

 ICOM

COMMUNICATIONS RECEIVER

IC-R72



Icom Inc.

A winner with BCLs and

Icom's communications receivers have a reputation for quality worldwide. Building on this reputation with superior receiver circuits in a compact body, the IC-R72 will satisfy SWLs, BCLs, professional listeners and serious DX'ers without fail.



COMMUNICATIONS RECEIVER IC-R72

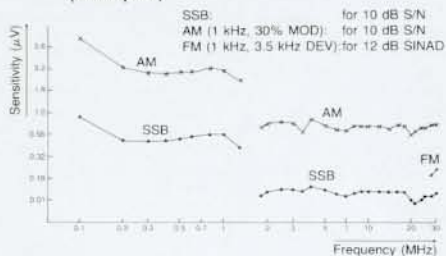
Superb characteristics

High sensitivity

Enjoy listening to many stations including broadcasts, vessels, aircraft, emergency services with AM, SSB, CW and FM* mode in 100 kHz~30 MHz.

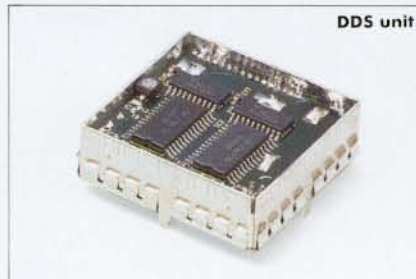
* With an optional UI-8 FM RECEIVE UNIT.

• Sensitivity characteristics example (Preamp on)



Advanced DDS System

The IC-R72 is equipped with Icom's original, state-of-the-art DDS (Direct Digital Synthesizer) System to provide improved C/N (Carrier-to-Noise-Ratio) characteristics. The DDS System gives clear receiving of even the weakest signals. Minimum tuning steps of 10 Hz make SSB and CW tuning smooth.

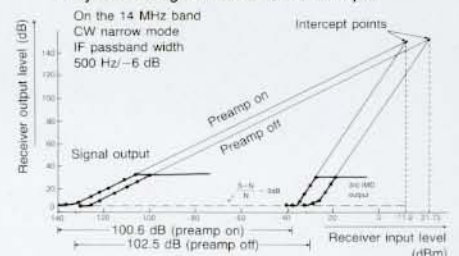


100 dB dynamic range

Consistent high performer. Sophisticated circuits, such as the DFM (Direct Feed Mixer) which has good characteristics for multi-signal cross modulation rejection, ensure excellent results.

Even if many strong stations are on nearby frequencies, the IC-R72 will receive your desired signal.

• Dynamic range characteristics example



SWLs everywhere.

Variety of functions for comfortable receiving

Direct keyboard entry

Easy accessibility gives you convenient programming versatility. Frequency and memory channel selection, clock and timer settings can be performed quickly and easily.

Preamplifier and attenuator

Built-in 10 dB preamplifier provides high sensitivity for receiving weak signals. 10, 20 or 30 dB selectable RF attenuator is installed to reduce excessively strong signals. Never any problems with strong or weak signals.

Level-selectable noise blanker

Troublesome pulse-type noises are eliminated by the built-in noise blanker.

A total of 99 memory channels

Recalling frequencies that you often listen to is easy with 99 memory channels. In addition, the IC-R72 has 2 independent scan edge channels to declare programmed scan frequency range.

Clock with timer functions

Built-in clock

Convenient 24-hour system clock appears on the function display. Clock and timer settings can be performed very easily.



Turns on and off automatically

You'll be sure to catch desired broadcast programs at the right time with the power on timer. For recording, the IC-R72 activates a connected tape recorder with the timer. The sleep timer turns off power at a preset time.

Useful options

Protects against strong input

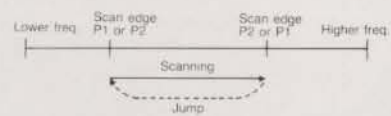
Even if strong signals are transmitted near the antenna, the UR-1 protects against extremely strong inputs.

Multiple-action scan functions

The following scan functions enable you to find desired signals quickly. Scan speed can be selected at 2 levels: fast or slow. In addition, you can choose either the scan resume or scan cancel condition when a signal is received.

• Programmed scan

Searches stations repeatedly within only the specified frequency range.



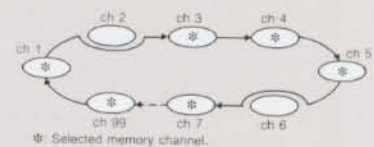
• Memory scan

All programmed memory channels are repeatedly searched in sequence.



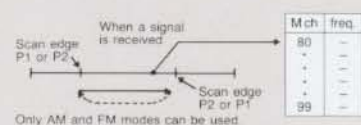
• Selected memory scan

Only specified memory channels are checked.



• Auto memory write scan

In AM or FM mode, the received signal frequencies are automatically written into memory channels 80~99 sequentially.



Add receiving pleasure

By installing the UI-8, you can listen to FM mode. For clear CW receiving on crowded band condition, the FL-100 and FL-101 are available. In addition, the UT-36 announces the receive frequency in English.

FL-100: 500 Hz/−6 dB

FL-101: 250 Hz/−6 dB

Higher frequency stability

±15Hz of frequency stability in −10°C~+60°C; +14°F~+140°F is available with the CR-64.



Other features ensuring convenient operations

- Battery-type assures approx. 1 hour operation even during power failures.
- AC/DC power operation*.
- Programmable 1~10 kHz tuning steps.
- Adjustable function display backlighting.
- Memory transfer function.
- Memory clear function.
- Tuning indicator for easy tuning.
- Dial lock function.
- 1 MHz tuning step.
- Accepts both 50 Ω and 500 Ω antennas.
- CI-V System for computer control.
- Transceiver operation capability with an Icom HF transceiver.

