



DUAL BAND FM TRANSCEIVERS

# IC-T70A HD

(Li-Ion BP-265 and BC-193)

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

### 700mW loud audio

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

### Long lasting battery life

Get 5W of power on VHF and UHF in a small, lightweight package. The lighter BP-265 Li-Ion battery pushes operation to 13.5 hours\*. The optional BP-264 Ni-MH battery offers over 10 hours 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 HD 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 HD 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 HD 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
- 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* <sup>1</sup> | 136-174, 400-479* <sup>1</sup> |
| Europe  | 144-146, 430-440               | 144-146, 430-440               |
| UK      | 144-146, 430-440               | 136-174, 400-479* <sup>2</sup> |
| Export  | 136-174, 400-479* <sup>3</sup> | 136-174, 400-479* <sup>3</sup> |

Guaranteed range \*<sup>1</sup> 144-148, 440-450MHz, \*<sup>2</sup> 144-146, 430-440MHz, \*<sup>3</sup> 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)
  - Less than 90mA
  - Stand-by : Less than 40mA (1:8 duty)
  - 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 (1/16")/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 &amp; 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     |

## Ingress Protection Standard

Dust & Water IP54 (Dust-protection and water resistant)

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.

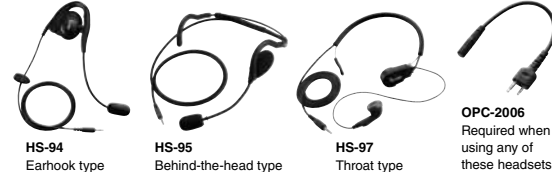
## DC POWER CABLES



## 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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