ICOM

INSTRUCTION MANUAL

COMMUNICATIONS RECEIVER

IC-R6

Icom Inc.

FOREWORD

Thank you for purchasing this Icom product. The IC-R6 COMMUNICATIONS RECEIVER is designed and built with Icom's superior technology and craftsmanship. With proper care, this product should provide you with years of trouble-free operation.

We want to take a moment of your time to thank you for making your IC-R6 your radio of choice, and hope you agree with Icom's philosophy of "technology first." Many hours of research and development went into the design of your IC-R6.

◇ *FEATURES*

- ❍ *Covers 0.100–1309.995 MHz* wide frequency range*

  *Some frequency bands are prohibited, depending on the receiver version

- ❍ *External power supply operation*
- ❍ *1300 memory channels with 22 banks available*
- ❍ *150 mW* AF power with BTL* (bridge-tied load) *amplifier*

  *At 10% distortion with a 16 Ω load (internal speaker)

IMPORTANT

READ ALL INSTRUCTIONS carefully and completely before using the receiver.

SAVE THIS INSTRUCTION MANUAL— This instruction manual contains important operating instructions for the IC-R6.

EXPLICIT DEFINITIONS

WORD	DEFINITION
⚠ DANGER!	Personal death, serious injury or an explosion may occur.
⚠ WARNING!	Personal injury, fire hazard or electric shock may occur.
CAUTION	Equipment damage may occur.
NOTE	Recommended for optimum use. No risk of personal injury, fire or electric shock.

PRECAUTIONS

⚠**WARNING! NEVER** operate the receiver with a earphone, headphones or other audio accessories at high volume levels. Hearing experts advise against continuous high volume operation. If you experience a ringing in your ears, reduce the volume level or discontinue use.

⚠**WARNING! NEVER** operate the receiver while driving a vehicle. Safe driving requires your full attention—anything less may result in an accident.

⚠**WARNING! NEVER** connect the receiver to an AC outlet. This may pose a fire hazard or result in an electric shock.

⚠**WARNING! NEVER** throw a battery cell into a fire since as internal battery gas can cause explosion.

⚠**WARNING! NEVER** disassemble the battery cell. If the battery cell's internal material (electrolyte liquid) gets into your eyes, wash your eyes with water and obtain treatment from an eye doctor immediately.

NEVER connect the receiver to a power source of more than 6.3 V DC directly. This will damage the receiver.

NEVER connect the receiver to a power source using reverse polarity. This will damage the receiver.

NEVER expose the receiver to rain, snow or any liquids. The receiver may be damaged.

NEVER operate or touch the receiver with wet hands. This may result in an electric shock or damage the receiver.

NEVER solder the battery cell. This may damage the battery.

DO NOT use or place the receiver in direct sunlight or in areas with temperatures below –10°C (+14˚F) or above +60°C (+140˚F).

DO NOT use harsh solvents such as benzine or alcohol to clean the receiver, because they can damage the receiver's surfaces.

Even when the receiver power is OFF, a slight current still flows in the circuits. Remove batteries from the receiver when not using it for a long time. Otherwise, the installed batteries will become exhausted, and will need to be recharged.

FCC INFORMATION

• FOR CLASS B UNINTENTIONAL RADIATORS:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION: Changes or modifications to this device, not expressly approved by Icom Inc., could void your authority to operate this device under FCC regulations.

OPERATING THEORY

Electromagnetic radiation, which has frequencies of 20,000 Hz (20 kHz*) and above, is called radio frequency (RF) energy because, it is useful in radio transmissions. The IC-R6 receives RF energy from 0.100 MHz* to 1309.995 MHz and converts it into audio frequency (AF) energy which in turn actuates a loudspeaker to create sound waves. AF energy is in the range of 20 to 20,000 Hz.

*kHz is an abbreviation of kilohertz or 1000 hertz, MHz is abbreviation of megahertz or 1,000,000 hertz, where hertz is a unit of frequency.

OPERATING NOTES

The IC-R6 may receive its own oscillated frequency, resulting in no reception or only noise reception, on some frequencies.

