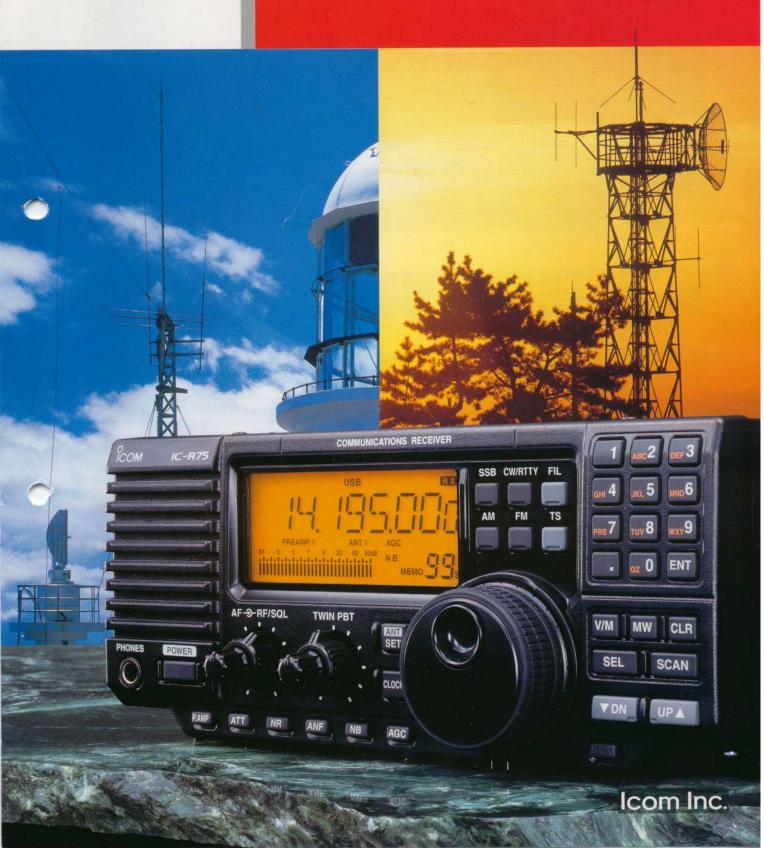
COM

IC-R75





WIDE FREQUENCY COVERAGE AND

Expanded frequency coverage

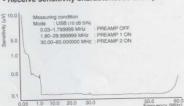
The IC-R75 covers a frequency range that's wider than other HF receivers; 0.03–60.000000 MHz*. This wide frequency coverage allows you to listen to a variety of communications including marine communications, amateur radio, short wave radio broadcasts and more.

*Guaranteed 0.1-29.99 MHz and 50-54 MHz only

High stability receiver circuit

Icom's latest wide band technology provides highly stable receive sensitivity over the entire receive frequency range. The IC-R75 makes it easy to catch communications world wide.

· Receive sensitivity characteristics example

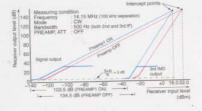


Superior dynamic range

A wide dynamic range of more than 100 dB*1, 104.5 dB*2 for 14 MHz band, 102.5 dB*2 for 50 MHz band, and a well-designed triple conversion system help min-

imize image and spurious responses for better signal fidelity.

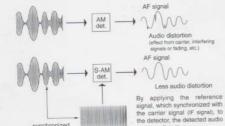
- *1 Not guaranteed.
- *2 Not guaranteed; When PREAMP OFF; CW narrow 500 Hz bandwidth; 100 kHz channel spacing
- · Dynamic range characteristics example



Synchronous AM detection

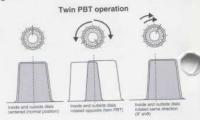
Synchronous AM detection (or S-AM) prevents audio distortion while receiving AM broadcasts, etc. This provides high quality AM receive as an additional mode.

