

# TC-700

## Professional Two-way Radio

Ideal for high-level professionals who want powerful yet streamlined communication tools, the TC-700 series are packed with cutting-edge technology and HYT innovations. HYT's voice compander audio enhancement and a powerful 1W speaker ensure superb clear, crisp sound, even in noisy environments. Its sleek, ergonomic design makes this TC-700 series radio easy to hold and carry - and it's so lightweight you can take it virtually anywhere.

- Wide-band Coverage
- High-quality Audio Output
- Safety Assurance
- HYT HDC2400™ and HDC1200 Signalling



## Super Functions

### Wide-band Coverage

Allows users the flexibility to select their frequency for use in their respective work environment.

### Powerful Audio Output

HYT's voice compander audio enhancement and a powerful 1W speaker (with a diameter of 40mm) ensure superb clear, crisp sound, even in noisy environments.

### Safety Assurance

Safety and security are critical factors for modern organizations. The TC-700's Lone worker, Man Down (optional) and Emergency Siren features are designed to assure your safety in case of emergencies or accidents.

### Built-in Scrambler

Maintaining private and secure communications is increasingly important, with potentially sensitive information flowing back and forth. The TC-700's Scrambler feature provides enhanced security for your important public safety and private security communications.

## Professional Two-way Radio

### Whisper

The Whisper feature means that even the quietest message can be transmitted and understood.

### Channel Annunciation

The feature enables radio to report the current channel number when power on or switching channel, offering you notable convenience.

### HYT HDC2400™ and HDC1200 Signalling

HYT HDC2400™ signaling system allows features including Identification, Calling Timer, Voice Storage, Retrieve Record, Individual Call, Group Call, Broadcast, Stun/Kill & Revive, Status Inquiry, Short Message and Data Transmission. (Some are features of dispatch center.)

Compatible with MDC1200, the HDC1200 Signalling allows functions including PTT ID Encode, Emergency Encode, Radio Check Decode, Stun/Kill & Revive, Individual Call, Group Call, Broadcast, etc.

# TC-700



# New Functions

## Lone Worker

The feature provides added security and safety for individuals who work remotely from their team. Should a user not respond to a regular warning tone, then a defined emergency procedure is activated.

## Man Down (optional)

When feature enabled, a defined emergency procedure is activated if the radio is horizontally or inversely positioned for a certain length of time. Place the radio vertically to disable the emergency.

## Safety Check

Should the user not respond to a safety check signal from the dispatch center or another authorized radio, then a defined emergency procedure is activated.

## Power on Self-Test

The radio itself checks radio status automatically when power on, and emits corresponding alert if an error occurs, allows the user to early detect unit faults.

## Embedded Message & Serial Number

The radio's memory can store messages including service and programming records, for remarkable ease of maintenance; the feature also makes a unit identifiable by Serial Number.

## Emergency

Press the Emergency key to emit emergency alarm, or send ENI (Emergency Number Identity) / background tone to a pre-defined person or the dispatch center.

## Auto Contact

The feature is especially helpful in high-demanding communication environments, such as climbing, exploration, and rescue work. When feature enabled, the radio beeps when the user is moving out of communication range.

## Rental

The Rental feature limits the time period that a radio can be rented. The radio will be disabled once the time elapses.

## Software upgradeable (optional)

Allows new functions add-in to accommodate future updates.

## PC Tuning

Enables remarkable ease of maintenance.

## Patrol Record (optional)

Patrol system for real-time (or non-real-time) data transmission consists of the TC-700 radio supporting Patrol Record, patrol transmitter TX-90, control center TM-800, patrol management software, data transmission cable.

# Accessories

## Standard Accessories

UHF / VHF Antenna      MCU Rapid-rate Charger CH10L07      LI-Ion Battery (1700mAh) BL1703  
Switching Power Adapter (100-240V) PS1009 (different power cords for different countries and areas)  
Spring Belt Clip BC08 (compatible with BL1703)      Strap RO04

## Optional Accessories



Li-ion Battery (2100mAh)  
BL2102  
Ni-MH Battery (1800mAh)  
BH1801



MCU Rapid-rate Multi-unit Charger  
for Li-ion/Ni-MH Batteries MCA03



Six-unit Switching Power  
PS7002  
Vehicle Adapter  
CHV09



Noise-Cancelling Remote  
Speaker Microphone  
(350-390MHz) SM13M2  
Water Resistant Remote  
Speaker Microphone(IP56)  
SM13M1



Earbud with in-Line PTT & VOX  
ESM11



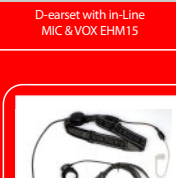
D-earset with Boom  
Microphone & VOX EHM16



