O ICOM

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GE3398

DUAL BAND

.550

VHF/UHF DUAL BAND TRANSCEIVER

IC-E91

One radio. Two bands. Three times the fun!

Wide Band Receiver

With V/V, U/U dualwatch capability

VHF/UHF DUAL BAND

5W (typ.) output on both bands



Provides Digital Voice (DV) mode operation with optional UT-121



Wide band receiver with dualwatch capability

The IC-E91 has dualwatch receiver capability, allowing you to receive* two bands simultaneously (including same band). By pushing and holding the [Main/Dual] button, you can easily turn dualwatch on and off, while a press of the button allows you to toggle the active VFO channels.

* See specifications for receive range restrictions.

Large dot-matrix LCD

Using a large full dot-matrix LCD (37.8×20 mm), the IC-E91 clearly shows two-line frequency settings, alphanumeric channel name, bandscope, etc. In addition, automatic LCD and keypad back-lighting provides bright illumination for night time operation.

Simple bandscope

Spectrum activity is displayed on the screen and audio is heard while sweeping the range. It is useful for finding new or interfering signals.



Simple bandscope example

5 Watts (typical) output

Icom's original wideband PA circuit and supplied lithium-ion battery pack provides 5W (typ.) output. The supplied BP-217 provides up to 5/4.5 hours* of operating time.

* VHF/UHF single mode, Tx high: Rx: Stand-by duty ratio= 1: 1: 8

Keypad navigation

The 4 cursor direction buttons on the keypad gives you quick and intuitive access to many settings. The twin volume/channel knob provides convenient channel/volume setting.



External DC power jack

An external DC power jack allows for operation with an external DC power supply (10–16V DC). When used with the CP-19R or OPC-254L, simultaneous operation during charging is possible.

D-STAR digital voice (DV) mode operation

With optional UT-121, Digital Unit, the IC-E91 provides DV mode operation. 950 bps data like a short message or location data* can be sent simultaneously with the digital voice transmission. * External GPS receiver (NMEA 0183 format) is required.

Other features

- Optional remote control software, RS-91
- Squelch release function to monitor a weak signal.
- Water-resistant construction, equivalent to IPX4
- CTCSS and DTCS tone squelch operation for quiet stand-by
- 1750Hz tone for repeater access
- Total of 1304 memory channels
- 26 memory banks with selected bank and bank link scanning
- Auto power save, power off and power on
- 10 channel DTMF memory (16-digit)
- 10dB (approx) built-in attenuator



		GENERAL			
 Frequency 	coverage		(Unit: MHz)		
Version	Transmit	Receive (Working range)			
Europe, UK	144–146 430–440				
France		VFO A: 0.495-29.995, 50-52, 76-136.995 VFO B: 118-136.995, 144-146,			
	VFO A VFO B	: FM, WFM*1, AM*1 FM, FM-N, AM*1, DV*2			
Memory channels		 *1 Receive only, *2 Optional UT-121 is required. 1304 channels (including 100 program scan edges and 4 call channels) 			
		e: –20°C to +60°C			
		: ±2.5ppm (-20°C to +60°C)			
 Power supply 		: 7.4V DC (with BP-217)			
External DC power					
Current drain (at 7.4V DC):					
Tx High (VHF/UHF) 2.1/2.2A typ.					
Rx Power save(Duty= 1:4)/Rated output/Stand-by					
FM (Single) 65mA/220mA/100mA typ.					
FM/FM (Dual) 75mA/260mA/130mA typ. FM/DV (Dual) 95mA/340mA/170mA typ.					
Tuning steps (kHz)		: 5*, 6.25*, 8.33*, 9*, 10, 12.5, 15, 20,			
25, 30, 50, 100, 125, 200			.5, 15, 20,		
		* Not available on all bands or r	modos		
 Antenna in 	nnedance				
		: 58.4×103×34.2 mm			
(projections not included)					
 Weight (approx.) 			300g (with antenna and BP-217)		

