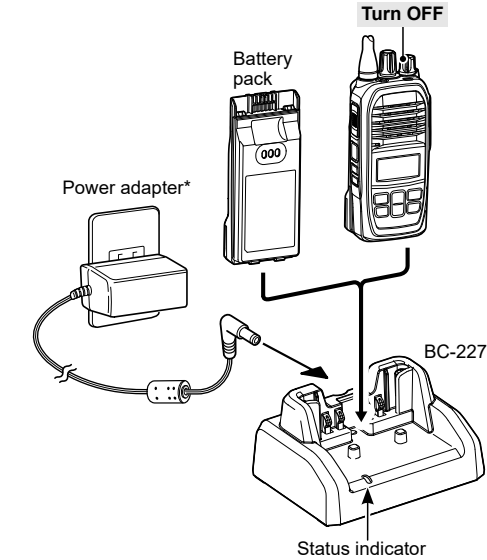




BATTERY CHARGING

◇ Using the BC-227 DESKTOP CHARGER

Charging time: approximately 4.4 hours for the BP-303.



\* The shape may be different, depending on the charger version.

○Status indicator

Light color	Status
Orange	Charging
Green	Charging is completed.
Blinks orange and green	Charging failed. It may have some problems.

**NOTE:**

- The transceiver MUST be turned OFF while charging. Otherwise:
  - The battery will not be charged properly.
  - The battery life may be shortened.
- Do not transmit while charging. When you need to transmit, remove the transceiver from the charger, and then turn ON the power.
- If the battery pack does not properly charge when it is attached to the transceiver, remove it from the transceiver and insert only the battery pack into the charger.

USING THE CELLULAR MODE

You can make a call with other IP transceivers using the cellular network.

**NOTE:** LTE operation requires SIM insertion. Contact your dealer for details.

◇ Selecting a call-to party

- Push [16/Address] to display the Address book.
  - The Address book is displayed.
- Push [16/Address] several times to toggle the call type.
  - The selectable call type may differ, depending on the presetting.
- Rotate Rotary Selector or push [▲] or [▼] to select a call-to party.

◇ Receiving and transmitting

**Receiving:**

- When a Call is received, the Status indicator lights green.

**Transmitting:**

- While holding down [Main PTT], speak at your normal voice level.
  - The Status indicator lights red while [Main PTT] is pushed.

**Talk while receiving a call:**

- While receiving a call, push [Main PTT] to talk in the Full-Duplex mode\* like a telephone call.
  - In the Full-Duplex mode, the Status indicator lights yellow.

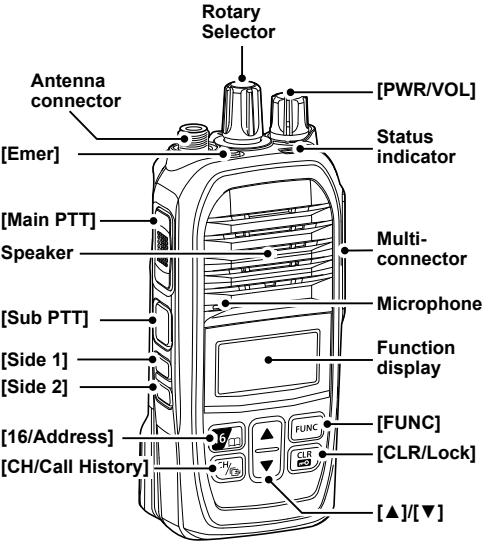
\* Usability depends on a presetting. Ask your dealer for details.

About the call type:

- All call: Transmit to all of the transceivers that belong to the network.
- Group call: Transmit to the transceivers that belong to the same group.
- Talkgroup call: Transmit to the transceivers that belong to the same Talkgroup.
- Individual call: Transmit to an individual transceiver.
- Telephone call: Transmit to an IP phone.\*

\*Transmittable, depending on the presetting.

