



COMMUNICATIONS RECEIVER

# IC-R1500

*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](http://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; 5¾×1½×8¼ in
  - Controller 111×40×26.5 mm; 4¾×1½×1½ in
- Weight (approx.) :
  - Main unit 1200g; 2.6lb
  - Controller 200g; 7oz (including cable)

### RECEIVER

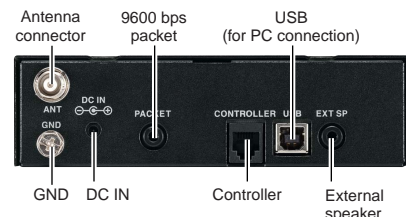
- Receiver system : Triple-conversion super-heterodyne + Down converter
- Intermediate frequencies : 1st 266.70MHz, 2nd 10.70MHz, 3rd 450kHz (Except WFM)
- Sensitivity (Less than) :
 

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

  - \*1 1300.00001MHz \*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 (1/8")/8Ω

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.

### Rear view



### PC requirements (For use with PC control software)

- Microsoft® 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

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.

- **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.



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### Supplied accessories

- AD-113A/E\* • Controller cable, 3.4m; 11.2ft • Antenna
- USB cable • Software CD
- \* Depending on version

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