COMMUNICATIONS RECEIVERS

SIMPLY THE BEST

Icom Inc.

Discover a world of information and intrigue

COMMUNICATIONS RECEIVER

IC-R8500

0.1–1999.99999MHz coverage*

Various modes for wide range

Various modes are supported for listening to not only amateur bands, FM or TV Broadcast stations, but also marine and avionics. The IC-R8500 covers a wide frequency range continuously from 0.1 to 1999.99999MHz* with 10Hz resolution.

* Guaranteed 0.1–1000MHz and 1240–1300MHz only ; Some versions have restricted coverage.

Superior receive characteristics

The IC-R8500 has superior high receive sensitivity over its entire range and the built-in, high quality crystal (TCXO) provides good frequency stability of less than 100Hz below 30MHz; less than 3ppm above 30MHz. A variable tuning system, which is employed in the front-end tuning circuit, improves multi-signal characteristics, ensuring enhanced receiving performance.

Versatile scanning functions

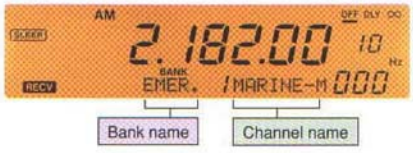
Basic scanning, memory, priority and program scans are available, and for more advanced needs, select scans can also be selected. The VSC (voice scan control) provides efficient scanning by skipping unmodulated signals.

IF shift and APF function

The IF shift function works efficiently to reject interference from nearby signals, especially in SSB mode. The APF adjusts the peak frequency of the received audio, particularly in CW mode.

Ample 1000 memory channels

The IC-R8500 has 800 memory channels divided into 20 banks (40 channels each), plus an auto memory write area of 100 channels and a skip area of the 100 channels. Alphanumeric names can be assigned to the channels (up to 8 characters) and banks (up to 5 characters) for easy recognition. Also, there are 20 scan edge memory channels to store 10 sets of frequencies for programmed scan plus 1 priority channel for priority scan.



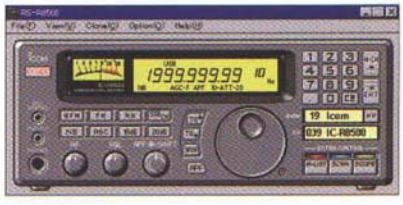
Other outstanding features

- REC and REC remote terminals for tape recorder control and for recording received signals
- SO-239 type and phono (RCA) antenna connectors for HF bands and type-N for VHF/UHF
- S-meter squelch
- Optional UT-102 Voice Synthesizer
- Sleep timer (30, 60, 90, 120 min. selectable)
- Optional TV-R7100 TV/FM ADAPTER to view TV broadcasts
- Noise blanker, RF attenuator, and selectable AGC
- AFC function tunes the receiving frequency to the center of FM or WFM signals
- RS-232C serial interface connector

PC remote control

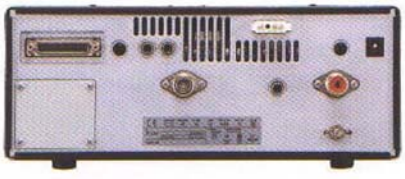
The optional RS-R8500 software allows you to control the IC-R8500 from your PC. All the receiver functions are available from the front panel screen. The memory channel list and program scan list makes it easier to edit the contents, and the bandscope screen provides special function that the IC-R8500 does not have. When you find the busy frequency, clicking on the screen will tune to that frequency.

■ Front Panel Screen



■ Bandscope Screen

Rear view



HF/50MHz coverage and innovative features...

Meets MIL-STD 810

HF+50MHz COMMUNICATIONS RECEIVER

IC-R75

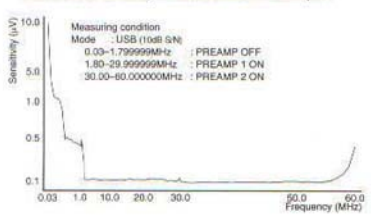
0.03–60MHz coverage*1

High sensitivity receiver circuit

Icom's latest wide band technology provides highly stable receiver sensitivity over the entire receive frequency range: 0.03–60MHz*1. The IC-R75 makes it easy to catch communications world wide.

*1 Guaranteed 0.1–29.99MHz and 50–54MHz only ; Some versions have restricted coverage.

