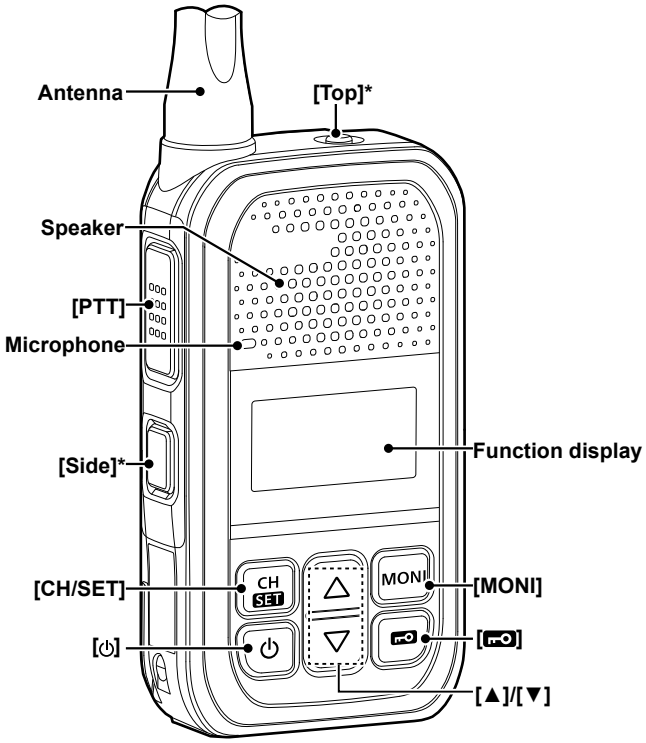
Icom is not responsible for the destruction, damage to, or performance of any Icom or non-Icom equipment, if the malfunction is because of:

- Force majeure, including, but not limited to, fires, earthquakes, storms, floods, lightning, other natural disasters, disturbances, riots, war, or radioactive contamination.
- The use of Icom transceivers with any equipment that is not manufactured or approved by Icom.

# Section 1 PANEL DESCRIPTION

Front, top and left side panels ..... 1-2
◇ Operating keys ..... 1-2
◇ About the Software Key functions ..... 1-2
Right side panel ..... 1-3
◇ Connectors ..... 1-3
Function display ..... 1-3
Assignable Software Key functions ..... 1-4

# Front, top and left side panels




* Dealer assignable.

## ◇Operating keys

**[PTT] switch**
Hold down to transmit, release to receive.

**[⏻] key**
Hold down for 1 second to turn the transceiver ON or OFF.

**[CH/SET] key**
- On the Standby screen, push to enter or exit the Channel Select mode.
- On the Standby screen, hold down for 1 second to enter the Set mode.
- In the Set mode, push to move between the setting items, and hold down for 1 second to return to the Standby screen.

**[▲]/[▼] key**
- On the Standby screen, push to adjust the audio level.
- In the Set mode and the Channel Select mode, push to select a value.

**[MONI] key**
While holding down this key, the Monitor function is ON in the Standby screen.

**[⊶] key**
On the Standby screen, hold down for 1 second to turn the Lock function ON or OFF.

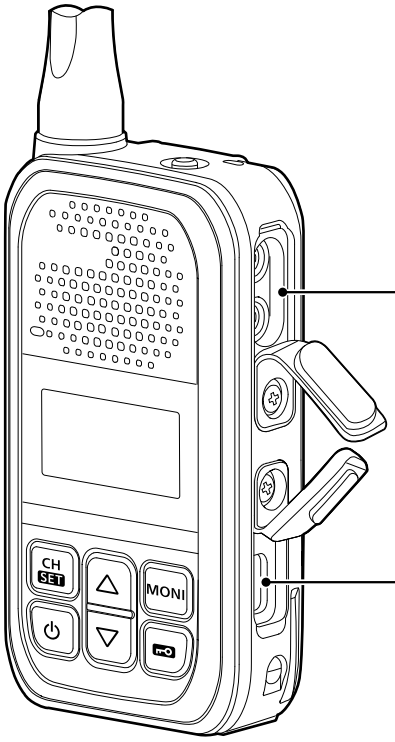
## ◇About the Software Key functions

The [Top] and [Side] key functions are dealer assignable. See page 1-4 for details.

