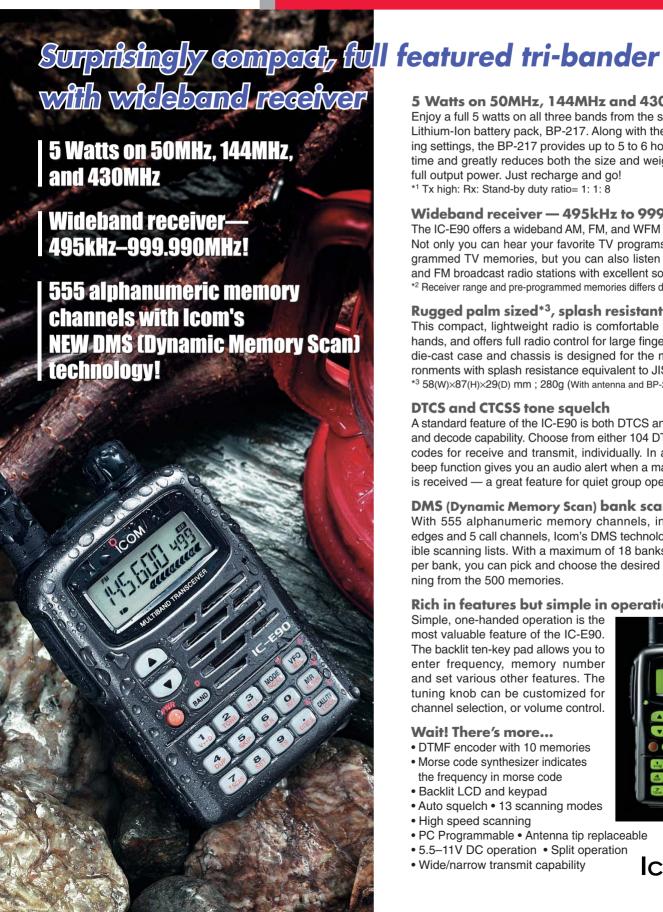
ICOM

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

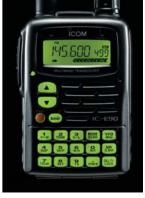
With 555 alphanumeric memory channels, including 50 band edges and 5 call channels, Icom's DMS technology gives you flexible scanning lists. With a maximum of 18 banks or 100 channels per bank, you can pick and choose the desired channel for scanning from the 500 memories.

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

| • Frequer | ncy coveraç | (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 |

GENERAL

• 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) : 58(W)×87(H)×29(D) mm Dimensions

(projections not included)

 Weight (approx.) : 280g (with BP-217 and antenna)

TRANSMITTER

Low 0.5W typ. • Output power (8.0V DC): High 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 0.16uV 54.005-143.995MHz 0.18µV 0.16μV 0.4μV 144 000-148 000MHz 148.005–209.995MHz 210.000-225.000MHz 1.0µV 340.000-429.995MHz 0.32µV 430 000-450 000MHz 0.16µV 450.005–832.990MHz 0.32μV

1uV

833.000-999.990MHz

WEM 40 000-108 000MHz 1µV 175.000–221.995MHz 1.8μV 470.000–770.000MHz 3.2μV (at 12dB SINAD) 0.495-4.995MHz AM (at 10dB S/N) 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)

(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)

• Audio output power : 200mW typ. at 10% distortion/8Ω load

More than 50dB (IF: 60dB)

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

OPTIONS

BATTERY PACK AND CASE BP-216 **BP-217**





| | 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.



430MHz

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.

HM-166: Lightweight durable lapel-microphone with a earphone.

HS-85 HEAD SET

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



Prevents accidental dropping from your belt. Same as supplied.



Provides clear audio in noisy environments.



Allows you to connect a BNC-type antenna.



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

CS-TODA 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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