ICOM

IC-R1500

Rugged MIL-STD 810

Wideband mobile receiver with remote control head

Ultra wideband coverage
Explore radio signals from all over the world! The IC-R1500 covers 0.01–3299.999MHz* in AM, FM, SSB and CW mode.

* See the specifications for details.

Remote control head
While similar to the PCR1500, the IC-R1500 is supplied with a remote control head for mobile and/or base station operation. It provides a variety of mounting possibilities in various place.

Green, amber and yellow display backlight colors are selectable.

60 channels per second scan
Quickly scan through a band with the IC-R1500's 60 Ch/second scan rate*. Program, priority scan and various scanning modes are available.   * When tuning step is less than 100kHz in program scan mode.

Optional DSP capability
Whether you are into weak signal work or you have noise from your vehicles ignition, the optional DSP, UT-106, will help. The noise reduction and auto notch filter functions are the key to pulling a radio signal out of the noise.

1000 alphanumeric memory channels
1000 on-board memory channels at the touch of a button! With Icom's Dynamic Memory Scan, DMS, you have a versatile memory channel management system at your command. The 1000 memory channels can be arranged by service or personal preference in the 21 memory banks. Selectively link the channels together to scan depending on your needs. Programming the memory channels and 6 character memory names is simple with your PC.

CTCSS, DTCS tone and pocket beep
The CTCSS and DTCS tones provide quiet stand-by while waiting for a matched tone signal. And the pocket beep function alerts you with a beep sound when a matched tone signal is received.

Other features
• VSC (Voice squelch control) opens the squelch only when a modulated signal is detected and ignores unmodulated, beat noise
• IF filter selection for changing IF filter width
• IF shift function (SSB, CW mode only)
• Noise blanker eliminates pulse type noise such as engine ignition noise (SSB, CW, AM mode only)
• RF attenuator attenuates 20dB (approx.) (below 1300MHz)
• Weather alert function
  (U.S.A. version only)

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OTHER FEATURES

- AFC function automatically follows the receiving frequency when the receiving frequency drifts in FM mode (BW: 6kHz or 15kHz)
- 30 min – 2 hour auto power off timer
- Fast/slow AGC setting
- Short/long squelch delay

- All IC-PCR1500 functions are available when connected to a PC
- Cloning function allows you to read/write memory contents from your PC. Sharing the data with IC-PCR1500 is also possible.
- U.S.A. Customers check out **www.icomreceivers.com** for frequency lists in your neighborhood. (Based on FCC license.)

SPECIFICATIONS

GENERAL

- Frequency coverage : 0.010–3299.999MHz*
  Guaranteed range 0.495–3000.000MHz
  * Cellular bands are blocked in the U.S.A. version.
  France 0.010–29.999*, 50.200–51.200,
  87.500–107.999, 144.000–146.000,
  430.000–440.000, 1240.000–1300.000MHz
  * Guaranteed range 0.495–29.999MHz
- Mode : AM, FM, WFM, USB*, LSB*, CW*
  * 0.01–1300MHz only.
- Usable temperature range : –10˚C to +60˚C; +14˚F to +140˚F
  When using with a PC 0˚C to +60˚C; +32˚F to +140˚F
- Frequency stability : Less than ±3ppm on the basis of 25˚C (–10˚C to +60˚C)
- Tuning steps : 10Hz (minimum)
- Power supply : 12.0V DC ±15%
- Current drain (at 12.0V DC) :
  Max. audio 0.85A typ.
  Stand-by 0.7A typ.
- Antenna Impedance : 50Ω (BNC)
- Dimensions (W×H×D; projections are not included) :
  Main unit 146×41×206 mm; 5¾×1⅝×8⅛ in
  Controller 111×40×26.5 mm; 4⅜×1⁹⁄₁₆×1¹⁄₃₂ in
- Weight (approx:) :
  Main unit 1200g; 2.6lb
  Controller 200g; 7oz (including cable)

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

RECEIVER

- Receiver system : Triple-conversion super-heterodyne + Down converter
- Intermediate frequencies : 1st 266.70MHz
  2nd 10.70MHz
  3rd 450kHz (Except WFM)
- Sensitivity (Less than) :