The following Software keys are assigned by default:

| Key | Assigned Software |
|---|---|
| [Top] | Emergency |
| [Side] | High/Low |

## Right side panel



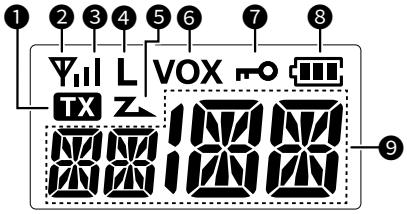

### ◇ Connectors

**SPEAKER MICROPHONE JACK**
To connect an optional speaker microphone or headset.

**USB CONNECTOR**
For only charging the battery.
ⓘThe USB connector does not support USB Power Delivery (USB PD) or data communication.

**CAUTION: DO NOT** use the transceiver without the connector covers or the optional equipment attached.
The transceiver meets IP54 requirements for dust-tight and splash resistance only when the connector covers or the optional HM-183LS is attached.

## Function display




**❶ TX ICON** TX
Displayed while transmitting.

**❷ ANTENNA ICON**
- Displayed while the channel is busy (receiving).
- Blinks while the monitor function is turned ON.

**❸ SIGNAL STRENGTH INDICATOR**
Displays the relative receive signal strength level.

**❹ LOW POWER ICON** L
Displayed when low output power is selected.

**❺ SCAN ICON**
- Displayed when the channel is selected as a scan target channel.
- Blinks while scanning.

**❻ VOX ICON** VOX
Displayed when the VOX function is ON.

**❼ KEY LOCK ICON**
Displayed when the Key Lock function is ON.

**❽ BATTERY INDICATOR**
- Blinks while charging.
- Displays the remaining battery charge.

| Indication | | | | * |
|---|---|---|---|---|
| Battery Status | Full | Mid | Charging required | Battery exhausted |

*Blinks when the battery charge decreases to a set level.

**❾ ALPHANUMERIC READOUT**
Displays messages such as channel number.

# Assignable Software Key functions

**Null**
No function.

**Emergency**
1. Hold down during the Emer SW ON Timer period to enter the Emergency mode.
2. After the Reminder Timer period has passed, an Alert-Ring call is automatically transmitted once or repeatedly.

**NOTE:** Set the related settings using the programming software.

ⓘHold down during the Emer SW OFF Timer period to cancel the Emergency function before transmitting an Alert-Ring call.

**High/Low**
Push to toggle the transmit output power level.

**Scan Start/Stop**
- Push to start or cancel a scan.
- When the scan starts with the Power ON Scan function, push to pause the scan. The paused scan resumes after the period time entered in the Auto Reset Timer has passed.
- Hold down this key while a scan pauses by detecting a signal on a channel, and then the channel is removed from the scan group.
  The removed channel is automatically added to the scan group after the scan is canceled.

**Surveillance**
Push to turn the Surveillance function ON or OFF. When this function is turned ON, the beep does not sound, and the backlight does not light, even when a signal is received, or a key is pushed.

# Section 2 BASIC OPERATION

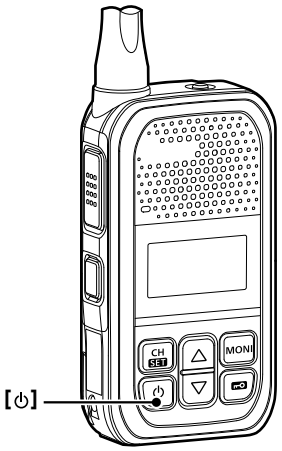

Turning ON the transceiver ..... 2-2
◇ Turning ON the transceiver ..... 2-2
◇ Adjusting the audio level ..... 2-2
Selecting a channel ..... 2-2
◇ Selecting an operating channel ..... 2-2
Receiving and transmitting ..... 2-3
◇ Receiving ..... 2-3
◇ Transmitting ..... 2-3
◇ Transmitting notes ..... 2-3

# Turning ON the transceiver

## ◇Turning ON the transceiver

**NOTE:** Before using the transceiver for the first time, the battery pack must be fully charged for optimum life and operation. See the INSTRUCTIONS for details.

- Hold down [⏻] for 1 second to turn the transceiver ON or OFF.




