ICOM

COMMUNICATIONS RECEIVERS

SIMPLY THE BEST

Icom Inc.

Professional communications receiver with high performance spectrum scope

PROFESSIONAL COMMUNICATIONS RECEIVER
0.005 – 3335MHz coverage*1

IC-R9500

With optional UT-122

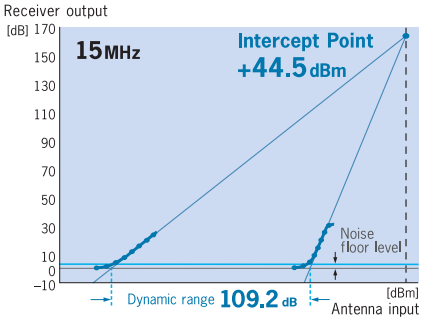
Wideband coverage

The IC-R9500 covers 0.005–3335MHz*1 in SSB, AM, FM, WFM, CW, FSK and P25*2 modes. It is suitable for a wide variety of radio monitoring and listening activities.

*1 Frequency range differs depending on version.
*2 Optional UT-122 digital unit is required.

Superb receiver performance

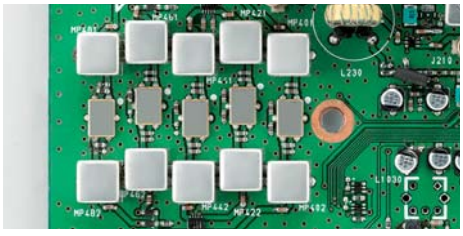
The IC-R9500 achieves its amazing performance by using a D-MOS FET array in the 1st mixer (below 30MHz) and an excellent IMD roofing filter. The IC-R9500 has +40dBm IP3 and 109dB dynamic range at 14.1MHz. IP3 performance is +9.8dBm at 50MHz and +6.2dBm at 620MHz (+5dBm (typical) from 30MHz to 3335MHz).



Five roofing filters

The IC-R9500 has 5 independent roofing filters (240, 50, 15, 6 and 3kHz) for improved selectivity. In very crowded RF spectrum conditions, it is extremely important to prevent overload from strong signals. The 3kHz roofing filter provides a 130dB (approx.)* blocking dynamic range.

* At 15MHz reception, with 5kHz signal separation.



±0.05ppm high frequency stability

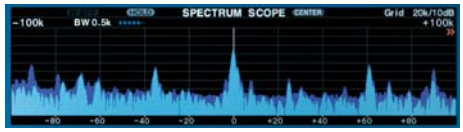
The IC-R9500 uses an OCXO (Oven Control Crystal Oscillator) unit which provides ±0.05ppm frequency stability from 0°C to 50°C. The 10MHz reference frequency can either be supplied to or input from external equipment.

Multi function spectrum scope

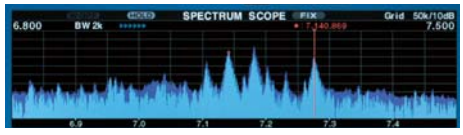
Using a dedicated DSP unit improves the dynamic range of the spectrum scope. The IC-R9500 has four different display modes such as normal/wide and center/fixed width. The spectrum scope normally covers a range from ±2.5kHz to ±5MHz, while the wide band spectrum scope* observes up to ±500MHz (±10MHz, ±25MHz, ±50MHz, ±100MHz ±250MHz and ±500MHz selectable). When using the normal spectrum scope mode, the digital scope's filter width can vary from 200Hz to 20kHz with a variable sweep speed.

The peak search function automatically moves the display marker to the strongest signal on the scope screen. In addition to these features, the scope has 3 levels of attenuation (10dB, 20dB, 30dB).

* While using the wide band scope function, AF output is muted.



Example of spectrum scope centered on the receiving frequency.



Example of fixed spectrum scope range.

7-inch wide color TFT LCD

The large 7-inch wide (800 × 480 pixels) active matrix display delivers quick response time, high resolution and has a wide viewing angle. The multi-function spectrum scope is displayed in vivid color. The background color is selectable from black or blue for your preference. In addition, the IC-R9500 has a VGA connector allowing you to connect an external monitor.