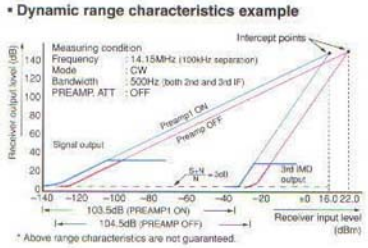
• Receive sensitivity characteristics example



Superior dynamic range

A wide dynamic range of over 100dB, and a well-designed triple conversion system help minimize image and spurious responses for better signal fidelity.

• Dynamic range characteristics example



* Above range characteristics are not guaranteed.

Twin PBT capability

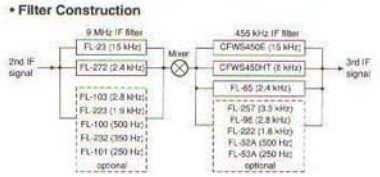
The twin PBT (Passband Tuning) function electronically narrows or moves the IF passband widths at two stages to get away from interference.

Flexible filter selection

Up to two optional filters*2 can be installed, providing flexible band width selection.

*2 One each for 9MHz and 455kHz IF stage.

• Filter Construction



DSP capability

With the optional UT-106 DSP unit installed, you can add a noise reduction function which improves the S/N ratio. And the automatic NOTCH filter automatically cuts beat interference. These Digital functions pull out desired signals from noise, and provide superior receive quality.

Synchronous AM detection

The Synchronous AM detection function mixes a synchronized (same signal) reference signal with the carrier signal. This works to efficiently reduce distortion of the AM carrier signal for improved audio quality.

Simple operation

The function display has a large alphanumeric readout that indicates up to 8-character memory names for easy recognition. Often used keys such as mode switches, filter and Tuning Step have been placed above the Tuning Dial for easy access. Front mounted speaker provides clear and easy listening.

Other features

- Optional PC remote control RS-R75 is available
- Internal clock with ON/OFF, sleep timer
- 20dB attenuator and 2-level preamplifier
- 99 memories and 2 program scan edges with 8-digit memory name
- Selectable AGC (FAST/SLOW/OFF)
- Noise blanker for eliminating pulse type noise
- RTTY/CW reverse mode and CW pitch control
- Various scanning functions
- Adjustable LCD backlighting
- CI-V capability
- RS-232C serial interface connector

Rear view

Bring another world to your computer

Communications receiver screen

Component-type screen

Radio screen

COMMUNICATIONS RECEIVER FOR COMPUTER

IC-PCR1000

0.01–1300MHz coverage*1

3 interface screens to choose

The "Communications receiver screen" shows frequency readout, tuning knob, S-meter, and so on – like a typical communications receiver.
The "Component-type screen" shows all available functions divided into 4 components: "TUNING", "MODE/VOL", "METER/SCAN" and "BANDSCOPE".
The "Radio screen" provides the simplest interface for monitoring most listened to stations such as AM/FM broadcasting and TV.

RS-232C serial connection

The IC-PCR1000 connects to your PC externally – providing diverse compatibility with many computer models, even for laptops. There is no need to open your PC case. Easy to use with both desktop or laptop PC. Installing software is quite easy.

■ System requirements
Operating System: Microsoft® Windows® 95, 3.1
CPU : Intel® i486 DX4 or faster
Hard Disk space: At least 10MB
Memory : At least 16MB
Display : 640×480 pixel resolution or greater

Wide frequency coverage

The IC-PCR1000 covers a wide frequency range from 0.01–1300MHz*1 with WFM, FM, AM, SSB and CW modes.

*1 Guaranteed 0.5–1300MHz only; some frequency ranges are restricted depending on version

Real-time bandscope function

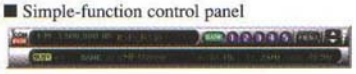
The real-time band scope function makes it easy to find busy frequencies. In addition, clicking the busy signal indicator automatically tune to that frequency immediately. (WFM, FM and AM modes only)

These great features too

- "IF shift" function for reducing interference by electronically shifting the passband
- Noise blanker suppresses pulse-type noise
- The AFC function keeps the center frequency of the tuned station. (FM mode only)
- VSC function detects only modulated signals
- S-meter squelch releases the AF mute, when the receiving signal is stronger than the pre-set S-meter level.
- CTCSS tone squelch decoded
- 20dB of RF attenuator
- 9600bps packet communication receivable, when connected to a TNC.
- DTMF remote control function controls the computer – activates a program, plays a sound (wav) file or displays a message.
- Optional UT-106 DSP UNIT provides noise reduction and auto notch functions.

