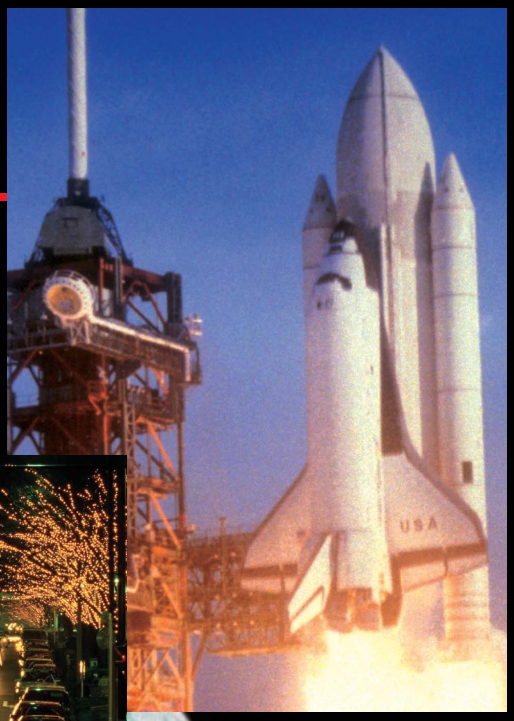
ICOM

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 not only to 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

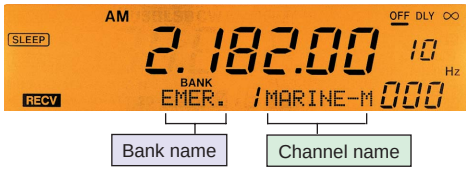
Basic scanning, memory, priority and program scans are available, and for more advanced needs, select scans can also be selected. The VSC (voice scan control) provides efficient scanning by skipping unmodulated signals.

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.



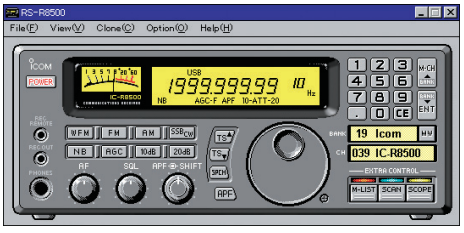
Other outstanding features

- 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

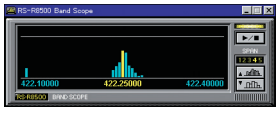
PC remote control

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 a special function that the IC-R8500 does not have. When you find a 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

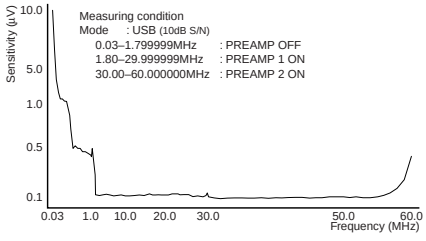
0.03–60MHz coverage*1

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.

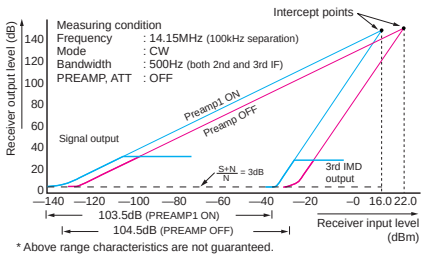
• Receive sensitivity characteristics example



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

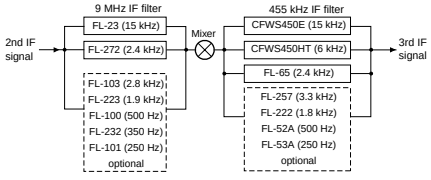
The twin PBT (Passband Tuning) function electronically narrows or moves the IF passband widths at two stages to get away from interference.

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

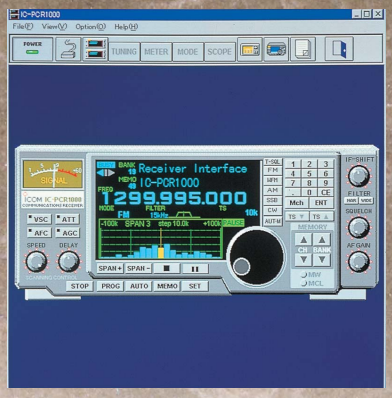
The function display has a large alphanumeric readout that indicates up to 8-character memory names for easy recognition. Often used keys such as mode switches, filter and Tuning Step have been placed above the Tuning Dial for easy access. The front mounted speaker provides clear and easy listening.

