

ICOM

FM TRANSCEIVER

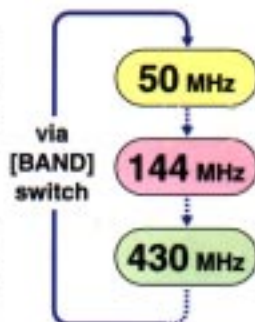
IC-T8A (U.S.A. version)

IC-T8E (Europe version)

The worlds smallest full-featured tri-band transceiver.

Switchable tri-bander

Three band operation, 144, 430(440) and 50 MHz bands, is possible one band at a time. Simply push the "BAND" switch to select the active band—uniquely simple for 3-band operation.



Compact body

Measuring only 58(W) × 107(H) × 28.5(D) mm*, the IC-T8A/E has the dimensions of a single band handheld and yet offers operation on 3 bands.

*with BP-198/199; 2⁹/₃₂(W) × 4⁷/₃₂(H) × 1¹/₈(D) in

Ample RF output power

A powerful 5 W* of RF output is available for all operating bands—50*, 144 and 430/440 MHz.

*13.5 V DC; 50 MHz band is receive only for Europe/Italy versions.

Rugged construction, meets MIL-STD 810

Conforms to the demanding MIL-STD requirements for shock (MIL 810 C, D, E) and vibration (MIL 810 C, D, E).

Water-resistant* construction

No need to worry when the weather turns for the worse. The IC-T8A/E is water-resistant* and can be safely operated under wet conditions.

*Meets grade 4 JIS water-protection specifications.

Tone squelch with pocket beep

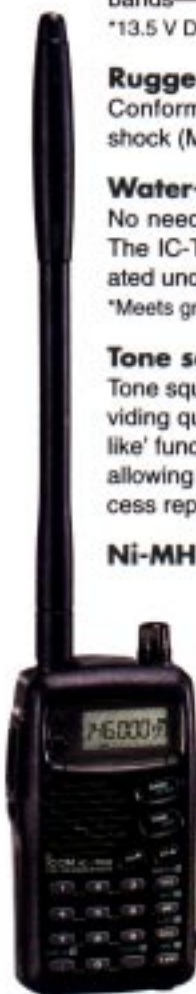
Tone squelch and pocket beep functions are standard, providing quiet stand-by. Pocket beep also provides a 'pager-like' function. In addition, a tone scan function is standard, allowing you to determine subaudible tones required to access repeaters.

Ni-MH battery standard

The IC-T8A/E comes with a Ni-MH battery pack providing longer operating times than comparable Ni-Cd battery packs.

Other features

- PC programmable (optional cloning software and cable are required)
- LCD backlight with timer
- DTMF encoder with 9 DTMF memories
- Mic. simple remote control function is available (optional HM-75A is required)
- Narrow and wide FM capability and AM receive
- Built-in guide function and more...



Meets
MIL-STD 810

Icom Inc.

SPECIFICATIONS

GENERAL

• Frequency coverage: (unit: MHz)

Version	50 MHz band	144 MHz band	430/440 MHz band
USA	50-54	Tx: 140-150" Rx: 118-174"	Tx: 430-450" Rx: 400-470"
Europe	50-52 (Rx only)	144-146	430-440
Italy	50-52 (Rx only)	136-174"	Tx: 430-440 Rx: 400-470"
Asia	50-54	Tx: 140-150" Rx: 118-174"	430-440

"Guaranteed range: 144-148 MHz

"Guaranteed range: 430-440 MHz

"Guaranteed range: 440-450 MHz

• Mode : FM, WFM (Rx only), AM (118-136; Rx only)

• No. of memory ch. : 123 (incl. 10 scan edges and 1 call for each band)

• Frequency stability : ±5 ppm (0°C to +50°C)

• Operating temperature range: transceiver only -10°C to +60°C; +14°F to +140°F w/Ni-MH battery 0°C to +30°C; +32°F to +122°F