Multiple RSSI

S-meter, dBμ, dBμ (emf) and dBm meter types are selectable in the IC-R9500. The dBμ, dBμ (emf) and dBm meter have ±3dB of accuracy*.

(* 10 to 70dBμ signal from 100kHz to 3335MHz at 25°C)

Digital voice recorder

The IC-R9500 has two types of digital voice recorders. One is the regular recorder, recording for long periods in "WAV" format to the built-in CF memory or an external USB memory. The sampling rate is variable from 8kHz (SQ1) to 48kHz (SHQ). In SQ1 mode, up to 130 minutes (approx.) of recorded audio can be stored into the CF memory. The other recorder is the short term voice recorder that saves the previous 15 seconds of radio audio into RAM, allowing you to play back the audio instantly.

Dual DSP

The IC-R9500 incorporates two independent, 32-bit floating point DSP units, a dedicated DSP unit for receiver functions and another for the spectrum scope. By using the power of two independent DSP units, the radio can respond to operator changes in an instant.

Other outstanding features

[Receive assist functions]

- Digital IF filter • Digital twin PBT
- Noise blanker • Noise reduction
- Notch filter • Synchronous AM detection
- FSK demodulator and decoder
- 10 VFOs • 1220 memory channels
- Multiple-scan functions
- Voice synthesizer • USB connector
- SSB/CW/AM mode auto tuning function
- AFC function compensates for frequency shifts (FM/WFM mode only) • CW-R (reverse) mode • Preamp and attenuator • 1/4 tuning step function and dial click function • APF (Audio Peak Filter) • AGC (Automatic Gain Control) • VSC (Voice Squelch Control) • Input overload protection (HF bands only) • Optional P25 digital mode reception • CI-V interface and RS-232C for PC remote control • Analog TV tuner (NTSC/PAL/SECAM)*1 • 4 antenna connectors: an SO-239, a phono (RCA) connector and two type-N connectors • S/P DIF output jack • Video input/output*1 • Clock function • IF output jack (10.7MHz) • CTCSS and DTCS tone squelch • Simplified frequency calibration using WWV or WWVH

*1 TV tuner and video output are not available in the USA version except for export or to authorized government users. Contact Icom America for details.

Discover a world of information and intrigue

COMMUNICATIONS RECEIVER
0.1 – 1999.99999MHz coverage*

IC–R8500

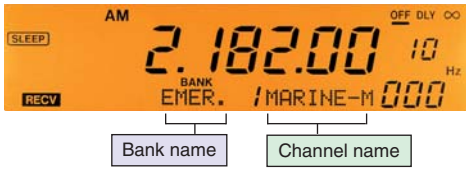
Various modes for wide range Rx

The IC-R8500 covers a wide frequency range — continuously from 0.1 to 1999.99999MHz* with 10Hz resolution. The IC-R8500's all mode capability allows you to receive signals in many different modes, from the world over. SSB (USB, LSB), CW, AM, FM and WFM are included, and, several 'specialty' modes, CW narrow,* AM wide, AM narrow and FM narrow are available to receive a variety of signals that require a matched passband width.

* Guaranteed 0.1–1000MHz and 1240–1300MHz only ; Cellular bands are blocked in the USA version.

Ample 1000 memory channels

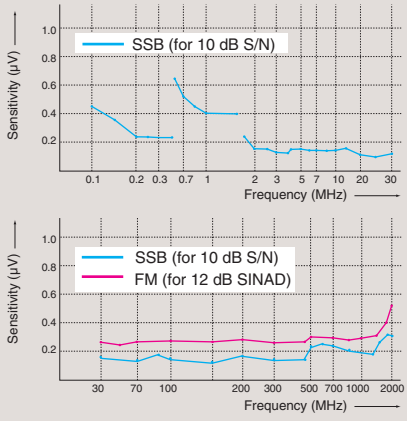
The IC-R8500 has 800 memory channels divided into 20 banks (40 channels each), plus an auto memory write area of 100 channels and a skip area of 100 channels. Each memory channel can store a frequency, mode (including passband width) and tuning step, etc. Alphanumeric names can be assigned to the channels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



Superior receive characteristics

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

• Sensitivity characteristics
(values are typical and not guaranteed)



IF shift and APF function

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

Versatile scanning functions

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

Other outstanding features

- REC and REC-Remote terminals for 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
- Sleep timer (30, 60, 90, 120 min. selectable)
- 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

* For sale in the US to qualifying agencies or export only.