Difference between AM and S-AM detection



Twin PBT capability

The PBT (passband tuning) function narrows and moves the IF passband at two stages to efficiently eliminate interfering signals.



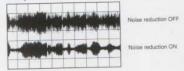
DSP capabilities

DSP (Digital Signal Processor) filtering in the AF stage is available with the optional UT-106 DSP UNIT. The DSP provides the following functions:

Noise reduction:

Pulls desired AF signals from noise. Outstanding S/N ratio is achieved, providing clean audio in SSB, AM and FM. Pull weak signals right out of the noise.

Comparison of receive signal speaker output





The IC-R75 covers a wide frequency range from 0.03 to 60 MHz allowing you to listen in to a world of information. With innovative features such as twin passband tuning, synchronous AM detection, DSP capabilities, remote PC control and more—shortwave listening is easier than ever. All this comes in a compact, lightweight package that can be conveniently used in your ham shack, den or vehicle.

HF+50 MHz ALL MODE COMMUNICATIONS RECEIVER

IC-R75

INNOVATIVE FEATURES...

Automatic Notch filter:

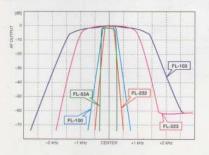
This automatically minimizes beat signals and protects the receive signal. Also, the notch frequency is automatically adjusted to follow interfering beat signals—reducing interference from RTTY signals during SSB operation for example.

Elexible filter selection

to two optional filters* can be installed, providing flexible band width selection and filter combinations.

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

	1st IF 9 MHz stage	2nd IF 455 kHz stage	
SSB	FL-103 (2.8 kHz) FL-223 (1.9 kHz)	FL-96 (2.8 kHz) FL-222 (1.8 kHz) FL-257 (3.3 kHz)	
CW/RTTY	FL-100 (500 Hz) FL-101 (250 Hz) FL-232 (350 Hz)	FL-52A (500 Hz) FL-53A (250 Hz)	



Alphanumeric readout

The function display has an alphanumeric readout that indicates up to 8-character memory names for easy recognition.

Selectable RF gain/squelch control

The RF gain and/or squelch control can be set to the [SQL] control in *set mode* to match your operating preference.

Other outstanding features...

- Compact body
- Digital bar S-meter
- · Front mounted speaker for easy listening
- Internal clock with ON/OFF, sleep timer
- Numeric keypad for direct frequency or memory channel input
- Attenuator
- · 2-level preamp
- Selectable AGC (FAST/SLOW/OFF)
- Noise blanker
- 99 memories plus 2 program scan edges
- Ample scanning functions available and more...



Optional PC remote control—RS-R75



Unlike many other HF/50 MHz receivers

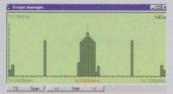
there is no need to install an additional

unit for FM mode reception on the 29 and

FM mode standard

50 MHz bands.

FRONT PANEL—gives you access to all switches and controls on the front panel of the IC-R75.



BAND SCOPE—shows signal conditions around a specified frequency.



SCAN MANAGER—used to graphically display scans in progress and to control scan functions.

four-hau four-hau four-hau four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham four-ham fou	C 200%	10-500 foots C 100 mile d Automob C 107 mile	Hou IV Past halling IV Somewhere IV For now. If for now. If Add 1) If Statistics charmed. If Library than
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SETTINGS—allows you to adjust settings in 3 categories: General, Sound and Display, to suit your operating preferences.

All available functions can be controlled and simple memory editing from a PC running the optional RS-R75 REMOTE CONTROL SOFTWARE. In addition, this software are provides a simple bandscope function. Icom's current CI-V capability will allow you to control the IC-R75 with other programs.