■ Multi-function control panel

■ Simple-function control panel



- 2 interface screens
- Wide frequency coverage from 0.01 to 1300MHz*2
- AM, FM and TV (audio only)
- Stereo audio outputs when connected to speakers

*2 Guaranteed 0.5–1300MHz only; some frequency ranges are restricted depending on version

■ System requirements
Intel® i486 DX4 or faster CPU
Microsoft® Windows® 95 or 98
Minimum 10 MB of free space on hard drive
Minimum 16 MB of memory
Monitor with at least 640 × 480 pixel resolution

COMMUNICATIONS RECEIVER FOR COMPUTER

IC-PCR100

2-inch TFT color LCD built-in!
See your information on screen!

COMMUNICATIONS RECEIVER

IC-R3

0.495–2450.095MHz coverage*

Meets MIL-STD 810

TV picture receive capability

The IC-R3 can display AM-TV (one of either NTSC or PAL B/G system depending on version) and Amateur TV on its 2-inch color TFT. You can enjoy TV programs at anytime, anywhere. Also the IC-R3 has A/V output, so you can transfer images to a TV monitor or video recorder. You can use the IC-R3 to monitor indoors or outdoors where security is an issue.

Super wide frequency coverage

The Icom's wide band technology realizes the super wide coverage of 0.495 to 2450MHz*.

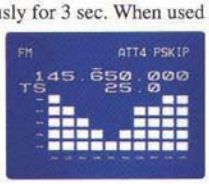
* Some versions have restricted coverage.

Dual LCD

The color LCD has various display settings, such as simple screen, multi-function screen, bandscope and so on. 8 Background colors are selectable at your preference. The color LCD can be turned off and the sub LCD shows frequency settings for saving battery consumption, when a TV picture is not received.

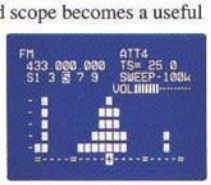
Signal strength level indicator

This function measures signal strength levels every 0.3 sec. continuously for 3 sec. When used with the directional antenna, this function helps search for signal origin, such as fox-hunting, concealed mic. and so on.



Band scope function

Spectral activity can be seen on the TFT color display. The simple band scope becomes a useful tool for finding new or interfering signals. With the 5 Selectable bandwidths, adjustable to 500kHz, will give a quick snapshot of activity.



Lithium-Ion battery standard

The BP-206, Lithium-Ion battery comes as standard for longer battery life. In addition, the attached BP-206 can be charged simultaneously, while 5.5-6.3V DC (more than 1A) is supplied. 3 Alkaline or Ni-Cd batteries are also available for temporary operation.

	TV reception color LCD	Rated output backlight OFF	Power save
BP-206	1 hr. 45 min.	2 hrs. 10min.	25hrs. 30min.
Alkaline batteries	45min.	57min.	27hrs. 30min.
Ni-Cd batteries	50min.	60min.	12hrs. 50min.

Excellent memory capability

450 memory channels are available that store operating frequency, mode and tuning step, etc. Up to 6 character memory names can be assigned for each memory channel, allowing quick and easy channel selection. The memory channels are divided into 9 banks, 8 banks of 50 (for individual frequencies) and 1 bank of 50 (for frequency ranges) for simple memory management. In addition, 10 memory channels are available for storing AM-TV frequencies.

Multi function 'joy-stick' switch

A 4-way action 'joy-stick switch gives you quick and easy access to many settings, including band selection, AF volume, LCD settings and more.

These excellent features

- Tone squelch functions with pocket beep
- One-touch, semi-duplex frequency monitoring capability
- Automatic squelch
- Various scan types such as program, band, bank, frequency skip and more
- Priority watch function
- 4-step RF attenuator reduces extremely strong interference
- One-touch, offset monitoring capability

A 'world' of listening that fits in your palm!

