



INSTRUCTION MANUAL

COMMUNICATIONS RECEIVER

IC-R8600



PREFACE

Thank you for choosing this Icom product. The IC-R8600 COMMUNICATIONS RECEIVER is a wide band receiver which designed to cover the 10 kHz to 3 GHz range with Icom's state of the SDR technology. With proper care, this product should provide you with years of trouble-free operation. Many hours of research and development went into the design of your IC-R8600.

IMPORTANT

READ ALL INSTRUCTIONS carefully completely before using the receiver.

SAVE THIS INSTRUCTION MANUAL— This instruction manual contains operating instructions for the IC-R8600.



Hereby, Icom Inc. declares that the versions of IC-R8600 which have the "CE" symbol on the product, comply with the essential requirements of the Radio Equipment Directive, 2014/53/EU, and the restriction of the use of certain hazardous substances in electrical and electronic equipment Directive, 2011/65/EU. The full text of the EU declaration of conformity is available at the following internet address: <http://www.icom.co.jp/world/support/>

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.

TRADEMARKS

Icom, Icom Inc. 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.

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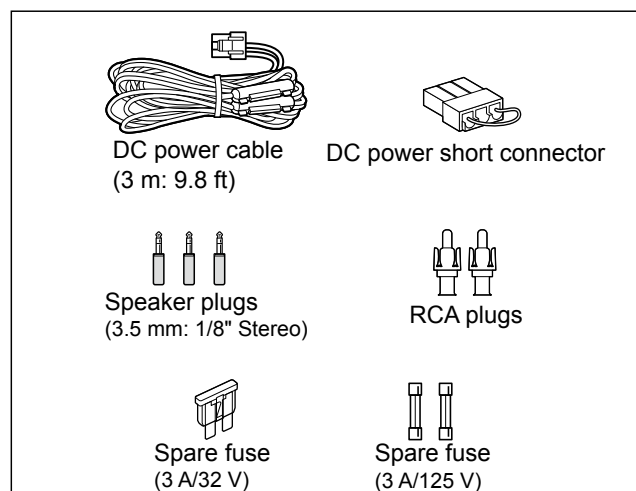
All other products or brands are registered trademarks or trademarks of their respective holders.

This product includes RTOS "RTX" software, and is licensed according to the software license.
This product includes "zlib" open source software, and is licensed according to the open source software license.
This product includes "libpng" open source software, and is licensed according to the open source software license.
Refer to page I for information on the open source software being used by this product.

FEATURES

- **Covers 10 kHz to 3 GHz for wide band reception**
- **Receives various digital modes such as D-STAR, P25 (Phase 1), NXDN, dPMR and DCR (Digital Convenience Radio)**
- **12 kHz IF output port for DRM broadcast**
- **Hi-speed Real-Time Spectrum Scope**
- **A 4.3 inch touch panel color display**
- **Multi-function dials for easy settings**
- **An SD card slot**
You can record the received audio, save the receiver settings, decoded FSK logs and so on, onto an SD card (user supplied).
- **“IP+” Function**
The IP Plus function improves 3rd order intercept point (IP3) performance.
- **I/Q baseband signal output port**
- **Optional external speaker (with integrated power supply)**

SUPPLIED ACCESSORIES



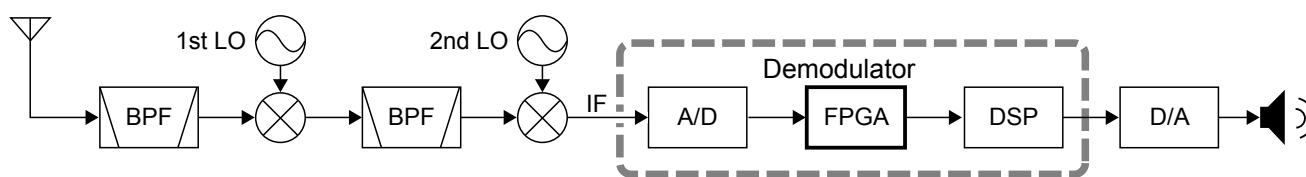
① Different types of accessories may be supplied, or may not be supplied depending on the receiver version.

ABOUT THE SDR WIDEBAND RECEIVER CIRCUITS

While ordinary wide band receivers need to have dedicated demodulator circuits for each receive mode, the IC-R8600 utilizes advanced digital processes that demodulate the incoming signals.