## ◇Adjusting the audio level

- On the Standby screen, push [▲] or [▼] to adjust the audio volume.
  ⓘ The volume can be adjusted between 0 and 32.

# Selecting a channel

## ◇Selecting an operating channel

1. On the Standby screen, push [CH/SET].
   • Enters the Channel Select mode, and the channel number blinks.
2. Push [▲] or [▼] to select a channel, and then push [CH/SET] to apply the setting.
   • Returns to the Standby screen.

**<Automatic Scan operation>**
Depending on the presetting, when the user turns ON the transceiver, a scan automatically starts. The scan stops when a call is received.

# Receiving and transmitting

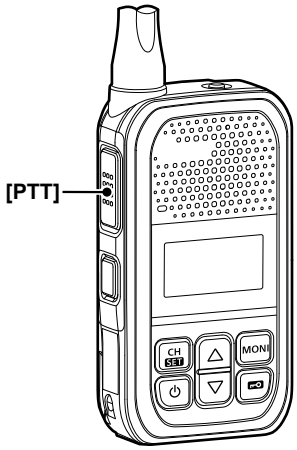
## ◇Receiving

When a call is received, the antenna icon is displayed.

- Push [▲] or [▼] to adjust the audio output level to a comfortable listening level.

## ◇Transmitting

- While holding down [PTT], speak at your normal voice level.




**IMPORTANT:**
To maximize the readability of your signal:

1. After pushing [PTT], pause briefly before you start speaking.
2. Hold the microphone 5 ~ 10 cm (2 ~ 4 inches) from your mouth, then speak at your normal voice level.

## ◇Transmitting notes

**Transmit inhibit function**

The transceiver has several inhibit functions which restrict transmission under the following conditions:

- The channel is busy. However, depending on the presetting, you can transmit when a call is received that includes a non-matching (or matching) CTCSS (DTCS).
- The selected channel is a 'receive only' channel.

**Time-Out Timer**

If continuous transmission exceeds the preset Time-Out Timer time, the transmission is cut off.

**Penalty timer**

After the Time-Out Timer cuts off the transmission, the transmission is further inhibited for a preset penalty period of time.

# Section 3 ADVANCED OPERATION

Emergency function.....3-2
◇ Transmitting an Alert-Ring call .....3-2

# Emergency function

**IMPORTANT:** It is recommended that the dealer sets up an Emergency channel to provide a reliable Emergency Alert-Ring call operation.

**NOTE:** Depending on the presetting, the following functions may be automatically activated.

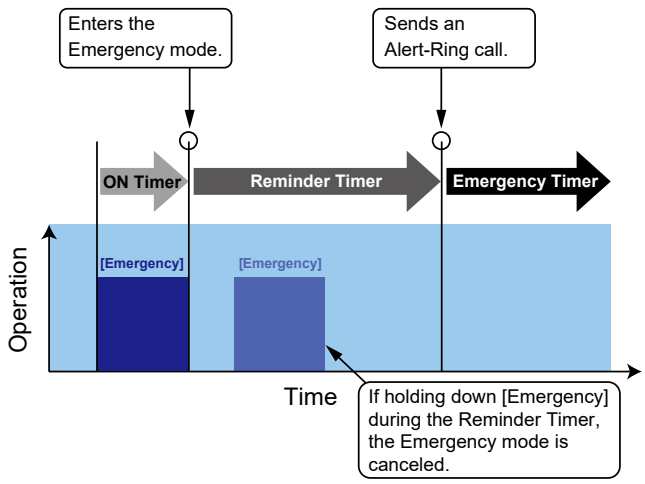
**Auto RX function**
After transmitting an Alert-Ring call, the transceiver stands by in the Audible mode for a preset period of time.