PANEL DESCRIPTION



◇ Status indicator

Lights red: Transmitting.  
Lights green: Receiving or squelch is open.  
Lights yellow: Receiving and transmitting in the Full-Duplex mode.

◇ Multi-connector

Connects to an optional speaker microphone or headset.

**CAUTION: DO NOT** use the transceiver without the connector cover or optional equipment attached. The transceiver meets IP67 requirements for dust-tight and waterproof protection only when the connector cover or the optional speaker microphone is attached. See "OPTIONS" for the usable speaker microphones.

USING THE MARINE MODE

You can make a call to other VHF marine transceivers.

◇ Receiving and transmitting

**Receiving:**

- Rotate Rotary Selector or push [▲] or [▼] to select a channel.
- When a Call is received, the Status indicator lights green.

**Transmitting:**

**CAUTION: DO NOT** transmit without an antenna.

- Wait until the channel is clear to avoid interference.
- While holding down [Main PTT], speak at your normal voice level.
- Release [Main PTT] to receive.

**IMPORTANT:**

To maximize the readability of your signal:

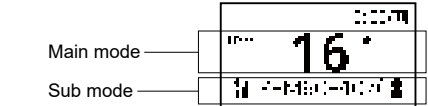
- After pushing [Main PTT], pause briefly before you start speaking.
- Hold the microphone 5 to 10 cm (2 to 4 inches) from your mouth, then speak at your normal voice level.

USING THE CELLULAR + MARINE MODE

You can use the Cellular mode and Marine mode at the same time.

◇ Main mode and Sub mode

When the Cellular + Marine mode is selected, the Main mode and Sub mode are displayed as shown below.



**Switching the operating mode:**

- Hold down [FUNC] for 1 second to toggle the Main mode and Sub mode.

◇ Transmitting

- Hold down [Main PTT] to transmit in the Main mode.
- Hold down [Sub PTT] to transmit in the Sub mode.
- You can also simultaneously transmit\* in both modes by holding down both [Main PTT] and [Sub PTT].
  - The Status indicator lights yellow.
- A channel, call to - party, or call type are not selectable in the Sub mode. To select those, switch to the Main mode.

FUNCTION DISPLAY

	Cellular mode
	Marine mode

◇ Cellular mode

	Displays the signal strength level by 3 bars. <ul style="list-style-type: none"><li>A connected network type (4G or 3G) is displayed on the left top.</li></ul>
	<ul style="list-style-type: none"><li>Blinks when the transceiver location is out of the service area, or cannot receive a control signal.</li><li>Displayed if transceiver has not been authenticated.</li><li>A connected network type (4G or 3G) is displayed on the left top.</li></ul>
	All/Group Call
	Talkgroup Call*
	Individual Call
	Phone Call*
	Displayed when the P-Bell function is ON.
	Displayed when the Emergency Call function is ON.
	Blinks when the transceiver downloading a new firmware.

\*May be usable, depending on a presetting.

◇ Marine mode

	Displayed* when low output power is selected.
	Displays the current channel group. <ul style="list-style-type: none"><li>Selectable channel group differs, depending on the transceiver version.</li></ul>
	Displayed when the WX Alert is ON. <ul style="list-style-type: none"><li>The function cannot be used, depending on the transceiver version.</li></ul>
	Displayed when a Duplex channel is selected.
	Displayed when the Encryption function is ON.
	Displayed when a Call channel is selected.

OPTIONS

◇ Battery pack

• BP-303 BATTERY PACK

Battery pack	Voltage	Capacity	Approximate operating time*
BP-303	7.2 V	3200 mAh (Minimum) 3350 mAh (Typical)	24 hours (Cellular mode) 13 hours (Marine mode)

\*Calculated under the following conditions:  
- Bluetooth and Backlight are OFF  
- TX : RX : standby = 5 : 5 : 90  
The operating time may be shorter, depending on:  
- The operating conditions, such as Bluetooth, GPS, Cellular + Marine mode, and so on.  
- The distance with the cellular station or the signal strength.