Icom's fastest scanning wideband portable receiver

COMMUNICATIONS RECEIVER
0.100 – 1309.995MHz coverage*1

IC–R6

Rugged MIL-STD 810

100kHz–1309.995MHz* wideband coverage

While the IC-R6 receives an ultra wideband frequency range, the radio provides superior sensitivity and receiver characteristics that is insusceptible to interference. Amateur stations, AM, FM, short wave broadcasts, TV audio* and a variety of utility communications can be caught and listened to.

* Frequency range depends on version. Analog TV audio only. Cannot decode digital TV audio.

100 Ch/Sec. high speed scan

The IC-R6 has 100 channels per second high speed scan capability*. This superior scanning power allows the utmost efficiency when searching over 1300MHz of spectrum!

* VFO mode scanning.

15 hours of continuous receive capability*

The IC-R6 is energy-efficient, designed to provide many hours of listening enjoyment on a single charge. With the supplied rechargeable Ni-MH cells (1400mAh ×2), the IC-R6 provides up to 15 hours of continuous receive capability*.

* At 50mW output using external speaker.

1300 memory channels with 22 memory banks

With 1300 alphanumeric memory channels, 50 scan edges and 200 auto write memories, the IC-R6 gives you flexible scanning. Use the bank link scan feature to choose from and connect any of the 22 memory banks.

Multiple power choices

The IC-R6 can be powered by rechargeable Ni-MH cells, or with alkaline batteries. Run the IC-R6 using the AC adapter, BC-196SA/SD, or opt for a cigarette lighter cable, CP-18A/E. When used the optional drop-in charger stand BC-194 and the AC adapter or cigarette lighter cable, you can easily start charging the Ni-MH cells, while on the move.

CI-V remote control capability

When used with the optional CT-17 CI-V remote controller, the IC-R6 can be controlled from a PC. You can change frequencies, mode, volume level, etc,.

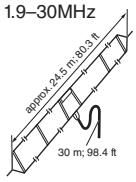
VSC (Voice Squelch Control)

The VSC opens the squelch only when a modulated signal is detected and ignores unmodulated beat noise. It is a handy feature for those listeners who are scanning for talk, news and music, but not data bursts or beacons.

More outstanding features...

- Built-in audio low pass filter
- ±1.0ppm high frequency stability (at 25˚C)
- Earphone cord antenna for AM aviation as well as FM broadcast
- Ferrite bar antenna for AM broadcast
- 150mW loud audio with internal speaker
- DTCS and CTCSS tone squelch and reverse tone squelch
- Priority watch function with priority beep
- PC programmable with optional CS-R6
- Receiver-to-receiver cloning (optional OPC-474 required)
- Auto power OFF (0.5–2 hours and end of busy signal)
- Compact, drip-resistant construction
- Duplex operation monitoring
- Automatic LCD backlight
- Dial speed acceleration
- Built-in RF attenuator
- Auto memory write scan stores the detected frequency, mode and tone into a specified memory
- Reversible up/down buttons and dial knob for volume, frequency, memory channel, scan direction and set mode settings
- Weather channel receive with weather alert (USA version only)

OPTIONS FOR BASE RECEIVERS

	AC ADAPTER	EXTERNAL SPEAKERS			EXTERNAL ANTENNAS		CARRYING HANDLE	HIGH STABILITY CRYSTAL UNITS	
MODEL NAME	**AD-55S**[*1]	**SP-21**	**SP-23**	**SP-34**	**AH-8000** 100–3335MHz	**AH-710** 1.9–30MHz	**MB-23**	**CR-282** ±0.5ppm	**CR-293** ±0.5ppm
									
IC-R9500				✔	✔				
IC-R8500	✔	✔	✔		✔	✔	✔		✔
IC-R75	✔	✔	✔			✔	✔	✔	

[*1] AD-55S USA version and Europe version available.