	750	Description
00		Sets frequency (transcelve) Sets mode (transcerve)
	100	Sets mode (transcerve)
OIF CES		Reads band edge frequencies
04		Reads frequency Freeds mode
OR.	_	Sens harpency
00	00	Some I SID mode
100	01	Sens LSB mode Bata USB mode
	08	
	CDA	Sets CW mode Sets FTTY mode
	04	Sale RITTY mode
	OF.	Sets FM mode
		Sats OW-R mode
	CHS	Sets STTY-R mode
		Setu 5-AM mode
		Selects VFO operation
OH		Selects memory operation
	- Jt/R:	Set memory channel
OB		Writasciu:mercury.
OA.		Transfer memory contents to VFO
Oth		Disers the memory channel
041	.00	Shops soun
		Starts program/nemory scan
	D4	Starte program acan
		Starts auto memory write scan
	22	Starts memory scen
	200	Starts select memory acar.
	器	Turns a "select" setting OFF Turns a "select" setting ON
	130	Turns scen resume CFF
		Turns soon resume ON
†D	00	State 1/10 Hz turning step
7.	101	Sets 0.5 VHz furling attip
	02	Sets 1 kHz turing etep.
		Sate S'kritz turring step
	04	Gattle 6.25 SH2 Sunerio abso
	06	Sets 9 kirtz turking step-
	-DG	Sets 10 kHz tuning step
		Sets 12.5 lattic turning step
	-041	State 20 kHz turning step
	0.0	Sets 25 kms turing ittep
		Sets 100 and suring sing
		Sets 1 MHz turing step
11	-00	Torres attenuator CPT
	50	Tyrne attenuator CN
12	00	Streets A/411
	-01	Selects AATS
13.	.99	Speech all contents
	411	Speach specifing freq +5-level
14	02	Speech operating mode
74	01	Reads/Sets AF feval Reads/Sets RF gain level
	02	When the Clinical County I have a
	00	Reads/Sets SQL level
	-07	Reads/Sets NR level Reads/Sets [TWIN PBT] (Inside)
11/9	OR	Preside Settle [TWHY PUT] (mutade)
	98	Pende/Sets GW PITCH level
15	01	Reads the squeen condition
100	02	Please signal strength level
16	02	Reads/Side the proprie
100	12	Reads/Sets the AQC
100	22	Readartiets the noise transer
	40	Reads/Sets the noise reduction
	41	Heade/Sets the auto nontr
100	OÜ.	Tume power OFF
	01	Turns power ON
19	00	Fleeds receiver's ID code
TA	00	Reads/Writes memory contains
	01	(Neade/Sata the If Hillers
	.02	(Nends/Sets SET mode

SPECIFICATIONS

GENERAL

 Frequency coverage : 0.03-60.000000 MHz*

*0.03-29.999999 MHz only for Asia version; specifications guaranteed 0.1-29.99 MHz and 50-54 MHz only

· Mode

: USB, LSB, CW, RTTY, AM, S-AM, FM • Number of memory channels : 101 (99 regular, 2 scan edges)

· Frequency stability

: Less than ±7 ppm from 1 min. to 60 min. after power on. After that rate of stability less than ±1

ppm/hr. at +25°C (+77°F). Temperature fluctuations 0°C to +50°C (+32°F to +122°F) less than ±5 ppm.

· Power supply requirement

: 13.8 V DC ±15% (negative ground) : Standby • Current drain (at 13.8 V DC) 0.9 A

Max. audio 1.1 A

 Antenna connector : SO-239 (50 Ω), push connection terminal (500 Ω)

· Dimensions : 241(W) × 94(H) × 229(D) mm

(projections not included) 91/2(W) × 311/16(H) × 91/32(D) in : 3.0 kg; 6 lb 10 oz Weight (approx.) REMOTE connector : RS-232C D-sub 9-pin

· CI-V connector

RECEIVER

: 2-conductor 3.5 (d) mm (1/8")

· Receive system · Intermediate frequencies : Triple-conversion superheterodyne system

Mode	1st (MHz)	2nd (MHz)	3rd (kHz)
USB*/LSB*	69.0115	9.0115	455
CW*	69.0106	9.0106	455.9
RTTY*	69.0105	9.0105	456
AM*/S-AM	69.0100	9.0100	450
FM	69.0115	9.0115	450

*May differ according to selected IF filter.

