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HF+50 MHz ALL MODE COMMUNICATIONS RECEIVER

IC-R75



AGE

Icom Inc.



WIDE FREQUENCY COVERAGE AND

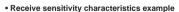
Expanded frequency coverage

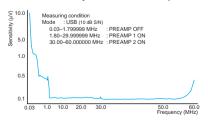
The IC-R75 covers a frequency range that's wider than other HF receivers; 0.03–60.000000 MHz*. This wide frequency coverage allows you to listen to a variety of communications including marine communications, amateur radio, short wave radio broadcasts and more.

*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.





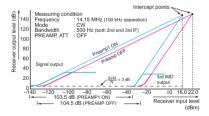
Superior dynamic range

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 minimize image and spurious responses for better signal fidelity.

*1 Not guaranteed.

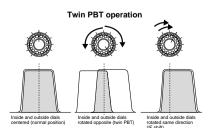
*2Not guaranteed; When PREAMP OFF; CW narrow 500 Hz bandwidth; 100 kHz channel spacing

Dynamic range characteristics example



Twin PBT capability

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



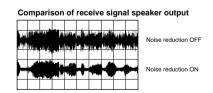
DSP capabilities

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

* Already installed with some versions.

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.



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.

FM mode standard

Unlike many other HF/50 MHz receivers there is no need to install an additional unit for FM mode reception on the 29 and 50 MHz bands.

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, 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

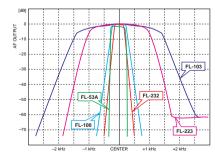
NNOVATIVE FEATURES...

Flexible filter selection

Up 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-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 with peak hold
- · 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 preampSelectable AGC (FAST/SLOW/OFF)
- Selectable AGC (FAST/SLOW
- Noise blanker
- 99 memories plus 2 program scan edges
- Ample scanning functions available
- CW pitch control and CW reverse mode and more...

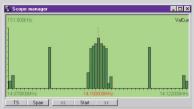
Rear panel view



Optional PC remote control —RS-R75



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.

TSValDelta								Out of range
			i	i.				ValMax
ValMin Speed		Delay		ValMid				ValMax
<u> </u>					_			
ast	Slow	None 2	s 5s 10s	15: 30:	Stop			
Frequency of	an							
PR	START	STOP	TS	MODE	ATT	PAMP	ANT	COMN -
001	30.0KHz	60.0MHz	100Hz	USB	OFF	OFF	ANT 1	All fre
802	29.6MHz	29.7MHz	12.5KHz	FMN	OFF	PA 2	ANT 1	10m i
003	21.0MHz	2.12MHz	100Hz	CW_N	OFF	PA 2	ANT 1	15m (
004	1							
005								
008								
807								
					Save	Clear	Start P	reg Scen
								1em Scan
Memory scar								

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



Read from Rs Vrite to Rs Close

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.



FM 12 dB SINAD

0.22 µV

0.2 uV

AM

10 dB S/N

5.6 uV

1.6 µV

1.6 µV

1.0 µV

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

Less than 5.6 µV *1

Less than 0.32 µV *2

More than 2.1 kHz/-6 dB Less than 4.0 kHz/-60 dB

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

More than 12 kHz/-6 dB Less than 30 kHz/-40 dB

*1Preamp 1: ON; *2preamp 2: ON

: 3-conductor 6.35 (d) mm (1/4")

The IC-R75 has been tested to and passed the MIL-STD requirements and strict environmental standards for shock (MIL 810C, D, E) and vibration (MIL 810C, D, E).

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

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

: 2-conductor 3.5 (d) mm (1/8")/8 Ω

SPECIFICATIONS

	GENERAL	 Sensitivity 		:		
 Frequency coverage 	: 0.03–60.000000 MHz*		Frequency range	SSB/CW/RTTY 10 dB S/N	AN 10 dB	
*0.03–29.999999 MHz only for A 50–54 MHz only	sia version; specifications guaranteed 0.1-29.99 MHz and		0.1–1.8 MHz*1	- 1	5.6 µ	
• Mode	: USB, LSB, CW, RTTY, AM, FM		1.8–28 MHz*2	0.16 µV	1.6 µ	
			28-29.99 MHz*2	0.16 µV	1.6 µ	
 Number of memory channels Frequency stability 	: 101 (99 regular, 2 scan edges) : Less than ±7 ppm from 1 min. to 60 min. after		50–54 MHz*3	0.13 µV	1.0 µ	
s requercy stability	power on. After that rate of stability less than ±1	*	¹ Preamp: OFF; * ² F	FF; *2Preamp 1: ON; *3Preamp 2: ON		
	ppm/hr. at +25°C (+77°F). Temperature fluctuations	 SQL sensitivit 	y (threshold)	: SSB, CW, RTTY	Less	
	0° C to +50°C (+32°F to +122°F) less than ±5 ppm.			FM	Less	
 Power supply requirement 	: 13.8 V DC ±15% (negative ground)			*1Preamp 1: ON; *2	preamp 2:	
• Current drain (at 13.8 V DC)	: Standby 0.9 A	 Selectivity 		: SSB, CW, RTTY	More	
· · · · · ·	Max. audio 1.1 A				Less	
 Antenna connector 	: SO-239 (50 Ω), push connection terminal (500 Ω)			AM	More	
Dimensions	: 241(W) × 94(H) × 229(D) mm				Less	
(projections not included)	$9^{1/2}(W) \times 3^{11/16}(H) \times 9^{1/32}(D)$ in			FM	More	
Weight (approx.)	: 3.0 kg; 6 lb 10 oz				Less	
 REMOTE connector 	: RS-232C D-sub 9-pin	 Spurious and 	image rejection	ratio:		
CI-V connector	: 2-conductor 3.5 (d) mm (1/8")			More than 70 dB	(except IF	
		 Audio output p (at 13.8 V DC) 	oower	: More than 2.0 W	/ at 10% di	
	RECEIVER	PHONES con	nector	: 3-conductor 6.35	5 (d) mm	
-					, (,	

 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*	69.0100	9.0100	450
FM	69.0115	9.0115	450

*May differ according to selected IF filter

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



900M

FL-100 CW/RTTY narrow;

FL-232 CW/RTTY narrow: 350 Hz/-6 dB

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

UT-102 VOICE SYNTHESIZER Announces the operating mode, frequency, signal strength level and the time.



9 MHz filters

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455 kHz filters

UT-106 DSP UNIT

Provides AF DSP functions such as

noise reduction and auto notch Al-

ready installed with some versions.

Icom France s.a.s.

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Icom Polska

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Asia Icom Inc.

• External SP connector

Supplied accessories:

obligations.

GF No. 68, Sec. 1 Cheng-Teh Road, Taipei, Taiwan, R.O.C. Phone: +886 (02) 2559 1899 Fax :+886 (02) 2559 1874 E-mail : sales@asia-icom.com URL : http://www.asia-icom.com

Beijing Icom Ltd.

10C07, Long Silver Mansion, No.88, Yong Ding Road, Haidian District, Beijing, 100039, China Phone : +86 (010) 5889 5391/5392/5393 Fax : +86 (010) 5889 5395 E-mail : biicom@biicom.com : http://www.bjicom.com URL

Your local distributor/dealer:

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

FL-52A CW/RTTY narrow; 500 Hz/--6 dB EL-53A CW narrow: 250 Hz/-6 dB FL-222 SSB narrow: 1.8 kHz/-6 dB FL-257 SSB wide; 3.3 kHz/-6 dB

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.

IC-MB5 MOBILE BRACKET Communications receiver bracket 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.

Count on us!