*AC power only for Germany version.

SPECIFICATIONS

● Frequency coverage :	Version	Frequency coverage
	U.S.A., Europe	30 kHz~30 MHz*
	Australia	250 kHz~29.9 MHz
	Germany	150 kHz~26.1 MHz

* Specifications guaranteed 100 kHz~30 MHz.

● Mode :	SSB (A3J), AM (A3), FM (F3), CW (A1) (Optional UI-8 is required for FM mode.)
● Power supply requirement :	117, 220 or 240 V AC or 13.8 V DC \pm 15% (Germany version: 220 V AC only)
● Antenna impedances :	50 Ω (unbalanced) 500 Ω (unbalanced)
● Current drain (at 13.8 V DC) :	Squelched 1.0 A Max. audio output 1.2 A
● Usable temperature range :	-10°C~+60°C (+14°F~+140°F)
● Frequency stability :	Less than \pm 200 Hz (+25°C; +77°F, 1 min.~1 hour after power is ON) Less than \pm 30 Hz (+25°C; +77°F, after 1 hour) Less than \pm 350 Hz (0°C~+50°C; +32°F~+122°F)
● Number of memory channels :	Memory channels 99 Scan edge channels 2
● Dimensions :	241(W) \times 94(H) \times 229(D) mm 9.5(W) \times 3.7(H) \times 9.0(D) in (projections not included)
● Weight :	Normal type 4.8 kg; 10.6 lb Battery type 5.5 kg; 12.1 lb
● Receive system :	SSB, AM, CW Double-conversion superheterodyne FM Triple-conversion superheterodyne

● Intermediate frequencies :		SSB	CW	AM	FM
	1st	70.4515	70.4506	70.4500	70.4500
	2nd	9.0115	9.0106	9.0100	9.0100
	3rd	—	—	—	0.4550

Unit: MHz

● Sensitivity :	0.1~1.8 MHz
SSB, CW	Less than 2.0 μ V for 10 dB S/N
AM	Less than 12.6 μ V for 10 dB S/N
1.8~30 MHz (preamp ON)	
SSB, CW	Less than 0.16 μ V for 10 dB S/N
AM	Less than 2.0 μ V for 10 dB S/N
28~30 MHz (preamp ON)	
FM	Less than 0.5 μ V for 12 dB SINAD
● Squelch sensitivity (threshold) :	SSB Less than 10 μ V FM Less than 0.4 μ V
● Selectivity :	SSB, AM narrow, CW More than 2.3 kHz/-6 dB Less than 4 kHz/-60 dB AM More than 6 kHz/-6 dB Less than 20 kHz/-50 dB FM More than 15 kHz/-6 dB Less than 30 kHz/-50 dB
● Spurious and image rejection :	More than 70 dB
● Audio output power :	More than 2 W at 10% distortion with an 8 Ω load
● Audio output impedance :	8 Ω

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

OPTIONS

Icom offers a wide variety of options to personalize operation.

■ EXTERNAL SPEAKERS AND HEADPHONES

● IC-SP3 EXTERNAL SPEAKER

Provides clearer audio.

Input impedance: 8 Ω Max. input power: 4 W

● SP-7 EXTERNAL SPEAKER

Style and size are matched with the IC-R72.

Input impedance: 8 Ω Max. input power: 5 W

● SP-20 EXTERNAL SPEAKER

High performance speaker with audio filters for greater sound quality.

Input impedance: 8 Ω Max. input power: 5 W

● HP-2 COMMUNICATION HEADPHONES

Provides clear audio in noisy environments.

■ FILTERS

● FL-100, FL-101 CW NARROW FILTERS

Have good shape factor and provide you with better CW receiving on crowded band conditions.

	Center frequency	Passband width
FL-100	9.0106 MHz	500 Hz/-6 dB
FL-101	9.0106 MHz	250 Hz/-6 dB

■ INTERNAL UNITS

● CR-64 HIGH-STABILITY CRYSTAL UNIT

Contains a temperature-compensating oven heater and crystal unit for improved frequency stability.

Frequency stability: \pm 15 Hz (-10°C~+60°C; +14°F~+140°F)

● UI-8 FM RECEIVE UNIT

Adds FM mode capability to the IC-R72.

● UR-1 RECEIVER PROTECTOR UNIT

Protects the IC-R72's receiver front end circuits from extremely strong signal input.

● UT-36 VOICE SYNTHESIZER UNIT

A clear, electronically-generated voice announces the displayed frequency in English or Japanese.

■ CI-V SYSTEM

● CT-17 CI-V LEVEL CONVERTER

Allows you to carry out many control functions such as frequency or memory channel selection from a personal computer equipped with an RS-232C port.

■ BRACKET AND HANDLE

● IC-MB5 MOBILE MOUNTING BRACKET

Communications receiver bracket for mobile operation.

● MB-23 CARRYING HANDLE

For easy portable operation.

■ OTHER OPTIONS

● CP-11 CIGARETTE LIGHTER CABLE WITH NOISE FILTER*

Allows you to use the IC-R72 through a 12 V cigarette lighter socket.

● GC-5 WORLD CLOCK

Gives you worldwide coverage of every time zone.

● OPC-131 DC POWER CABLE*

Allows you to operate the IC-R72 with a 12 V DC power source.

*These options cannot be used with Germany version.

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