



DUAL BAND FM TRANSCEIVER

# IC-T70A

## Rugged Workhorse Radio with Powerful Audio

*Impressive audio output volume, long-lasting power, plenty of memory channels, rugged construction, rich in analog features – the T70A offers practical 2m/70cm dual band operation and ruggedness, updated for today's ham radio enthusiasts.*

### 700mW loud audio

The IC-T70A uses a BTL (bridge-tied load) amplifier that doubles the audio output. The 36mm large speaker delivers 700mW of loud and intelligible audio\* even in noisy environments. \* Using with internal speaker.

### Long lasting battery life

Get 5W of power on VHF and UHF in a small, lightweight package. The BP-265 Li-ion battery offers 16/13.5 hours (VHF/UHF) of power on a single charge\*. And an optional AA alkaline battery case is ideal for long storage or quick back-up.

\* Typical operation. 5:5:90 duty cycle with auto power save ON.

### External DC power jack

An external DC power jack allows for operation and charge when used with an external DC power supply (10-16V DC).\*

\* The BP-265 cannot be charged using the external DC power jack.

### A total of 302 memory channels

With 302 alphanumeric memory channels, including 50 band edges and 2 call channels, the IC-T70A gives you flexible scanning lists. With a maximum of 26 memory banks\*, you can pick and choose the desired banks for scanning from the 250 memories.

\* Up to 100 channels per bank.

### Built-in CTCSS/DTCS

CTCSS and DTCS tone codes provide quiet stand-by and allow you to use tone-access repeaters. Pocket beep alerts you when a matching tone frequency is received. Tone scan detects the subaudible tone that is used for repeater access.

### Internal VOX function

The IC-T70A has an internal VOX (Voice Operated Transmit) function for convenient hands-free operation when used with a compatible optional headset and plug adapter cable. Also, the VOX level and VOX delay time are adjustable.

### IP54 and MIL-STD-810 rugged construction

Dust protection and water-resistance equivalent to IP54 provides reliable operation for practical outdoor operation. The IC-T70A tested to and passed MIL-STD-810 environmental tests.

### Other features

- WX channel and WX alert function
- Power save function • SMA type antenna connector
- Automatic repeater function
- TOT (time out timer) setting
- Repeater lockout and busy channel lockout
- PC programmable with optional CS-T70
- Transceiver-to-transceiver cloning (Optional)
- Direct keypad frequency entry
- 16 DTMF autodial memories
- Auto power off • LCD backlight
- Wide/narrow channel spacing



700mW Loud and Clear Audio



IP54 Dust Protection and Water Resistance



**SPECIFICATIONS**

**GENERAL**

- Frequency coverage : (unit: MHz)
 

Version	Transmit	Receive
USA	144-148, 420-450*1	136-174, 400-479*1
Export	136-174, 400-479*2	136-174, 400-479*2
- Guaranteed range \*1 144-148, 440-450MHz, \*2 144-148, 430-440MHz
- Type of emissions : F2D/F3E (FM)
- No. of memory channel: 302 (incl. 50 scan edges and 2 call)
- Operating temperature : -20°C to +60°C; -4°F to +140°F range (Radio only)
- Frequency stability : ±2.5ppm (-20°C to +60°C on the basis of 25°C)
- Power supply requirement : 7.2V DC (with BP-264)
  - External DC power 10-16V DC
  - Battery cells 6-10V DC
- Current drain (at 7.2V DC or 13.5V DC):
  - Tx High (VHF/UHF) 1.7A/2.1A typical
  - Rx Max. audio Less than 450mA (Internal SP, 16Ω)
  - Less than 300mA (External SP, 8Ω)
  - Stand-by Less than 90mA
  - Power save Less than 40mA (1:8 duty)
- Antenna impedance : 50Ω (SMA)
- Dimensions (W×H×D) : 58 × 111 × 30 mm; (Projections not included) 2.28 × 4.37 × 1.18 in
- Weight (approx.) : 380g; 13.4oz (with BP-264 and Ant.)

