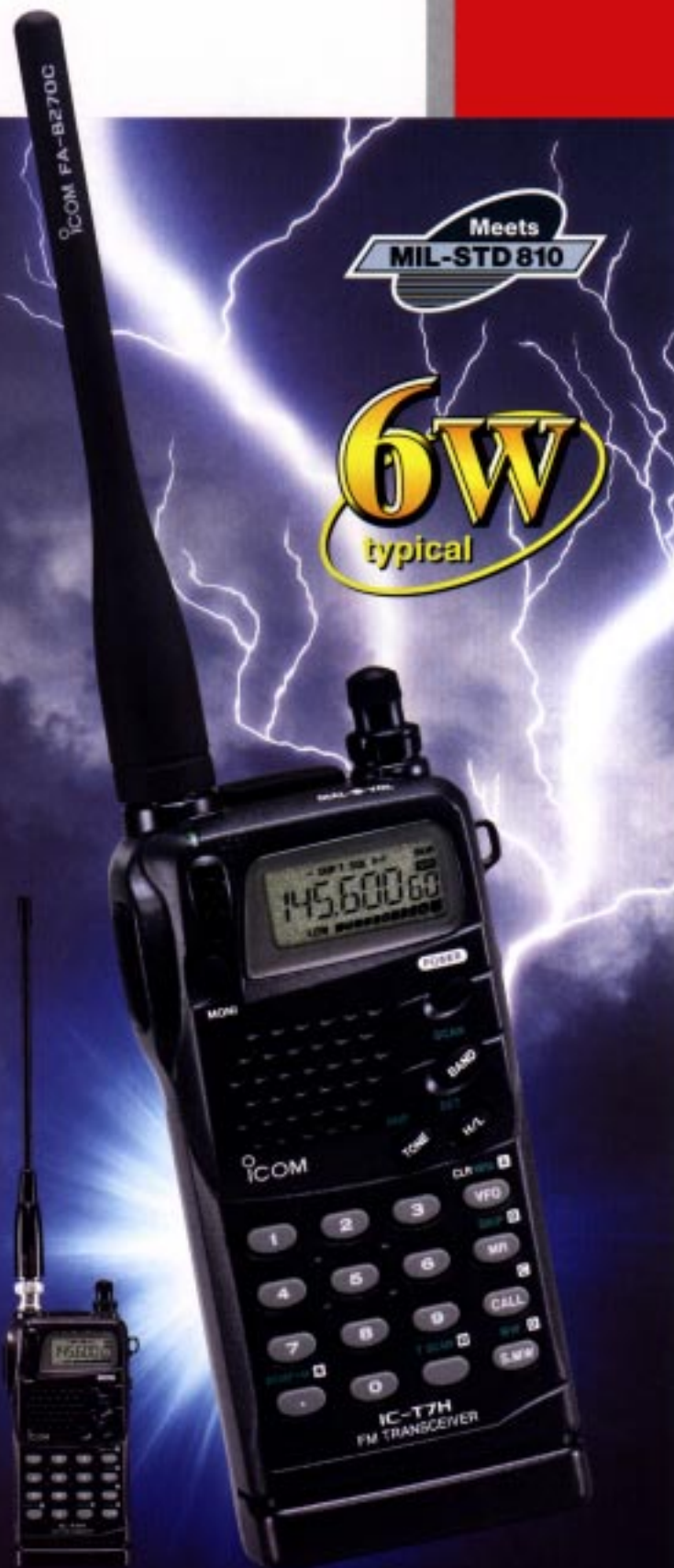


ICOM

DUAL BAND FM TRANSCEIVER

IC-T7H



Meets
MIL-STD 810

6W
typical

Powerful output and ample receive audio

A powerful 6 W (typical) power amplifier circuit provides superior transmit output on both the VHF and UHF bands when 13.5 V DC is supplied. When the BP-173 is connected, the IC-T7H provides 5 W (typical) of output. In addition, a full 500 mW (typical) of AF is output from the transceiver's speaker—audio that's easy to copy even in noisy environments.

Meets strict MIL standards, yet is compact

The IC-T7H is durably constructed for reliable operation you can count on in the most demanding environments. In fact, it meets MIL-STD requirements and strict environmental standards for shock and vibration (MIL 810C, D, E). And its compact dimensions of 57(W) × 122(H) × 29(D) mm* mean you can comfortably carry it around in a small bag or even your shirt pocket!

*2¼(W) × 4¾(H) × 1¼(D) in.

Simple operation

A simple band switching system, single push action and thumb-touch lock switches make operation straight-forward and convenient—even for beginners. And, priority watch allows you to monitor a specified frequency: you can monitor a frequency on the same band or a different band, similar to dualwatch on other transceivers.



Built-in tone squelch system

A separate CTCSS tone encoder and CTCSS tone decoder are standard and provide 50 independently programmable tone frequencies (38 standard EIA tones and 12 others for even quieter standby) for repeater and tone squelch use, respectively. In addition, tone scan and pocket beep functions are available. The tone scan function allows you to easily find the subaudible tone needed to access a repeater or to decode a tone squelch signal; the pocket beep function acts like a 'common pager' and alerts you when a matched CTCSS tone frequency is received.

