

# 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.

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### 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.

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# 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 R004

## Optional Accessories



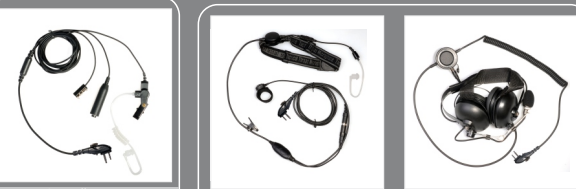
Li-ion Battery (2100mAh) BL2102  
Ni-MH Battery (1800mAh) BH1801  
MCU Rapid-rate Multi-unit Charger for Li-Ion/Ni-MH Batteries MCA03  
Six-unit Switching Power PS7002  
Vehicle Adapter CHV09



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



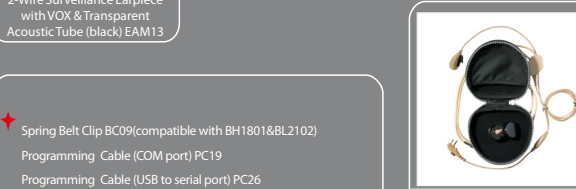
Earbud with in-Line PTT & VOX ESM11  
D-earset with Boom Microphone & VOX EHM16  
Light Weight, Single-Muff Headset with in-Line PTT & VOX ECM12  
Earbud with on-MIC PTT & VOX ESM12  
D-earset with in-Line MIC & VOX EHM15



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



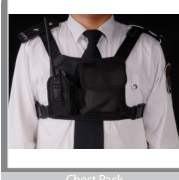
Remote Speaker Microphone SM08M3  
Receive-only Earpiece with Transparent Acoustic Tube (for use with remote speaker microphone) ESS08  
Receive-only Earbud (for use with remote speaker microphone) ESS07



Spring Belt Clip BC09 (compatible with BH1801 & BL2102)  
Programming Cable (COM port) PC19  
Programming Cable (USB to serial port) PC26



2-wire Earpiece with Wireless Earphone and Neck Loop EWM03



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 Methods Procedures	810D Methods Procedures	810E Methods Procedures	810F 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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