	CI-V CONVERTER	DSP UNIT	P25 DIGITAL UNIT	DC POWER CABLE
MODEL NAME	**CT-17**	**UT-106**	**UT-122**	**OPC-023D**
				
IC-R9500	✔		✔	
IC-R8500	✔			✔
IC-R75	✔	✔		

	9MHz FILTERS					455kHz 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	**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-R9500									
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)	✔ (One of these 455kHz filters)	✔ (One of these 455kHz filters)	✔ (One of these 455kHz filters)	✔ (One of these 455kHz filters)

* Some options may not be available in some countries. Please ask your dealer for details.

✔ : Applicable : Not applicable

OPTIONS FOR HANDHELD RECEIVERS

	BATTERY ASSEMBLY	CHARGERS		AC ADAPTER	CHARGER STAND	CIGARETTE LIGHTER CABLES		CARRYING CASES	
MODEL NAME	**BP-206** (Li-Ion) 3.7V/1920mAh (min.), 2100mAh (typ.) 	**BC-153SA/SE** WALL CHARGER 	**BC-156**[*5] RAPID CHARGER 	**BC-196SA/SD**[*6] 	**BC-194** 	**CP-18A/E** 	**CP-23L** 	**LC-146A** 	**LC-158** 
IC-R20	✔	✔	✔			✔	✔ (Use with BC-156)		✔
IC-R6				✔	✔ (Use with BC-196 or CP-18)	✔		✔	

[*5] BC-156 USA/Europe versions available.
[*6] BC-196SA/SD for exclusive use with the IC-R6 and BC-194 only.

	CLONING CABLES			CLONING SOFTWARE		ANTENNA ADAPTER	EARPHONES		CI-V CONVERTER
MODEL NAME	**OPC-474** Receiver-to-receiver 	**OPC-478** Receiver to PC RS-232C cable	**OPC-478UC** Receiver to PC USB cable 	**CS-R6**	**CS-R20** With USB cable 	**AD-92SMA** BNC to SMA 	**SP-13** 	**SP-27** Tube earphone 	**CT-17** 
IC-R20					✔		✔	✔	✔
IC-R6	✔	✔	✔	✔		✔	✔	✔	✔

* Some options may not be available in some countries. Please ask your dealer for details.

✔ : Applicable ☐ : Not applicable

Rugged MIL-STD 810

Applicable U.S. Military Specifications
Icom makes rugged products that have been tested to and passed the MIL-STD requirements and strict environmental standards for shock (MIL-810C, D, E or F) and vibration (MIL-810C, D, E or F).
Look for this logo to determine which models meet these requirements.