COMMUNICATIONS RECEIVER

IC-R2

0.495–1309.995MHz coverage*1

Compact, drip-resistant construction

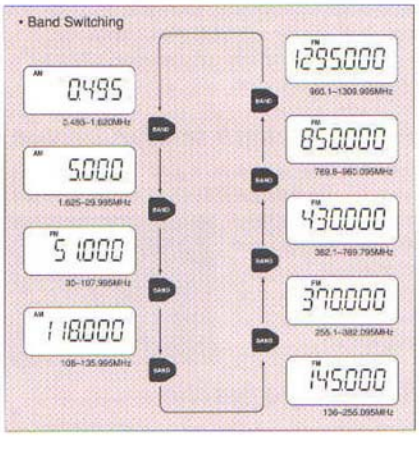
Measuring only 58(W)×86(H)×27(D)mm*2 and weighing just 170g , the IC-R2 easily fits in your palm or shirt pocket. Also, drip-resistant and durable construction that equivalent to JIS water-resistant specification grade 2 and MIL-STD, provides greater protection for outdoor operation.

*2 2 9/32×3 3/8×1 1/16 in. ; 6oz

Simple operation with band switch function

Covers a 0.495-1309.995MHz*1 wide frequency range on FM, WFM and AM modes, divided into 9 operating bands. The BAND switch allows you quick access to the operating band, such as Broadcast bands, HF bands, 144MHz and so on. The last used frequency is recalled when the operating band is changed – its like having 9 VFOs available. This system provides for simple operation!

*1 Some versions have restricted coverage.



Large internal speaker

The IC-R2 has a large 36mm (D)/ 1 13/32 in. built-in speaker in this compact body. This delivers loud and crystal clear audio, even in noisy environments.

Ample 400 memory channels

400 memory channels can be stored and separated into 8 banks (50 channels for each bank) for easy memory channel management. Tuning step, offset frequency setting, tone frequencies and skip setting are included in each memory.

Auto power save and auto power-off function

The Auto power save function reduces the current drain and saves battery consumption. The Power-off time is selectable from 30, 60, 90 or 120 min.

Auto squelch

An automatic squelch (self-adjusting) system eliminates critical squelch threshold settings when receiving weak signals.

Multiple scan functions

There are 6 types of scanning functions that includes full scan, band scan, programmed scan, memory scan, memory bank scan, frequency skip function, memory skip function. 50 scan edges are available for programmed scanning.

More outstanding features...

- Offset monitor capability for semi-duplex operation monitoring repeater communication
- Requires only 2 AA (R6), Ni-Cd or alkaline cells
- Built-in 10dB attenuator
- Optional PC programming capability
- Receiver-to-receiver data cloning (optional OPC-474 required)
- Tone squelch function with pocket beep
- LCD backlight with timer
- Priority watch function with beep alert
- Channel indication
- Simple up/down keys for AF level control
- Low-battery indicator and beep
- Optional antenna connector adapter available (SMA to BNC)

Tune in to the world wherever you go...

COMMUNICATIONS RECEIVER

IC-R10

0.5–1300MHz coverage*1

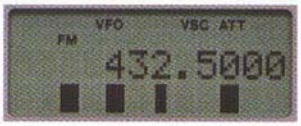
Wide-band receive capability

The IC-R10 covers a wide frequency range from 0.5MHz to 1300MHz*1 with FM, WFM, AM, USB, LSB, CW modes.

*1 Some versions have restricted coverage.

Real-time bandscope

The real-time bandscope function gives you visual band conditions around the set frequency in FM mode for early finding an appearing station. The detection range of the bandscope is selectable from the range of ±100kHz (20kHz channel spacing) and ±25kHz (5kHz channel spacing).



VSC function

The VSC (Voice Scan Control) function pauses a scan only when modulated signals such as voice, or tone are received. This function skips unmodulated signals such as beat or pulse, and provides smooth scanning.

Total 1000 memory channels with memory name

50 memory channels with up to 8 character channel names can be stored in each of the 16 banks, with up to 10 character bank names. So a total of 800 channels can be stored as normal memory channels. 100 memory channels are provided for auto-memory write bank and program skip bank, respectively. In addition, the memory search function allows you to access a specified memory channel from the first one or two characters of a channel name.

Versatile Scanning

6 types of scanning operation provides smooth and rapid detection of busy frequencies.

- Full scan searches the full frequency range in the selected mode and tuning step.
- Memory scan searches all memory channels
- Program scan searches over a specified frequency range.
- Auto-memory write scan searches for a specified frequency range and stores busy frequencies into the auto-memory write bank.
- Bank scan searches for all stored frequencies in a specified memory bank
- Mode select scan searches all stored frequencies that have the specified receive mode.