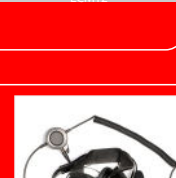
Light Weight, Single-Muff  
Headset with in-Line PTT & VOX  
ECM12



Earbud with on-MIC PTT & VOX  
ESM12



D-earset with in-Line  
MIC & VOX EHM15



3-Wire Surveillance Earpiece  
with Transparent Acoustic Tube  
(black/beige) EAM16 / EAM15  
Earpiece with on-MIC  
PTT & VOX & Transparent  
Acoustic Tube EAM12  
2-Wire Surveillance Earpiece  
with VOX & Transparent  
Acoustic Tube (black) EAM13



Light Weight, Throat-Vibrating  
Earpiece ELM01  
Ear Canal Bone Induction  
Earpiece EBM01



Behind-the-Head, Noise-Cancelling  
Headset ECM14  
Noise-Cancelling Headset  
ECM13



2-wire Earpiece with Wireless  
Earphone and Neck Loop  
EWM03



Remote Speaker Microphone  
SM08M3  
Receive-only Earpiece with  
Transparent Acoustic Tube  
(for use with remote speaker  
microphone) ESS08  
Receive-only Earbud  
(for use with remote speaker  
microphone) ESS07



Chest Pack  
LCBN13  
Leather Carrying Case (swivel)  
(thin battery / thick battery)  
LCBN41 / LCBN42

# Recommended Applications

- Security
- Firefighters
- Public utilities
- Property management
- Construction sites
- Hotel





## Applicable MIL-STD-810C/D/E/F

| Applicable MIL-STD | 810C<br>Methods Procedures | 810D<br>Methods Procedures | 810E<br>Methods Procedures | 810F<br>Methods Procedures |
|--------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Low Pressure       | 500.1 1                    | 500.2 1,2                  | 500.3 1,2                  | 500.4 1                    |
| High Temperature   | 501.1 1,2                  | 501.2 1,2                  | 501.3 1,2                  | 501.4 1,2                  |
| Low Temperature    | 502.1 1                    | 502.2 1,2                  | 502.3 1,2                  | 502.4 1,2                  |
| Temp. Shock        | 503.1 1                    | 503.2 1                    | 503.3 1                    | 503.4 1                    |
| Solar Radiation    | 505.1 1                    | 505.2 1                    | 505.3 1                    | 505.4 1,2                  |
| Rain               | 506.1 2                    | 506.2 2                    | 506.3 1,2                  | 506.4 1,2                  |
| Humidity           | 507.1 2                    | 507.2 2,3                  | 507.3 2,3                  | 507.4 1                    |
| Salt Fog           | 509.1 1                    | 509.2 1                    | 509.3 1                    | 509.4 1                    |
| Dust               | 510.1 1                    | 510.2 1                    | 510.3 1                    | 510.4 1                    |
| Vibration          | 514.2 8,10                 | 514.3 1                    | 514.4 1                    | 514.5 1                    |
| Shock              | 516.2 1,2,5                | 516.3 1,4                  | 516.4 1,4                  | 516.5 1,4                  |

## General

|                                                      |                                                   |
|------------------------------------------------------|---------------------------------------------------|
| Frequency Range(MHz)                                 | VHF: 136-174 UHF: 350-390 420-470 440-490 400-470 |
| Channel Capacity                                     | 16                                                |
| Channel Spacing(KHz)                                 | 25 /20/12.5                                       |
| Operating Voltage(V)                                 | 7.4                                               |
| Battery                                              | 1700mAh (Li-ion)                                  |
| Battery Life (5-5-90 duty cycle)                     | About 14 Hours                                    |
| Frequency Stability(ppm)                             | ± 2.5                                             |
| Operating Temperature(°C)                            | -30~+60                                           |
| Antenna Impedance(Ω)                                 | 50                                                |
| Dimensions(LxWxH)(with battery, without antenna)(mm) | 122x55x35                                         |
| Weight (with antenna & battery)(g)                   | 316                                               |

## Transmitter

|                        |                         |
|------------------------|-------------------------|
| RF Power Output        | 5W/1W (VHF) 4W/1W (UHF) |
| Modulation             | 16KΦ F3E/11KΦ F3E       |
| Spurious and Harmonics | -36dBm<1GHz -30dBm>1GHz |
| FM Noise               | 45/40dB                 |
| Audio Distortion       | ≤5%                     |

All Specifications are tested according to TIA/EIA-603, and subject to change without notice due to continuous development.

## Receiver

|                             |               |
|-----------------------------|---------------|
| Sensitivity                 | 0.25/0.35 μ V |
| Selectivity                 | 70/60dB       |
| Intermodulation             | 65dB          |
| Spurious Response Rejection | 70dB          |
| S/N                         | 45/40dB       |
| Rated Audio Power Output    | 1W            |
| Rated Audio Distortion      | ≤10%          |



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