SPECIFICATIONS FOR BASE RECEIVERS

		IC-R9500	IC-R8500	IC-R75
General	**Frequency coverage** (Differs according to version)	0.005–3335.000000MHz*1	0.1–1999.99999MHz Guaranteed range 0.1–1000, 1240–1300MHz	30kHz–60MHz Guaranteed range 0.1–29.99 and 50–54MHz
	Mode	USB, LSB, CW, FSK, AM, FM, WFM, P25* TV*2 (NTSC M, PAL B/G, PAL I, PAL D and SECAM K) * Optional UT-122 required.	USB, LSB, AM, AM-N, AM-W, CW, CW-N*, FM, FM-N, WFM * Optional CW narrow filter required.	USB, LSB, CW, RTTY, AM, FM
	Frequency stability	±0.05ppm (25˚C; after 5 min. warm up)	±100Hz (below 30MHz) ±3ppm (above 30MHz)	±7ppm (25˚C; from 1 min. to 60 min. after power ON)
	Maximum current drain	100VA (Power consumption)	2.0A at 13.8V DC	1.1A at 13.8V DC
	Power supply requirement	100, 120, 230, 240V AC	13.8V DC 15% or 117, 220, 240V AC with AD-55S	13.8V DC 15% or 117, 220, 240V AC with AD-55S
	Antenna connector	SO-239 (50Ω for HF) Phono (RCA: 500Ω for HF) Type-N × 2*3 (50Ω)	SO-239 (50Ω for HF) Phono (RCA: 500Ω for HF) Type-N (50Ω for above 30MHz)	SO-239 (50Ω) 500Ω terminals
	Number of memory channels	1220 (including 100 auto memory write, 100 memory scan skip and 20 scan edges)	1021 (including 20 scan edges, 1 priority)	101 (including 2 scan edges)
	Dimensions (W×H×D; Projections are not included)	424×149×340 mm; 16.69×5.87×13.39 in	287×112×309 mm; 11.3×4.41×12.17 in	241×94×229 mm; 9.49×3.7×9.02 in
	Weight (approx.)	20kg; 44.1lb	7.0kg; 15.4lb	3.0kg; 6.6lb
Receiver	**Sensitivity** (typical) SSB, CW, RTTY, AM: at 10dB S/N FM, WFM: at 12dB SINAD	SSB, CW, FSK (BW=2.4kHz): 0.1–1.799MHz 0.5µV (Preamp1 ON) 1.8–29.999MHz 0.2µV (Preamp1 ON) 30–2999.999MHz 0.32µV (Preamp ON) 3000–3335MHz 1.0µV (Preamp ON) AM (6.0kHz): 0.1–1.799MHz 6.3µV (Preamp1 ON) 1.8–29.999MHz 2.5µV (Preamp1 ON) 30–2999.999MHz 3.5µV (Preamp ON) 3000–3335MHz 11µV (Preamp ON) FM (15kHz): 28–29.999MHz 0.5µV (Preamp1 ON) 30–2999.999MHz 0.5µV (Preamp ON) 3000–3335MHz 1.6µV (Preamp ON) FM50k (50kHz) : 28–29.999MHz 0.71µV (Preamp1 ON) 30–2999.999MHz 0.71µV (Preamp ON) 3000–3335MHz 2.2µV (Preamp ON) WFM (180kHz): 30–2999.999MHz 1.4µV (Preamp ON) 3000–3335MHz 4.5µV (Preamp ON)	SSB, CW, RTTY: 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 2.0µV (Preamp OFF) 1.8–29.99MHz 0.16µV (Preamp1 ON) 50–54MHz 0.13µV (Preamp2 ON) AM: 0.1–1.8MHz 5.6µV (Preamp OFF) 1.8–29.99MHz 1.6µV (Preamp1 ON) 50–54MHz 1.0µV (Preamp2 ON) FM: 28–29.99MHz 0.22µV (Preamp1 ON) 50–54MHz 0.2µV (Preamp2 ON)
	Selectivity	SSB, FSK: 2.4kHz/–3dB (BW=2.4kHz*) 3.6kHz/–60dB CW (500Hz): 500Hz/–3dB 700Hz/–60dB AM (6kHz): 6.0kHz/–3dB 15.0kHz/–60dB FM (15kHz): 12kHz/–3dB 25kHz/–60dB WFM: 180kHz/–6dB *variable between 50Hz and 3.6kHz	SSB, AM-N, RTTY: 2.2kHz/–6dB AM, FM-N: 5.5kHz/–6dB AM-W, FM: 12kHz/–6dB WFM: 150kHz/–6dB	SSB, CW, RTTY: 2.1kHz/–6dB 4.0kHz/–60dB AM: 6.0kHz/–6dB 20kHz/–50dB FM: 12kHz/–6dB 30kHz/–50dB
	Spurious and image rejection	More than 70dB (0.1–30MHz) More than 50dB (30–2500MHz) More than 40dB (2500–3000MHz)	More than 60dB (1.8–30MHz) 50dB typical (above 30MHz)	More than 70dB (Except IF point and 50MHz band)
	AF power (at 10% distortion)	2.6W with an 8Ω load	2.0W with an 8Ω load	2.0W with an 8Ω load
	External speaker connector	2-conductor 3.5 (d) mm (⅛˝)/8Ω	2-conductor 3.5 (d) mm (⅛˝)/4–8Ω	2-conductor 3.5 (d) mm (⅛˝)/8Ω

