


# TM-600/610

**Cost Effective  
Professional Mobile Radio**



- Compact Design
- Wide-Band Coverage
- Powerful Audio
- Built-in Scrambler



The high-performance, yet simple-to-use TM-600 and TM-610 mobiles are 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 these radios ideal when mounting space is a constraint.

# TM-600/610

## Professional Mobile Radio

### Super Features

#### Compact Design

These compact mobile radios are ideal for mounting when space is constraint.

#### Wide-Band Coverage

These radios provide wide band capability for users requiring a large range of frequencies. VHF is 136-174 Mhz, and UHF is 400-470 MHz, 450-500 MHz, 470-520 MHz, and 350-400MHz.

#### Powerful audio

HYT's voice compander audio enhancement and a powerful 13W external speaker will provide 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 scrambler feature provides enhanced security for your important and private communications. ▶

#### HDC2400™ and HDC1200 signalling

The HDC2400™ signalling is exclusive to HYT, and contributes to the system to achieve features including ANI (Automatic Number Identification), Individual Call, Group Call, Broadcast, Kill, Short Message and Data Transmission.

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

#### Short message

Users can edit messages via keypad, or send pre-defined messages. Messages can be sent between radios or via the control center.

## Special Features

### Automatic Number Identification (ANI)

After HDC2400™ or HDC1200 signalling is received, the radio will display the ID or alias of the other party. The radio firmware supports a selective call list containing up to 128 (128 for TM-610, 8 for TM-600) items.

### Built-in modem

The built-in 1200/2400bps MSK modulator offers data transmission capability.\*

### Emergency alarm

The emergency button allows for a transmission of a signal indicating an emergency situation.

### Kill and revive

The kill function permits an authorized radio to remote disable another lost radio. This function can ensure you higher security and is perfect for the radio rental business.

A killed radio will return to operational use when the revive code is received.

### DTMF function

The DTMF calling function offers flexible dialing procedures of alias dialing, auto dial and redial as well as manual dialing. Customized, user friendly number storage can be used for your most often called numbers.

### Public Address (PA)

The public address feature feeds microphone audio through a powerful PA amplifier to the external speaker, offering robust, out of vehicle, audio clarity.

### Large 15-Segment LCD Display (TM-610)

Users may toggle the display to channels or zones, auto dial numbers or other functional settings. The keypad and display illuminates to provide visibility for night time operation.

### 8-Segment Numeric LED (TM-600)

The numeric 8 segment display indicates the channel of operation. LEDs also indicate channel scan and transmit power operation.

### 128 Channels and Dynamic Regrouping (TM-610)

The 128 channel and zoning capability of the TM-610 offers flexibility in organizing work groups. Each channel and zone can be assigned a user friendly name for easy identification. Dynamic regrouping offers flexibility in a changing work group environment.

### Lone Worker

The lone worker feature provides added security and safety for individuals who work remotely from their team. Since this function is enabled, the radio will emit an alert tone after the preset time elapses, then the user must press any key, otherwise the emergency procedure will be activated.

### Ignition Sense, Timed Power Off

When this function is enabled, you have to connect the ignition wire to the rear panel of the radio so that you can turn on/off the radio by igniting/stalling the car. The radio can only be turned on by igniting the car and will be turned off automatically within the preset time after the car stalls.

### 6 / 4 Programmable Backlit Keys

Provides immediate and easy access to your most often used features.

### Versatile Scan (TM-610)

The TM-610 scan allows for single or multiple zone scanning. Scanning features include add / delete scan channels, nuisance channel delete and user selectable priority channel.

### Channel Scan (TM-600)

The TM-600's scan feature offers priority channel scan, selectable priority channel, nuisance channel temporary delete, etc.

### Wired Cloning / MSK Wireless Cloning

Allows users to quickly and easily duplicate one radio's parameters into another radio.

### UST (User Selectable Tone)

The user can select CTCSS/CDCSS codes via the programmed function key.

## Recommended Applications

- Taxi
- Transportation

## Accessories

### Standard Accessories

Palm microphone SM11R1  
Microphone hanger

Mounting bracket BRK04  
Vehicle power cable PWC06  
Fuse POA15

### Optional Accessories



Palm microphone  
SM07R2



Keypad microphone  
SM07R1



External speaker  
SM09S2



Desktop Microphone  
SM10R2



Mobile antenna



Cloning cable CP06



Programming cable PC21



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

Applicable MIL-STD	810C		810D		810E		810F	
	Methods	Procedures	Methods	Procedures	Methods	Procedures	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: 400-470 450-500 470-520 350-400	
Channel Capacity	8 (TM-600) 128 (TM-610)	
Zone Capacity	16 (TM-610)	
Channel Spacing (KHz)	12.5/20/25	
Operating Voltage	13.6V DC $\pm$ 15%	
Current Drain	Standby	0.5A
	Receive	<2.0A
	Transmit	<5A(5W)/<8A (25W)
Frequency Stability (ppm)	$\pm$ 2.5	
Operating Temperature (°C)	-30~+60	
Antenna Impedance ( $\Omega$ )	50	
Dimensions (L×W×H) (mm)	152×43×125	
Weight (Kg)	1	

## Transmitter

RF Power Output (w)	5/25
Modulation	16K $\Phi$ F3E/11K $\Phi$ F3E
Spurious and Harmonics	-36dBm<1GHz -30dBm>1GHz
FM Noise	>45dB(25/20KHz) >40dB(12.5KHz)
Audio Distortion	$\leq$ 3%

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

## Receiver

Sensitivity ( $\mu$ V)	0.28/0.33/0.35
Selectivity (dB)	75/70/65
Intermodulation (dB)	70/70/65
Spurious Response Rejection (dB)	70
S/N(wide/narrow)	>45dB (25/20KHz) >40dB (12.5KHz)
Internal Audio Power Output(Rated)	5W (less than 5% distortion) 3W (less than 3% distortion)
External Audio Power Output(Rated)	13W (less than 5% distortion) 12W (less than 3% distortion)



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