SIGNAVI function

The SIGNAVI function provides scanning acceleration in FM mode. When scanning is paused at a busy frequency while in full, auto memory write or program scan, the SIGNAVI searches for the next busy frequency within ±100kHz*2 in advance. And when scan resumes again, it jumps to the next busy signal automatically.

*2 According to the tuning step setting
:max. acceptable tuning step is 20kHz.

Other superior features...

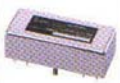
- Programmable from a PC as well as receiver to receiver cloning capability (optional CS-R10 + OPC-478 or OPC-474 is required)
- User-programmable TS (between 0.1 and 999.9kHz in 0.1kHz steps)
- Auto mode and TS for simplified operation
- Easy mode function provides simplified scanning operation
- CI-V compatibility (optional CT-17 required)
- Priority watch checks for signals on the priority frequency, while in using another frequency
- Noise blanker removes pulse-type noise in SSB or CW mode.
- ANL (Auto Noise Limiter) function reduces noise components in AM mode.
- AFC (Auto Frequency Control) function tunes the frequency to the center, when a received frequency is off-center in FM mode.
- Built-in 20dB attenuator
- Rechargeable Ni-Cd batteries and wall charger is supplied for standard

OPTIONS FOR BASE RECEIVERS

	AC ADAPTER	EXTERNAL SPEAKERS			DC POWER CABLE	MOBILE BRACKETS		CARRYING HANDLE	CI-V CONVERTER
MODEL NAME	AD-55/A/V	SP-7	SP-20	SP-21	OPC-023	IC-MB5	IC-MB12	MB-23	CT-17
									
IC-R8500	✔	✔	✔	✔	✔		✔	✔	✔
IC-R75	✔	✔	✔	✔		✔		✔	✔
IC-PCR1000									

	REMOTE CONTROL SOFTWARES		EXTERNAL ANTENNAS		TV/FM ADAPTER	HIGH STABILITY CRYSTAL UNITS		VOICE SYNTHESIZER	DSP UNIT
MODEL NAME	RS-R75	RS-R8500	AH-7000	AH-710	TV-R7100	CR-282	CR-293	UT-102	UT-106
									
IC-R8500		✔	✔ (VHF/UHF bands only)	✔ (HF band only)	✔		✔	✔	
IC-R75	✔			✔ (HF band only)		✔		✔	✔
IC-PCR1000									✔

	9MHz FILTERS								
MODEL NAME	FL-100 CW/RTTY narrow; 500Hz/–6dB	FL-101 CW narrow; 250Hz/–6dB	FL-103 SSB wide; 2.8kHz/–6dB	FL-223 SSB narrow; 1.9kHz/–6dB	FL-232 CW/RTTY narrow; 350Hz/–6dB				
									
IC-R8500									
IC-R75	✔ (One of these 9MHz filters)	✔ (One of these 9MHz filters)	✔ (One of these 9MHz filters)	✔ (One of these 9MHz filters)	✔ (One of these 9MHz filters)				
IC-PCR1000									

	455kHz FILTERS								
MODEL NAME	FL-52A CW/RTTY narrow; 500Hz/–6dB	FL-53A CW narrow; 250Hz/–6dB	FL-96 SSB wide; 2.8kHz/–6dB	FL-222 SSB narrow; 1.8kHz/–6dB	FL-257 SSB wide; 3.3kHz/–6dB				
									
IC-R8500	✔								
IC-R75	✔ (One of these 455kHz filters)	✔ (One of these 455kHz filters)	✔ (One of these 455kHz filters)	✔ (One of these 455kHz filters)	✔ (One of these 455kHz filters)				
IC-PCR1000									

✔ : Applicable : Not applicable

OPTIONS FOR HANDHELD RECEIVERS

	BATTERY ASSEMBLY	CHARGERS			EARPHONE	HEADPHONE	CIGARETTE LIGHTER CABLES		POWER CABLE
MODEL NAME	**BP-206** 3.7V/1650mAh (Li-Ion) 	**BC-127A/D** Ni-Cd CHARGER Includes 2 Ni-Cd cells. 	**BC-135** DESKTOP CHARGER 	**BC-136A/D** WALL CHARGER 	**SP-13** 	**HP-4** 	**CP-12/L** 	**CP-18A/E** 	**OPC-254/L** 
IC-R3	✔		✔	✔	✔	✔		✔	
IC-R2		✔			✔	✔			
IC-R10					✔	✔	✔		✔

