Dualwatch capability
The IC-R2500 has dualwatch receive capability*, allowing you to receive two bands simultaneously. It covers 0.01–3299.999 MHz in AM, FM, WFM, SSB, CW, DV** and P25*** modes on the main receiver, while the sub-receiver covers 50–1300MHz in AM, FM and WFM modes****.

* Two antennas are required for dualwatch receive. ** Optional UT-118 required. *** Optional UT-122 required. Already installed with some versions. **** Frequency range differs depending on version.

Diversity receive capability
The diversity receive* mode is useful for mobile operation where the received signal changes continuously. It compares the signal strength and chooses the antenna with the better signal to maintain good sound and receive quality.

* Two antennas are required. Available in FM/DV/P25 mode between 50–1300MHz only. Diversity reception is not available while using dualwatch.

Wide LCD display for independent band control
The wide LCD display shows both main/sub receiver settings in an easy-to-read symmetric side-by-side layout. The controller provides separate tuning, volume, squelch knobs and function buttons for the left (Main) and right (Sub) receivers. The LCD backlit color is selectable between amber and green for your preference.

Digital mode reception
The optional UT-118 D-STAR digital unit and UT-122** P25 digital unit provide the latest digital mode reception. Catch the action in digital communications!

* Already installed with some versions.

1000 alphanumeric memory channels
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.

Other features
• Weather alert function (U.S.A. and Canada versions only)
• Optional DSP capability with UT-106
• VSC (Voice Squelch Control) ignores unmodulated signals or heterodynes
• IF filter selection for changing IF filter width
• Noise blanker eliminates pulse type noise (SSB, CW, AM mode only)
• AFC function automatically follows an FM signal when the signal’s frequency drifts (BW: 6kHz or 15kHz)
• IF shift function (SSB, CW mode only)
**SPECIFICATIONS**

### GENERAL
- **Frequency coverage and mode:**
  - **Main receiver:**
    - 0.010–1300 MHz
    - AM, FM, WFM
    - Guaranteed range: 0.495–3000 MHz
  - **Sub-receiver:**
    - 0.495–1300 MHz
    - USB, LSB, CW
  - **Dimensions (W × H):**
    - Main unit: 1350g; 3lb
    - Controller: 146; 5 3/4 × 1 5/8 × 1 3/32 in
- **Current drain (at 12.0V DC):**
  - Main unit: 5.63A
  - Controller: 1.8A
  - WFM: Max. 56V
- **Usable temperature range:**
  - –10˚C to +60˚C; +14˚F to +140˚F
- **Frequency stability:**
  - Less than ±3ppm on the basis of 25˚C (–10˚C to +60˚C)
- **Selectivity (typical):**
  - AM: More than 2.8kHz/–6dB
  - FM: More than 15kHz/–6dB
  - WFM: More than 10kHz/–6dB
  - SSB, CW, AM: More than 2.8kHz/–6dB
  - SSB, CW, AM: More than 15kHz/–6dB
  - AM: More than 2.8kHz/–6dB
- **Usable power supply:**
  - 12V DC ±15%
- **Current drain (at 12.0V DC):**
  - Max. audio: Less than 1.5A (Dual mode)
  - Stand-by: 0.85A (Dual mode)
- **Antenna Impedance:**
  - 50Ω
- **Dimensions (W × H):**
  - Main unit: 146 × 41 × 206 mm; 5 1/16 × 1 1/4 × 8 in
  - Controller: 140 × 50 × 39 mm; 5 1/2 × 2 1/8 × 1 1/4 in
- **Weight (approx):**
  - Main unit: 1350g; 3lb
  - Controller: 250g; 8.8oz (including cable)
- **Frequency coverage and mode:**
  - **Main receiver:**
    - 0.010–1300 MHz
    - AM, FM, WFM
    - Guaranteed range: 0.495–3000 MHz
    - AM, FM, WFM
  - **Sub-receiver:**
    - 0.495–1300 MHz
    - USB, LSB, CW

### OPTIONS
- **UT-106 DSP UNIT**
  - Provides noise reduction and auto notch functions.
- **UT-108 DTMF DECODER UNIT**
  - DTMF decode function for Sub-receiver. Either UT-108 or UT-118 can be installed in the receiver.
- **UT-118 D-STAR DIGITAL UNIT**
  - Provides D-STAR DV mode reception. Either UT-108 or UT-118 can be installed in the receiver.
- **UT-122 P25 DIGITAL UNIT**
  - Provides APCO P25 digital mode reception.
- **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.
- **OPC-254L DC POWER CABLE**
  - Provides APCO P25 digital mode reception.
- **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.
- **OPC-254L DC POWER CABLE**
  - Provides APCO P25 digital mode reception.
- **OPC-254L DC POWER CABLE**
  - Provides APCO P25 digital mode reception.
- **SP-10 EXTERNAL SPEAKER**
  - To better direct the audio where you want it.
- **MB-84 REMOTE CONTROL BRACKET**
  - Mounts the controller in a convenient location.
- **MB-65 MOUNT BASE**
  - Mounts the controller with the MB-84. Adjustable angle and direction for optimum positioning.
- **CP-12L CIGARETTE LIGHTER CABLE**
  - 12V DC, 2A output from 12V cigarette lighter socket.
- **AD-113A/E USB cable and antenna**
  - 12V DC required.

### RECEPTOR
- **Receiver system:**
  - Triple-conversion heterodyne + Down converter
- **Intermediate frequencies:**
  - 1st: 266.70MHz
  - 2nd: 10.70MHz
  - 3rd: 450Hz (Except WFM)
- **Sensitivity (Less than):**
  - 0.495–1.79MHz: 5.6V
  - 1.8–49.999MHz: 0.55V
  - 50–699.999MHz: 0.4V
  - 700–1300.000MHz: 0.5μV
  - 1.3GHz–2,999.999MHz: 0.2μV
  - 3GHz–5,000.000MHz: 0.13μV
- **Usable temperature range:**
  - –10˚C to +60˚C; +14˚F to +140˚F
- **Frequency stability:**
  - Less than ±3ppm on the basis of 25˚C (–10˚C to +60˚C)
- **Selectivity (typical):**
  - AM: More than 2.8kHz/–6dB
  - FM: More than 15kHz/–6dB
  - WFM: More than 10kHz/–6dB
  - SSB, CW, AM: More than 2.8kHz/–6dB
  - SSB, CW, AM: More than 15kHz/–6dB
  - AM: More than 2.8kHz/–6dB

### PC REQUIREMENTS
- **For use with PC control software:**
  - Microsoft® Windows XP/2000/MEM/98SE
  - USB 1.1 or 2.0
  - Intel® Pentium™ III 450MHz or faster (Pentium IV recommended)
  - Hard disk with at least 50MB of free disk space
  - At least 128 MB of memory (256MB or more recommended)
  - Display with 1024 x 768 pixel resolution, high color
  - CD ROM or DVD drive is required for software installation
  - USB audio outputs or gpios may occur because of a lack of PC power
  - Additional hard disk space is required for recording sound or storing scope data

### SUPPLIED ACCESSORIES
- **AD-113A/E USB cable and antenna**
  - (Depending on version)
- **Software CD**
  - Control head and cable, (3.4m; 11.2ft)

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