Other features

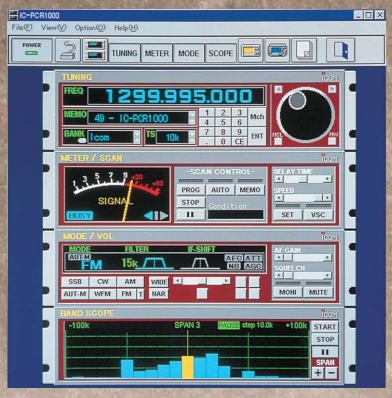
- Optional PC remote control RS-R75 is available
- Internal clock with ON/OFF, sleep timer
- 20dB attenuator and 2-level preamplifier
- 99 memories and 2 program scan edges with 8-digit memory name
- Selectable AGC (FAST/SLOW/OFF)
- Noise blanker for eliminating pulse type noise
- RTTY/CW reverse mode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

Rear view

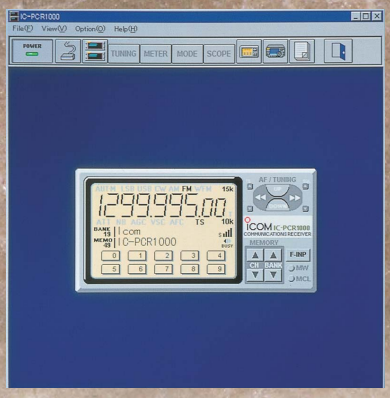
Bring another world to your computer



Communications receiver screen



Component-type screen



Radio screen

COMMUNICATIONS RECEIVER FOR COMPUTER

IC–PCR1000

0.1–1300MHz 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 easy.

■ System requirements
Operating System: Microsoft® Windows® 98/98SE, Windows® Me, Windows® 2000, Windows® XP
Hard Disk space: At least 10MB of free space
Serial Port : An RS-232C (38400 bps or faster)
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

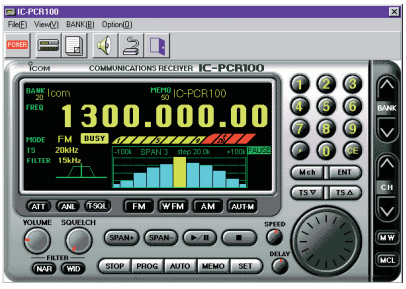
Real-time bandscope function

The real-time band scope function makes it easy to find busy frequencies. In addition, clicking the busy signal indicator automatically tunes 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 Windows® 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

Scan, Monitor, Record
The Pro's Scanner!

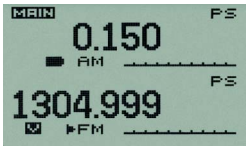
COMMUNICATIONS RECEIVER

IC-R20

0.150–3304.999MHz coverage*1

2 for 1, Dualwatch receive

Until the IC-R20, the capability of monitoring two frequencies required two radios. Whether you need to monitor local public safety, air traffic control, or at the track listening to two drivers, even the play by play from both the local TV and radio station is possible!

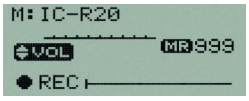


Shortwave to microwave, Wideband coverage

The IC-R20 covers 150kHz to 3304.999MHz*1 in SSB, CW, AM, FM and WFM modes. When receiving in dualwatch, the combination of channels is limited to 150kHz to 469.999MHz (VFO A) and 118MHz to 174.999MHz or 330MHz to 1304.999MHz in AM, FM, WFM modes (VFO B).
(*1 Depending on version, U.S.A. version is cellular blocked.)

4-hour digital recorder

The IC-R20 has an internal 32MB, digital recorder, capable of storing received communications. This feature is useful in a variety ways, like recording a wireless microphone audio at a meeting. There is also a USB port to download to a computer for storage or to forward to a friend. (PC playback not possible)



Alphanumeric memory channel

With 1,000 regular memory channels, 200 automatic memory scan channels and 25 pairs of frequency scan edges, the IC-R20 makes it easy to identify received signals with the capability of programming a name to each channel.

CTCSS, DTCS tone signaling

When multiple users share the same channel, these users use specialized signaling to reduce interference from other users. The two popular signaling formats, CTCSS and DTCS are standard in the IC-R20.

*11 hours of continuous receive**2*

Icom's energy efficient design allows the IC-R20 11*2 hours of continuous reception from the internal Li-Ion battery pack. Also, the IC-R20 can operate with 3 AA Alkaline cells, or longer operation as well as charging the internal battery pack is possible from either an optional cigarette lighter cable or the supplied AC adapter.
(*2 Single receive in FM mode, at Max. AF audio.)