	CARRYING CASES			CLONING CABLES		CLONING SOFTWARES			CI-V CONVERTER
MODEL NAME	**LC-140** 	**LC-146** 	**LC-151** 	**OPC-474** Receiver-to-receiver	**OPC-478** Receiver to PC	**CS-R3**	**CS-R2**	**CS-R10**	**CT-17** 
IC-R3			✔	✔	✔	✔			
IC-R2		✔		✔	✔		✔		
IC-R10	✔			✔	✔			✔	✔

	ANTENNA	ANTENNA ADAPTER							
MODEL NAME	**FA-B02RE** 	**AD-92SMA** 							
IC-R3									
IC-R2		✔							
IC-R10	✔								

✔ : Applicable : Not applicable

SPECIFICATIONS

		IC-R8500	IC-R75	IC-PCR1000	IC-PCR100
General	Frequency coverage	U.S.A. version: 0.1–823.99999MHz 849.00001–868.99999MHz 894.00001–1999.99999MHz* Europe version: 0.1–1999.99999MHz* *Specifications guaranteed 0.1–1000MHz and 1240–1300MHz	0.03–60MHz* *Specifications guaranteed 0.1–29.99MHz and 50–54MHz	U.S.A. version: 0.01–823.999999MHz 849.000001–868.999999MHz 894.000001–1300MHz* Europe version: 0.01–1300MHz* *Specifications guaranteed 0.5–1300MHz	U.S.A. version: 0.01–823.999MHz 849.001–868.999MHz 894.001–1300MHz* Europe version: 0.01–1300MHz* *Specifications guaranteed 0.5–1300MHz
	Modes	USB, LSB, AM, AM-N, AM-W, CW, FM, FM-N, WFM	USB, LSB, CW, RTTY, AM, S-AM, FM	USB, LSB, CW, AM, FM, WFM	AM, FM, WFM
	Frequency stability	±100Hz (below 30MHz) ±3ppm (above 30MHz)	±7ppm (1 hr. after power ON; +25°C)	±3ppm (at 1300MHz: ±0°C to +50°C)	±5ppm (at 1300MHz: ±0°C to +50°C)
	Max. current drain	2.0A at 13.8V DC	1.1A at 13.8V DC	0.7A at 13.8V DC	0.7A at 13.8V DC
	Power supply requirement	13.8V DC ±15% or 117, 220, 240V AC with AD-55	13.8V DC ±15% or 117, 220, 240V AC with AD-55	13.8V DC ±15% or 117, 220, 240V AC with BC-123/BM-104	13.8V DC ±15% or 117, 220, 240V AC with BC-123/BM-104
	Antenna connector	SO-239 (50Ω) and Phono (RCA: 500Ω) for below 30MHz and Type-N (50Ω) for above 30MHz	SO-239 (50Ω), 500Ω terminals	BNC (50Ω)	BNC (50Ω)
	Number of (memory) channels	1021 (including 20 scan edges, 1priority)	101 (including 2 scan edges)	Unlimited (1000 Ch/file)	Unlimited (1000 Ch/file)
	Dimensions (W)×(H)×(D) projections are not included	287×112×309mm ; 11 5/16×4 13/32×12 5/32in	241×94×229mm; 9 1/2×3 1/16×9 1/32in	127.5×30×199mm; 5×1 3/16×7 27/32in	131×33.5×154.5mm; 5 5/32×1 5/16×6 3/32in
	Weight (approx.)	7kg; 15lb 7oz	3.0kg; 6lb 10oz	1kg; 2lb 3oz	500g; 1lb 2oz