The IF signal is sent to the A/D converter, resulting in digital signal, then is processed by a high-speed FPGA and DSP to be restored to an analog audio signal.

The received signal is processed to be demodulated according to the receive mode, including not only conventional analog communications in CW, AM, SSB, FM, WFM and FSK, but also advanced digital communications in D-STAR, P25, NXDN, dPMR and DCR. This was achieved by using Software Defined Radio (SDR) technology.



Double conversion super heterodyne receiver (Example for 30.000000 MHz ~ 1099.999999 MHz)

VOICE CODING TECHNOLOGY

The AMBE+2™ voice coding Technology embodied in this product is protected by intellectual property rights including patent rights, copyrights and trade secrets of Digital Voice Systems, Inc. This voice coding Technology is licensed solely for use within this Communications Equipment. The user of this Technology is explicitly prohibited from attempting to extract, remove, decompile, reverse engineer, or disassemble the Object Code, or in any other way convert the Object Code into a human-readable form. U.S. Patent Nos.

#5,870,405, #5,826,222, #5,754,974, #5,701,390, #5,715,365, #5,649,050, #5,630,011, #5,581,656, #5,517,511, #5,491,772, #5,247,579, #5,226,084 and #5,195,166.

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.

WARNING: MODIFICATION OF THIS DEVICE TO RECEIVE CELLULAR RADIOTELEPHONE SERVICE SIGNALS IS PROHIBITED UNDER FCC RULES AND FEDERAL LAW.

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

DISPOSAL



The crossed-out wheeled-bin symbol on your product, literature, or packaging reminds you that in the European Union, all electrical and electronic products, batteries, and accumulators (rechargeable batteries) must be taken to designated collection locations at the end of their working life. Do not dispose of these products as unsorted municipal waste. Dispose of them according to the laws in your area.

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, or other natural disasters, disturbances, riots, war, or radioactive contamination.
- The use of Icom receivers with any equipment that is not manufactured or approved by Icom.

ABOUT THE INSTRUCTIONS

This manual is described in the following manner.

“ ” (Quotation marks):

Used to indicate icons, setting items, and screen titles displayed on the screen.

The screen titles are also indicated in uppercase letters. (Example: FUNCTION screen)

[] (brackets):

Used to indicate keys.

Routes to the set modes and setting screens

Routes to the Set mode, setting screen and the setting items are described in the following manner.

MENU » **SET > Time Set > Date**

Instruction example

◇ Setting date

1. Open the Date screen.

MENU » **SET > Time Set > Date/Time > Date**

2. Touch [+] or [-] to set the date.
3. Touch [SET] to store the entry.

◇ About the touch operation

In the manual, the touch operation is described as shown below.



Touch

If the display is touched briefly, one short beep sounds.



Touch for 1 second

If the display is touched for 1 second, one short and one long beep sound.

◇ Touch screen precautions

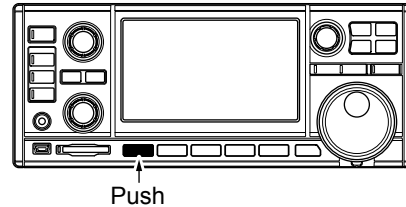
- The touch screen may not properly work when the LCD protection film or sheet is attached.
- Touching the screen with your finger nails, sharp topped object and so on, or touching the screen hard may damage it.
- Tablet PC's operations such as flick, pinch in and pinch out cannot be performed on this touch screen.

◇ Touch screen maintenance

- If the touch screen becomes dusty or dirty, wipe it clean with a soft, dry cloth.
- When you wipe the touch screen, be careful not to push it too hard or scratch it with your finger nails. Otherwise you may damage the screen.

Detailed instruction

1. Push **MENU**.



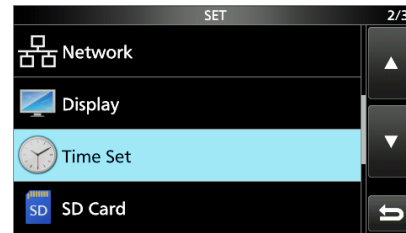
- The MENU screen opens.

