



DUAL BAND FM TRANSCEIVERS

IC-T70A

(U.S.A. Version)

IC-T70E

(Europe Version)

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/E offers practical 2m/70cm dual band operation and ruggedness, updated for today's ham radio enthusiasts.

700mW loud audio

The IC-T70A/E 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-264 Ni-MH battery offers over 10 hours of power on a single charge*. The optional, even lighter BP-265 Li-Ion battery pushes operation to 13.5 hours*. 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/E 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/E 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/E tested to and passed MIL-STD-810 environmental tests.

Other features

- WX channel and WX alert function (USA version only)
- Power save function • SMA type antenna connector
- Automatic repeater function (USA version only)
- 1750Hz tone for European repeater access
- 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
Europe	144-146, 430-440	144-146, 430-440
UK	144-146, 430-440	136-174, 400-479*2
Export	136-174, 400-479*3	136-174, 400-479*3

Guaranteed range *1 144-148, 440-450MHz, *2 144-146, 430-440MHz, *3 144-148, 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)
 - 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) 2⁹/₃₂ × 4³/₈ × 1¹/₁₆ 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 (1/16")/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 and -E.

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

Supplied accessories (* Depending on version)

- Battery pack, BP-264 ● Wall charger, BC-167S*
- Antenna, FA-S270C ● Belt clip, MB-124 ● Hand strap

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 1900mAh (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



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

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



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

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



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

RAPID MULTI-CHARGER



CIGARETTE LIGHTER CABLES



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

DC POWER CABLES



SPEAKER-MICROPHONES



HEADSETS and PLUG ADAPTER CABLE



CARRYING CASE



- 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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