HYT
AMERICA, INC.

TM-600/610

Cost Effective
Professional Mobile Radio

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: 400-470 470-520
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 ±15%
Current Drain — Standby	0.5A
Current Drain — Receive	<2.0A
Current Drain — Transmit	<5A(5W)/<8A (25W)
Frequency Stability (ppm)	± 2.5
Operating Temperature (F°)	-22° ~ +140°
Antenna Impedance (Ω)	50
Dimensions (inches)	5.98 in. × 1.69 in. × 4.92 in.
Weight (ounces)	35.27 oz.

Transmitter

RF Power Output (W)	5/25
Modulation	16KΦF3E/11KΦF3E
Spurious and Harmonics	-36dBm<1GHz -30dBm>1GHz
FM Noise	>45dB(25/20KHz) >40dB(12.5KHz)
Audio Distortion	≤3%

Receiver

Sensitivity (μV)	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)

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

ISO9001:2000 Certificate NO:FM 61540

FC CE

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Your Local Dealer

■ Compact Design

■ Powerful Audio

■ Built-in Scrambler

■ DTMF, 2-Tone, HDC2400™ and HDC1200 Signalings

www.hytamerica.com

The reliable and user-friendly TM-600 and TM-610 mobile radios are created to give users the immediate and clear communication needed to keep mobile teams working efficiently. HYT's voice compander audio enhancement and a powerful 5W internal or 13W external speaker ensure superb, crisp sound, even in noisy environments with the windows open. It's 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 a 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, and 450-500 MHz.

Powerful Audio
HYT's voice compander audio enhancement and an optional 13W powerful external speaker will provide superb clear, crisp sound, even in noisy environments with the windows down.

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.

TM-610

HDC2400™ and HDC1200 Signaling
The HDC2400™ signaling is exclusive to HYT, and contributes to the system achieving features such as 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.

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. When 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
- Fleet Management
- Transportation
- Tow Trucks

Accessories

Standard Accessories	Palm Microphone SM11R1	Mounting Bracket BRK04	Fuse POA15
	Microphone Hanger	Exclusive Vehicle Power Cable PWC06	

Optional Accessories

Palm microphone SM07R2

Keypad microphone SM07R1

External speaker SM09S2

Switching power PS15001(UL only)

Desktop microphone SM10R1

Mobile Antenna

Cloning Cable CP06

Programming Cable PC21