See your signals

Sometimes hearing a signal is not enough, so the IC-R20 includes a band scope. The bandscope enables you to see signals around a monitored frequency. An additional function of the bandscope is the ability to hear the signal while sweeping a range, so you can see if the signal is modulated.

Scan features

The IC-R20 is Icom's fastest receiver with 100*3 channels per second scanning speed. You can tag memory channels into dynamic banks, ranging from Max. 100 channels per bank (Max. 26 banks) as well as link multiple banks for customized memory bank scanning. Additionally, the IC-R20 offers multiple scanning controls such as scan delay, scan resume for received signal notification. (*3 In VFO mode.)

Other superior features...

- VSC (Voice Squelch Control) opens the squelch only when a modulated signal is detected.
- Offset monitor capability
- Auto squelch and squelch monitor capability
- Built-in attenuator and RF gain control
- Noise blanker, ANL (Auto Noise Limiter), AF filter
- AFC (Auto Frequency Control) function
- PC remote control capability with optional CT-17
- Built-in ferrite bar antenna for AM broadcast
- FM earphone cord antenna capability
- Dial speed up function
- Auto power off and power save functions
- Reversible rotary selector and up/down buttons
- Weather channel* (* U.S.A. version only)
- Preprogrammed TV and shortwave channels

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

COMMUNICATIONS RECEIVER

IC-R3

0.495–2450.095MHz coverage*

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*.

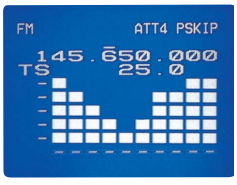
* Some versions have restricted coverage.

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.

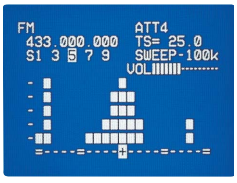
Signal strength level indicator

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. 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. The attached BP-206 can be charged simultaneously while being used with the supplied AC adapter, BC-153A/D* or the optional cigarette lighter cable, CP-18A/E.

* Not supplied for some versions.

	TV reception color LCD	Rated AF 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-R5

0.150–1309.995MHz coverage*[1]

Meets MIL-STD 810

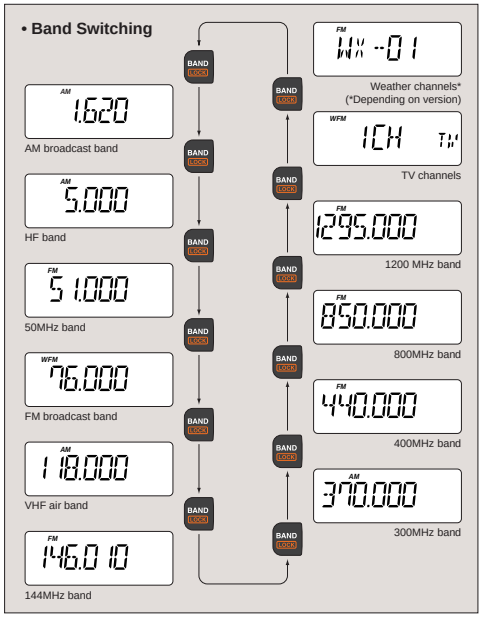
Listen almost anywhere to almost anything

The IC-R5’s combination of small size, powerful specifications and outstanding features put you in the action, whether listening in on your favorite driver’s car-to-pit radio calls while at the race track, looking for something new while traveling, or catching your favorite radio programs at home.

Wideband receiver with band switch function

A 0.150-1309.995MHz*[1] wide frequency coverage means virtually anything from AM broadcast to UHF TV audio is fair listening game. Every TV broadcast channel is preprogrammed into this radio.*[2] Listen to AM & FM radio stations, utility communications, and more. The band switch allows you quick access to the operating band. The last used frequency is recalled when the operating band is changed – its like having 12 VFOs*[1] available. This system provides for simple operation!

*[1] Some versions have restricted coverage.
*[2] Depending on version.



1250 Alphanumeric memory channels

Make up your own channel names for each of up to 1250 memory channels, and channel recognition is easy! The IC-R5’s LCD display lets you use numbers, letters or a combination of both when naming channels and banks. Icom’s exclusive Dynamic Memory Scan (DMS) gives you the flexibiliy to customize and manage the IC-R5’s memory banks the way you want or need.

Convenient power and charging

Power on the go is easy, thanks to the IC-R5’s ability to operate from a variety of power sources. You may: power the radio via the DC port; or use two “AA” size rechargeable Ni-Cd batteries: or use long storage life “AA” alkalines. A DC jack allows for simultaneous battery charging while operating the radio.