2. Touch [SET].

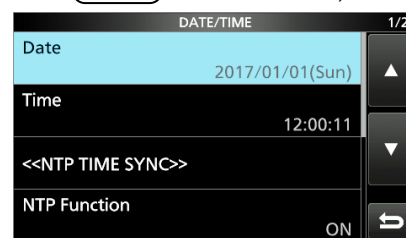


- The SET screen opens.

3. Rotate **DIAL C** to select "Time Set," and then push **DIAL C**.



4. Rotate **DIAL C** to select "Date," then push **DIAL C**.



5. Touch [+] or [-] to set the date.
6. Touch [SET] to save the entry.

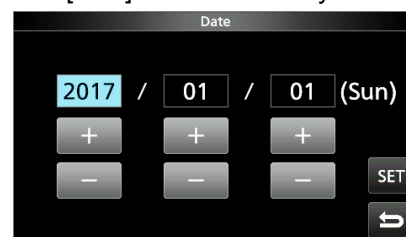


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PRECAUTIONS

⚠ **DANGER! NEVER** operate the receiver near unshielded electrical blasting caps or in an explosive atmosphere. This could cause an explosion and death.

⚠ **WARNING! NEVER** operate the receiver with a headset or other audio accessories at high volume levels. If you experience a ringing in your ears, reduce the volume or discontinue use.

⚠ **WARNING! NEVER** apply AC power to the [DC13.8V] socket on the receiver rear panel. This could cause a fire or damage the receiver.

⚠ **WARNING! NEVER** apply more than 16 V DC to the [DC13.8V] socket on the receiver rear panel. This could cause a fire or damage the receiver.

⚠ **WARNING! NEVER** reverse the DC power cable polarity. This could cause a fire or damage the receiver.

⚠ **WARNING! NEVER** remove the fuse holder on the DC power cable. Excessive current caused by a short could cause a fire or damage the receiver.

⚠ **WARNING! NEVER** let metal, wire or other objects contact the inside of the receiver, or make incorrect contact with connectors on the rear panel. This could cause an electric shock or damage the receiver.

⚠ **WARNING! NEVER** operate or touch the receiver with wet hands. This could cause an electric shock or damage to the receiver.

⚠ **WARNING!** Immediately turn OFF the receiver power and remove the power cable from the receiver if it emits an abnormal odor, sound or smoke. Contact your Icom dealer or distributor for advice.

⚠ **WARNING! NEVER** put the receiver on an unstable place where the receiver may suddenly move or fall. This could cause an injury or damage the receiver.

⚠ **WARNING! NEVER** operate the receiver during a lightning storm. It may result in an electric shock, cause a fire or damage the receiver. Always disconnect the power source and antenna before a storm.

CAUTION: NEVER expose the receiver to rain, snow or any liquids.

CAUTION: NEVER change the internal settings of the receiver. This could reduce receiver performance and/or damage to the receiver. The receiver warranty does not cover any problems caused by unauthorized internal adjustments.

CAUTION: NEVER install or place the receiver in a place without adequate ventilation.

CAUTION: NEVER use harsh solvents such as Benzine or alcohol when cleaning, as they will damage the receiver surfaces.

CAUTION: NEVER leave the receiver in areas with temperatures below -10°C ($+14^{\circ}\text{F}$) or above $+60^{\circ}\text{C}$ ($+140^{\circ}\text{F}$).

CAUTION: NEVER place the receiver in excessively dusty environments. This could damage the receiver.

DO NOT place the receiver against walls or put anything on top of the receiver. This may overheat the receiver.

BE CAREFUL! The receiver will become hot when operating the receiver continuously for long periods of time.

NEVER leave the receiver in an insecure place to avoid use by unauthorized persons.

