



DUAL BAND FM TRANSCEIVER / AA Alkaline Power

# IC-T7HSPORT



## Comfortably sized, with ample receive audio

Extra power when you want it, or opt for more power with optional Ni-Cd battery packs—up to 6 watts! Take this go-anywhere sized dual bander on the road and grab more power from any convenience store, grocery store, etc. A full 500 mW (typical) of AF is output from the transceiver's speaker-audio that's easy to copy even in noisy environments.

## Tested to strict MIL standards, yet is compact

The IC-T7HSPORT is durably constructed for reliable operation you can count on in the most demanding environments. In fact, it has been tested to and passed the 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)×4<sup>13</sup>/<sub>16</sub>(H)×1<sup>1</sup>/<sub>8</sub>(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. Additionally, channel indication mode simplifies operation even further and is great for when operating in a group situation.



## Built-in tone squelch system

A separate CTCSS tone encoder and CTCSS tone encoder/decoder are standard (38 standard EIA tones and 12 others for even quieter standby). Full programmable band scans and all/band select memory scans provide versatile signal searching. 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

Includes: BP-170  
AA (LR6) batteries × 4



Icom America Inc.

**SPECIFICATIONS**

**GENERAL**

• Frequency coverage: (Unit: MHz)

Version	Transmit	Receive
USA	144-148 430-450*2	118-174*1 400-470*2
Europe, UK	144-146 430-440	144-146 430-440
Italy	144-148*1 430-440	136-174*1 400-470*3
Asia	144-148 430-440	118-174*1 430-440

\*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)	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  
2¼(W)×4¼(H)×1¼(D) in  
w/BP-173/180 57(W)×122(H)×29(D) mm  
2¼(W)×4¼(H)×1½(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)

**RECEIVER**

- Receive system : Double conversion superheterodyne
- Intermediate frequencies : 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 (at 13.5 V DC) : 500 mW typ. at 10% distortion with an 8 Ω load
- Ext. SP connector : 3-conductor 3.5 (d) mm (1/8")/8 Ω

**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 (1/16")/2 kΩ

**Supplied accessories**

- Battery case
- Antenna
- Belt clip

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-180**  
7.2 V/600 mAh

**BP-170**  
AA (LR6) batteries x 4



Approx output powers and operating times (At 25°C; Tx (high) : Rx: Stand-by=1: 1: 8)

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

**SPEAKER-MICROPHONES**



▲HM-46

▲HM-75A

▲HM-131

HM-46 : Compact and lightweight. Equipped with an earphone jack.  
HM-75A: Allows you to remotely select memory channels operating frequency, etc. Simple remote and normal remote are selectable.  
HM-131 : Compact and durable body with a revolving clip.

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



▲BC-119N

▲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).

**BC-110A/C/D/V WALL CHARGER**



Standard wall charger. The same as supplied with some versions.

**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.

**CS-17 CLONING SOFTWARE (MS-DOS) + OPC-478 CLONING CABLE**  
Provides quick and easy programming of memory contents via a PC.  
**LC-136 CARRYING CASE**  
For use with the BP-170/BP-171/BP-172.  
**LC-137 CARRYING CASE**  
For use with the BP-173/BP-180.

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