The IC-R6 may receive interference from extremely strong signals on different frequencies or when using an external high-gain antenna.

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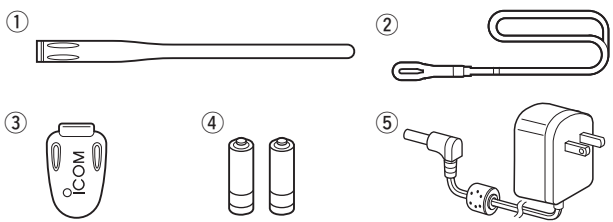
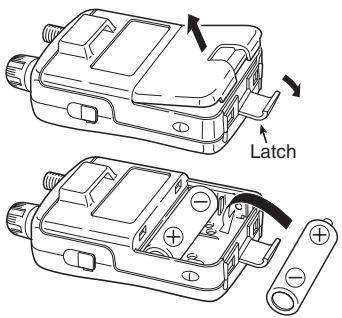
* Not supplied, or the shape is different, depending on the receiver version.



■ Preparation

◇ Battery installation

① Remove the battery cover from the receiver.
② Install two AA (LR6) size Ni-MH or alkaline cell batteries.
- Be sure to observe the correct polarity.
- Charge the Ni-MH batteries before use. (See page II for charging instructions.)



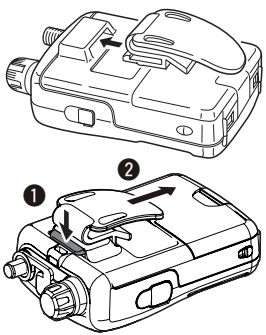
Keep the battery terminals clean. It's a good idea to clean the battery terminals once a week.

◇ Belt clip

Conveniently attaches to your belt.

To attach the belt clip:
Slide the belt clip into the plastic loop on the back of the receiver.

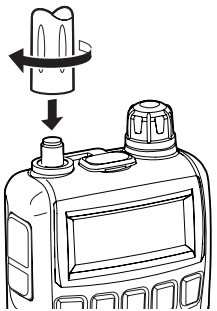
To detach the belt clip:
Hold down the tab (❶), and slide the belt clip in the direction of the arrow (❷).



◇ Antenna

Insert the antenna connector into the antenna base and tighten the antenna screw.

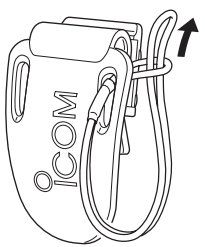
- **NEVER** carry the receiver by holding only the antenna.
- When the jack is not in use, **keep** the jack cover attached to protect the connectors from dust and moisture.



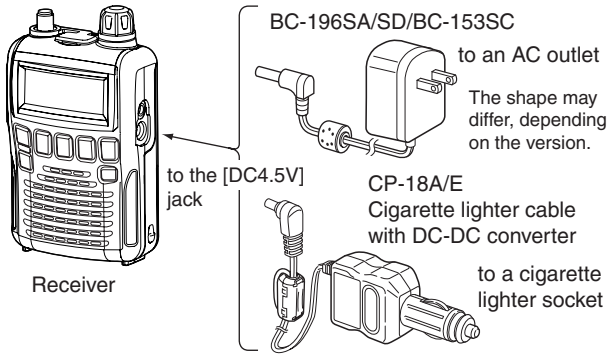
✔ For your information
Third-party antennas may increase receiver performance. An optional AD-92SMA ANTENNA CONNECTOR ADAPTER is available to connect an antenna with a BNC connector.

◇ Handstrap

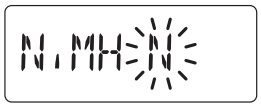
To facilitate carrying the receiver, slide the hand strap through the loop on the top of the belt clip.



◇ Charging the battery



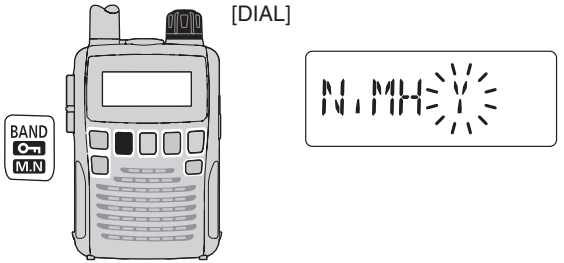
① Install the Ni-MH batteries.
② Plug the AC adapter into an AC outlet.
③ Insert the adapter plug into the [DC4.5V] of the receiver.
• The battery confirmation is displayed.



