

## Specifications

General		
Frequency Range		VHF:136-174MHz UHF:400-450 MHz 450-500 MHz
Channel Capacity		128
Zone Capacity		16
Channel Spacing		25/20/12.5KHz
Operating Voltage		13.6V DC ±15%
Current Drain	Standby:	0.5A
	Receive:	<2.0A
	Transmit:	<5A (5W) /<8A (25W)
Frequency Stability		±2.5ppm
Operating Temperature		-30°C ~+60°C
Antenna Impedance		50 Ω
Dimensions (LX WX H)		125 X 152 X 43 (mm)
Weight		1.0kg

Receiver	TM-610	Transmitter	TM-610
Sensitivity	0.28/0.33/0.35i V	RF Power Output	5W/25W
Selectivity	75/70/65dB	Modulation	16KÖF3E/11KÖF3E
Intermodulation	70/70/65dB	Spurious and Harmonics	-36dBm<1GHz -30dBm>1GHz
Spurious Response Rejection	70dB	FM Noise	>45dB (25/20KHz) >40dB (12.5KHz)
S/N (wide/narrow)	>45dB (25/20KHz)	Audio Distortion	≤3%
	>40dB (12.5KHz)		
Internal Audio	5W (less than 5% distortion)		
Power Output(Rated)	3W (less than 3% distortion)		
External Audio	13W (less than 5% distortion)		
Power Output(Rated)	12W (less than 3% distortion)		

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

Standard:	MIL 810 C Methods/ Procedures	MIL 810 DMethods/ Procedures	MIL 810 EMethods/ Procedures	MIL 810 FMethods/ Procedures
Low Pressure	500.1/I	500.2/I.II	500.3/I.II	500.4/I
High Temperature	501.1/I.II	501.2/I.II	501.3/I.II	501.4/I.II
Low Temperature	502.1/I	502.2/I.II	502.3/I.II	502.4/I.II
Solar Radiation	505.1/I	505.2 /I	505.3/I	505.4/I.II
Rain	506.1/II	506.2/II	506.3/II	506.4/III
Humidity	507.1.II	507.2/II.III	507.3/II.III	507.4/I
Salt Fog	509.1/I	509.2/I	509.3/I	509.4/I
Dust	510.1.I	510.2 /I	510.3/I	510.4/I
Vibration	514.2/VIII.X	514.3/ I	514.4/I	514.5/I
Shock	516.2/I.II.V	516.3/I.IV	516.4/I.IV	516.5/I



ISO9001:2000 Certificate NO:FM 61540



**SHENZHEN HYT SCIENCE & TECHNOLOGY CO., LTD.**  
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Cost Effective Professional Mobile Radio

Conventional Mobile Radio



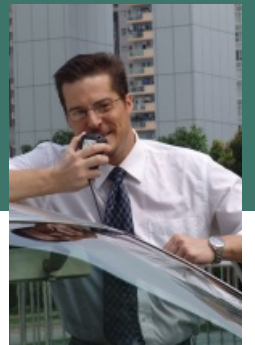
# TM-610

- WIDE-BAND COVERAGE
- POWERFUL AUDIO
- BUILT-IN SCRAMBLER
- VERSATILE SIGNALLINGS
- PASSWORD PROTECTION



# TM-610

## Cost Effective Professional Mobile Radio



The high-performance, yet simple-to-use TM-610 mobile is created to give you the immediate, reliable communication you need to keep mobile teams working efficiently. HYT's voice compander audio enhancement and a powerful 5W internal or 13W external speaker ensure superb clear, crisp sound, even in noisy environments. Its compact design makes the mobile ideal when mounting space is constraint.



### Super Features

#### WIDE-BAND COVERAGE

Wide-band coverage includes: VHF: 136-174 MHz, UHF: 400-450 MHz, 450-500 MHz, users have the flexibility to select their frequency for use in their respective work environment.

#### POWERFUL AUDIO

HYT's voice compander audio enhancement and a powerful 5W internal or 13W external speaker ensure superb clear, crisp sound, even in noisy environments.

#### BUILT-IN SCRAMBLER

Maintaining private and secure communications is increasingly important, with potentially sensitive information flowing back and forth. The TM-610's scrambler feature provides enhanced security for your important public safety and private security communications.

#### VERSATILE SIGNALINGS

The TM-610 mobile is packed with a full range of signalling capabilities, including CTCSS, CDCSS, DTMF Encode, 2-Tone, 5-Tone \*, HYT exclusive HDC2400™ \* & HDC1200™ \* signalling, and data transmission \* can be achieved.

#### PASSWORD PROTECTION

The radio offers reading password to both protect the privacy and prevent unauthorized cloning of radio data.

**Note:** Due to continuous technology development, the functions marked with an asterisk will be achieved later.

### Main features

#### ● 128 Channels and Dynamic Regrouping

High 128-channel operating capacity on the TM-610 enables the mobiles to accommodate a vast number of users and work groups concurrently. Each zone or channel can be assigned with a customized name for easy identification. Dynamic regrouping provides greater flexibility in organising different work groups.

#### ● Public Address (PA)

The PA feature feeds MIC audio through a powerful external PA amplifier, and outputs through external speaker, offering robust audio clarity in harsh, noisy environments.

#### ● Large 15-Segment LCD

Users may toggle the user friendly display among channel number/alias, zone number/alias, frequency, DTMF dial number, function settings, etc. The keypad and display illuminations also provide the visibility to operate your radio in the dark.

#### ● Wired Clone/MSK Wireless Clone

Allows users to duplicate one radio's operating parameters into another mobile, enables improved efficiency and time saving.

#### ● 6 Programmable Functions Keys

Provides immediate, easy access to your favorite features.

#### ● Versatile Scan

Two scan modes are available: single zone scan and multiple zone scan. Achievable functions include add/delete scan channel, temporarily delete nuisance channel, and user selectable priority channel.

#### ● UST (User Selectable Tone)

User can select CTCSS/CDCSS codes via the programmed function key. Each stored UST code can be assigned with a customized name for convenient operation.

#### ● Built-in Modem \*

The built-in 1200/2400bps MSK modulator offers data transmission function.

#### ● DTMF Function

DTMF flexible dialing: manual dial, redial, short number dial, and auto-dial; maximum 32 groups of DTMF encode can be pre-stored and assigned with a customized name.

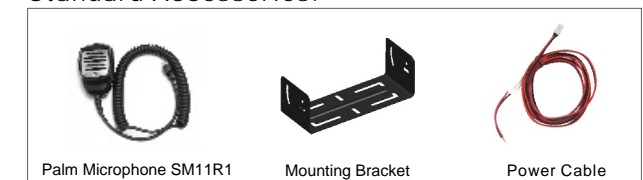
#### ● Emergency Alarm

While emergency or accident occurs, press the Emergency button to transmit discreetly signals to the dispatcher or a pre-defined person for emergency help, enables improved security and safety.

### Other Features:

- PC Programming
- Dual Home Channels
- Ignition Sense, Timed Power Off
- Auto Transpond
- TOT (Time-out Timer)
- Busy Channel Lockout (BCL) / BCL Override
- BOT ID/EOT ID
- Off-Hook Decode
- SQL (Selectable Squelch Level)
- Frequency Reverse
- Talk Around

#### Standard Accessories:



#### Optional Accessories:

