

IC-R2500



Dualwatch capability

Lun

OTITO

The IC-R2500 has dualwatch receive capability^{*1}, allowing you to receive two bands simultaneously. It covers 0.01–3299.999 MHz in AM, FM, WFM, SSB, CW, DV^{*2} and P25^{*3} modes on the main receiver, while the sub-receiver covers 50–1300MHz in AM, FM and WFM modes^{*4}.

*1 Two antennas are required for dualwatch receive. *2 Optional UT-118 required. *3 Optional UT-122 required. Already installed with some versions.
 *4 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)



With optional UT-122

COMMUNICATIONS RECEIVER

C-R250

• All IC-PCR2500 functions are available when connected to a PC

in your neighborhood and region. (Based on FCC licensee database.)

Sharing data with IC-PCR2500 is also possible.

· Cloning function allows you to read/write memory contents from your PC.

• U.S.A. Customers check out www.icomreceivers.com for frequency lists

- 30 min 2 hour auto power off timer
- Fast/slow AGC setting
- Short/long squelch delay
- CTCSS/DTCS tones and duplex mode operation for monitoring a repeater • RF attenuator attenuates 20dB (approx.) (below 1300MHz)

SPECIFICATIONS

GENERAL

	GE					
 Frequency cov 	erage and	mode :				
	Frequency coverage		Mode			
Main receiver	0.010-3299.999MHz*1		AM, FM, WFM,			
	(Guaranteed 0.495-3000MHz)		DV*2, P25*3			
	0.495–1300MHz*1		USB, LSB, CW			
Sub-receiver	50-1300MI	−lz*1	AM, FM, WFM			
*1 Some frequency bands are blocked in the U.S.A. vers						
*2 Optional UT-118 required. *3 Optional UT-122 required.						
France 0.010-29.999*4, 50.200-51.200, 87.500-107.999,						
144-146, 430-440, 1240-1300MHz						
*4 Main receiver only. Guaranteed range 0.495-29.999MHz.						
 Usable temperature range : -10°C to +60°C; +14°F to +140°I 						
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 with controller)				
		1Hz (minimu	m with PC)			
Power supply		: 12.0V DC ±	12.0V DC ±15%			
Current drain (at 12.0V DC	:				
Max.	audio	Less than 1	Less than 1.5A (Dual mode)			
Stand	-by	0.85A typ. (0.85A typ. (Dual mode)			
Antenna Impedance		50Ω (BNC)				
• Dimensions (W×H×D; projections are not included) :						
Main			n; 5¾×15%×81/8 in			
Contro			; 5 ¹ / ₂ ×1 ³¹ / ₃₂ ×1 ³ / ₃₂ in			
 Weight (approx 			, 0,2,1, ,32,(1,32,11			
Main	,	1350g; 3lb				
Contro		0,	(including cable)			
Contro		2009, 0.002	oz (including cable)			

DTMF decode function for Sub-receiver. Either UT-

Provides D-STAR DV mode reception. Either UT-108

OPC-1156 CONTROLLER EXTENSION CABLE

Extends the supplied separation cable by 3.5 m (11.5 ft).

108 or UT-118 can be installed in the receiver.

or UT-118 can be installed in the receiver

Provides APCO P25 digital mode reception.

A modular connector is supplied with the cable.

UT-118 D-STAR DIGITAL UNIT

• UT-122 P25 DIGITAL UNIT

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

RECEIVER

distortion with an 8Ω load External SP connector : 2-conductor 3.5 (d) mm (1/8")/8Ω

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 UT-106 DSP UNIT • SP-10 EXTERNAL SPEAKER

- Provides noise reduction and auto notch functions. To better direct the audio where you want it. **UT-108** DTMF DECODER UNIT
 - 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 AC ADAPTOR
 - 10.5V DC, 1.8A/1.5A (A/E) output. Same as supplied. OPC-254L DC POWER CABLE

For use with an external power supply. (12V DC required)

Turn off the Main unit power switch when not using the IC-R2500 while installed in a vehicle. The IC-R2500 has standby power consumption that will drain the vehicle battery over a period of time.



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





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ICOM Inc. 1-1-32, Kamiminami, Hirano-ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013 URL: http://www.icom.co.ip/world/index.html

Icom America Inc. 2380 116th Avenue NE, Bellevue, WA 98004, U.S.A. Phone : +1 (425) 454-8155 Find : +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 : http://www.icomcanada.com URL

Icom (Australia) Pty. Ltd. A.B.N. 88 006 092 575 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

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 Himmelgeister Str. 100, D-40225 Düsseldorf, Germany Phone: +49 (0211) 346047 Fax : +49 (0211) 333639 E-mail : info@icomeurope.com URL : http://www.icomeurope.com

Icom Spain S.L.

Ctra Rubi No 88 "Edificio Can Castanver" Cira. Rubi, No. 88 Editico Can Castanyer 08190, 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. Unit 9, Sea St., Herne Bay,

Kent, CT6 8LD, U.K. Phone : +44 (01227) 741741 Fax : +44 (01227) 741741 Fax : +44 (01227) 741742 E-mail : info@icomuk.co.uk URL : http://www.icomuk.co.uk

Icom France S.a

Zac de la Plaine, 1, Rue Brindejonc des Moulinais BP 5804, 31505 Toulouse Cedex, France Phone : +33 (5) 61 36 03 00 Fax : +33 (5) 61 36 03 00 E-mail : icom@icom-france.com URL : http://www.icom-france.com

Icom Polska

Sopot, 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.

Your local distributor/dealer:

Count on us!

 IOC07, 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 : bijicom@bijicom.com

 URL : http://www.bjicom.com

Icom New Zealand