## ◇Transmitting an Alert-Ring call

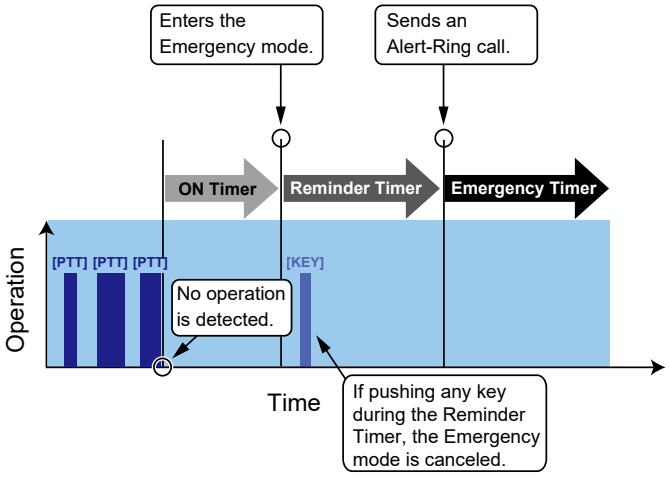
- When the transceiver enters the Emergency mode, a countdown starts. The transceiver counts down during the Reminder Timer set time.
- Before the Reminder Timer set time expires, the transceiver transmits an Alert-Ring call once, or repeatedly*, on the specified Emergency channel.
  * Depending on the presetting.
  ⓘ If no Emergency channel is specified, the Alert-Ring call is made on the previously selected channel.
  ⓘ If the Own ID is set up, you can send the PTT ID with the Alert-Ring call on the MDC 1200 system to know who is calling.
  ⓘ If the transceiver is set for the Silent operation, it transmits an Alert-Ring call without a beep sounding.
- The transceiver automatically transmits a repeat Alert-Ring call until the user turns OFF the transceiver.

The transceiver enters the Emergency mode through the following functions:

**The [Emergency] key**
When a user holds down [Emergency] for the Emer SW ON Timer preset time.
ⓘ If a user holds down [Emergency] for the Emer SW OFF Timer set time before the Reminder Timer expires, the Emergency mode is canceled.




**The Lone Worker function**
When no operation occurs for the ON Timer preset time.
ⓘ If a user pushes any key before the Reminder Timer set time expires, the Emergency mode is canceled.



# Section 4 USER SET MODE

User Set mode description ..... 4-2
◇ Operation in the User set mode ..... 4-2
User Set mode items ..... 4-2

## User Set mode description

The user can enter the “User Set mode” to customize certain transceiver setting.

### ◇Operation in the User set mode

Example: Changing the Beep level 1 to 4.

1. Hold down [CH/SET] for 1 second to enter the Set mode.
2. Push [CH/SET] to select an item.
   (Example: Selecting Beep level (BV))

3. Push [▲] or [▼] to select an option.
   (Example: Selecting Level 4)

4. Hold down [CH/SET] for 1 second to return to the Standby screen.

## User Set mode items

| Item | Display |
|---|---|
| **Backlight** | BL |
| **Beep** | BE |
| **Beep Level** | BV |
| **Announce** | AN |
| **SQL Level** (Squelch Level) | SQ |
| **Mic Gain** (Microphone Gain) | MG |
| **VOX** | VX |
| **VOX Gain** | VG |

#### Backlight

Sets the Backlight status.
- OFF: Turns OFF the backlight.
- Auto: When pushing any key (except [PTT]), the backlight automatically turns ON for 5 seconds.
- ON: The backlight turns ON all the time.

#### Beep

Turns the key-touch beeps and the Channel Announce function ON or OFF.

#### Beep Level

Sets the beep and announce output level.
- Range: 1 ~ 4

#### Announce

Turn the Channel Announce function ON or OFF.
When the Channel Announce function is ON, the transceiver announces the selected channel number.

ⓘ When the Beep function is OFF, the Announce function is automatically OFF.

#### SQL Level (Squelch Level)

Sets the squelch level high or low.

#### Mic Gain (Microphone Gain)

Sets the microphone sensitivity. Higher values make the microphone more sensitive to the user’s voice.
- Range: 1 (low sensitivity) ~ 4 (high sensitivity)

#### VOX

Turns the VOX function ON or OFF.
When the VOX function is ON, receiving and transmitting are automatically switched by detecting sounds.

**NOTE:** To use the function, a headset and the optional OPC-2006LS PLUG ADAPTER CABLE are required (purchase separately).

