

ICOM HF Receiver

IC-R71A



The World Class World Receiver

ICOM introduces the IC-R71A 100KHz to 30MHz superior-grade general coverage HF receiver with innovative features including keyboard frequency entry and wireless remote control (optional).

This easy-to-use and versatile receiver is ideal for anyone wanting to listen in to worldwide communications. With 32 programmable memory channels, SSB/AM/RTTY/CW/FM (opt.), dual VFO's, scanning, selectable AGC and noise blanker, the IC-R71A's versatility is unmatched by any other commercial grade unit in its price range.



Keyboard Entry. ICOM introduces a unique feature to shortwave receivers...direct keyboard entry for simplified operation. Precise frequencies can be easily selected by pushing the digit keys in sequence of frequency. The frequency will be automatically entered without changing the main tuning control.

Superior Receiver Performance. Passband tuning, wide dynamic range (100dB), a deep IF notch filter, adjustable AGC (Automatic Gain Control) and a noise blanker provide easy-to-adjust clear reception even in the presence of strong interference or high noise levels. A preamplifier allows improved reception of weak signals.

32 Tunable Memories. Thirty-two tunable memories, more than any other general coverage receiver on the market, offer instant recall of your favorite frequencies. Each memory stores frequency, VFO and operating mode, and is

backed by an internal lithium memory battery.

Options. FM, RC-11 wireless remote controller, synthesized voice frequency readout, IC-CK70 DC adapter for 12 volt operation, MB-12 mobile mounting bracket, two CW filters, FL32-500Hz and FL63-250Hz, and high-grade 455KHz crystal filter, FL44A.



First in Communications

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All stated specifications are approximate and subject to change without notice or obligation. All ICOM radios significantly exceed FCC regulations limiting spurious emissions. R71A1084



SPECIFICATIONS: IC-R71A GENERAL COVERAGE RECEIVER

GENERAL

Frequency Coverage:

0.1MHz — 30.0MHz

Frequency Control:

CPU based 10Hz step Digital PLL synthesizer with dual VFO system. Direct frequency entry through keyboard or RC-11 remote unit.

Memories:

32 tunable memories store frequency and mode.

Scanning:

Memory and band scan with auto-stop.

Frequency Readout:

6 digit 100Hz fluorescent readout.

Frequency Stability:

Less than 250Hz after switch on 1 min to 60 mins, and less than 50Hz after 1 hours. Less than 500Hz in the range of +10°C to +50°C.

With optional CR-64 high stability crystal. Less than ±50Hz after switch on 1 min to 60 mins, and less than ±10Hz after 1 hour at normal room temperature. Less than ±100Hz in the range of -10°C to +60°C.

Power Supply Requirements:

117V or 235V ±10% 50-60Hz 30V A
(100V/200V/220V use requires internal modification)

Antenna Impedance:

50 ohms Unbalanced
(Single wire can be used on 0.1 — 1.6MHz)

Weight:

7.5kg (16.5 lbs.)

Dimensions:

111mm(H) x 286mm(W) x 276mm(D)
(4 3/8 in. x 11 1/4 in. x 10 7/8 in.)

RECEIVER

Receiving System:

Quadruple Conversion Superheterodyne with continuous Passband Tuning
(F³*: Triple Conversion Superheterodyne)

Receiving Mode:

A¹, A³J (USB, LSB), F¹ (Output FSK audio signal),
A³, F³*

IF Frequencies:

1st	70.4515MHz	3rd	455KHz
2nd	9.0115MHz	4th	9.0115MHz (except F ³ *)

with continuous Passband Tuning (except F³*)

2nd IF Center Frequency:

SSB (A ³ J) FM* (F ³)	9.0115MHz
CW (A ¹) RTTY (F ¹)	9.0106MHz
AM (A ³)	9.0100MHz

Sensitivity (when preamplifier is ON):

SSB, CW, RTTY	Less than 0.15 microvolts (0.1 — 1.6MHz : 1 microvolt) for 10dB S=N/N
AM	Less than 0.5 microvolts (0.1 — 1.6MHz : 3 microvolts)
FM*	Less than 0.3 microvolts for 12dB SINAD (1.6 — 30MHz)

Selectivity:

SSB, CW, RTTY	2.3KHz at -6dB (Adjustable to 500Hz min) 4.2KHz at -60dB
CW-N, RTTY-N	500Hz at -6dB 1.5KHz at -60dB
AM	6KHz at -6dB (Adjustable to 2.7KHz min) 15KHz at -50dB
FM*	15KHz at -6dB 25KHz at -60dB

Spurious Response Rejection Ratio: More than 60dB

Audio Output:

More than 2 watts

Audio Output Impedance:

8 ohms

*When optional FM unit is installed.

OPTIONS

- | | | | |
|------------|------------------------------------|----------|-------------------------------------|
| • IC-CK70 | DC Cable Kit (12V) | • FL-32 | CW Narrow Filter (500Hz/-6dB) |
| • CR-64 | High Stability Crystal | • FL-44A | High-grade SSB Filter (2.4KHz/-6dB) |
| • MB-12 | Mounting Bracket | • FL-63 | CW Narrow Filter (250Hz/-6dB) |
| • IC-EX257 | FM Unit | • IC-HP1 | Headphone |
| • EX-309 | Microprocessor Interface Connector | • RC-11 | Infrared Remote Controller |
| • EX-310 | Voice Synthesizer | | |

