

ICOM

Rugged
MIL-STD 810

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 x 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 : 50 Ω (SMA)
- Dimensions (WxHxD) : 58x86x29.8 mm;
(Projections not included) 2 $\frac{9}{32}$ x3 $\frac{9}{16}$ x1 $\frac{3}{16}$ 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 0.32 μ V typ.
(12dB SINAD) 5.000MHz– 29.995MHz 0.25 μ V typ.
30.000MHz– 117.995MHz 0.18 μ V typ.
118.000MHz– 246.995MHz 0.18 μ V typ.
247.000MHz– 469.995MHz 0.18 μ V typ.
470.000MHz– 832.995MHz 0.32 μ V typ.
833.000MHz– 1029.995MHz 0.28 μ V typ.
1030.000MHz– 1309.995MHz 0.35 μ V typ.
WFM 76.000MHz– 108.000MHz 1.1 μ V typ.
(12dB SINAD) 175.000MHz– 221.995MHz 1.1 μ V typ.
470.000MHz– 770.000MHz 1.8 μ V typ.
AM 0.495MHz– 4.995MHz 1.3 μ V typ.
(10dB S/N) 5.000MHz– 29.995MHz 0.89 μ V typ.
118.000MHz– 136.000MHz 0.63 μ V typ.
222.000MHz– 246.995MHz 0.63 μ V typ.
247.000MHz– 329.995MHz 0.79 μ V 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 (16 Ω load) More than 150mW
External speaker (8 Ω load) 80mW typ.
- External SP connector : 3-conductor 3.5 (d) mm (1/8")/8 Ω

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-478BUC 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.



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