Receiver	Sensitivity SSB, CW, RTTY, AM: for 10dB S/N FM, WFM: for 12dB SINAD	SSB, CW: 0.1–0.5MHz 1.0μV 0.5–1.8MHz 2.0μV 1.8–2.0MHz 0.25μV 2.0–30MHz 0.2μV 30–1000MHz 0.32μV 1240–1300MHz 0.32μV AM: 0.1–0.5MHz 6.3μV 0.5–1.8MHz 13μV 1.8–2.0MHz 3.2μV 2.0–1000MHz 2.5μV 1240–1300MHz 2.5μV AM-N: 1.8–2.0MHz 2.5μV 2.0–1000MHz 2.0μV 1240–1300MHz 2.0μV AM-W: 30–1000MHz 3.2μV 1240–1300MHz 3.2μV FM: 28–1000MHz 0.5μV 1240–1300MHz 0.5μV WFM: 30–1000MHz 1.4μV 1240–1300MHz 2.0μV	SSB, CW, RTTY: 0.1–1.8MHz*1 2.0μV 1.8–29.99MHz*2 0.16μV 50–54MHz*3 0.13μV AM, S-AM: 0.1–1.8MHz*1 5.6μV 1.8–29.99MHz*2 1.6μV 50–54MHz*3 1.0μV FM: 28–29.99MHz*2 0.22μV 50–54MHz*3 0.2μV *1 Preamp OFF *2 Preamp1 ON *3 Preamp2 ON	SSB, CW: 0.5–1.8MHz 0.56μV 1.8–30MHz 0.28μV 30–50MHz 0.35μV 50–700MHz 0.2μV 700–1300MHz 0.25μV AM: 0.5–1.8MHz 2.5μV 1.8–30MHz 1.4μV 30–50MHz 1.8μV 50–700MHz 1.0μV 700–1300MHz 1.3μV FM: 28–50MHz 0.5μV 50–700MHz 0.32μV 700–1300MHz 0.4μV WFM: 50–700MHz 0.79μV 700–1300MHz 1.0μV	AM: 0.5–1.8MHz 2.5μV 1.8–50MHz 1.8μV 50–700MHz 1.0μV 700–1300MHz 1.3μV FM: 28–50MHz 0.5μV 50–700MHz 0.32μV 700–1300MHz 0.4μV WFM: 50–700MHz 0.79μV 700–1300MHz 1.0μV
	Selectivity	SSB, CW, AM-N: 2.2kHz/–6dB AM, FM-N: 5.5kHz/–6dB AM-W, FM: 12kHz/–6dB WFM: 150kHz/–6dB	SSB, CW, RTTY: 2.1kHz/–6dB 4kHz/–60dB AM, S-AM: 6kHz/–6dB 20kHz/–50dB FM: 12kHz/–6dB 30kHz/–50dB	SSB, CW, AM: 2.8kHz/–6dB AM, FM, SSB, CW: 6kHz/–6dB AM, FM: 15kHz/–6dB AM, FM, WFM: 50kHz/–6dB WFM: 230kHz/–6dB	FM, AM: 6kHz/–6dB 15kHz/–6dB AM, FM, WFM: 50kHz/–6dB WFM: 230kHz/–6dB
	Spurious and image rejection (except IF)	60dB (1.8–30MHz) 50dB typical (above 30MHz)	70dB (Except IF through/ 50MHz band)	Not specified	Not specified
	AF power at 10% distortion	2W with an 8Ω load	2W with an 8Ω load	200mW with an 8Ω load	200mW with an 8Ω load
	Ext. speaker connector	2-conductor 3.5 (d) mm (1/8")/4–8Ω	2-conductor 3.5 (d) mm (1/8")/8Ω	3-conductor 3.5 (d) mm (1/8")/4–8Ω	3-conductor 3.5 (d) mm (1/8")/4–8Ω

Meets MIL-STD 810

Applicable U.S. Military Specifications

Icom makes rugged products that meet MIL-STD requirements and strict environmental standards for shock (MIL-810C, D, E) and vibration (MIL-810C, D, E). Look for this logo to determine which models meet these requirements.