#### VOX Gain

Sets the VOX gain.
Higher values make the VOX function more sensitive to sounds.
- Range: 1 ~ 10

# Section 5 OTHER FUNCTIONS

ID Set mode operation .....5-2
Reassigning a key function .....5-3
VOX function .....5-4
◇ Optional unit connection.....5-4
◇ Turning the VOX function ON or OFF .....5-4

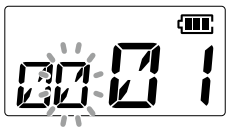
## ID Set mode operation

PTT ID function on the MDC 1200 system can send an Own ID with an Alert-Ring call to identify the callers. (p. 3-2)
You can rewrite the Own ID with the transceiver.

1. Turn OFF the transceiver.
2. Hold down [▭], [MONI], and [⏻] to enter the ID Set mode.
   • "IDST", and then the current Own ID is displayed.

3. Push [CH/SET] to edit the Own ID.
   • The first digit of the current Own ID blinks.

4. Push [▲] or [▼] to select a number.
5. Push [CH/SET] to move to the right.

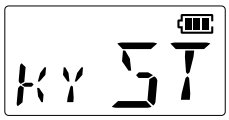


6. Repeat step 4 and step 5 to enter all 4 digits.
7. Push [⏻] to turn OFF the transceiver to exit the ID Set mode.

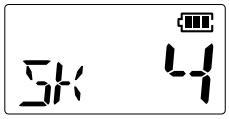
## Reassigning a key function

You can reassign another function to the [Side] and [Top] programmable function keys.

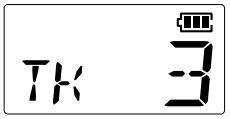
1. Turn OFF the transceiver.
2. Hold down [ ], [Top] and [⏻] to enter the Key Assignment mode.
   • “KYST” is displayed.




3. Push [Side] or [Top] to select the key that you want to reassign.
4. Push [▲] or [▼] to select a desired key function.
   • Options
   1: Null
   2: Emergency
   3: Scan Start/Stop
   4: Surveillance
   5: High/Low
5. Push [⏻] to turn OFF the transceiver to exit the Key Assignment mode.




When the surveillance function is assigned to [Side]



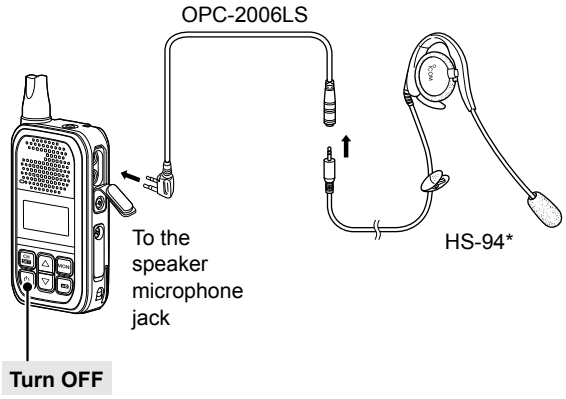

When the scan function is assigned to [Top]

# VOX function

The VOX function toggles the transceiver between transmit and receive by your voice. This function provides hands-free operation.
To use the VOX function, the optional OPC-2006LS PLUG ADAPTER CABLE and an optional headset (HS-94, HS-95, or HS-97) are required.

## ◇Optional unit connection

1. Turn OFF the transceiver.
2. Connect an optional headset and OPC-2006LS as shown to the right.




*You can also use this function with the optional HS-95 or HS-97.

## ◇Turning the VOX function ON or OFF

You can turn the VOX function ON or OFF in the Set mode.
See page 4-2 for details.
ⓘ When the VOX function is ON, **VOX** is displayed on the Standby screen.