- Power supply requirement: 4.5-16 V DC (negative ground)
- Current drain (at 13.5 V DC):
 - Tx at 5 W : 1.4 A (typical)
 - at 0.5 W : 0.6 A (typical)
 - Rx max. audio standby : 200 mA (typical)
 - power saved : 70 mA (typical)
 - power saved : 30 mA (typical/1 : 8)
- Antenna connector : SMA (50 Ω)
- Dimensions (proj. not incl., w/BP-198/199) : 58(W)×107(H)×28.5(D) mm; 2 1/2(W)×4 1/2(H)×1 1/8(D) in
- Weight : 280g; 9.9 oz (with BP-199)

TRANSMITTER

- Output power : High 5 W (at 13.5 V DC) Low 0.5 W
- Modulation : Variable reactance frequency modulation
- Spurious emissions : Less than -60 dB
- Max. freq. deviation : ±5.0 kHz
- Ext. mic. connector : 3-conductor 2.5 (d) mm (1/8") ∅ 3/32

RECEIVER

- Receiver system : Double superheterodyne
- Intermediate freq. : 1st 41.85 MHz 2nd 450 kHz (except WFM)
- Sensitivity (at 12 dB SINAD) : Less than 0.18 μV (WFM) Less than 1.99 μV (WFM)
- Squelch sensitivity (at threshold) : Less than 0.18 μV (WFM) Less than 5.6 μV (WFM)
- Selectivity : Less than 15 kHz/-6 dB More than 30 kHz/-60 dB
- Spurious response (except IF and 2nd image frequency): 50, 144 MHz bands -80 dB (typical) 430/440 MHz band -50 dB (typical) (-50 dB for all bands at 1% IF image frequency)
- Audio output power (at 13.5 V DC) load : 250 mW typical with an 8 Ω
- Ext. SP connector : 3-conductor 3.5 (d) mm (1/8") ∅ 8 Ω

Supplied accessories

- Battery back* • Antenna • Belt clip
- Wall charger* *depending on version

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

OPTIONS

BATTERY PACKS AND CASE

BP-197 R6 (AA) batteries×3
BP-198 Ni-MH 4.8 V/700 mAh
BP-199 Ni-MH 6.0 V/700 mAh
BP-200 Ni-MH 9.6 V/680 mAh



Approx. output powers and operating times (Tx (high); Rx Stand-by×0.5)

BATTERY PACK	OUTPUT POWER	BATTERY LIFE
BP-198	1.3 W typical	6 hrs.
BP-199	2 W typical	5 hrs.
BP-200	4.5 W typical	4 hrs.

LC-147 CARRYING CASE



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

H5-51 HEAD SET



Allows you hands-free operation. Includes VOK, PTT, "one-touch PTT" (TOT).

BC-119 DESKTOP CHARGER + AD-87 DESKTOP CHARGER ADAPTER



Rapidly charges battery packs BP-198, BP-199 or BP-200. Cannot be used to charge Ni-Cd or Ni-MH cells installed in the BP-197. Both AC and DC can be used to power the charger. The AD-87 must be purchased separately. Some BC-119 versions require the AD-88 additionally.

SPEAKER-MICROPHONES



HM-46 : Compact and lightweight. Equipped with an earphone jack.
 HM-54 : Durable, full-sized speaker-microphone.
 HM-75A: Allows you to remotely select memory channels operating frequency, etc. Simple remote and normal remote are selectable.

CP-12L CIGARETTE LIGHTER CABLE WITH NOISE FILTER OPC-254L DC POWER CABLE



Allows you to operate the transceiver through a 12 V cigarette lighter socket or 4.5 to 16 V external DC power supply with the CP-12L or OPC-254L, respectively. The connected battery pack is charged simultaneously (12 to 16 V DC necessary).

SP-13 EARPHONE



Provides clear audio in noisy environments.

BC-110A/D/V WALL CHARGER
 Regularly charges battery packs. The same as supplied with some versions.

CS-T8 CLONING SOFTWARE + OPC-478 CLONING CABLE
 Provides quick and easy programming of items, including memory channels, memory names and set mode contents, for local repeater frequencies, etc., via an IBM compatible PC.

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

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