

ICOM

144 MHz FM TRANSCEIVER

# IC-T2H



## *More than enough power...*

### **6 W\* of transmit power and 500 mW\* of audio output**

The IC-T2H provides a powerful 6 W\* of RF output power with the supplied Ni-Cd battery pack. More than enough for long distance communications. And on the receiving side a generous 500 mW\* of audio is emitted for clear reception even in noisy operating environments.

\*Typical at 9.6 V DC.

### **Commercial grade durability**

Built tough. The IC-T2H is designed and constructed to deliver reliable performance under demanding conditions.

### **Tone squelch standard**

The built-in tone squelch system provides quiet standby (the squelch only opens for calls directed to you) as well as pocket beep and tone scan functions. Pocket beep provides a method of keeping track of calls directed to you (like a 'common' pager) and tone scan allows you to detect subaudible tone frequencies that are needed to open a repeater, etc.

### **Easy operation with customizable keys**

Default key functions have been assigned with ease of operation in mind. However, eight keys on the keypad are customizable allowing you to assign functions to them other than the defaults. This can be performed via cloning or directly from the keypad.

### **DTMF encoder with memory channels**

A DTMF encoder with 5 DTMF memory channels is built-in—DTMF codes of up to 32 characters can be stored. And an automatic re-dial function provides simple operation for autopatching, etc.

### **Cloning capabilities**

Cloning between handhelds or between handheld and PC provide quick and easy transfer of settings. An OPC-474 CLONING CABLE is required for transceiver-to-transceiver cloning and an OPC-478 CLONING CABLE plus the CS-T2 CLONING SOFTWARE is required for PC-to-transceiver cloning.

### **Other outstanding functions**

- Guide function for quick reference to key functions
- LCD backlight with timer
- 40 memory channels available
- 2-step power saver function increase battery life
- Automatic repeater function (USA version only)
- Microphone simple remote control function (optional HM-75A required)
- Monitor function
- Lock function
- 10 weather channels (USA version only)
- ANI (Automatic Number Identification) function\*

\*Available for some versions only.

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## SPECIFICATIONS

## GENERAL

## • Frequency coverage:

Version	Transmit	Receive
USA	144-148 MHz	136-174 MHz*
Europe	144-148 MHz	144-148 MHz
Italy	144-148 MHz	136-174 MHz*
Asia, S. America	144-148 MHz	136-174 MHz*

\*Guaranteed range: 144-148 MHz

- Mode : FM
- No. of memory ch. : 43 (incl. 2 scan edges and 1 call)
- Frequency stability :  $\pm 10$  ppm (0°C to +50°C)
- Operating temperature range: -10°C to +60°C; +14°F to +140°F
- Power supply requirement: (negative ground) 9.6 V DC (supplied Ni-Cd cells)
- Current drain (at 9.6 V DC):
  - Tx at 6.0 W 1.6 A (typical)
  - at 1.0 W 0.7 A (typical)
  - Rx max. audio 210 mA (typical)
  - standby 80 mA (typical)
  - power saved 25 mA (typical) (1:4)
- Antenna connector : BNC (50  $\Omega$ )

- Dimensions : 58(W) $\times$ 140.5(H) $\times$ 32.3(D) mm; 2 $\frac{1}{2}$ "(W) $\times$ 5 $\frac{1}{2}$ "(H) $\times$ 1 $\frac{1}{2}$ "(D) in
- Weight (approx.) : 420g; 14.8 oz (w/ant. and battery)

## TRANSMITTER

- Output power : High 6.0 W (typical)  
Low 1.0 W (typical)
- Modulation : Variable reactance frequency modulation
- Spurious emissions : Less than -60 dB
- Max. freq. deviation :  $\pm 5.0$  kHz
- Ext. mic. connector : 3-conductor 2.5 (d) mm (1/16")  
/2 k $\Omega$

## RECEIVER

- Receiver system : Double conversion super-heterodyne
- Intermediate freq. : 1st 30.85 MHz  
2nd 450 kHz
- Sensitivity : 0.14  $\mu$ V (typ.; for 12 dB SINAD)
- Squelch sensitivity : 0.16  $\mu$ V (typ.; threshold)

- Selectivity : More than 15 kHz/-9 dB  
Less than 30 kHz/-60 dB
- Spurious and image rejection: 60 dB (typical)  
(More than -45 dB: half image point, except 2nd image)
- Audio output power : 500 mW typical with an 8  $\Omega$   
(at 9.6 V DC) load
- Ext. SP connector : 3-conductor 3.5 (d) mm (1/8")  
/8  $\Omega$

## Supplied accessories

- Battery case with Ni-Cd cells\* • 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-194

R6 (AA)  
batteries\*8\*

## BP-195

9.6 V/700 mAh



## BP-196

9.6 V/1050 mAh



\*Ni-Cd cells in BP-194 battery case must be purchased separately.  
Approx. output powers and operating times (Tx (high) : Rx (Stand-by) : 1 : 8)

BP-194 (w/Ni-Cd cells)	BP-195	BP-196
6.0 W/3.7 h	6.0 W/3.7 h	6.0 W/5.5 h

## LC-145 CARRYING CASE



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

## HS-51 HEAD SET



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

## BC-119 DESKTOP CHARGER + AD-81 DESKTOP CHARGER ADAPTER



Rapidly charges battery packs BP-195 or BP-196. Installed Ni-Cd cells cannot be charged via supplied BP-194 battery case. Both AC (using an AC adapter) and DC can be used to power the charger. The AD-81 must be purchased separately.

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

Allows you to charge the connected battery pack (13.5 to 16 V DC required). For charging ONLY—the transceiver cannot be simultaneously operated.

## SP-13 EARPHONE



Provides clear audio in noisy environments.

BC-110A/D/V WALL CHARGER  
Standard wall charger. The same as supplied with some versions.

CS-T2 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.

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

MB-68 BELT CLIP  
Attaches the transceiver to your belt. Same as supplied.

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Count on us!

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