 Output power : High 5W typ. Low 0.5W typ. Spurious emissions · Less than -60dB Max. freq. deviation : ±5.0/2.5kHz (FM Wide/nai Ext. MIC connector : 3-conductor 2.5(d) mm (¹/10")/2kΩ RECEIVER Intermediate frequency 61.65MHz/450kHz (Except WEM) VFO A (1st/2nd) WFM (1st/2nd/3rd) 59.25MHz/13.35MHz/1.95MHz VFO B (1st/2nd) 46.35MHz/450k Sensitivity (typical, except spurious points) : 46.35MHz/450kHz FM (at 12dB SINAD, 3.5kHz DEV) VHF (Ham band only) 0.14µV UHF (Ham band only) 0.16µV 0.4µV 1.625–29.995MHz 30 000-75 995MHz 0.25uV 76.000-117.995MHz 0.25µV 118.000–173.995MHz* 0.18µV (* Except ham bands) 174.000–259.995MHz 0.32µV 260.000-349.995MHz 0.32uV 350.000–469.995MHz* 0.22µV (* Except ham bands)

TRANSMITTER

AM (at 10dB S/N, 30% Mod.)					
0.495–4.995MHz		1.3µV			
5.000-29.995MHz		0.56µV			
118.000-136.995N	1Hz	0.5µV			
222.000-246.995N	1Hz	0.79µV			
247.000-329.995N	1Hz	1μV			
 Selectivity 	:				
AM/FM Wide	Mo	ore than 50dB			
FM-Narrow, DV	Mo	ore than 45dB			
WEM	Mo	ore than 300kHz/–3dB			
	Le	ss than 700kHz/-20dB			
Spurious and image rejection :					
VHF (Ham band)		ore than 60dB			
UHF (Ham band)		ore than 50dB (IF more than 60dB)			
 Spurious radiation 	: Le	ess than –57dBm			
 Audio output power 	: M	ore than 200mW at 10% distortion			
(7.4V DC)		ith an 8Ω load			

C-E9

Ext. speaker connector : 2-conductor 3.5(d) mm (1/8")/8Ω

Applicable U.S. Military Specifications

The IC-E91 has been tested to and passed the following MIL-STD requirements and strict environmental standards.

Standard	MIL 810 F		
Standard	Method	Procedure	
Temperature Shock	503.4	I	
Rain Drip	506.4	III	
Vibration	514.5	I	
Shock	516.5	I, IV	

Supplied accessories (*depending on version)

- Battery pack (BP-217)
 Antenna (FA-S270C)
 Wall charger* (BC-Belt clip (MB-107) r* (BC-167D) Hand strap

OPTIONS

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

BATTERY PACK AND CASE



All stated specifications are subject to change without notice or obligation

pack/case	capacity	(VHF/UHF)	(VHF/ŬHF)
BP-216	AA (LR6) batteries × 2	0.1W typ.	-
BP-217	Li-Ion 7.4V/1300mAh	5W typ.	5/4.5 hours

VHE/UHE single mode Tx: Bx: standby=1:1:8 Operating time is an proximate (at 20°C)

SPEAKER-MICROPHONES



HM-75A: Remote control speaker microphone. HM-131 : Compact and durable body with a revolving clip. HM-166 : Lightweight durable lapel-microphone with a earphone. HM-128 : Lightweight earphone-microphone is also available

REMOTE CONTROL SOFTWARE AND CONNECTION CABLE

ing time (approx.): 2.5 hours.

470.000-599.995MHz 0.32uV 600.000-999.995MHz 0.56µV WEM (at 12dB SINAD 52 5kHz DEV) 76.000–108.000MHz 1µV

175 000-221 995MHz 1 8uV

470.000–770.000MHz 2.5µV

BC-139 DESKTOP CHARGER



RS-91: Provides remote control capability and easy memory channel management from a PC. OPC-1529R is included. OPC-1529R : RS-232C type PC/GPS cable.



CP-19R : Cigarette lighter cable with DC-DC converter. 10–16V DC required. Rapidly charges battery pack BP-217. Charg-

OPC-254L : For use with an external power supply. 10-14V DC required for high power output.

URL: http://www.icom.co.jp/world/index.html



Voice coding speed :2400 bps



Helps protect the transceiver from scratches, etc

Count on us!

AD-925MA ANTENNA CONNECTOR ADAPTER Allows you to connect a BNC-type antenna. BC-167D WALL CHARGER Charges the BP-217 in 5 hours (approx.). Same as supplied with some versions. HS-85 HEADSET Allows you hands-free operation. Includes VOX. PTT. "one-touch PTT" with time out timer (TOT). **OPC-474** CLONING CABLE

Used for handheld-to-handheld data cloning SP-13 EARPHONE

Provides clear audio in noisy environments.

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Your local distributor/dealer:



Digital unit provides D-STAR digital voice capability. Digital TX speed: 4800 bps