# Section 6 OPTIONS

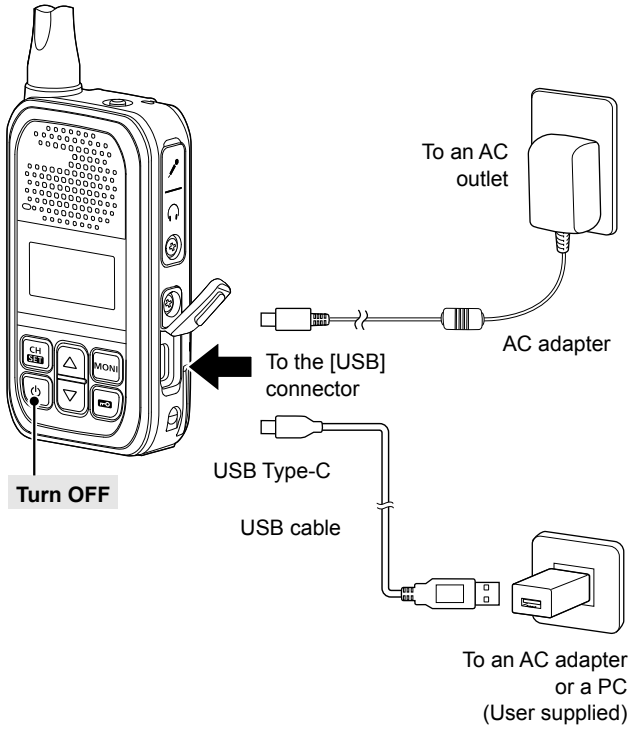
Battery charging .....6-2
◇ Battery charging .....6-2
◇ Charging directly .....6-2
◇ Charging on the cradle .....6-2
◇ Rapid charging the battery pack .....6-3

# Battery charging

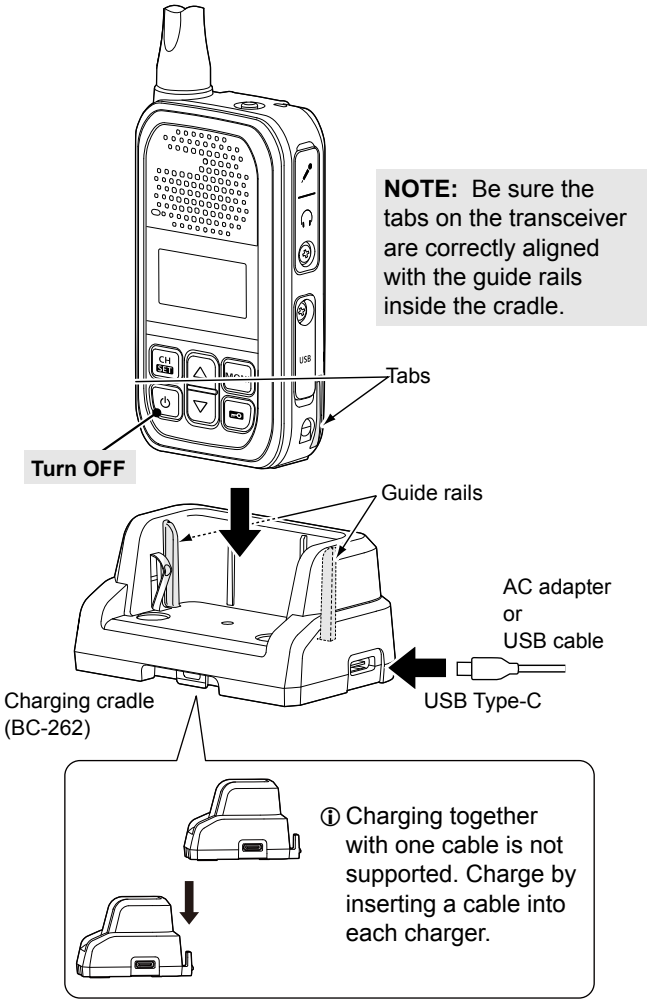
## ◇Battery charging

- Fully charge the transceiver before using it for the first time, or if it has not been used for more than 2 months. The charger automatically restarts charging when the battery voltage drops.
- Disconnect the AC adapter or the USB cable from the outlet when the charger is not in use.
- Use the supplied AC adapter or the USB cable.
- The battery icon on the function display blinks while charging and lights when the charging has been completed.

## ◇Charging directly




## ◇Charging on the cradle




Charging time with the BC-263A AC ADAPTER is approximately 5.5 hours.

**NOTE for charging with a USB cable:**
- Not support USB Power Delivery (USB PD).
- The charging time may differ, depending on the current. When you use a lower than 1 A output AC adapter or PC, it may take longer to charge, or the battery may not be charged.
- Before using the AC adapter, thoroughly read its instructions supplied to the AC adapter.

