



A M E R I C A , I N C .
Professional Two-way Radio

TC-270/370

Specifications

| General | TC-270 | TC-370 |
|----------------------------------|--------------------------------------|---------------------------|
| Frequency Range | VHF: 136-150 MHz UHF: 400-420 MHz | 148-174MHz 450-470 MHz |
| Channel Capacity | 99 | |
| Channel Spacing | 25/12.5 KHz | |
| Operating Voltage | 7.5V±20% | |
| Battery | 1500mAh (Ni-MH) | |
| Battery Life (5-5.99 duty cycle) | More than 11 hours | |
| With 1500mAh Ni-MH Battery | More than 8 hours | |
| With 1100mAh Ni-MH Battery | ±2.5 ppm | |
| Frequency Stability | -20°C→+60°C | |
| Operating Temperature | 50Ω | |
| Antenna Impedance | 135 mm×58mm×36.5mm | |
| Dimensions (L×W×H) | 380 g | |
| (without antenna & battery) | | |
| Weight (with antenna & battery) | | |

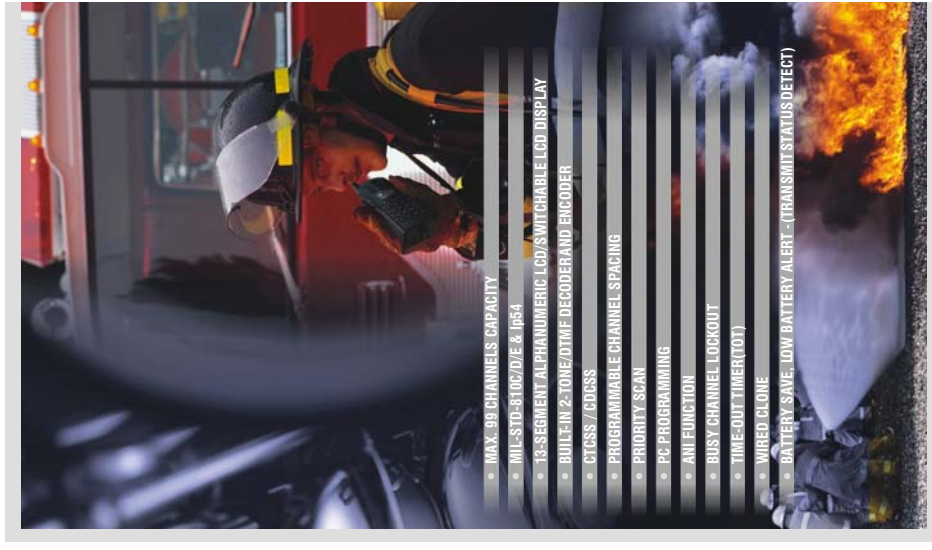
| Transmitter | TC-270 | TC-370 |
|------------------------|-------------|-------------|
| RF Power Output | 5W/1W (VHF) | 4W/1W (UHF) |
| Modulation | F3E | |
| Spurious and Harmonics | 65dB | |
| FM Noise | 40/35dB | |
| Audio Distortion | ≤5% | |

| Receiver | TC-270 | TC-370 |
|-----------------------------|--------------|--------|
| Sensitivity | 0.28/0.35 μV | |
| Selectivity | 60/50dB | |
| Intermodulation | 60dB | |
| Spurious Response Rejection | 60dB | |
| S/N | 40/35dB | |
| Audio Power Output | 500mW | |
| Audio Distortion | ≤5% | |

• Above specification are tested according to TIA/EIA-503
 Above specifications are subject to change without notice due to technology enhancement.

Applicable MIL-SPEC 810C/D/E

| Standard | MIL 810 C Methods / Procedures | MIL 810 D Methods / Procedures | MIL 810 E Methods / Procedures |
|-------------------|--------------------------------|--------------------------------|--------------------------------|
| Low Pressure | 500.1/ Procedure I | 500.2/ Procedure I, II | 500.3/ Procedure I, II |
| High Temperature | 501.1/ Procedure I, II | 501.2/ Procedure I, II | 501.3/ Procedure I |
| Low Temperature | 502.1/ Procedure I | 502.2/ Procedure I, II | 502.3/ Procedure I, II |
| Temperature Shock | 503.1/ Procedure I | 503.2/ Procedure I | 503.3/ Procedure I |
| Solar Radiation | 505.1/ Procedure I | 505.2/ Procedure I | 505.3/ Procedure I |
| Rain | 506.1/ Procedure I, II | 506.2/ Procedure I, II, III | 506.3/ Procedure I, II |
| Humidity | 507.1/ Procedure II | 507.2/ Procedure II, III | 507.3/ Procedure II, III |
| Salt Fog | 509.1/ Procedure I | 509.2/ Procedure I | 509.3/ Procedure I |
| Dust | 510.1/ Procedure I | 510.2/ Procedure I | 510.3/ Procedure I |
| Vibration | 514.2/ Procedure VIII, X | 514.3/ Procedure I | 514.4/ Procedure I |
| Shock | 516.2/ Procedure I, II, V | 516.3/ Procedure I, IV | 516.4/ Procedure I, V |



