

ICOM

Rugged
MIL-STD 810

Downloaded by
RadioAmateur.EU

COMMUNICATIONS RECEIVER

IC-R6

The 100 Ch/Sec Wideband Signal "Search Machine"

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 unsusceptible 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 channels per second 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 x2), 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.

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.

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-196S, or opt for a cigarette lighter cable, CP-18. When used the optional drop-in charger stand BC-194 with the AC adapter or cigarette lighter cable, you can easily start charging the Ni-MH cells, while eliminating the need to connect the power source to the DC power jack of the receiver.



OTHER FEATURES

- Built-in audio low pass filter
- ± 1.0 ppm 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 function
- Optional CT-17, CI-V level converter for remote control
- 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
- Optional new tube earphone, SP-27
- Weather channel receive with weather alert (USA version only)

SPECIFICATIONS

GENERAL

- Frequency coverage : 0.100–1309.995MHz*
(* Cellular blocked in the U.S.A. version.)
France 0.100–29.995, 50.200–51.200, 87.500–107.995, 144–146, 430–440, 1240–1300MHz
- Mode : AM, FM, WFM
- No. of memory channels : 1300 regular, 50 scan edges and 200 auto memory write
- Usable temperature range : –10°C to +60°C ; +14°F to +140°F
- Frequency stability : ± 1.0 ppm (at 25°C)
- Tuning steps : 5, 6.25, 8.33*, 9*, 10, 12.5, 15, 20, 25, 30, 50, 100, 125, 200kHz
(* Selectable depending on operating bands.)
- Battery requirement : 2×R6 (AA) size Ni-MH or alkaline cells
- External power supply : 4.5V DC rated (4.5–6.3V with BC-196SA/SD, CP-18A/E)
- Current drain Rated audio : 130mA typ. (Ext. SP, backlight off)
(at 3.0V DC) Standby : 65mA typ.
Power save : 30mA typ. (1:4 duty)
- Antenna impedance : 50Ω (SMA)
- Dimensions (W×H×D) : 58×86×29.8 mm;
(Projections not included) $2\frac{9}{32} \times 3\frac{3}{8} \times 1\frac{1}{8}$ in
- Weight (approx.) : 200g; 7.1oz

RECEIVER

- Intermediate frequencies :
FM, AM 266.7MHz, 19.65MHz, 450kHz
WFM 266.7MHz, 19.95MHz, 750kHz
- Sensitivity (except spurious points):
FM 1.625MHz– 4.995MHz 0.32μV typ.
(12dB SINAD) 5.000MHz– 29.995MHz 0.25μV typ.
30.000MHz– 117.995MHz 0.18μV typ.
118.000MHz– 246.995MHz 0.18μV typ.
247.000MHz– 469.995MHz 0.18μV typ.
470.000MHz– 832.995MHz 0.32μV typ.
833.000MHz– 1029.995MHz 0.28μV typ.
1030.000MHz– 1309.995MHz 0.35μV typ.
WFM 76.000MHz– 108.000MHz 1.1μV typ.
(12dB SINAD) 175.000MHz– 221.995MHz 1.1μV typ.
470.000MHz– 770.000MHz 1.8μV typ.
AM 0.495MHz– 4.995MHz 1.3μV typ.
(10dB S/N) 5.000MHz– 29.995MHz 0.89μV typ.
118.000MHz– 136.000MHz 0.63μV typ.
222.000MHz– 246.995MHz 0.63μV typ.
247.000MHz– 329.995MHz 0.79μV typ.
- Selectivity AM, FM : More than 12kHz/–9dB,
Less than 30kHz/–60dB
WFM More than 150kHz/–6dB

- AF output power (at 3.0V DC, 10% distortion) :
Internal speaker (16Ω load) More than 150mW
External speaker (8Ω load) 80mW typ.
- External SP connector : 3-conductor 3.5 (d) mm (1/8")/8Ω

Applicable U.S. Military Specifications & IP Rating

Standard	MIL 810 F	
	Method	Procedure
Low Pressure	500.4	I, II
High Temperature	501.4	I, II
Low Temperature	502.4	I, II
Temperature Shock	503.4	I
Solar Radiation	505.4	I
Humidity	507.4	–
Vibration	514.5	I
Shock	516.5	I, IV

Also meets equivalent MIL-STD-810-C, -D and -E.