*1 USA version: 0.005–821.999, 851–866.999, 896–3335MHz. *2 TV tuner is not available in the USA version except for export or to authorized government users. *3 One each for 30–1149.999MHz, 1150–3335MHz

* The LCD display 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.

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

If re-exporting the **IC-R9500**, it is your responsibility to check you are in compliance with the export regulations of your country or the country you are exporting to.
Export regulations can be highly restrictive in relation to some of the technology implemented in this product.
Your failure to comply with export regulations may subject you to fines or penalties. Please consult with the relevant Government Department in your country.

SPECIFICATIONS FOR MOBILE AND HANDHELD RECEIVERS

		IC-R20	IC-R6
General	**Frequency coverage** (Differs according to version)	0.150–1304.999, 1305–3304.999MHz*1 (VFO A): 0.150–469.999MHz (VFO B): 118–174.999, 330–1304.999MHz	0.100–1309.995MHz*2
	Mode	FM, WFM, AM, USB*, LSB*, CW* * 0.150–469.999MHz only.	FM, WFM, AM
	Frequency stability	±6ppm (–10˚C to +60˚C; +14˚F to +140˚F)	±1.0ppm (at 25˚C; +77˚F) ±2.5ppm (–10˚C to +60˚C; +14˚F to +140˚F on the basis of 25˚C; +77˚F)
	Current drain	Rated audio output*3 : 150mA typ. (at 3.7V DC)	Rated audio output*4 : 130mA typ. (at 3.0V DC)
	Battery pack or cells	BP-206, 3 × LR6 (AA) alkaline cells	2 × R6 (AA) size Ni-MH or alkaline cells
	Power supply requirement	6.0V DC (with BC-153 or CP-18A/E)	4.5V DC (with BC-196SA/SD or CP-18A/E)
	Antenna connector	BNC (50Ω)	SMA (50Ω)
	Number of memory channels	1000 memory channels, 200 auto write memory channels, and 50 scan edges	1300 memory channels, 200 auto write memory channels and 50 scan edges
	Dimensions (W×H×D; Projections are not included)	60×142×34.8 mm; 2.36×5.59×1.37 in	58×86×29.8 mm; 2.2×3.39×1.17 in
	Weight (approx.)	320g; 11.3oz (With antenna and BP-206)	200g; 7.1oz (With antenna and battery cells)
Receiver	**Sensitivity** (less than, except spurious points)	FM (at 12dB SINAD): 1.620–4.999MHz 0.56µV; 5.000–221.999MHz 0.4µV; 330–832.999MHz 0.56µV; 833–1304.999MHz 0.71µV; 1330–2304.999MHz 5.6µV; 2330–2999.999MHz 18µV WFM (at 12dB SINAD): 76–108.000MHz 1.8µV; 175–221.999MHz 1.8µV; 470–769.999MHz 2.5µV AM (at 10dB S/N): 0.495–4.999MHz 2.2µV; 5.000–29.999MHz 1.4µV; 118–135.999MHz 1.4µV SSB, CW (at 10dB S/N): 0.495–4.999MHz 0.4µV; 5.000–29.999MHz 0.25µV; 50–53.999MHz 0.25µV; 118–146.999MHz 0.25µV; 330–469.999MHz 0.32µV	FM (typical at 12dB SINAD): 1.625–4.995MHz 0.32µV; 5.000–29.995MHz 0.25µV; 30–117.995MHz 0.18µV; 118–246.995MHz 0.18µV; 247–469.995MHz 0.18µV; 470–832.995MHz 0.32µV; 833–1029.995MHz 0.28µV; 1030–1309.995MHz 0.35µV WFM (typical at 12dB SINAD): 76–108.000MHz 1.1µV; 175–221.995MHz 1.1µV; 470–770.000MHz 1.8µV AM (typical at 10dB S/N): 0.495–4.995MHz 1.3µV; 5.000–29.995MHz 0.89µV; 118–136.000MHz 0.63µV; 222–246.995MHz 0.63µV; 247–329.995MHz 0.79µV
	Selectivity	AM, FM: 12kHz/–6dB, 30kHz/–60dB WFM: 150kHz/–6dB SSB, CW: 1.8kHz/–6dB	AM, FM: 12kHz/–9dB, 30kHz/–60dB WFM: 150kHz/–6dB
	AF power (at 10% distortion)	100mW typ. with an 8Ω load	150mW with a 16Ω load (Int. SP) 80mW typ. with an 8Ω load (Ext. SP)
	External speaker connector	2-conductor 3.5 (d) mm (⅛˝)/8Ω	2-conductor 3.5 (d) mm (⅛˝)/8Ω