- MAX. 99 CHANNELS CAPACITY
- MIL-STD-810C/D/E & IFS4
- 13-SEGMENT ALPHANUMERIC LCD/SWITCHABLE LCD DISPLAY
- BUILT-IN 2-TONE/DTMF DECODER AND ENCODER
- CTSSS / CCSSS
- PROGRAMMABLE CHANNEL SPACING
- PRIORITY SCAN
- PC PROGRAMMING
- ANI FUNCTION
- BUSY CHANNEL LOCKOUT
- TIME-OUT TIMER (TOT)
- WIRED CLONE
- BATTERY SAVE: LOW BATTERY ALERT - (TRANSMIT STATUS DETECT)



ISO9001:2000 Certificate



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Main Functions

MAX. 99 CHANNELS CAPACITY
MIL-STD-810C/D/E & Ip54
 The TC-270/370 fully meets MIL-STD 810 C/D/E specs covering physical and temperature shock, vibration, low pressure, and solar radiation.

13-SEGMENT ALPHANUMERIC LCD DISPLAY
 The 13-segment display panel provides quick recognition of operating status and present settings with alphanumeric and icon characters. Lcd display toggles among channel number, channel frequency and channel label. For enhanced nighttime viewing, pressing the back-light key illuminates the lcd display and keypad, and if no other keys are operated, backlighting shuts off automatically.

BUILT-IN 2-TONE/DTMF DECODER AND ENCODER
 The decoder and encoder functions offer a 2-Tone/DTMF paging code assignable to any channel. An incoming message is signaled with audible and visible alerts.

CTCSS / CDCSS
 Built-in CTCSS/CDCSS help to segregate talk groups so users only hear traffic from other co-groups users in their own group. This helps to reduce confusion and keeps the lines of communication clear.

PROGRAMMABLE CHANNEL SPACING
 The TC-270/370 can be programmed for 12.5 / 25KHz bandwidth operation per channel to accommodate all channel allocations now and in the future.

PRIORITY SCAN
 Channel scan provides users with an easy way to monitor multiple channels for activity. The radio will scan the priority channel periodically while receiving a call on another non-priority channel.

DUAL HOME CHANNEL
 Home channel allows the User to monitor and talk at home channel easily.



BATTERY SAVE - LOW BATTERY ALERT - (TRANSMIT STATUS DETECT)

The radio will enable battery save feature in standby mode. Pressing any key or receiving a signal will restore the radio to normal operation. For extra convenience, the low battery indicator warns the user to recharge soon or get a fresh battery.

DIE-CAST CHASSIS

The aluminum die-cast chassis heat-sink is lightweight yet provides exceptional strength.

WEATHER RESISTANCE

The universal accessory connector and battery contacts use spring action contact with anti-corrosive properties while meeting MIL-STD 810C/D/E.

REVERSE FREQUENCY / TALK AROUND

PRIVATE PASSWORD
 Power on password and data password provide users dual protection.

PC PROGRAMMING
 Radio parameter programming and turning can be accomplished via the accessory connector from a PC-compatible computer without ever having to open the radio to save both time and expense (requires optional programming cable & software.)

ANI FUNCTION
 Two types of ANI-PTT ID (per channel) and DIAL ID-send connect and disconnect ID information.

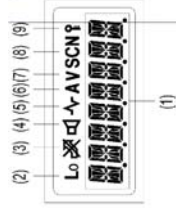
BUSY CHANNEL LOCKOUT
 Lockout further improves channel management by preventing transmission if another talk group is already on the air.

TIME-OUT TIMER(TOT)
 Limits the amount of time a user can continuously transmit on a channel. This allows for more efficient use of the channel.

WIRED CLONE
 Radio-to-Radio copy can be achieved via a simple interface cable without the use of a PC or special equipments.

PROGRAMMABLE SOFT KEYS
 [●], [○], [J], [■] and [□] key can be programmed with the following auxiliary functions:

1. None;
2. SCN;
3. DIAL;
4. TA/RE;
5. LO;
6. Display Label;
7. Display Frequency;
8. Display Mode;
9. Channel Add/Delete;
10. Keypad Lock;
11. Selectable CTCSS;
12. Select Squelch Level;
13. Nuisance Channel Delete;
14. Priority Channel Delete;
15. Home Channel.



Accessories



TC-270

Optional Accessories