



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) 2<sup>9</sup>/<sub>32</sub> × 4<sup>3</sup>/<sub>8</sub> × 1<sup>3</sup>/<sub>16</sub> 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(dj)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
Temperature Shock	503.4	I
Rain	508.4	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)

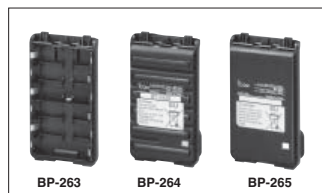
Supplied accessories (\* Depending on version)

- 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

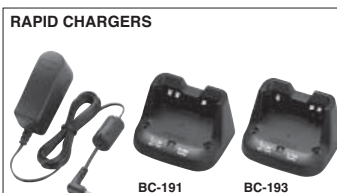
Some options may not be available in some countries. Please ask your dealer for details.



**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 (H): Rx: standby-5:5:90, Power save on.)



**REGULAR CHARGER For BP-264 (Ni-MH battery)**  
**BC-147S\* AC ADAPTER**  
Charges the BP-264 in 16 hours (approx.).  
**BC-192 DESKTOP CHARGER + BC-147S\* AC ADAPTER**  
Charges the BP-264 in 16 hours (approx.).  
**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.



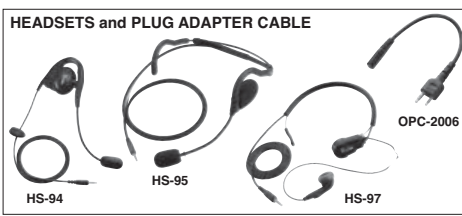
**RAPID CHARGERS**  
**BC-123S**  
**BC-191 (for BP-264)**  
**BC-193 (for BP-265)**



**POWER SUPPLY CABLES**  
**CP-19R**  
**CP-23L**  
**OPC-515L**  
**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 tube speaker-microphone.  
**SP-27** : Acoustic tube earphone with clothing clip.



**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.

Icom, Icom Inc. and the Icom logo are registered trademarks of Icom Incorporated (Japan) in the United States, the United Kingdom, Germany, France, Spain, Russia, Japan and/or other countries. All other trademarks are the properties of their respective holders.

Icom Inc.

1-1-32, Kami-minami, Hirano-ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013

www.icom.co.jp/world

Count on us!

Icom America Inc.

2380 116th Avenue NE, Bellevue, WA 98004, U.S.A. Phone: +1 (425) 454-8155 Fax: +1 (425) 454-1509 E-mail: sales@icomamerica.com URL : http://www.icomamerica.com

Icom Canada

Glenwood Centre #150-6165 Highway 17, Delta, B.C., V4K 5B8, Canada Phone: +1 (604) 952-4266 Fax: +1 (604) 952-0090 E-mail: info@icomcanada.com URL : http://www.icomcanada.com

Icom (Australia) Pty. Ltd.

Unit 1 / 103 Garden Road, Clayton, VIC 3168 Australia Phone: +61 (03) 9549 7500 Fax: +61 (03) 9549 7505 E-mail: sales@icom.net.au URL : http://www.icom.net.au

Icom New Zealand

146A Harris Road, East Tamaki, Auckland, New Zealand Phone: +64 (09) 274 4062 Fax: +64 (09) 274 4708 E-mail: inquiries@icom.co.nz URL : http://www.icom.co.nz

Icom (Europe) GmbH

Communication Equipment Auf der Krautweide 24 66812 Bad Soden am Taunus, Germany Phone: +49 (6196) 76685-0 Fax: +49 (6196) 76685-50 E-mail: info@icom-europe.com URL : http://www.icomeurope.com

Icom Spain S.L.

Ctra. Rubi, No. 88 "Edificio Can Castanyer" Bajos A 08174, Sant Cugat del Valles, Barcelona, Spain Phone: +34 (93) 590 26 70 Fax: +34 (93) 589 04 46 E-mail: icom@icomspain.com URL : http://www.icomspain.com

Icom (UK) Ltd.

Blacksole House, Altra Park, Herne Bay, Kent, CT6 6GZ, U.K. Phone: +44 (01227) 741741 Fax: +44 (01227) 741742 E-mail: info@icomuk.co.uk URL : http://www.icomuk.co.uk

Icom France s.a.s.

Zac de la Plaine, 1 Rue Brindejonc des Moulinais, BP 45804, 31505 Toulouse Cedex 5, France Phone: +33 (5) 61 36 03 03 Fax: +33 (5) 61 36 03 00 E-mail: icom@icom-france.com URL : http://www.icom-france.com

Icom Polska

81-850 Sopot, ul. 3 Maja 50, Poland Phone: +48 (58) 550 7135 Fax: +48 (58) 551 0484 E-mail: icompolska@icompolska.com.pl URL : http://www.icompolska.com.pl

Asia Icom Inc.

6F No. 68, Sec. 1 Cheng-Teh Road, Taipei, Taiwan, R.O.C. Phone: +886 (02) 2559 1899 Fax: +886 (02) 2559 1874 E-mail: sales@asia-icom.com URL : http://www.asia-icom.com

Beijing Icom Ltd.

10007, Long Silver Mansion, No.88, Yong Ding Road, Haidian District, Beijing, 100039, China Phone: +86 (010) 5889 5391/5392/5393 Fax: +86 (010) 5889 5395 E-mail: bjicom@bjicom.com URL : http://www.bjicom.com

Your local distributor/dealer: