

TC-780

Professional Two-way Radio

HYT TC-780 is a medium-to-high tier portable radio developed with state-of-the-art analog technology and provides multiple functions. With LCD display, numeric keypad, full frequency band, 256 channels, the radio satisfies the user's group dispatch and delivers powerful functions, stable performance, and high price-to-performance ratio.

- Safety Assurance
- Selective Expansion Function
- Powerful Audio Output
- Compact & Light Weight





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Super Features

Wide Band Coverage

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

Powerful Audio Output

HYT's voice compandor audio enhancement and a powerful 1.5W 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-780's Lone Worker, Safety Check, and Man Down (optional) features are designed to assure your safety in case of emergencies or accidents.

Build-in Scrambler

The Scrambler feature provides enhanced security for your important public safety and private security communications.

Whisper

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

HYT HDC2400™ and HDC1200 Signalling

The HDC2400™ signalling is exclusive to HYT, and contributes to the system to achieve features including ANI (Automatic Number Identification), Call Timer, Record, Record Inquiry, Individual Call, Group Call, Broadcast, Status Inquiry, Safety Check, Stun/Kill/Revive, etc.

The HDC1200 Signalling is compatible with MDC1200, and allows functions including PTT ID Encode & Decode, Emergency Encode, Radio Check Encode & Decode, Kill & Revive Decode, Individual Call, Group Call, Broadcast, Status Message Encode, and Fixed Message Encode.

Reserved Expansion Port

Expansion ports are reserved for second development: Patrol Record, Encryption, SmarTrunk™ trunking system and GPS remote speaker microphone.

Firmware Upgradeable

Bulid-in Flash MCU allows the radio firmware to be upgraded to include the latest features.

Main Features

Power on Self-Test

The radio itself checks radio status automatically when powered on, and emits corresponding alert if an error occurs (e.g. CPU error or EEPROM error), allowing the user to early detect unit faults.

Soft Power Off

After the radio is power down, it allows some circuits to continue working as you set, and won't be turned off until features including alarm are performed.

Front Panel Programming

Menu operation and full keypad allow you to easily customize parameters and channel settings.

LCD Battery Gauge

Indicates battery strength levels for more effective power management.

2-Tone Encode & Decode

High Transmit Power

5W transmit power accommodates wide communication coverage.

Embedded Message & Serial No.

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.

Short Message

Lone Worker

The Lone Worker 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.

Safety Check

Should the user not respond to a safety check signal, a defined emergency procedure is activated.

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 (selectable via programming software).

Vibrate

The vibrate indication helps in working conditions where quiet operation is required.

Man Down (optional)

Providing even greater safety for employees in hazardous environments, the TC-780 provides a Man Down optional feature. This feature automatically summons assistance when the radio falls over for a predetermined time period.

Patrol Record & Digital Encryption/SmarTrunk™ Trunking System (optional)

TC-780 supports patrol record. A patrol system is composed of TC-780 patrol radio, TX-90 patrol point, patrol center, patrol management software and data transmission cable, to send real-time or non-real-time information. With digital encryption, confidential communication is available for TC-780. Also, the SmarTrunk™ option board can work hand-in-hand with a controller to realize all functions of SmarTrunk™ trunking system.





Mechanical Features

★ Reliability and Durability

The radio uses components of famous brand, and meets strict tests.

★ Ergonomic Design

★ Laser-etched Nameplate

Other Features

★ DTMF Encode & Decode

★ CTCSS/CDCSS

★ Voice Compandor

★ MSK Wireless Clone

★ PC Tuning

★ Dual Priority Scan

★ Battery Save

★ Low Battery Alert

★ Kill/Revive

★ Programmable Function Keys

★ Talk Around

★ Channel Alias

★ Short Message

★ Programmable Alert Tone

★ Battery Gauge

★ Auto Acknowledgement

★ ATIS

★ VOX

★ Power-on Password and Data Password

★ RSSI (Received Signal Strength Indicator)

★ Embedded Message & Serial Number

Recommended Applications

- Police
- Security
- Firefighting
- Government

Accessories

Standard Accessories

Antenna
 Strap RO04
 Belt clip BC08 (compatible with BL1703)
 MCU rapid-rate charger (for Li-Ion/Ni-MH Batteries) CH10L07
 Li-Ion battery(1700mAh) BL1703
 Switching power adapter(100-240V) PS1009 (for use with different power cords in different countries and areas)

Optional Accessories



Earbud with in-Line PTT
ESN05

Earbud with on-MIC PTT
ESN06



Neck 2-wire earpiece with wireless earphone and neck loop
EWN03



Earpiece with on-MIC PTT & transparent acoustic tube
EAN04



Remote speaker microphone
SM08N1

Received only earpiece with transparent acoustic tube (remote speaker MIC used only) ESS08
 Received only earbud (remote speaker MIC used only) ESS07



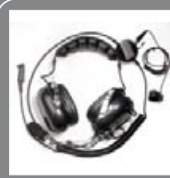
Noise-cancelling remote speaker microphone (350-390MHz)(440-470MHz)
SM13N4

Water resistant remote speaker microphone(IP56)
SM13N5



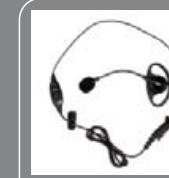
Light weight, throat-vibrating earpiece
ELN02

Ear canal bone induction earpiece
EBN01



Heavy duty, noise-cancelling headset
ECN08

Behind-the-head, noise-cancelling headset
ECN09



D-earset with boom microphone & in-line PTT
EHN08

D-earset with in-line PTT & microphone
EHN07



Light-weight, single-muff headset with in-line PTT
ECN07



3-wire surveillance earpiece with transparent acoustic tube
EAN06 (beige)

3-wire surveillance earpiece with transparent acoustic tube
EAN02 (black)
2-wire surveillance earpiece with transparent acoustic tube
EAN07 (black)



MCU rapid-rate multi-unit charger for Li-Ion/Ni-MH batteries
MCA03



Ni-MH battery (1800mAh)
BH1801

Li-ion battery (2100mAh)
BL2102



Universal chest pack (nylon)(black)
LCBN13



Leather carrying case (swivel)
LCBY22

- ★ Antenna
- Belt clip BC09 (compatible with BH1801 & BL2102)
- Programming cable (COM port) PC18
- Programming cable (USB to serial port) PC25

Applicable Military Standards 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)	UHF: 350-390/400-470 VHF: 136-174
Channel Capacity	256
Channel Spacing (kHz)	25/20/12.5
Operating Voltage (v)	7.4
Battery	1700mAh Li-ion Battery
Battery Life (5-5-90 Duty Cycle)	About 10 Hours
Frequency Stability (ppm)	± 2.5
Operating Temperature (°C)	-30~+60
Antenna Impedance (Ω)	50
Dimensions (H × W × D)(with battery, with out antenna) (mm)	126*54*35
Weight (with antenna & battery) (g)	360

Transmitter

RF Power Output	5W/2W/1W (UHF/VHF)
Modulation	16K0F3E/11K0F3E
Spurious and Harmonics	-36dBm<1GHz -30dBm>1GHz
FM Noise	≥ 45/40 dB
Audio Distortion	< 5%

Receiver

Sensitivity	0.25/0.35 μ V
Selectivity	70/60 dB
Intermodulation	65 dB
Spurious Response Rejection	70 dB
S/N	45/40 dB
Rated Audio Power Output	0.8 W
Rated Audio Distortion	< 5%

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



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