ICOM

IC-E90



5 Watts on 50MHz, 144MHz and 430MHz

Enjoy a full 5 watts on all three bands from the supplied 1300mAh Lithium-Ion battery pack, BP-217. Along with the energy conserving settings, the BP-217 provides up to 5 to 6 hours*1 of operating time and greatly reduces both the size and weight needed to get full output power. Just recharge and go!

*1 Tx high: Rx: Stand-by duty ratio= 1: 1: 8

Wideband receiver — 495kHz to 999.990MHz*2

The IC-E90 offers a wideband AM, FM, and WFM scanning receiver. Not only you can hear your favorite TV programs with the pre-programmed TV memories, but you can also listen to shortwave, AM and FM broadcast radio stations with excellent sound quality.

*2 Receiver range and pre-programmed memories differs depending on version.

Rugged palm sized*3, splash resistant construction

This compact, lightweight radio is comfortable in the smallest of hands, and offers full radio control for large fingers. The aluminum die-cast case and chassis is designed for the most rugged environments with splash resistance equivalent to JIS 4 specifications.

 *3 58(W)×87(H)×29(D) mm ; 280g (With antenna and BP-217)

DTCS and CTCSS tone squelch

A standard feature of the IC-E90 is both DTCS and CTCSS encode and decode capability. Choose from either 104 DTCS or 50 CTCSS codes for receive and transmit, individually. In addition, a pocket beep function gives you an audio alert when a matched tone signal is received — a great feature for quiet group operations.

DMS (Dynamic Memory Scan) bank scanning

With 555 alphanumeric memory channels, including 50 band edges and 5 call channels, Icom's DMS technology gives you flexible scanning lists. With a maximum of 18 banks or 100 channels per bank, you can pick and choose the desired channel for scanning from the 500 memories.

Rich in features but simple in operation

Simple, one-handed operation is the most valuable feature of the IC-E90. The backlit ten-key pad allows you to enter frequency, memory number and set various other features. The tuning knob can be customized for channel selection, or volume control.

Wait! There's more...

- DTMF encoder with 10 memories
- Morse code synthesizer indicates the frequency in morse code
- · Backlit LCD and keypad
- Auto squelch 13 scanning modes
- High speed scanning
- PC Programmable Antenna tip replaceable
- 5.5-11V DC operation Split operation
- Wide/narrow transmit capability



Icom Inc.

SPECIFICATIONS

	GENERAL							
• Frequency coverage : (Unit: MHz								
	Version	50MHz	144MHz	430MHz	Receive			
Ī	EUR	50-52	144-146	430-440				
	UK	50-52	144-146	430-440	0.495–999.990			
[ITR	50-51	144-146	430-434, 435-438				
	EUR-1	_	144-146	430-440	0.495-29.995, 50-52, 76-135.995,			
	FRA	50.2-51.2						
	ESP	_	144-146	430-440	50-50.2, 144-146, 430-440			

• Mode : FM, AM (Rx. only), WFM (Rx. only) No of memory Ch. : 555 (500 reg., 50 scan edges, 5 call)

Operating temp. range: -10°C to +60°C
Frequency stability: ±6ppm (-10°C to +60°C)

: 5.5 to 11V DC or specified battery pack

Power supply : 5.5
Current drain (at 8.0V DC): High (5.0W)
Rated audio 2 0A tvn 220mA typ. Standby Power saved 100mA typ. 65mA typ. (duty=1:4)

• Tuning steps (kHz) : 5, 6,25, 8,33, 9, 10, 12,5, 15, 20, 25, 30, 50, 100, 200

 Antenna impedance : 50Ω (SMA) Dimensions : 58(W)×87(H)×29(D) mm

(projections not included)

Weight (approx.)

: 280g (with BP-217 and antenna)

TRANSMITTER

• Output power (8.0V DC): High 5W typ. Low 0.5W typ.

 Spurious emissions : Less than –60dB Max. freq. deviation : ±5.0kHz

• Ext. MIC connector : 3-conductor 2.5(d) mm/2kΩ

RECEIVER

 Receive system Double-conversion superheterodyne Intermediate freq. 69.45MHz (FM/AM) 1st

13.35MHz (WFM) 450kHz

Sensitivity* (typ.;except spurious points):

(at 12dB SINAD)

1.625-4.995MHz 0.4µV 5.000-49.995MHz 0.18uV 50 000-54 000MHz 0.16µV 54.005-143.995MHz 0.18µV 0.16µV 144 000-148 000MHz 148.005–209.995MHz 0.4µV

210.000-225.000MHz 1.0µV 340.000-429.995MHz 0.32u\ 430 000-450 000MHz 0.16uV 450.005-832.990MHz 0.32µV 833.000-999.990MHz 1uV

WEM 40 000-108 000MHz $1\mu V$ 175.000–221.995MHz 1.8μV 470.000–770.000MHz 3.2μV (at 12dB SINAD) AM (at 10dB S/N) 0.495-4.995MHz 1.3µV 5.000–29.995MHz 0.56μV 118.000–136.000MHz 0.5μV 222.000-229.995MHz 0.79µV 320.000-329.995MHz 1µV Selectivity More than 15kHz/-9dB (except WFM) Less than 30kHz/-60dB

(half IE: 50dB IE: 40dB) More than 60dB (half IF : 50dB) 430MHz More than 50dB (IF: 60dB) • Audio output power : 200mW typ. at 10% distortion/8Ω load (at 25°C)

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

Supplied accessories (*depending on version)

 Battery pack (BP-217) ● Wall charger* (BC-110DR) Antenna (FA-S6270D) Swivel belt clip (MB-83)

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

OPTIONS

BATTERY PACK AND CASE RP-216

R6 (AA) batteries \times 2



	Y PACKS CASE	BP-216	BP-217
OUTPUT	POWER	0.1W typ.	5.0W typ.
BATTERY	50MHz	-	6hours
LIFE	144/430MHz	-	5hours

Battery life is approx. time; (Tx high: Rx: Stand-by=1: 1: 8)



Rapidly charges battery pack BP-217. Charging time (approx.): 2.5 hours.



Allows you to operate the transceiver with 11V DC output through a cigarette lighter socket (12V). The connected battery pack is charged simultaneously.



Helps protect the transceiver from scratches, etc. Fits any battery pack.



HM-46 : Slim dimensions. Equipped with an earphone jack and transmit indicator. HM-75A: Allows you to remotely select operating channels, etc., according to cloning HM-131 : Compact and durable body. Equipped with an earphone jack and a revolving clip.



For hands-free operation. Includes VOX, PTT and "one-touch" PTT with a time-out



Prevents accidental dropping from your belt. Same as supplied.

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



Provides clear audio in noisy environments.

Count on us!



Allows you to connect a BNC-type antenna.



Regularly charges battery packs. The same as supplied with some versions

CS-T90A CLONING SOFTWARE + OPC-478 CLONING CABLE Provides quick and easy editing of memory channels, memory names and set mode contents, for local repeater frequencies, etc.

OPC-474 CLONING CABLE Used for handheld-to-handheld data cloning

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