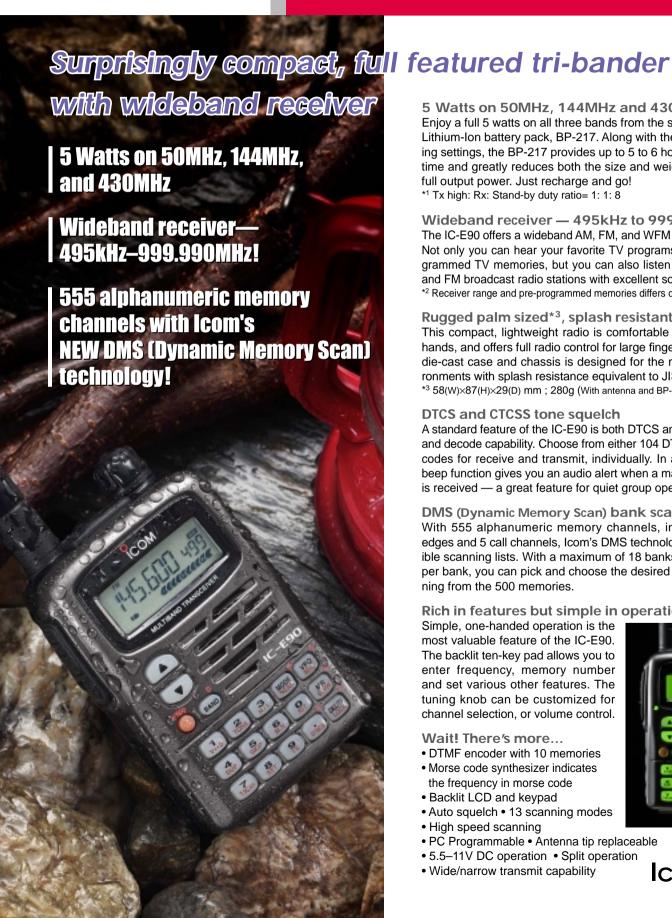
ICOM

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.

IC-E9

SPECIFICATIONS

GENERAL

Frequency coverage:				(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	430-440	144-146, 430-440
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): 2 0A tvn

High (5.0W) Rated audio 220mA typ. Standby Power saved 100mA typ. 65mA typ. (duty=1:4)

: 5, 6.25, 8.33, 9, 10, 12.5, 15, 20, 25, 30, 50, 100, 200 Tuning steps (kHz)

Antenna impedance : 50Ω (SMA)

: 58(W)×87(H)×29(D) mm Dimensions

(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 : ±5.0kHz Max. freq. deviation

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

RECEIVER

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

13.35MHz (WFM) 450kHz

Sensitivity* (typ.;except spurious points):

1.625-4.995MHz 0.4µV 5.000-49.995MHz (at 12dB SINAD) 0.18uV 50.000–54.000MHz 54.005–143.995MHz 0.16μV 0.18μV 0.16µV 144.000-148.000MHz 148.005-221.995MHz 0.4µV 222.000–225.000MHz 225.005–246.995MHz 0.32µV 0.4uV

247 000-429 995MHz 0.32uV 430.000–450.000MHz 0.16µV 0.32μV 1μV 450 005_832 QQ0MHz 833.000-999.990MHz

WFM 40 000-108 000MHz 1µV 40.000–108.000Nm2 1μν 175.000–221.995MHz 1.8μV 470.000–770.000MHz 3.2μV 0.495–4.995MHz 1.3μV (at 12dB SINAD) AM (at 10dB S/N) 0.56μV 0.5μV 5 000-29 995MHz 118.000–23.335M12 222.000-229.995MHz 0.79uV 320.000–329.995MHz 1µV

 Selectivity More than 15kHz/-9dB Less than 30kHz/–60dB (except WFM)

(half IF: 50dB, IF: 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/8Ω

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

BP-216 R6 (AA) batteries × 2 Li-lon 7.4V/1300mAh

AND CASE BP-216 B	P-217
OUTPUT POWER 0.1W typ. 5.0)W typ.
BATTERY 50MHz - 6	hours
LIFE 144/430MHz – 5	hours

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

BC-139 DESKTOP CHARGER



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

CP-19E CIGARETTE LIGHTER CABLE WITH NOISE FILTER

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 lack 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



Flexible boom microphone and rotating earpad with a spring earhook. Use with the VS-1.



Allows you hands-free operation. Use with the HS-94.



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

peater frequencies, etc.



Prevents accidental dropping from your belt. Same as sup



Provides clear audio in noisy



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



Allows you to connect a BNC-type antenna



Regularly charges battery plied 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 re-

OPC-474 CLONING CABLE Used for handheld-to-handheld data clonina.

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