O ICOM

IC-E90

Surprisingly compact, full featured tri-bander with wideband receiver

5 Watts on 50MHz, 144MHz, and 430MHz

| Wideband receiver | 495kHz–999.990MHz!

555 alphanumeric memory channels with Icom's **NEW DMS (Dynamic Memory Scan)** technology!



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							
 Frequence 	y coverag	(Unit: MHz)					
Version	50MHz	144MHz	430MHz	Receive			
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	144–146					
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) Power supply : 5.5 to 11V DC or specified battery pack Current drain (at 8.0V DC): Tx High (5.0W) 2.0A typ. Rx Rated audio Standby 200M typ. Power saved 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) 							

• Output power (8.0V DC): High 5W typ. Low 0.5W typ. • Spurious emissions : Less than -60dB : ±5.0kHz Max. freq. deviation • Ext. MIC connector : 3-conductor 2.5(d) mm/2kΩ RECEIVER Receive system : Double-conversion superheterodyne Intermediate freq. : 1st 69.45MHz (FM/AM)

TRANSMITTER

	13.35MHz (WFM)					
	2nd	450kHz				
 Sensitivity* (typ.;except spurious points): 						
FM	1.625-	-4.995MHz	0.4µV			
(at 12dB SINAD)	5.000-	-49.995MHz	0.18µV			
	50.000	–54.000MHz	0.16µV			
	54.005	5–143.995MHz	0.18µV			
	144.00	00-148.000MHz	0.16µV			
	148.00)5-221.995MHz	0.4µV			
	222.00	0-225.000MHz	0.32µV			
	225.00)5-246.995MHz	0.4µV			
	247.00	0-429.995MHz	0.32µV			
	430.00	0-450.000MHz	0.16µV			
	450.00	05-832.990MHz	0.32µV			
	833.00	0-999.990MHz	1µV			

WFM	40,000,400,000,411-	4				
	40.000–108.000MHz	1µV				
(at 12dB SINAD)	175.000–221.995MHz	1.8µV				
	470.000–770.000MHz	3.2µV				
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					
 Spurious and image rejection ratio: 						
50MHz	More than 60dB					
	(half IF: 50dB, IF : 40dB)					
144MHz	More than 60dB (half IF	: 50dB)				
430MHz	More than 50dB (IF : 60dB)					
 Audio output power (at 25°C) 	: 200mW typ. at 10% distor	tion/8Ω load				
 Ext. speaker connector : 2-conductor 3.5(d) mm/8Ω 						

IC-E9

Supplied accessories (*depending on version) Battery pack (BP-217) Wall charger* (BC-110DR) Swivel belt clip (MB-83) Antenna (FA-S6270D)

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

OPTIONS





LC-152A

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



"one-touch" PTT with a time-out timer.

CS-T90A CLONING SOFTWARE + OPC-478 CLONING CABLE Provides guick 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 clonina.

Provides clear audio in noisy vour lapel. 1-1-32, Kamiminami, Hirano-ku, Osaka 547-0003, Japan Phone: 06 6793 5302

BNC-type antenna



Allows you to connect a



Regularly charges battery packs. The same as sup plied with some versions

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plied.

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Prevents accidental dropping

from your belt. Same as sup-

environments

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Icom Inc. (Japan), is an ISO9001 certification acquired company.

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A light weight earphone-mic has a PTT switch that clips to

Fax: 06 6793 0013 URL: http://www.icom.co.jp/world/index.html

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