

 ICOM

WIDEBAND AND HF RECEIVERS

IC-R7000    IC-R71E  
IC-R71A    IC-R71D



The art of listening.  
An ongoing process of refinement with Icom receivers.

Icom Inc.

# Gives more as it receives!



## IC-R7000: WIDE BAND COVERAGE UP TO 2000 MHz!\*

Listening is half of all communication. And to do this well a good ear is always necessary. This is why Icom has spent more than a quarter of a century perfecting its communications receivers, keeping an ear to the world and to your needs as an avid world listener. With Icom's advanced IC-R7000, for example, you can hear all you want: air band messages, VHF marine stations, weather agencies, emergency services, fire departments, FM and TV\*\* stations and many more utility stations. The IC-R7000 continuously covers all stations within 25~1000 and 1025~2000 MHz.\* With a range like this you'll always be within earshot of everything worth hearing.

\*Refer to frequency coverage in the IC-R7000 specifications.

Specifications are guaranteed for 25~1000 and 1240~1300 MHz.

\*\*The optional TV-R7000 is required for video signal reception.

## ALL MODES

The IC-R7000 is equipped with all modes for radio monitoring: SSB (USB, LSB), AM and FM (wide, narrow). These modes are suitable for receiving most VHF and UHF stations.

## KEYBOARD ENTRY

Quick tuning versatility is assured with the IC-R7000 via the TUNING CONTROL or the convenient front panel KEYBOARD. Selecting frequencies with the KEYBOARD is fast, immediate, and simple when the desired frequency is already known such as with a broadcast station.

## 99 MEMORY CHANNELS

The IC-R7000 is equipped with 99 memory channels for storing your favorite frequencies and operating modes into each memory channel. Use, for example, memory channels 0 to 9 for the air band, 10 to 29 for land mobile stations, and 30 to 50 for FM stations. Just rotate the MEMORY CH selector to choose your desired memory channel.

## 6 TUNING STEP INCREMENTS

The IC-R7000 tuning steps are available in increments of 0.1, 1, 5, 10, 12.5 and 25 kHz. These steps are suitable for receiving all signals.

## VARIETY OF SCAN FUNCTIONS

The IC-R7000 has a total of six advanced separate scan functions:

- Priority scan automatically monitors a programmed channel while you receive a signal.
- Programmed scan repeatedly scans a specific frequency range.
- Selected memory scan repeatedly scans specified programmed memory channels.
- Selected mode memory scan repeatedly scans memories which contain programmed frequencies with the same operating mode.
- Memory channel scan repeatedly scans all 99 memory channels in sequence.
- Auto write memory scan automatically writes any incoming signal in programmed scan to memory channels 80 through 99.

## REMOTE CONTROL

The optional RC-12 WIRELESS REMOTE CONTROLLER allows you convenient remote control of the IC-R7000's numerous functions: power ON/OFF, audio level, operating frequency, memory channels, etc.

## VSC (Voice Scan Control) FUNCTION

While scanning, this function stops the scan only when voice signals in a receive signal are received. Signals without voice signals are skipped. This function and the auto write memory scan function provide a good combination for automatic memory writing.

## TV RECEPTION

The optional TV-R7000 converts TV signals received by the IC-R7000 to video signals for your TV or video recorder. Watch overseas television stations when ionospheric conditions are good.

## OPTIONAL VOICE SYNTHESIZER UNIT

The optional EX-310 VOICE SYNTHESIZER UNIT announces receive frequencies in English. You can use the scan function while you are out to record signals on a tape recorder. Synthesized voice readings can also be recorded for later review.

## CI-V SYSTEM

Using Icom's advanced CI-V System, many control functions can be carried out using a personal computer equipped with an RS-232C socket.

## OTHER OUTSTANDING FEATURES

- Variable scan speed
- S-meter squelch
- Dial lock function
- Noise blanker
- Combined S-meter and center meter
- All mode squelch

# IC-R7000

WIDEBAND RECEIVER



## IC-R71A/E/D: SUPERIOR SHORTWAVE RECEIVER.

Put the world at your fingertips with the advanced IC-R71A/E/D, Icom's popular all-purpose communications receiver. Listen to both domestic and overseas broadcasts as well as maritime, aeronautical, news agency, government, CB (Citizen's Band) and amateur radio messages. The easy-to-use receiver is ideal for anyone wanting to listen to worldwide communications: professional and amateur radio operators, SWLs (Short Wave Listeners) and BCLs (Broadcasting Listeners). No previous shortwave operating experience is necessary.

### ALL MODE AND GENERAL COVERAGE

The IC-R71A/E/D is a high performer from 100 kHz to 30 MHz continuously\*<sup>1</sup> in SSB (LSB, USB), CW, AM, FM\*<sup>2</sup> and RTTY modes. These modes are suitable for receiving most long wave, medium wave and shortwave stations.