Other features

- Large, easy-to-push PTT switch
- Simple, microphone remote control with the optional HM-75A
- Auto power saver with selectable duty
- Multiple scans provide versatile signal searching
- Auto power off function
- Auto repeater function (USA version only)
- LCD backlight with timer
- 9 DTMF memories
- Channel indication
- Optional cloning software

▲ U.S.A. version

▲ Other versions

Icom Inc.

SPECIFICATIONS

GENERAL

- Frequency coverage : (Unit: MHz)

Version	Transmit	Receive
USA	144-148	118-174 ^{*1}
	430-450 ^{*2}	400-470 ^{*2}
Europe, UK	144-146	144-146
	430-440	430-440
Italy	144-148 ^{*1}	136-174 ^{*1}
	430-440	400-470 ^{*2}
Asia	144-148	118-174 ^{*1}
	430-440	430-440

^{*1}guaranteed 144-148 MHz only

^{*2}guaranteed 440-450 MHz only

^{*3}guaranteed 430-440 MHz only

- Mode : FM, AM (118-136 MHz; Rx only)
- Power supply : 4.5 to 16 V DC or specified battery pack
- No. of memory ch. : 70 (60 reg., 8 scan edges, 2 call)
- Current drain (VHF/UHF, typical):
Tx (at 13.5 V DC) : 6.0 W 1.6 A
at 0.5 W 0.6 A/0.7 A
Rx (at 9.6 V DC) : rated audio 180 mA/190 mA
power saved 16 mA/18 mA

- Tuning steps (kHz) : 5, 10, 12.5, 15, 20, 25, 30, 50
- Usable temp. range : -10°C to +60°C; (+14°F to +140°F)
- Antenna connector : BNC (50 Ω)
- Dimensions (projections not included):
w/BP-170/171/172 : 57(W)×110(H)×27(D) mm
2¹/₄(W)×4¹/₂(H)×1¹/₂(D) in
w/BP-173/180 : 57(W)×122(H)×29(D) mm
2¹/₄(W)×4¹/₂(H)×1¹/₂(D) in
- Weight (w/ant.) : 285 g; 10 oz (w/BP-170)
305 g; 10.8 oz (w/BP-171)
320 g; 11.3 oz (w/BP-180)
405 g; 14.3 oz (w/BP-173)

TRANSMITTER

- Modulation system : Variable reactance
- Output power : 6.0 W typ. (High)
(at 13.5 V DC) 0.5 W typ. (Low)
- Spurious emissions : Less than -60 dB
- Max. freq. deviation : ±5 kHz
- Ext. MIC connector : 3-conductor 2.5 (d) mm
(1/8")/2 kΩ

RECEIVER

- Receive system : Double conversion superheterodyne
- Intermediate freq. : 1st 45.15 MHz
2nd 450 kHz
- Sensitivity : 0.18 μV (at 12 dB SINAD)
- SQL sensitivity : Less than 0.18 μV
- Selectivity : More than 15 kHz/-9 dB
Less than 30 kHz/-50 dB
- Spurious and image rejection ratio:
More than 60 dB (VHF)
More than 50 dB
(UHF and 2nd image)
- Audio output power : 500 mW typ. at 10% distortion
(at 13.5 V DC) with an 8Ω load
- Ext. SP connector : 3-conductor 3.5 (d) mm
(1/8")/8 Ω

Supplied accessories

- Battery pack/case* • Wall charger*
• Antenna • Belt clip *depending on version

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

OPTIONS

BATTERY PACKS AND CASE

BP-171

4.8 V/700 mAh
BP-172
4.8 V/950 mAh



BP-173

9.6 V/850 mAh
BP-180
7.2 V/800 mAh



BP-170

R6 (AA)
batteries x 4



Approx. output powers and operating times
(At 25°C; Tx (high); Rx Stand-by=1:1.0)

	BP-171	BP-172	BP-173	BP-180
VHF	1.3 W/6.5 h	1.3 W/8.4 h	5.7 W/3.5 h	3.3 W/3.7 h
UHF	0.7 W/6.5 h	0.7 W/8.8 h	3.7 W/3.4 h	2.0 W/3.7 h

SPEAKER-MICROPHONES



HM-46

HM-54

HM-75A

- 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.

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

BC-119

AD-56

Rapidly charges battery packs BP-171, BP-172, BP-173 or BP-180. Both AC (using an AC adapter) and DC can be used to power the charger. The AD-56 must be purchased separately.

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

CP-12/L

OPC-254/L

Allows you to operate the transceiver through a 12 V cigarette light 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 required).

MB-30 MOBILE
MOUNTING BRACKET

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

HS-85 HEAD SET



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

SP-13 EARPHONE



Provides clear audio in noisy environments.

- BC-110A/C/D/V WALL CHARGER
Standard wall charger. The same as supplied with some versions.
- CS-17 CLONING SOFTWARE
+ OPC-478 CLONING CABLE
Provides quick and easy programming of memory channels, memory names and set mode contents, for local repeater frequencies, etc., via an IBM compatible PC.
- LC-136 CARRYING CASE
For use with the BP-170/171/172.
- LC-137 CARRYING CASE
For use with the BP-173/180.
- OPC-474 CLONING CABLE
Used for handheld-to-handheld data cloning.

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