◇ Chargers

- BC-227 DESKTOP CHARGER + BC-123S AC ADAPTER  
To rapidly charge the battery pack.  
Charging time: Approximately 4.4 hours.
- BC-226 DESKTOP CHARGER + BC-228 AC ADAPTER  
You can connect up to 6 BC-226 together.  
Charging time: Approximately 4.2 hours.
  - A power adapter may be supplied, depending on the charger's version.
- BC-214N MULTI CHARGER + AD-132N CHARGER ADAPTER + BC-157S AC ADAPTER  
To rapidly charge up to 6 battery packs.

◇ Antenna

• FA-S59V FLEXIBLE ANTENNA

◇ Others

- MB-136, MB-133 BELT CLIP
- MB-96F, MB-96FL, MB-96N BELT HANGERS
- LC-195 CARRYING CASE + MB-57L SHOULDER STRAP
- VS-3 Bluetooth® HEADSET  
The Bluetooth headset with a [PTT] switch.
- VS-5MC\* PTT SWITCH CABLE + HS-94, HS-95, HS-97 HEADSET  
VS-5MC: Used to connect a headset to a transceiver.  
HS-94: Ear-hook type  
HS-95: Neck-arm type  
HS-97: Throat microphone  
\*Non-waterproof
- HM-184H, HM-222H SPEAKER MICROPHONE  
HM-184H: Meets IP67 waterproof protection.  
HM-222H: Meets IP68 waterproof protection, high audio output type.
- HM-238MC TIEPIN TYPE MICROPHONE  
With a [Sub PTT] switch.
- EH-15B EARPHONE, SP-26 TUBE EARPHONE, SP-28 EAR HOOK TYPE EARPHONE  
For use with the HM-163MC or HM-238MC
- SP-27 TUBE EARPHONE, SP-29 EAR HOOK TYPE EARPHONE, SP-40 EARPHONE  
For use with the HM-222H.

	Displayed when a Favorite channel is selected.
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\*Blinks when the transceiver temperature becomes hot.

◇ Cellular/Marine mode

	<ul style="list-style-type: none"><li>Displayed when the Record function is ON.</li><li>Blinks while recording audio.</li></ul>
	Displayed when Bluetooth is activated.
	Displayed when a Bluetooth device is connected.
	Displayed when the Key Lock function is ON.
	Displayed when the VOX function is ON.
	Displays the remaining battery charge. <ul style="list-style-type: none"><li>Full</li><li>Mid</li><li>Charging required</li><li>Battery exhausted</li></ul>

BASIC OPERATION

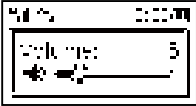
◇ Turning ON the transceiver

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

- Rotate [PWL/VOL] clockwise to the 12 o'clock position to turn ON the transceiver.
  - The dial is made tight for dust and water resistance.
  - To turn OFF the transceiver, rotate [PWL/VOL] counter-clockwise until it makes a "click" sound.

◇ Adjusting the volume level

- Rotate [PWL/VOL] to adjust the volume level.
  - The Adjustment screen is displayed while adjusting.



◇ Using the Key Lock function

You can use the Key Lock function to prevent accidental channel changes and unnecessary function access, depending on the presetting.

- Hold down [CLR/Lock] for 1 second to turn the Key Lock function ON or OFF.
  - "KO" is displayed while the function is ON.
  - [Main PTT], [Sub PTT], and [PWR/VOL] are usable even while the function is ON.

◇ Selecting the operation mode

You can select the operating mode, as shown below.

- Push [FUNC] to display the function.
  - The Function is displayed.
- Push [FUNC] to display "Mode Select," if other functions are displayed.
  - It may be required to push [FUNC] several times, depending on the presetting.
- Rotate Rotary Selector or push [▲] or [▼] to select the operating mode, and then push [CH/Call History].
  - The operating mode is selected and returns to the Standby screen.