



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 Ch : 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) 2³/₃₂ × 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 : More than 60dB rejection

- Audio output power : More than 700mW (Internal SP, 16Ω) (at 10% distortion) More than 400mW (External SP, 8Ω)
- External speaker : 3-conductor 3.5(d) mm (1/8")/8Ω connector

Applicable U.S. Military Specifications & IP Rating

Standard	MIL 810 F	
	Method	Procedure
Temperature Shock	503.4	I
Rain	506.4	I, III
Vibration	514.5	I
Shock	516.5	I, IV

Also meets equivalent MIL-STD-810-C, -D and -E. Other test categories are now under evaluation.

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

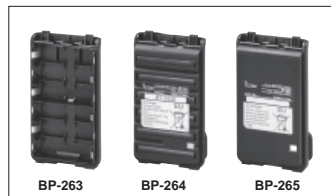
Supplied accessories (* Depending on version)

- 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.



BP-263 BATTERY CASE
Battery case for AA (LR6)×6 alkaline cells.
BP-264 7.2V/1400mAh Ni-MH BATTERY PACK
Provides 10-11.5 hours operating time (approx.).
BP-265 7.4V/1900mAh (min.), 2000mAh (typ.), Li-Ion BATTERY PACK
Provides 13.5-16 hours operating time (approx.). (Tx (Hi): Rx: standby=5:5:90, Power save on.)



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

BC-192 DESKTOP CHARGER
+ **BC-147S* AC ADAPTER**
Charges the BP-264 in 16 hours (approx.).



RAPID CHARGERS

B C - 1 9 1 DESKTOP CHARGER for BP-264
+ **BC-123S* AC ADAPTER**
Charges the BP-264 in 2 hours (approx.).
BC-193 DESKTOP CHARGER for BP-265
+ **BC-123S* AC ADAPTER**
Charges the BP-265 in 2.5 hours (approx.).
* BC-123SA/BC-147SA for 120V AC. SE for 230V AC. SV for 240V AC.



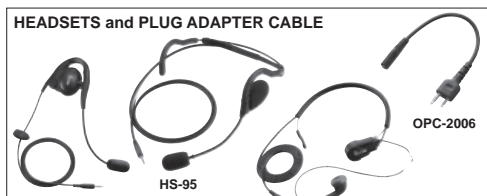
POWER SUPPLY CABLES

CP-19R* : Cigarette lighter cable for external power operation. DC-DC converter built-in.
CP-12L* : Cigarette lighter cable with noise filter for external power operation.
CP-23L : Cigarette lighter cable for use with the BC-191 or BC-193.
OPC-254L* : DC power cable for external power operation.
OPC-515L : DC power cable for use with the BC-191, BC-192 or BC-193.
* The BP-265 cannot be charged using the external DC power jack.



SPEAKER-MICROPHONES

HM-153 : Durable earphone-microphone.
HM-131 : Compact type speaker-microphone.



HEADSETS and PLUG ADAPTER CABLE

HS-94 : Earhook headset with flexible boom microphone.
HS-95 : Behind-the-head headset with flexible boom microphone.
HS-97 : Throat microphone that fits around your neck and picks up speech vibrations.
OPC-2006 : Required when using any of these headsets.



CARRYING CASE

LC-174 : Helps protect the transceiver from scratches, etc.

CS-T70 CLONING SOFTWARE
+ **OPC-478/UC CLONING CABLE**
Provides quick and easy programming of memory channel, names, etc. OPC-478UC is a USB cable type.
OPC-474 CLONING CABLE
Cloning cable for transceiver-to-transceiver data cloning.
FA-S270C VHF/UHF ANTENNA
Same as supplied.
AD-92SMA ANTENNA CONNECTOR ADAPTER
Allows you to connect a BNC-type antenna.
MB-124 BELT CLIP
Alligator type clip. Same as supplied.
BC-167S* WALL CHARGER for BP-264
Charges the BP-264 in 8 hours (approx.). Same as supplied with some versions.
* BC-167SA for 120V AC. SE for 230V AC. SV for 240V AC.

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