\*<sup>1</sup>Refer to frequency coverage in specifications.  
\*<sup>2</sup>An optional IC-EX257 FM UNIT is required.

### SUPERIOR RF CIRCUITS

Front end circuits in the IC-R71A/E/D incorporate Icom's DFM (Direct Feed Mixer) which ensures higher intermodulation and cross modulation rejections. The IC-R71A/E/D has a wide 100 dB dynamic range and utilizes a well-designed triple up-conversion scheme which minimizes image and spurious responses. These circuits make it possible to receive signals from DX (long distance) or weak signal stations.

\*FM mode: double conversion

### NOTCH FILTER SYSTEM

Icom's notch filter can be tuned to eliminate interfering signals. This system ensures you clear and comfortable listening.

### DIRECT FREQUENCY ENTRY

Direct frequency entry from the KEYBOARD allows complete programming versatility. This is especially convenient when the frequency is already known as with a broadcast station.

### 32 MEMORY CHANNELS

The IC-R71A/E/D is equipped with 32 fully tunable memory channels. The operating frequency and mode can be stored in any of 32 memory channels. Memory channel selection using the MEMORY-CH selector allows you to quickly recall all memory channels. In addition, the frequencies in the memory channels can be easily changed via the TUNING CONTROL.

### REMOTE CONTROL

Utilizing the optional RC-11 WIRELESS REMOTE CONTROLLER, you can remotely control the IC-R71A/E/D's numerous functions such as power ON/OFF, audio level, receive frequencies, and memory channels.

### SCAN FUNCTIONS

Three convenient scan functions are available in the IC-R71A/E/D:

- Programmed scan repeatedly scans between two programmable scan edges.
- Memory channel scan repeatedly scans all memory channels in succession.
- Selected mode memory scan repeatedly scans memory channels with the same mode.

### OPTIONAL VOICE SYNTHESIZER UNIT

The optional EX-310 VOICE SYNTHESIZER UNIT announces frequency readings in English.

### OPTIONAL FILTERS

Icom offers you the optional FL-32A and FL-63A CW AND RTTY NARROW FILTERS for clear CW and RTTY reception.

- FL-32A: 9.0106 MHz, 500 Hz/-6 dB
- FL-63A: 9.0106 MHz, 250 Hz/-6 dB

### CI-V SYSTEM

Utilizing an optional CT-17 CI-V LEVEL CONVERTER with a UX-14 CI-IV/CI-V CONVERTER, many control functions can be carried out from a personal computer equipped with an RS-232C socket.

### ADDITIONAL FUNCTIONS

The IC-R71A/E/D has the following additional functions:

- Selectable FAST, SLOW and OFF AGC control
- Level and wide/narrow pulse width selectable noise blanker
- All mode squelch
- Receive tone control

# IC-R71A/E/D

HF RECEIVER

## IC-R7000 SPECIFICATIONS

### • Frequency coverage

VERSION	FREQUENCY COVERAGE (MHz)
U.S.A. Europe Australia	25.0000~ 999.9999 1025.0000~1999.9999
France	25.0000~ 87.4999 108.0000~ 999.9999 1025.0000~1999.9999
Germany	28.0000~ 29.7000 144.0000~ 146.0000 430.0000~ 440.0000

Specifications guaranteed for 25,000~999,999 MHz and 1240,000~1300,000 MHz.  
SSB(A3J), AM(A3), FM(F3)  
0.1, 1, 5, 10, 12.5 or 25 kHz

- Modes
- Tuning step increment
- Power supply requirement

VERSION	VOLTAGE
U.S.A.	117 V AC ±10%
Europe Australia	234 V AC ±10%
Germany	220 V AC ±10%

- Usable temperature range
- Dimensions
- Weight
- Sensitivity

-10°C~+60°C (+14°F~+140°F)  
286(W) × 110(H) × 276(D) mm  
11.3(W) × 4.3(H) × 10.9(D) in  
(projections not included)  
8.0 kg (17.6 lb)  
25,000 MHz~999,999 MHz

SSB Less than 0.3 μV for 10 dB S/N  
AM Less than 1.0 μV for 10 dB S/N  
FM Less than 0.5 μV for 12 dB SINAD  
FM (wide) Less than 1.0 μV for 12 dB SINAD  
1240,000 MHz~1300,000 MHz  
SSB Less than 0.3 μV for 10 dB S/N  
AM Less than 2.0 μV for 10 dB S/N  
FM Less than 0.5 μV for 12 dB SINAD  
FM (wide) Less than 2.0 μV for 12 dB SINAD

- Selectivity
- Audio output power

SSB More than 2.8 kHz/-6 dB  
Less than 11 kHz/-40 dB  
AM, FM More than 15 kHz/-6 dB  
Less than 40 kHz/-40 dB  
AM, FM More than 6 kHz/-6 dB  
(narrow) Less than 18 kHz/-50 dB  
FM (wide) More than 150 kHz/-6 dB  
Less than 380 kHz/-20 dB  
More than 2.5 W at 10% distortion with an 8 Ω load