Computer programmable

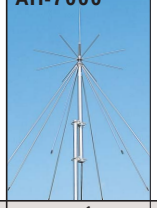
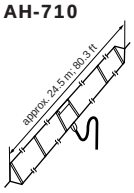
With the optional software and cable, IC-R5 programming and cloning are a breeze. Hook your IC-R5 up to a PC and you’re ready to customize channel names, scan lists, and more.

More outstanding features...

- Built-in ferrite bar antenna for AM broadcast
- FM earphone cord antenna capability
- DTCS and CTCSS tone squelch function
- Offset monitor capability for semi-duplex operation monitoring
- Auto squelch and squelch monitor capability
- Built-in attenuator
- Low-battery indicator and beep
- 30–120 minutes auto power off timer
- LCD backlight with timer
- Auto memory write scan stores the detected frequency, mode and tone into a specified memory
- Priority watch function with beep alert
- Optional antenna connector adapter available (SMA to BNC)
- 100 preprogrammed worldwide shortwave channels*
- Weather channels with weather alert function* (* U.S.A. version only)

OPTIONS FOR BASE RECEIVERS

	AC ADAPTER	EXTERNAL SPEAKERS				DC POWER CABLE	MOBILE BRACKETS		CARRYING HANDLE
MODEL NAME	AD-55/A/V	SP-7	SP-20	SP-21	SP-23	OPC-023	IC-MB5	MB-12	MB-23
									
IC-R8500	✔	✔	✔	✔	✔	✔		✔	✔
IC-R75	✔	✔	✔	✔	✔		✔		✔
IC-PCR1000									

	REMOTE CONTROL SOFTWARE		EXTERNAL ANTENNAS		CI-V CONVERTER	HIGH STABILITY CRYSTAL UNITS		VOICE SYNTHESIZER	DSP UNIT
MODEL NAME	RS-R75	RS-R8500	AH-7000	AH-710	CT-17	CR-282 ±0.5ppm	CR-293 ±0.5ppm	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-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)					
IC-PCR1000									

✔ : Applicable [ ] : Not applicable

OPTIONS FOR HANDHELD RECEIVERS

	BATTERY ASSEMBLY	CHARGERS					CIGARETTE LIGHTER CABLE		
MODEL NAME	**BP-206** 3.7V/1650mAh (Li-Ion) 	**BC-135** DESKTOP CHARGER 	**BC-136A/D** WALL CHARGER 	**BC-149A/D** WALL CHARGER 6V DC, 1A output 	**BC-153A/D** WALL CHARGER 6V DC, 1A output 	**BC-156** DESKTOP CHARGER 	**CP-18A/E** 		
IC-R20	✔			✔		✔	✔		
IC-R3	✔	✔	✔		✔		✔		
IC-R5				✔			✔		

	CARRYING CASES			CLONING CABLES			CLONING SOFTWARE		
MODEL NAME	**LC-146A** 	**LC-151** 	**LC-158** 	**OPC-474** Receiver-to-receiver 	**OPC-478** Receiver to PC RS-232C cable	**OPC-478U** Receiver to PC USB cable 	**CS-R3**	**CS-R5**	**CS-R20** With USB cable 
IC-R20			✔						✔
IC-R3		✔		✔	✔		✔		
IC-R5	✔			✔	✔	✔		✔	

	ANTENNA ADAPTER	EARPHONE	HEADPHONE	CI-V CONVERTER					
MODEL NAME	**AD-92SMA** BNC to SMA 	**SP-13** 	**HP-4** 	**CT-17** 					
IC-R20		✔		✔					
IC-R3		✔	✔						
IC-R5	✔	✔	✔						