*1 USA version : 0.150–821.999, 851–866.999, 896–1304.999, 1305–3304.999MHz. *2 USA version : 0.100–823.995, 851–866.995, 896–1309.995MHz.
*3 Single receive mode, IC recorder OFF *4 External SP, backlight OFF.

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

FUNCTIONS COMPARISON CHART

Model Name	IC-R9500	IC-R8500	IC-R75	IC-R20	IC-R6
Frequency coverage*1 Low band edge	5kHz	100kHz	30kHz	150kHz	100kHz
HF	✔	✔	✔	✔	✔
50MHz	✔	✔	✔	✔	✔
144MHz	✔	✔	–	✔	✔
430/440MHz	✔	✔	–	✔	✔
800MHz*1	✔	✔	–	✔	✔
1200MHz	✔	✔	–	✔	✔
2400MHz	✔	–	–	✔	–
High band edge	3335.000MHz	1999.999MHz	60.000MHz	3304.999MHz	1309.995MHz
FM, AM, WFM	✔	✔	✔	✔	✔
SSB, CW	✔	✔	✔	✔	–
S-AM	✔	–	–	–	–
P25	✔ (With UT-122)	–	–	–	–
Analog TV (Image)	✔*3	–	–	–	–
Memory channels	1220	1021	101	1250	1550
Memory banks	13	20	–	26	22
10-key pad	✔	✔	✔	✔	–
Pass band tuning	✔	IF shift	✔	–	–
Minimum tuning step	1Hz	10Hz	1Hz	10Hz	5kHz
8.33 tuning step	–	–	–	✔	✔
Dualwatch	–	–	–	✔	–
Band scope	✔	–	–	✔	–
Recorder	✔	–	–	✔	–
PC cloning	–	–	–	CS-R20	CS-R6
USB connector	✔	–	–	✔	–
CI-V connection	CT-17	CT-17	CT-17	CT-17	CT-17
Auto frequency control	✔	✔	–	✔	–
Auto notch	✔	–	✔ (With UT-106)	–	–
Noise blanker	✔	✔	✔	✔	–
Noise reduction	✔	–	✔ (With UT-106)	–	–
Voice squelch control	✔	✔	–	✔	✔
DSP	✔ (IF DSP)	–	UT-106	–	–
Optional filter	(DSP filter)	✔	✔	–	–
Tone squelch	✔	–	–	✔	✔
DTCS squelch	✔	–	–	✔	✔
Weather alert	–	–	–	✔	✔
AM bar antenna	–	–	–	✔	✔
FM earphone antenna	–	–	–	✔	✔
Scan speed (Max.)*2	50 ch/sec.	40 ch/sec.	20 ch/sec.	100 ch/sec.	100 ch/sec.

***1 Frequency range shows working range. Some frequency ranges are not guaranteed. Cellular bands are blocked in the USA version.**
***2 Scan speed differs depending on operating conditions. *3 Depending on version.**

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