**NOTE:** If “Q ER” is displayed, a charging error has occurred.
- Disconnect the USB cable or AC adapter, and then connect properly.
- Properly attach the battery pack to the transceiver.
- Properly insert the transceiver into the charging cradle.
- Charge the battery pack within the specified temperature range: 15°C ~ 40°C (59°F ~ 104°F).

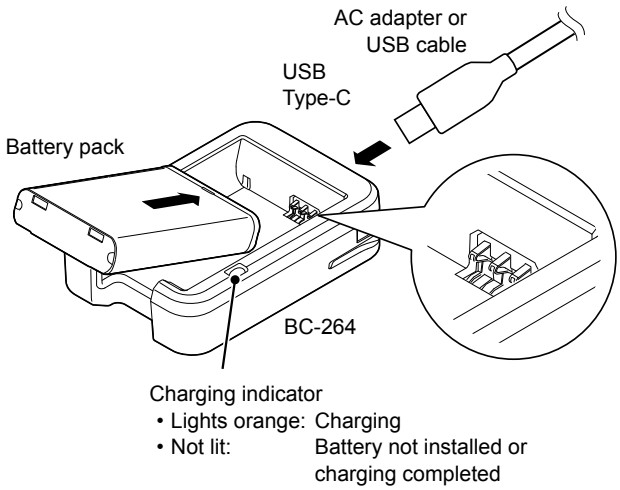
## Battery Charging

### ◇Rapid charging the battery pack

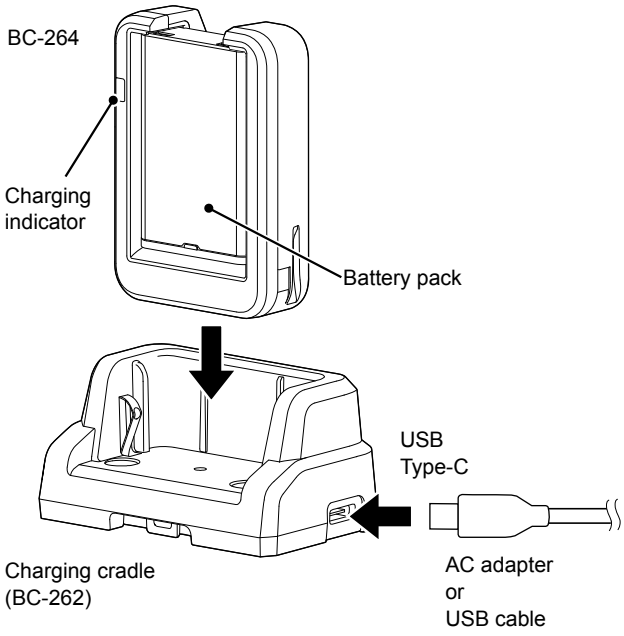
You can charge the battery pack with the optional BC-264 BATTERY CHARGER.
Install the supplied battery pack so that the terminals of the battery pack and the battery charger meet.

Charging time with the BC-263A AC ADAPTER is approximately 3.8 hours

**NOTE:** Charging time will be longer in extremely hot or cold environments.
We recommend charging at 15°C ~ 40°C (59°F ~ 104°F).

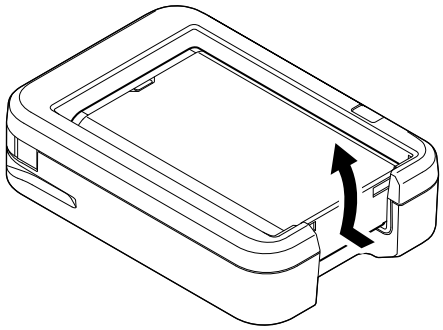



ⓘ The battery pack can be charged by the charging with BC-262 inserted.




**NOTE for charging with a USB cable:**
- Not support USB Power Delivery (USB PD).
- The charging time may differ, depending on the current. When you use a lower than 1 A output AC adapter or PC, it may take longer to charge, or the battery may not be charged.
- Before using the AC adapter, thoroughly read its instructions supplied to the AC adapter.

**TIP:** To remove the battery pack, slide the battery pack and lift it up in the direction of the arrow.



A7725-5EX-1
© 2023 Icom Inc. Jun. 2023

Icom Inc.
1-1-32 Kamiminami, Hirano-ku, Osaka 547-0003, Japan