✔ : 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* *Guaranteed range 0.1–1000MHz and 1240–1300MHz	0.03–60MHz* *Guaranteed range 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* *Guaranteed range 0.5–1300MHz	U.S.A. version: 0.01–823.999MHz 849.001–868.999MHz 894.001–1300MHz* Europe version: 0.01–1300MHz* *Guaranteed range 0.5–1300MHz
	Modes	USB, LSB, AM, AM-N, AM-W, CW, CW-N*, FM, FM-N, WFM *Optional CW narrow filter required	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 11/16×9 1/32in	127.5×30×199mm; 5 1/32×1 3/16×7 27/32in	131×33.5×154.5mm; 5 5/32×1 5/16×6 3/32in
	Weight (approx.)	7kg; 15.4lb	3.0kg; 6.6lb	1kg; 2.2lb	500g; 1.1lb
Receiver	Sensitivity SSB, CW, RTTY, AM: at 10dB S/N FM, WFM: at 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-R20	IC-R3	IC-R5	
General	Frequency coverage	U.S.A. version: 0.150–1304.999MHz* 1305.000–3304.999MHz * Cellular blocked. Europe version: 0.150–1304.999MHz 1305.000–3304.999MHz	U.S.A. version: 0.495–815.995MHz 902.000—2450.095MHz Europe version: 0.495–2450.095MHz	U.S.A. version: 0.150–1309.995MHz* * Cellular blocked Europe version: 0.150–1309.995MHz	
	Modes	FM, WFM, AM, USB, LSB, CW	AM, AM-TV*2, FM, WFM, FM-TV*3	FM, WFM, AM	
	Frequency stability	±6ppm (–10˚C to +60˚C)	±6ppm (–10˚C to +50˚C)	±6ppm (–10˚C to +60˚C)	
	Current drain	150mA typ. at rated audio output with 3.7V DC*1	730mA typ. (color LCD ON) at TV reception with 4.5V DC	170mA typ. at rated audio output with 3.0V DC	
	Battery pack or cells	BP-206, 3×AA (R6) Alkaline cells	BP-206, 3×AA (R6) Alkaline cells	2×AA (R6) Alkaline cells	
	External power supply requirement	6.0V DC (with BC-149A/D or CP-18A/E)	3.6–6.3V DC (with BC-153A/D or CP-18A/E)	6.0V DC (with BC-149A/D or CP-18A/E)	
	Antenna connector	BNC (50Ω)	BNC (50Ω)	SMA (50Ω)	
	Number of memory channels	1250 (including 50 scan edges and 200 auto memory write)	450 (including 50 scan edges)	1250 (including 50 scan edges and 200 auto memory write)	
	Dimensions (W)×(H)×(D) projections are not included	60×142×34.8mm; 2 3/8×5 19/32×1 3/8in	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	
	Weight (approx.)	320g; 11.3oz (with antenna and battery)	300g; 10.6oz (with antenna and battery)	185g; 6.5oz (with antenna and cells)	
Receiver	Sensitivity SSB, CW, RTTY, AM: at 10dB S/N FM, WFM: at 12dB SINAD	SSB, CW: 0.495–4.999MHz 0.4µV 5–29.999MHz 0.25µV 50–53.999MHz 0.25µV 118–146.999MHz 0.25µV 330–469.999MHz 0.32µV AM: 0.495–4.999MHz 2.2µV 5–29.999MHz 1.4µV 118–135.999MHz 1.4µV FM: 1.620–4.999MHz 0.56µV 5–221.999MHz 0.4µV 330–832.999MHz 0.56µV 833–1304.999MHz 0.71µV 1330–2304.999MHz 5.6µV 2330–2999.999MHz 18µV WFM: 76–108MHz 1.8µV 175–221.999MHz 1.8µV 470–769.999MHz 2.5µV	AM (typical): 0.495–5MHz 1.4µV 5–29.955MHz 1.0µV 118–136MHz 0.79µV 222–329.995MHz 1.0µV FM (typical): 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 (typical): 76–107.995MHz 1.0µV 175–222MHz 1.0µV 470–770MHz 1.8µV	AM (typical) : 0.495–4.995MHz 1.3µV 5–29.995MHz 0.71µV 118–136MHz 0.56µV 222–246.995MHz 0.56µV 247–329.995MHz 0.71µV FM (typical) : 1.625–4.995MHz 0.32µV 5–117.995MHz 0.2µV 118–246.995MHz 0.18µV 247–329.995MHz 0.2µV 330–469.995MHz 0.18µV 470–999.995MHz 0.28µV 1000–1309.995MHz 0.35µV WFM (typical) : 76–108MHz 0.89µV 175–221.995MHz 0.71µV 470–770MHz 1.0µV	
	Selectivity	SSB, CW: 1.8kHz/–6dB AM, FM: 12kHz/–6dB 30kHz/–60dB WFM: 150kHz/–6dB	AM, FM: 12kHz/–6dB 30kHz/–50dB WFM: 150kHz/–6dB	AM, FM: 15kHz/–9dB 30kHz/–60dB WFM: 150kHz/–6dB	
	AF power at 10% distortion	100mW with an 8Ω load	100mW with an 8Ω load	100mW (typ.) 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 Single receive, IC recorder OFF.
*2 One of either NTSC M, PAL B or PAL G systems
*3 For 900–1300 and 2250–2450MHz ranges only; not available in some versions
* The LCD display of the IC-R3 may have cosmetic imperfections that appear as small or dark spots.
This is not a malfunction or defect, but a normal characteristic of LCD displays.

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