OPTIONS

◊ BATTERY PACKS
• BP-290 Li-ion BATTERY PACK
  Voltage: 7.2 V
  Capacity: 1910 mAh (minimum), 2010 mAh (typical)
  Battery life: Approximately 13 hours
• BP-291 BATTERY CASE
  Battery case for AA alkaline batteries.

◊ CHARGERS
• BC-228 DESKTOP CHARGER + BC-228 AC ADAPTER
  For rapidly charging battery packs.
  Charging time: Approximately 2.7 hours
  A power adapter may be supplied, depending on the charger’s version.
• BC-214 MULTI-CHARGER + BC-1575 AC ADAPTER, OPC-656 DC POWER CABLE
  For rapidly charging up to 6 battery packs simultaneously.
  Charging time: Approximately 2.8 hours
  The AD-112N CHARGER ADAPTER may be needed, depending on the charger’s version.
  The BC-1575 AC ADAPTER or OPC-656 DC POWER CABLE must be purchased separately.
• BC-219N DESKTOP CHARGER + BC-123S AC ADAPTER
  For rapidly charging battery packs.
  Charging time: Approximately 2.5 hours for the BP-290
  A power adapter may be supplied, depending on the charger’s version.
• BC-225 INTELLIGENT DESKTOP CHARGER + BC-123S AC ADAPTER + RS-BCC25 HEADER SOFTWARE
  For rapidly charging battery packs.
  You can check the charging status using the RS-BCC25.
  Charging time: Approximately 2.5 hours for the BP-290
  A power adapter may be supplied, depending on the charger’s version.
  An USB (Micro-B) cable is required to connect the BC-225 and a PC with the RS-BCC25 installed.
• OPC-515L, OPC-656 DC POWER CABLES
  Used when charging battery packs using a 13.8 V DC power source instead of the power adapter.
  OPC-515L: For the BC-219N
  OPC-656: For the BC-214

◊ DC CABLES
• CP-23L CIGARETTE LIGHTER CABLE
  Used when charging battery packs through a 12 V cigarette lighter socket. For use with the BC-219N.
• OPC-515L, OPC-656 DC POWER CABLES
  Used when charging battery packs using a 13.8 V DC power source instead of the power adapter.
  OPC-515L: For the BC-219N
  OPC-656: For the BC-214

◊ ANTENNAS
• FA-SC26VS, FA-SC27VS, FA-SC56VS, FA-SC57VS
  FA-SC26US, FA-SC73US STUBBY ANTENNAS
  Shorter VHF or UHF antennas.
• FA-SC26VS: 136 ~ 144 MHz
• FA-SC27VS: 142 ~ 150 MHz
• FA-SC56VS: 400 ~ 450 MHz
• FA-SC57VS: 450 ~ 490 MHz
• FA-SC25V, FA-SC25U, FA-SC29V,
• FA-SC26V, FA-SC36V HIGH GAIN ANTENNAS

◊ BELT CLIPS and BELT HANGERS
• MB-136, MB-3 BELT CLIP
• MB-96F, MB-96FL, MB-96N BELT HANGERS

◊ OTHERS
• HM-222 SPEAKER MICROPHONE
  With an Emergency key.
  The HM-222 meets IP68 requirements for waterproof protection.
• HM-233GP GPS SPEAKER MICROPHONE
  The microphone with high-performance GPS receiver.
• HM-163MC THERM TYPE MICROPHONE
• EH-15B EARPHONE, SP-26 TUBE EARPHONE, SP-28 EAR HOOK TYPE EARPHONE
• SP-32 TUBE TYPE EARPHONE ADAPTER
  For use with EH-15B.
• SP-27 TUBE EARPHONE, SP-29 EAR HOOK TYPE EARPHONE,
  SP-40 EARPHONE + AD-135 EARPHONE ADAPTER
  AD-135: Used To connect an earphone to the transceiver’s multi-connector.
• AD-118 ACC ADAPTER
  To connect an accessory. See the AD-118 instruction sheet for details on recommended accessories.

CAUTION: The AD-118 does not have waterproof protection. When it is connected, NEVER expose the adapter and the transceiver to rain, snow or any liquids.

• LC-187, LC-188 CARRYING CASE
  *Remove the LC-188 from the transceiver before charging.
• VS-SM® PTT SWITCH CABLE
• HS-94, HS-95, HS-97 HEADSET
  VS-SMC: Used to connect a headset to a transceiver.
  HS-94: Ear-hook type
  HS-95: Neck-arming type
  HS-97: Throat microphone
  * Non-waterproof.
• VS-3 Bluetooth® HEADSET
  The Bluetooth headset with a [PTT] switch.
  About the third party Bluetooth headsets:
  Icom has checked the PTT operation with some 3M Peltor headsets such as the WS Headset XP, WS ProTac XP and WS Alert XP. (Compatibility not guaranteed.)
  Some options may not be available in some countries. Ask your dealer for details.