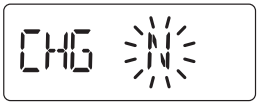
⚠WARNING!:
NEVER attempt to charge the alkaline batteries.

NOTE: When no operation is performed for 10 seconds, the receiver automatically skips these settings, and the receiver cannot charge the batteries. In that case, remove the batteries for more than 2 seconds and retry these setting from step ①.

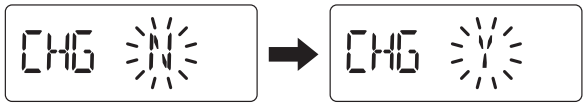
④ Rotate **[DIAL]** to select "Y," then push **[BAND]**.



• The charging confirmation is displayed.



⑤ Rotate **[DIAL]** to select "Y," then push **[BAND]** to start the battery charging.



• The battery icon scrolls during charge.

• Both segments blink when completely charged.

■ Your first scanning experience

Now that you have your IC-R6 ready, you are probably excited to start listening. We would like to take you through a few basic operation steps to make your first “Listennig Experience” enjoyable.

◇ About the default settings

The **[DIAL]** control function can be traded with the **[▲]/[▼]** keys function. However, in this QUICK REFERENCE GUIDE, the factory default setting (**[DIAL]** selects the operating frequency) is used for simple instruction.

◇ Basic operation

1. Turning ON the receiver

➥ Hold down **[⏻]** for 1 second to turn the power ON.

2. Adjusting audio level

➥ Push **[▲]/[▼]** to set a desired audio level.

3. Adjusting squelch level

➥ While holding down **[SQL]**, rotate **[DIAL]** to set the squelch level.

4. Setting a desired frequency

The tuning dial will allow you to dial in the frequency you want to listen to. Pages 11 and 17 will instruct you on how to set the tuning speed.

①Push **[BAND]** repeatedly to select a frequency band.
- While holding down **[BAND]**, then rotating **[DIAL]** will also select a frequency band.

②Rotate **[DIAL]** to set the receive frequency.
- While holding down **[FUNC]**, rotate **[DIAL]** to select frequencies in MHz steps.

■ Your first scanning experience (continued)

5. Receive mode selection

➥ Push **[MODE]** repeatedly to select a desired receive mode.
• The FM, WFM or AM is selectable.

■ Memory programming

The IC-R6 has 1300 memory channels for storing often used receive frequency, mode, etc.

1. Setting frequency

In the VFO mode, set a desired receive frequency and receive mode.
• When the " MR " icon is displayed, push **[V/M]** to select the VFO mode.

2. Selecting a memory channel

Hold down **[S.MW]**(V/M) for 1 second, then rotate **[DIAL]** to select a desired memory channel.
• The " MR " icon and memory channel number blink.

3. Writing a memory channel

Hold down **[S.MW]**(V/M) for 1 second until 3 beeps sound.
• The memory channel number automatically increases if you continue to hold down **[S.MW]**(V/M) after programming.

Count on us!

#02 Europe
#12 Europe-1

<Intended Country of Use>					
■ AT	■ BE	■ CY	■ CZ	■ DK	■ EE
■ FI	□ FR	■ DE	■ GR	■ HU	■ IE
□ IT	■ LV	■ LT	■ LU	■ MT	■ NL
■ PL	■ PT	■ SK	■ SI	□ ES	■ SE
□ GB	■ IS	■ LI	■ NO	■ CH	■ BG
■ RO	■ TR	■ HR			

#03 U.K.

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□ PL	□ PT	□ SK	□ SI	□ ES	□ SE
■ GB	□ IS	□ LI	□ NO	□ CH	□ BG
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#05 Italy
#15 Italy-1

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#07 France
#17 France-1

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#08 Spain
#18 Spain-1

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□ RO	□ TR	□ HR			

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