## IC-R71A/E/D SPECIFICATIONS

### • Frequency coverage

MODEL	VERSION	FREQUENCY COVERAGE (MHz)
IC-R71A	U.S.A.	0.1000~30.0000
IC-R71A	Australia	2.0000~30.0000
IC-R71E	Europe	0.1000~30.0000
IC-R71D	Germany	0.1500~26.1000

- Modes
- Tuning step increment
- Power supply requirement

SSB(A3J), AM(A3), CW(A1), RTTY(F1), FM(F3)\*  
10 Hz or 1 kHz

MODEL	VERSION	VOLTAGE
IC-R71A	U.S.A.	117 V AC ±10%
IC-R71A	Australia	234 V AC ±10%
IC-R71E	Europe	234 V AC ±10%
IC-R71D	Germany	220 V AC ±10%

- Usable temperature range
- Dimensions
- Weight
- Sensitivity

-10°C~+60°C (+14°F~+140°F)  
286(W) × 110(H) × 276(D) mm  
11.3(W) × 4.3(H) × 10.9(D) in  
(projections not included)  
7.5 kg (16.5 lb)  
0.1000~0.4999 MHz

SSB  
CW, RTTY Less than 0.32 μV for 10 dB S/N  
AM Less than 1.0 μV for 10 dB S/N  
0.5000~1.9999 MHz  
SSB  
CW, RTTY Less than 1.0 μV for 10 dB S/N  
AM Less than 3.2 μV for 10 dB S/N  
1.6000~30.0000 MHz  
SSB  
CW, RTTY Less than 0.16 μV for 10 dB S/N  
AM Less than 0.5 μV for 10 dB S/N  
FM\* Less than 0.32 μV for 12 dB SINAD

- Selectivity (preamp ON)
- Audio output power

SSB  
CW, RTTY More than 2.3 kHz/-6 dB  
Less than 4.2 kHz/-60 dB  
AM More than 6 kHz/-6 dB  
Less than 15 kHz/-50 dB  
FM\* More than 15 kHz/-6 dB  
Less than 25 kHz/-60 dB  
More than 3 W at 10% distortion with an 8 Ω load  
\*with the optional IC-EX257 FM UNIT

All stated specifications are subject to change without notice or obligation.

## OPTIONS

### ■ IC-R7000 AND IC-R71A/E/D COMMON OPTIONS

- **CT-17** CI-V LEVEL CONVERTER  
For remote control using a personal computer with an RS-232C socket.  
An optional UX-14 is necessary for the IC-R71A/E/D.
- **EX-310** VOICE SYNTHESIZER UNIT  
Provides audible, synthesized readings of frequencies in English.
- **IC-MB12** MOBILE MOUNTING BRACKET  
Receiver bracket for mobile operation.
- **SP-3** EXTERNAL SPEAKER  
External speaker. Matching style and size with the IC-R7000 and IC-R71A/E/D.
- **SP-7** EXTERNAL SPEAKER  
Compact external speaker.
- **SP-20** EXTERNAL SPEAKER WITH AUDIO FILTERS  
High performance speaker with audio filters for greater sound quality.

### ■ IC-R7000 OPTIONS

- **AH-7000** SUPER WIDEBAND OMNIDIRECTIONAL ANTENNA  
Super wide frequency coverage from 25 to 1300 MHz.
- **RC-12** WIRELESS REMOTE CONTROLLER  
Infrared remote controller for effortless receiver control.
- **TV-R7000** TV RECEIVE ADAPTER  
Adds TV reception capability.

### ■ IC-R71A/E/D OPTIONS

- **CR-64** HIGH-STABILITY CRYSTAL UNIT  
Contains a temperature-compensating oven heater and crystal unit for improved frequency stability. Frequency stability is ±0.5 ppm (-10°C~+60°C/+14°F~+140°F).
- **CT-16** SATELLITE INTERFACE UNIT  
Easy tuning for instant satellite communications with the IC-R71A/E/D and an Icom hamceiver. Optional UX-14 is necessary.
- **IC-EX257** FM UNIT  
Adds FM mode capability.
- **FL-32A** CW AND RTTY NARROW FILTER (9.0106 MHz, 500 Hz/-6 dB)  
**FL-63A** CW AND RTTY NARROW FILTER (9.0106 MHz, 250 Hz/-6 dB)  
Have good shape factors and provide you with better CW and RTTY reception.
- **RC-11** WIRELESS REMOTE CONTROLLER  
Infrared remote controller for effortless receiver control.
- **UX-14** CI-IVCI-V CONVERTER  
Allows you to use the CT-16 or CT-17.

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