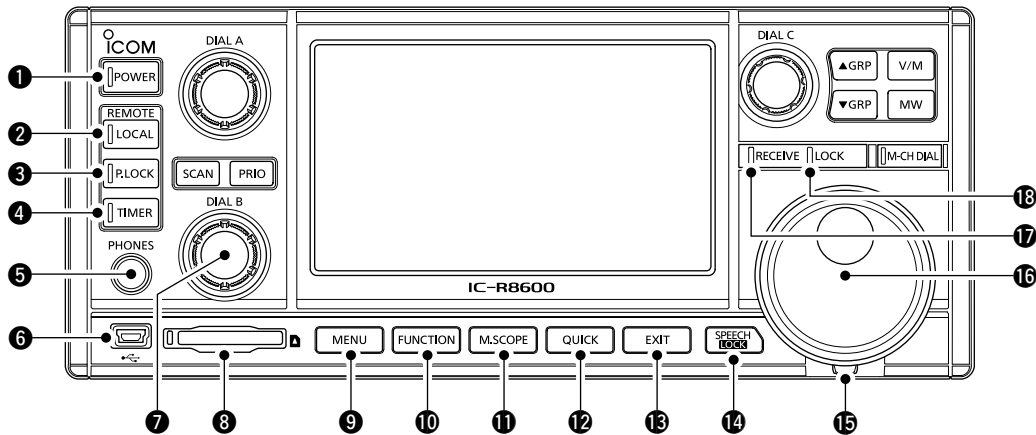
Turn OFF the receiver's power and/or disconnect the DC power cable when you will not use the receiver for long period of time.

The display may have cosmetic imperfections that appear as small dark or light spots. This is not a malfunction or defect, but a normal characteristic of LCDs.

The IC-R8600 may receive its own oscillated frequency, resulting in no reception or only noise reception including on the Spectrum Scope screen, on some frequencies.

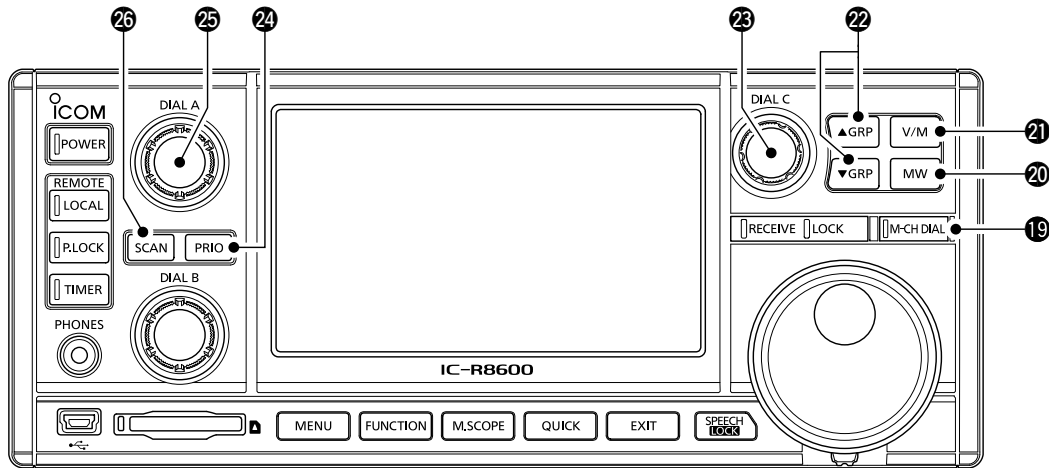
Front panel

This section describes the keys, controls and dials that you use to operate the IC-R8600. Refer to the pages posted beside each key, control, or dial for details.



