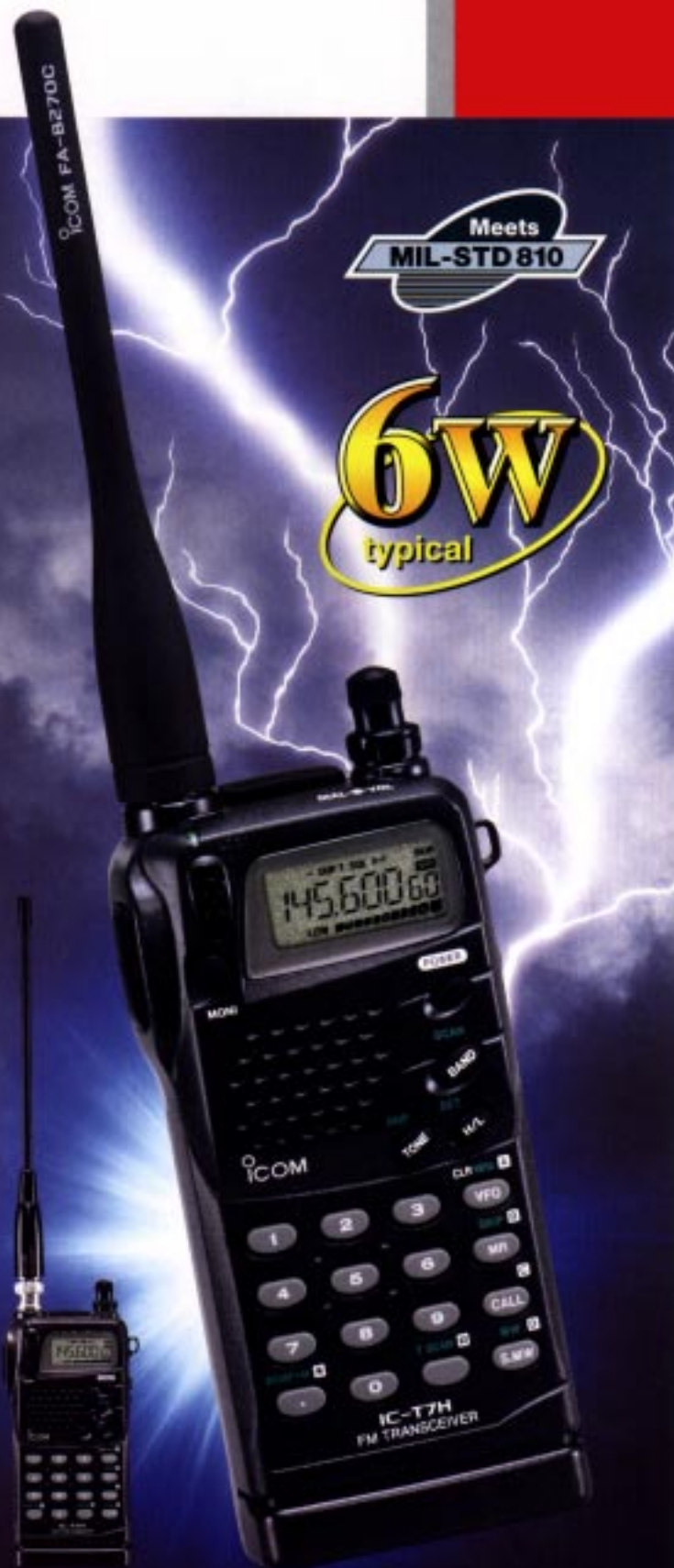


ICOM

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	144-148 430-450 <sup>2)</sup>	118-174 <sup>1)</sup> 400-470 <sup>2)</sup>
Europe, UK	144-146 430-440	144-146 430-440
Italy	144-148 <sup>1)</sup> 430-440	136-174 <sup>1)</sup> 400-470 <sup>2)</sup>
Asia	144-148 430-440	118-174 <sup>1)</sup> 430-440

<sup>1)</sup>guaranteed 144-148 MHz only  
<sup>2)</sup>guaranteed 440-450 MHz only  
<sup>3)</sup>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) at 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
- Useable 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  
 2 1/4(W)×4 1/2(H)×1 1/2(D) in  
 w/BP-173/180 57(W)×122(H)×29(D) mm  
 2 1/4(W)×4 7/8(H)×1 1/2(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**



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 : 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**



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**



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.

Icom Inc. 6-9-16, Kamihigashi, Hirano-ku, Osaka 547-0002, Japan Phone: 06 793 5302 Fax: 06 793 0013

Count on us!

**Icom America Inc.**

<Corporate Headquarters>  
 2380 119th Avenue N.E., Bellevue, WA 98004, U.S.A.  
 Phone: (425) 454-8155 Fax: (425) 454-1509  
 URL : http://www.icomamerica.com

<Customer Service>  
 Phone: (425) 454-7610

**Icom Canada**

A Division of Icom America Inc.  
 3071 45 Road, Unit 9, Richmond, B.C., V6X 2T4, Canada  
 Phone: (604) 273-7400 Fax: (604) 273-1900

**Icom (Australia) Pty. Ltd.**

A.C.N. 066 082 575  
 290-294 Albert Street, Brunswick, Victoria, 3055, Australia  
 Phone: 03 9387 0666 Fax: 03 9387 0022

**Asia Icom Inc.**

6F No. 68, Sec. 1 Cheng-Teh Road, Taipei, Taiwan R.O.C.  
 Phone: (02) 2559 1899 Fax: (02) 2559 1874

**Icom (Europe) GmbH**

Communication Equipment  
 Himmelsgesler Str. 100, D-40225 Düsseldorf, Germany  
 Phone: 0211 346047 Fax: 0211 329639  
 URL : http://www.icomeurope.com

**Icom Telecomunicaciones s.l.**

"Edificio Can Castanyer" Ctra. Gracia a Manresa km. 14,750  
 08190 Sant Cugat Del Valles Barcelona, SPAIN  
 Phone: (93) 589 45 82 Fax: (93) 589 04 46  
 E-mail : icom@leida.com

**Icom (UK) Ltd.**

Unit 9, Sea St., Herne Bay, Kent, CT8 8LD, U.K.  
 Phone: 01227 741741 Fax: 01227 741742  
 URL : http://www.icomuk.co.uk

**Icom France S.a**

Zac de la Plaine, Rue Brindejonc des Moutins  
 BP 5804, 31505 Toulouse Cedex, France  
 Phone: 991 36 03 03 Fax: 991 36 03 00  
 URL : http://www.icom-france.com

Your local distributor/dealer:

**Point electronics**

A- 1060 Wien, Stumpergasse 41- 43  
 Tel.: +43/ 1/ 597 08 80/ 0 FAX: DW 40  
 www.point.at mail@point.at