	SSB, CW	AM	FM	WFM
0.495–1.799MHz	5.0μV	25μV	–	–
1.8–49.999MHz	0.5μV	2.5μV	0.63μV*²	–
50–699.999MHz	0.4μV	2μV	0.5μV	1.4μV
700–1300.000MHz	0.5μV	2.5μV	0.63μV	1.8μV
1300*¹–2299.999MHz	–	–	5.6μV	18μV
2300–3000.000MHz	–	–	18μV	56μV

*¹ 1300.000001MHz *² 28–49.999MHz
SSB, CW BW=2.8kHz, AM BW=6.0kHz at 10dB S/N
FM BW=15kHz, WFM BW=230kHz at 12dB SINAD

- Selectivity (typical) :
  SSB, CW, AM More than 2.8kHz/–6dB
  SSB, CW, AM, FM More than 6.0kHz/–6dB
  FM, AM More than 15kHz/–6dB
  FM, AM, WFM More than 50kHz/–6dB
  WFM More than 230kHz/–6dB
- Audio output power : More than 500mW at 10% distortion with an 8Ω load
- External SP connector : 2-conductor 3.5 (d) mm (⅛″)/8Ω

Rear view

Antenna connector   9600 bps packet   USB (for PC connection)

GND   DC IN   Controller   External speaker
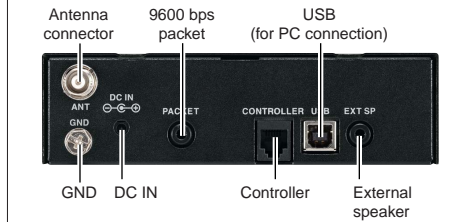
PC requirements (For use with PC control software)

- Microsoft® Windows Vista™, Windows® XP/2000/ME/98SE
- USB 1.1 or 2.0
- Intel® Pentium® III 450MHz or faster (Pentium® 4 recommended)
- Hard disk with at least 50 MB of free disk space
- At least 128 MB of memory (256MB or more recommended)
- Display with 1024 × 768 pixel resolution, high color
- CD-ROM or DVD drive is required for software installation
- USB audio dropouts or gaps may occur because of a lack of PC power
- Additional hard disk space is required for recording sound or storing scope data

Please turn off the Main unit power switch when not using the IC-R1500, while installed in a vehicle. The IC-R1500 has standby power consumption that will drain the vehicle battery over a period of time.

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

- **AD-113A/E** AC ADAPTOR
  10.5V DC, 1.8A/1.5A (A/E) output. Same as supplied.
- **CP-12L** CIGARETTE LIGHTER CABLE
  12V DC, 2A output from 12V cigarette lighter socket.
- **OPC-254L** DC POWER CABLE
  For use with an external power supply. (12V DC required)
- **OPC-1156** CONTROLLER EXTENSION CABLE
  Extends the supplied separation cable by 3.5 m (11.5 ft). A modular connector is supplied with the cable.

- **SP-10** EXTERNAL SPEAKER
  To better direct the audio where you want it.
- **UT-106** DSP UNIT
  Provides noise reduction and auto notch functions.
- **MB-58** REMOTE CONTROL BRACKET
  Mounts the controller in a convenient location.
- **MB-65** MOUNT BASE
  Mounts the controller with the MB-58. Adjustable angle and direction for optimum positioning.

Supplied accessories (* Depending on version)

AD-113A/E*   USB cable and antenna

Software CD   Controller and cable, (3.4m; 11.2ft)

CP-12L	OPC-254L	OPC-1156	UT-106	SP-10

Applicable U.S. Military Specifications

Standard	MIL 810 C		MIL 810 D		MIL 810 E		MIL 810 F	
	Method	Proc.	Method	Proc.	Method	Proc.	Method	Proc.
Low Pressure	500.1	I	500.2	I, II	500.3	I, II	500.4	I, II
High Temp.	501.1	I	501.2	I, II	501.3	I, II	501.4	I, II
Low Temp.	502.1	I	502.2	I, II	502.3	I, II	502.4-3	I, II
Temp. Shock	503.1	I	503.2	I	503.3	I	503.4	I
Solar Radiation	505.1	I	505.2	I	505.3	I	505.4	I
Humidity	507.1	I, II	507.2	II, III	507.3	III, III	507.4	–
Dust Blowing	510.1	I	510.2	I	510.3	I	510.4	I
Vibration	514.2	VIII, X	514.3	I	514.4	I	514.5	I
Shock	516.2	I, II, V	516.3	I, IV	516.4	I, IV	516.5	I, IV