

ICOM

DUAL BAND FM TRANSCEIVER

IC-T7A (U.S.A. version)

IC-T7E (Europe version)

Dual band features at single band size and price

This is NOT a single band handheld. It may look like one, and in fact, is smaller than many. However, the IC-T7A/E is a dual band handheld! Icom's advanced technology has enabled the use of a single PA power module (MRF-5007) for both VHF & UHF. Additional miniaturization is achieved through single circuits for the receiver IF, PLL and transmitter drivers.



Compact

With slim dimensions of 57(W) x 122(H) x 29(D) mm*, including a battery pack, this handheld fits comfortably in the palm of your hand—unlike many other dual band handhelds. Carry it around in your shirt pocket or a small bag.

* 2¼(W) x 4⅜(H) x 1¼(D) in.

Easy-to-use

The IC-T7A/E features a streamlined function set, while the keypad is well spaced and designed for **single push action**: push momentarily for the primary function; push for 1 sec. for the secondary function. Additional items for operating simplicity include a single volume control knob, a "thumb touch" lock switch and a large function display. And, for the ultimate in simple operation, select **channel indication mode**: only channel numbers are displayed.

Tone squelch standard

A new separate CTCSS tone encoder and CTCSS tone decoder/decoder are standard and provide 50 independently programmable tone frequencies for repeater and tone squelch use, respectively. Additionally, a tone scan function allows you to easily find the subaudible tone needed to access a repeater or decode a tone squelch signal.

And more...

- Up to 4 W of output on VHF and up to 3 W of output on UHF
- Mic. simple remote control function (Optional HM-75A is required.)
- Full/programmable band scans and all/band select memory scans provide versatile signal searching
- Auto power OFF function
- Auto repeater function (U.S.A. version only)
- 9 DTMF (16 digits each) memories for auto dialing
- Auto power saver function with selectable duty rate
- LCD backlighting for easy night operation
- Optional cloning software is available for pre-programming memory channels, set mode contents, etc.
- An antenna, battery pack* and battery charger* are included

*Some versions include a battery case instead of these.



▲ U.S.A. version

▲ Other version

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SPECIFICATIONS

GENERAL

• Frequency coverage : (Unit: MHz)

VERSION	VHF	UHF
U.S.A.	Tx: 144-148 Rx: 118-174*1	Tx: 440-450 Rx: 400-470*2
Europe	144-148	430-440
Asia	Tx: 144-148 Rx: 118-174*1	430-440
Italy	Tx: 144-148 Rx: 136-174*1	Tx: 430-440 Rx: 400-470*3

Guaranteed range (MHz): *144-148, **440-450, **430-440

- Mode : FM (F3E)
- Acceptable power supply : 4.5 to 16 V DC
- Number of memory : 70 (60 reg., 4 pr. scan channels edges + 1 callband)
- Tuning steps (kHz) : 5, 10, 12.5, 15, 20, 25, 30 or 50
- Usable temperature range : -10°C to +60°C (+14°F to +140°F)
- Antenna connector : BNC (50 Ω)

• Current drain (at 13.5 V, typical) :

Tx	High	VHF	UHF
	Low	1.2 A	1.3 A
Rx	Rated audio	600 mA	600 mA
	Power saved	140 mA	150 mA
		16 mA	19 mA

• Dimensions (with BP-180) : 57(W) x 122(H) x 29(D) mm
2 1/4(W) x 4 7/8(H) x 1 1/8(D) in

• Weight (w/BP-180 and antenna) : 320 g (11.3 oz)

TRANSMITTER

- Output power (at 13.5 V) :
VHF : 4 W or 500 mW
UHF : 3 W or 500 mW
- Modulation system : Variable reactance frequency modulation
- Max. frequency deviation : ±5.0 kHz
- Spurious emissions : Less than -60 dB
- Microphone impedance : 2 kΩ

RECEIVER

- Receive system : Double conversion superheterodyne
- Intermediate frequencies : 1st 45.15 MHz
2nd 450 kHz
- Sensitivity (typical) : Less than 0.16 μV (for 12 dB SINAD)
- Squelch sensitivity : Less than 0.16 μV
- Spurious and image rejection ratio :
VHF : More than 60 dB
UHF : More than 50 dB (Except 1/3 of image freq.)
- Audio output power (at 13.5 V) : More than 250 mW (10% distortion with an 8 Ω load)
- Audio output impedance : 8 Ω

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

OPTIONS

BATTERY PACKS AND CASE

BP-171
4.8 V, 700 mAh

BP-172
4.8 V, 950 mAh

BP-173
9.6 V, 650 mAh

BP-180
7.2 V, 600 mAh

BP-170
R6 (AA)
batteries x4



Approx. output powers and operating times (at 25°C, Tx (high power), Rx (Standby) = 1, 1.0)

	BP-171	BP-172	BP-173	BP-180
VHF	1.2 W/6.3 h	1.2 W/8.6 h	4.0 W/5.5 h	3.0 W/4.0 h
UHF	1.0 W/6.5 h	1.0 W/8.8 h	2.8 W/5.7 h	1.6 W/3.9 h

SPEAKER-MICROPHONES



HM-46



HM-54



HM-75A

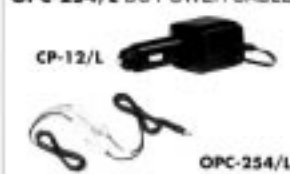
HM-46: Compact/lightweight. Equipped with an earphone jack.
HM-54: Durable full-sized speaker-microphone.
HM-75A: Allows you to remotely select memory channels, operating frequency, etc. Simple remote and normal remote are selectable.

BC-119 DESKTOP CHARGER + AD-56 DESKTOP CHARGER ADAPTER



Rapidly charges battery packs BP-171, BP-172, BP-173 or BP-180. Both AC and DC can be used to power the charger. Some BC-119 versions require the AD-75 additionally.

CP-12/L CIGARETTE LIGHTER CABLE WITH NOISE FILTER OPC-254/L 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-12/L or OPC-254/L, respectively. The connected battery pack is charged simultaneously (12 to 16 V DC necessary).

MB-30 MOBILE MOUNTING BRACKET



For mounting the transceiver on the inside door panel of a vehicle.

HS-85 HEADSET



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

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-T7 CLONING SOFTWARE

- **OPC-478 CLONING CABLE**
Provides quick and easy programming of items, including memory channels and set mode contents, for local repeater frequencies, etc.

LC-136 CARRYING CASE

For use with the BP-170, BP-171 or BP-172.

LC-137 CARRYING CASE

For use with the BP-173 or BP-180.

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Count on us!

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