SPECIFICATIONS

		IC-R3	IC-R2	IC-R10	
General	Frequency coverage	U.S.A. version: 0.495–815.995MHz 902–2450.095MHz Europe version: 0.495–2450.095MHz	U.S.A. version: 0.495–823.995MHz 849.0–868.995MHz 894.0–1309.995MHz Europe version: 0.495–1309.995MHz	U.S.A. version: 0.5–823.9999MHz 849.0001–868.9999MHz 894.0001–1300MHz Europe version: 0.5–1300 MHz	
	Modes	AM, AM-TV*1, FM, WFM, FM-TV*2	FM, WFM, AM	FM, WFM, AM, USB, LSB, CW	
	Frequency stability	±6ppm (–10°C to +50°C)	±6ppm (–10°C to +60°C)	Not specified	
	Max. current drain	730mA typ. (color LCD ON) at TV reception with 4.5V DC	170mA typ. at rated audio output with 3.0V DC	180mA typ. at rated audio output with 13.5V DC	
	Power supply requirement	3.6–6.3V DC	3.0V DC (2×AA (R6) Ni-Cd or Alkaline cells)	4.8V DC (4 AA (R6) Ni-Cd cells) or 4.8–16V DC	
	Antenna connector	BNC (50Ω)	SMA (50Ω)	BNC (50Ω)	
	Number of (memory) channels	450 (including 50 scan edges)	450 (including 50 scan edges)	1000	
	Dimensions (W)×(H)×(D) projections are not included	61×120×32.9mm; 2 13/32×4 23/32×1 9/32in	58×86×27mm; 2 9/32×3 3/8×1 1/16in	58.5×130×31.3mm; 2 5/16×5 1/8×1 7/32in	
	Weight (approx.)	300g; 10.6oz (with antenna and battery)	170g; 6oz	310g; 10.9oz	
Receiver	Sensitivity SSB, CW, RTTY, AM: For 10dB S/N FM, WFM: For 12dB SINAD	AM: 0.495–5MHz 1.4µV 5–29.955MHz 1.0µV 118–136MHz 0.79µV 222–329.995MHz 1.0µV FM: 1.625–5MHz 0.32µV 5–470MHz 0.25µV 470–800MHz 0.45µV 800–2000MHz 0.56µV 2000–2300MHz 1.0µV 2300–2450.095MHz 1.8µV WFM: 76–107.995MHz 1.0µV 175–222MHz 1.0µV 470–770MHz 1.8µV	AM: 0.495–5MHz 1.3µV 5.005–30MHz 0.79µV 118–136MHz 0.63µV 222–247MHz 0.63µV 247–329.995MHz 0.71µV FM: 1.625–5 MHz 0.4µV 5.005–29.995MHz 0.25µV 30–117.995MHz 0.2µV 118–174.995MHz 0.18µV 175–329.995MHz 0.22µV 330–429.995MHz 0.25µV 430–450MHz 0.22µV 450.005–469.995MHz 0.25µV 470–999.995MHz 0.28µV 1000–1309.995MHz 0.45µV WFM: 76–108MHz 0.71µV 175–221.995MHz 0.71µV 470–770MHz 1.0µV	SSB, CW: 0.5–5 MHz 0.4µV 5–200 MHz 0.25µV 200–340 MHz 0.4µV 340–700 MHz 0.32µV 700–800 MHz 0.63µV 800–1300 MHz 0.4µV AM: 0.5–5 MHz 1.6µV 5–200 MHz 1.0µV 200–340 MHz 1.6µV 340–700 MHz 1.4µV 700–800 MHz 2.0µV 800–1300 MHz 1.6µV FM: 0.5–5 MHz 0.5µV 5–200 MHz 0.32µV 200–340 MHz 0.45µV 340–700 MHz 0.35µV 700–800 MHz 0.79µV 800–1300 MHz 0.5µV WFM: 75–200 MHz 1.0µV 200–340 MHz 2.2µV 340–700 MHz 1.3µV 700–800 MHz 2.0µV 800–900 MHz 1.6µV	
	Selectivity	AM, FM: 12kHz/–6dB 30kHz/–50dB WFM: 150kHz/–6dB	AM, FM: 15kHz/–6dB 30kHz/–60dB WFM: 150kHz/–6dB	SSB, CW: 4kHz/–6dB AM, FM: 15kHz/–6dB WFM: 150kHz/–6dB	
	Spurious and image rejection (except IF)	Not specified	Not specified	Not specified	
	AF power at 10% distortion	100mW with an 8Ω load	100mW with an 8Ω load	120mW with an 8Ω load	
	Ext. speaker connector	3-conductor 3.5 (d) mm (1/8")/8Ω	3-conductor 3.5 (d) mm (1/8")/8Ω	3-conductor 3.5 (d) mm (1/8")/8Ω	

*1 One of either NTSC M, PAL B or PAL G systems
*2 For 900–1300 and 2250–2450MHz ranges only; not available in some versions

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