**TRANSMITTER**

- Output power (at 7.2V) : 5.0W/2.5W/0.5W (High/mid/low)
- Max. freq. deviation : ±5.0kHz/±2.5kHz (Wide/narrow)
- Spurious emissions : Less than -60dBc (High, Mid) Less than -13dBm (Low)
- External microphone connector : 3-conductor 2.5(d)mm (1/8")/2.2kΩ

**RECEIVER**

- Sensitivity (at 12dB SINAD) :
  - Guaranteed range 0.18μV typical
- Squelch sensitivity (threshold) :
  - Guaranteed range 0.18μV typical
- Selectivity (20kHz spacing, ham band only) :
  - FM More than 60dB
  - FM narrow More than 60dB
- Spurious and image rejection : More than 60dB
- Audio output power : More than 700mW (Internal SP, 16Ω) (at 10% distortion) More than 400mW (External SP, 8Ω)
- External speaker connector : 3-conductor 3.5(d) mm (1/8")/8Ω

**Applicable U.S. Military Specifications & IP Rating**

Standard	MIL 810 F	
	Method	Procedure
Low Pressure	500.4	I, II
High Temperature	501.4	I, II
Low Temperature	502.4	I, II
Temperature Shock	503.4	I
Solar Radiation	505.4	I
Rain Blowing/Drip	506.4	I, III
Humidity	507.4	-
Salt Fog	509.4	-
Dust Blowing	510.4	I
Vibration	514.5	I
Shock	516.5	I, IV

Also meets equivalent MIL-STD-810-C, -D, -E and -F.

Ingress Protection Standard	
Dust & Water	IP54 (Dust-protection and water resistant)

- Supplied accessories** (\* Depending on version)
- Li-Ion battery, BP-265 or Battery pack, BP-263\*
  - Antenna, FA-S270C ● Belt clip, MB-124 ● Hand strap
  - Rapid charger, BC-193\* ● AC adapter, BC-123SA\*

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

**OPTIONS**

Some options may not be available in some countries. Please ask your dealer for details.

BATTERY PACKS AND CASE	Battery packs	Type and capacity	Operating time* (Approx.)
	BP-263	AA (LR6) batteries × 6	-
	BP-264	Ni-MH, 7.2V 1400mAh	11.5 hours (VHF), 10 hours (UHF)
	BP-265	Li-Ion, 7.4V 1850mAh (min.) 2000mAh (typ.)	16 hours (VHF), 13.5 hours (UHF)

\* Tx: Rx: standby = 5:5:90. Power save function ON.

**2-hour/2.5-hour RAPID CHARGERS**

BC-191 for BP-264 Ni-MH battery  
 BC-193 for BP-265 Li-Ion battery  
 BC-123S\*1 for use with BC-191 or BC-193

\*1 BC-123SA for 120V AC, SE for 230V AC, SV for 240V AC.

**WALL CHARGER For BP-264 (Ni-MH battery)**

BC-167S\*2

\*2 BC-167SA for 120V AC, SD for 230V AC, SV for 240V AC.

**REGULAR CHARGER For BP-264 (Ni-MH battery)**

BC-147S\*3 BC-192

\*3 BC-147SA for 120V AC, SE for 230V AC, SV for 240V AC.

**RAPID MULTI-CHARGER**

BC-197 BC-157S

**CIGARETTE LIGHTER CABLES**

CP-19R\*4 For operation with a 12V socket.  
 CP-23L For use with BC-191 or BC-193

\*4 The BP-265 cannot be charged when using an optional CP-19R or OPC-254L.

**DC POWER CABLES**

OPC-254L\*4 For operation with an external power supply  
 OPC-515L For use with BC-191, BC-192 or BC-193  
 OPC-656 For use with BC-197

**SPEAKER-MICROPHONES**

HM-153 HM-131

**HEADSETS and PLUG ADAPTER CABLE**

HS-94 Earhook type  
 HS-95 Behind-the-head type  
 HS-97 Throat type  
 OPC-2006 Required when using any of these headsets

**CARRYING CASE**

LC-174

CS-T70 Cloning software  
 + OPC-478/UC Cloning cable  
 OPC-478UC is a USB cable type.  
 OPC-474 Transceiver-to-transceiver cloning cable  
 FA-S270C VHF/UHF ANTENNA  
 Same as supplied.  
 MB-124 Alligator type belt clip  
 Same as supplied.  
 AD-120 Charger adapter for BP-264  
 AD-121 Charger adapter for BP-265  
 Either AD-120 or AD-121 charger adapters are supplied with the BC-197, depending on BC-197's version.  
 SP-27 Acoustic tube earphone.

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