Ingress Protection Standard

Water IPX2 (Drip resistant)

Supplied accessories

- Ni-MH cells*
 - AC adapter, BC-196SA/SD*
 - Antenna
 - Belt clip
 - Handstrap
- (* Not supplied depending on version)

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

OPTIONS

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

- **BC-196SA/SD AC ADAPTER**
4.5V DC, 400mA output. Allows you to power the IC-R6 and charge the supplied Ni-MH battery cells installed in the IC-R6 in 15 hours (approx.). For exclusive use with the IC-R6 and BC-194 only.
- **BC-194 CHARGER STAND**
Drop-in charger for use with BC-196S or CP-18A/E.
- **CP-18A/E CIGARETTE LIGHTER CABLE**
6V DC, 1.5A output from 12V cigarette lighter socket.
- **HP-4 HEADPHONE**
Light weight monaural headphone.
- **SP-13 EARPHONE**
SP-27 TUBE EARPHONE
Provides clear audio even in noisy environments.
- **LC-146A CARRYING CASE**
Helps protect the receiver from scratches, etc.
- **CT-17 CI-V LEVEL CONVERTER**
For receiver remote control from a PC.

- **CS-R6 CLONING SOFTWARE**
OPC-478 CLONING CABLE (RS-232C cable)
OPC-478UC CLONING CABLE (USB cable)
Use a PC to easily edit stored memory channel data.
- **OPC-474 CLONING CABLE**
Used for receiver-to-receiver data cloning.
- **AD-92SMA ANTENNA CONNECTOR ADAPTER**
Allows you to connect a BNC-type antenna.



BC-196SA/SD



CP-18A/E



HP-4



SP-13

SP-27



LC-146A



CT-17



OPC-474



AD-92SMA

Icom, Icom Inc. and the Icom logo are registered trademarks of Icom Incorporated (Japan) in the United States, the United Kingdom, Germany, France, Spain, Russia, Japan and/or other countries. All other trademarks are the properties of their respective holders.

Icom Inc.

1-1-32, Kami-minami, Hirano-ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013

www.icom.co.jp/world

Count on us!

Icom America Inc.

2380 116th Avenue NE,
Bellevue, WA 98004, U.S.A.
Phone: +1 (425) 454-8155
Fax: +1 (425) 454-1509
E-mail: sales@icomamerica.com
URL: http://www.icomamerica.com

Icom Canada

Glenwood Centre #150-6165 Highway 17,
Delta, B.C., V4K 5B8, Canada
Phone: +1 (604) 952-4266
Fax: +1 (604) 952-0090
E-mail: info@icomcanada.com
URL: http://www.icomcanada.com

Icom (Australia) Pty. Ltd.

Unit 1 / 103 Garden Road,
Clayton, VIC 3168 Australia
Phone: +61 (03) 9549 7500
Fax: +61 (03) 9549 7505
E-mail: sales@icom.net.au
URL: http://www.icom.net.au

Icom New Zealand

146A Harris Road, East Tamaki,
Auckland, New Zealand
Phone: +64 (09) 274 4062
Fax: +64 (09) 274 4708
E-mail: inquiries@icom.co.nz
URL: http://www.icom.co.nz

Icom (Europe) GmbH

Communication Equipment
Auf der Krautweide 24
65812 Bad Soden am Taunus, Germany
Phone: +49 (6196) 76685-0
Fax: +49 (6196) 76685-50
E-mail: info@icomeurope.com
URL: http://www.icomeurope.com

Icom Spain S.L.

Ctra. Rubi, No. 88 "Edificio Can Castanyer"
Bajos A 08174, Sant Cugat del Valles,
Barcelona, Spain
Phone: +34 (93) 590 26 70
Fax: +34 (93) 589 04 46
E-mail: icom@icomspain.com
URL: http://www.icomspain.com

Icom (UK) Ltd.

Blacksole House, Alitra Park,
Herne Bay, Kent, CT6 6GZ, U.K.
Phone: +44 (01227) 741741
Fax: +44 (01227) 741742
E-mail: info@icomuk.co.uk
URL: http://www.icomuk.co.uk

Icom France s.a.s.

Zac de la Plaine,
1 Rue Brindejonc des Moulinais, BP 45804,
31505 Toulouse Cedex 5, France
Phone: +33 (5) 61 36 03 03
Fax: +33 (5) 61 36 03 00
E-mail: icom@icom-france.com
URL: http://www.icom-france.com

Icom Polska

81-850 Sopot, ul. 3 Maja 54, Poland
Phone: +48 (58) 550 7135
Fax: +48 (58) 551 0484
E-mail: icompolska@icompolska.com.pl
URL: http://www.icompolska.com.pl

Asia Icom Inc.

6F 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: bjicom@bjicom.com
URL: http://www.bjicom.com

Your local distributor/dealer:

Downloaded by
RadioAmateur.EU