About the Multi-connector
Connects to an optional speaker microphone or headset.

CAUTION: DO NOT use the transceiver without the connector cover or the optional microphone attached. The transceiver meets IP67 requirements for dust-tight and waterproof protection only when the connector cover or the optional microphone is attached.

About the Status indicator
• Lights white, then blinks red, yellow, and green when turning ON the transceiver.
• Lights red while transmitting.
• Lights green while receiving a signal, or when the squelch is open.

About the Software key functions
NOTE: Your dealers can assign the Software key functions to the keys.

IMPORTANT
This instruction sheet includes some functions that are usable only when they are preset by your dealer. The transceiver may have other functions and operations that are not described in this instruction sheet. Ask your dealer for preset function details.

Thank you for choosing this Icom product.
READ ALL INSTRUCTIONS carefully and completely before using this product.

SUPPLIED ACCESSORIES

Battery pack
Belt clip
Connector cover (with a screw)

NOTE:
• Some accessories are not supplied, or the shape is different, depending on the transceiver version.
• Confirm both battery sliding locks are locked in place, when attaching the battery to the transceiver. Both sliding locks make a ‘click’ sound when locked.

Panel Description

[Antenna Connector]

[VOL]

[Multi-connector]

[Emergency

[PTT]

[OK]

[F1]

[P1 (Down)]

[F2]

[P2 (Up)]

[Back]"}

"Dealer assignable
### Function Display

**Icons**

- **Battery Indicator**: Displayed or blinks to indicate the battery status.
- **Call Icon**: Blinks when the channel is selected as a scan target channel.
- **Power Icon**: Displays the output power level.
- **Scan Target Channel Icon**: Displayed when the channel is selected as a scan target channel.
- **Scan Target Icon**: Displayed when the broadcast call is received. *(For only the dPMR version)*
- **Site Lock Icon**: Displayed when the site lock function is on.
- **Voice Scrambler Icon**: Displayed when the voice scrambler function is on.
- **Bells Icon**: Blinks while the transceiver is connected to a telephone network on the selected channel.
- **Talk Around Icon**: Displayed when the talk around function is on.
- **Audible Icon**: Displayed when the channel is in the "audible" (unmute) mode.
- **Message Icon**: Displays after messages (message or status message) have been received.
- **Voice Icon**: Displays when the voice function is on.
- **Bluetooth Icon**: Displays when Bluetooth is activated.
- **Text Area**: Displays the selected zone number, channel number, and channel name, if set.
- **Key Display Area**: Displays the names of the function assigned to [P1] and [P2].

**Indicators**

- **Blinking**: Blinks while scanning.
- **Stop Blinking**: Stops blinking when the screen is changed, or any key is pushed, but is displayed if unread messages are still in the message memory.
- **Disappears**: Disappears when all messages in the message memory have been read.

**NOTE:**

- The screen is an example. The displayed position of each icon may differ, depending on the function being used.

### 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 of this sheet.

Rotate [Vol] to turn ON the transceiver.

#### Receiving and Transmitting

**Receiving:**

1. Select a channel.
2. Rotate [Selector] or push [Up] or [Down], depending on the presetting.

**Transmitting:**

1. Wait until the channel is clear to avoid interference.
2. White 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 to 10 cm (2 to 4 inches) from your mouth, then speak at your normal voice level.

### Battery Charging

**NOTE:**

- Before detaching or attaching a battery pack, BE SURE to turn OFF the transceiver by rotating [Vol] fully counter clockwise, until it makes a "click" sound. Otherwise, a transceiver malfunction could occur.

#### Rapid charging with the BC-219N

You can rapidly charge the Li-ion battery pack with the BC-219N.

**Charging time:**

- Approximately 2.5 hours

**Additionally needed item (purchase separately):**

- A power adapter (may be supplied with the charger, depending on the charger version) or the OPC-515L/CP-23L DC power cables.

**CAUTION:** NEVER reverse the polarity when connecting the OPC-515L to a power source. This will ruin the battery charger.

#### Rapid charging with the BC-214

You can rapidly charge up to 6 battery packs with the optional BC-214.

**Charging time:**

- Approximately 2.8 hours

**Additionally needed items (purchase separately):**

- The OPC-515L (For a 13.8 V DC power source) or the OPC-515L (For a 12 V cigarette lighter socket) can be used instead of the power adapter.

**CAUTION:** NEVER reverse the polarity when connecting the OPC-515L to a power source. This will ruin the battery charger.

- **Red line:** ☺
- **Black line:** ☺