- 1 POWER KEY [POWER]** (p. 2-1)
Turns the receiver ON (lights blue) or OFF.
- 2 LOCAL KEY** (p. 16-2)
Turns OFF the Remote mode.
① In the Remote mode, all the operations on the panel except [LOCAL], [POWER] and [P.LOCK] are locked.
- 3 PANEL LOCK KEY [P.LOCK]** (p. 3-3)
Locks the controls (lights white) on the front panel.
① Hold down for 1 second to turn OFF the display.
- 4 TIMER KEY [TIMER]** (p. 10-2)
Turns ON (lights orange) or OFF the Timer function.
① Set the current time to use the Timer function. (p. 10-1)
- 5 HEADPHONE JACK [PHONES]** (p. 16-2)
Accepts headphones. (3.5 mm: 1/8 in (d))
- 6 [USB] (mini-B type) PORT** (pp. 2-3, 16-1)
Connects to a PC.
• Outputs the decoded FSK (RTTY) or D-STAR data.
• Outputs the demodulated AF signal or 12 kHz IF signal.
• Interface for the optional CS-R8600 or RS-R8600.
• Interface for the remote control by the CI-V command.
- 7 DIAL B [DIAL B]** (p. 1-6)
• Rotate to adjust the audio output level.
• Push to display the setting menu, then rotate to adjust the RF gain (sensitivity), squelch threshold levels or audio tone (Treble or Bass).
• Hold down to turn ON the Monitor function (the squelch opens).
- 8 SD CARD SLOT [SD CARD]** (pp. 7-1, 7-2)
Accepts an SD card.
- 9 MENU KEY [MENU]** (pp. 1-6, 11-1)
Opens the MENU screens where you can modify the receiver settings and edit memory channels.
- 10 FUNCTION KEY [FUNCTION]** (pp. 1-7, 5-1)
Displays the FUNCTION screen where you can configure various settings.
- 11 MINI SCOPE KEY [M.SCOPE]** (p. 4-3)
• Push to display the Mini Scope.
• Hold down for 1 second to display the Spectrum Scope.
- 12 QUICK KEY [QUICK]** (p. 1-6)
Displays the QUICK MENU.
- 13 EXIT KEY [EXIT]**
Exits a setting screen or returns to the previous screen.
- 14 SPEECH/LOCK KEY [SPEECH LOCK]** (p. 3-3)
• Push to announce the receiving frequency and mode.
• Hold down for 1 second to lock (lights white) [MAIN DIAL].
- 15 TENSION ADJUSTER**
Adjusts the friction of [MAIN DIAL] in 3 steps.
- 16 MAIN DIAL [MAIN DIAL]**
Changes the operating frequency or setting value.
- 17 RECEIVE INDICATOR**
Lights green while receiving a signal or the squelch (p. 3-1) is opened.
- 18 LOCK INDICATOR** (p. 3-3)
Lights white while the [MAIN DIAL] is locked by [SPEECH LOCK].

Front panel (Continued)

**19 MEMORY CHANNEL DIAL KEY** **M-CH DIAL** (p. 8-2)

Push this key (lights white) then rotate **MAIN DIAL** to change the Memory channel number.

20 MEMORY WRITE KEY **MW** (p. 8-2)

- Push to open the MW MENU screen.
- Hold down for 1 second to write the current receiving contents (frequency, mode, and so on) to a memory channel.

21 VFO/MEMORY KEY **V/M** (p. 3-1)

- Push to toggle between the VFO and Memory modes.
- Hold down for 1 second to copy the selected memory channel contents to the VFO.

22 MEMORY GROUP KEY **▲GRP/▼GRP** (p. 8-1)

Changes the Memory channel group.

23 DIAL C **DIAL C** (p. 1-6)

- Push to display the Multi Dial menu.
- Turn to change the memory channel number.

24 PRIORITY SCAN KEY **PRIORITY** (p. 9-2)

Starts or cancels a Priority scan.

- ① Select a Memory channel before starting a Priority scan.

25 DIAL A **DIAL A** (p. 1-6)

- Push to display the scan setting menu, then rotate to set the Scan speed or Priority scan interval.

26 SCAN KEY **SCAN** (p. 9-1)

- Push to display the SCAN START screen.
- Hold down for 1 second to start a scan (except Priority scan).

Count on us!

IC-R8600 #03
(Europe)

< Intended Country of Use >											
<input checked="" type="checkbox"/>	AT	<input checked="" type="checkbox"/>	BE	<input checked="" type="checkbox"/>	CY	<input checked="" type="checkbox"/>	CZ	<input checked="" type="checkbox"/>	DK	<input checked="" type="checkbox"/>	EE
<input checked="" type="checkbox"/>	FI	<input checked="" type="checkbox"/>	FR	<input checked="" type="checkbox"/>	DE	<input checked="" type="checkbox"/>	GR	<input checked="" type="checkbox"/>	HU	<input checked="" type="checkbox"/>	IE
<input checked="" type="checkbox"/>	IT	<input checked="" type="checkbox"/>	LV	<input checked="" type="checkbox"/>	LT	<input checked="" type="checkbox"/>	LU	<input checked="" type="checkbox"/>	MT	<input checked="" type="checkbox"/>	NL
<input checked="" type="checkbox"/>	PL	<input checked="" type="checkbox"/>	PT	<input checked="" type="checkbox"/>	SK	<input checked="" type="checkbox"/>	SI	<input checked="" type="checkbox"/>	ES	<input checked="" type="checkbox"/>	SE
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