Sensitivity

Frequency range	SSB/CW/RTTY 10 dB S/N	AM/S-AM 10 dB S/N	FM 12 dB SINAD
0.1-1.8 MHz*1	2.0 μV	5.6 µV	-
1.8-28 MHz*2	0.16 μV	1.6 µV	
28-29.99 MHz*2	0.16 μV	1.6 µV	0.22 µV
50-54 MHz*3	0.13 μV	1.0 µV	0.2 µV

 SQL sensitivity (threshold) : SSB, CW, RTTY Less than 5.6 µV *1 FM

Less than 0.32 µV *2 "Preamp 1: ON; "preamp 2: ON

 Selectivity : SSB. CW. RTTY More than 2.1 kHz/-6 dB Less than 4.0 kHz/-60 dB

More than 6 kHz/-6 dB AM. S-AM

Less than 20 kHz/-50 dB FM More than 12 kHz/-6 dB

Less than 30 kHz/-40 dB

· Spurious and image rejection ratio:

More than 70 dB (except IF through/50 MHz band) : More than 2.0 W at 10% distortion with an 8 Ω load · Audio output power

(at 13.8 V DC)

 PHONES connector : 3-conductor 6.35 (d) mm (1/4") External SP connector : 2-conductor 3.5 (d) mm (1/8")/8 \Omega

Supplied accessories:

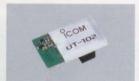
• AC adapter or DC power cable (depending on version) • Spare fuse

All stated specifications are typical and subject to change without notice or obligations.

OPTIONS



CR-282 HIGH STABILITY CRYSTAL UNIT
Contains a temperature-compensating oven heater and crystal unit for improved frequency stability. Frequency stability: ±0.5 ppm



UT-102 VOICE SYNTHESIZER Announces the operating mode, frequency, signal strength level and noise reduction and auto notch.



UT-106 DSP UNIT Provides AF DSP functions such as



CT-17 CI-V LEVEL CONVERTER For remote receiver control using a PC equipped with an RS-232C port.

RS-R75 REMOTE CONTROL SOFTWARE

Supplied items;

Application CD-ROM

• RS-232C serial interface cable

Allows you to control the receiver from your PC (for Microsoft® Windows* 95 or Windows* 98).

Microsoft and Windows are registered trademarks of Microsoft Corporation.



9 MHz filters

FL-100 CW/RTTY narrow: 500 Hz/-6 dB FL-101 CW narrow: 250 Hz/-6 dB

FL-103 SSB wide; 2.8 kHz/-6 dB FL-223 SSB narrow; 1.9 kHz/-6 dB FL-232 CW/RTTY narrow:

350 Hz/-6 dB



455 kHz filters

FL-52A CW/RTTY narrow; 500 Hz/-6 dB

FL-53A CW narrow; 250 Hz/-6 dB FL-96 SSB wide: 2.8 kHz/-6 dB FL-222 SSB narrow; 1.8 kHz/-6 dB

FL-257 SSB wide: 3.3 kHz/-6 dB

IC-MB5 MOBILE BRACKET Communications receiver brack for mobile operation.

MB-23 CARRYING HANDLE For easy portable operation.

AD-55/A/V AC DAPTER Allows you to power the receiver via domestic AC.

Icom Inc.

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Count on us!

Icom America Inc.

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Icom France Sa

Zac de la Plaine, Rue Brindejonc des Moulinais BP 5804, 31505 Toulouse Cedex, France Phone: 561 36 03 03 Fax: 561 36 03 00 URL: http://www.icom-france.com



Icom Inc. (Japan), is an ISO9001 certification acquired company.

Certificate Number Q14190

Your local distributor/dealer: