

## Specification

General		TM-800	
Frequency Range		136~174MHz 350~400MHz, 400~470MHz, 450~512MHz	
Channel Capacity		256(max)	
Zone Capacity		256(max)	
Channel Spacing	Wide	25/30KHz	
	Narrow	12.5/15KHz	
Operating Voltage		13.6V DC ±15%	
Current Drain	Standby	0.5A	0.5A
	Receive	<2.0A	<2.0A
	Transmit	<8A(25W)/<12A(50W)	<8A(25W)/<12A(45W)
Frequency Stability		±2ppm	
Operating Temperature		-30℃~+60℃	
Antenna Impedance		50Ω	
Dimensions (L×W×H)		164mm×180mm×48mm	
Weight		1.9kg	

Transmitter		TM-800			
RF Power Output	25W/50W	25W/45W			
Modulation	F3E				
Spurious and Harmonics	25W	50W	25W	45W	
	-36dBm<1GHz -30dBm>1GHz	-33dBm<1GHz -30dBm>1GHz	-36dBm<1GHz -30dBm>1GHz	-28dBm<1GHz -30dBm>1GHz	
FM Noise(wide/narrow)	48/42dB				
Audio Distortion	≤3%				

Receiver		TM-800	
Sensitivity (wide/narrow)	0.28/0.35μV		
Selectivity (wide/narrow)	75/65dB		
Intermodulation (wide/narrow)	70/65dB		
Spurious Response Rejection	85dB	80dB	
S/N (wide/narrow)	48/42dB		
Internal Audio Power Output	5W (less than 10% distortion)		
	3W (less than 3% distortion)		
External Audio Power Output	13W (less than 5% distortion)		
	12W (less than 3% distortion)		

■ Above specification are tested according to TIA/EIA -603  
Above specifications are subject to change without notice due to technology enhancement.

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

Standard	MIL 810C Methods / Procedures	MIL 810D Methods / Procedures	MIL 810E Methods / Procedures	MIL 810F Methods / 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	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.**

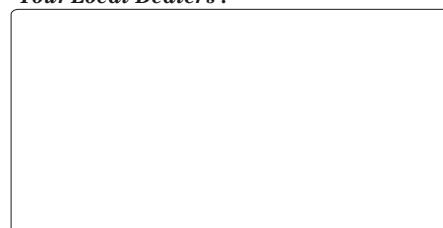
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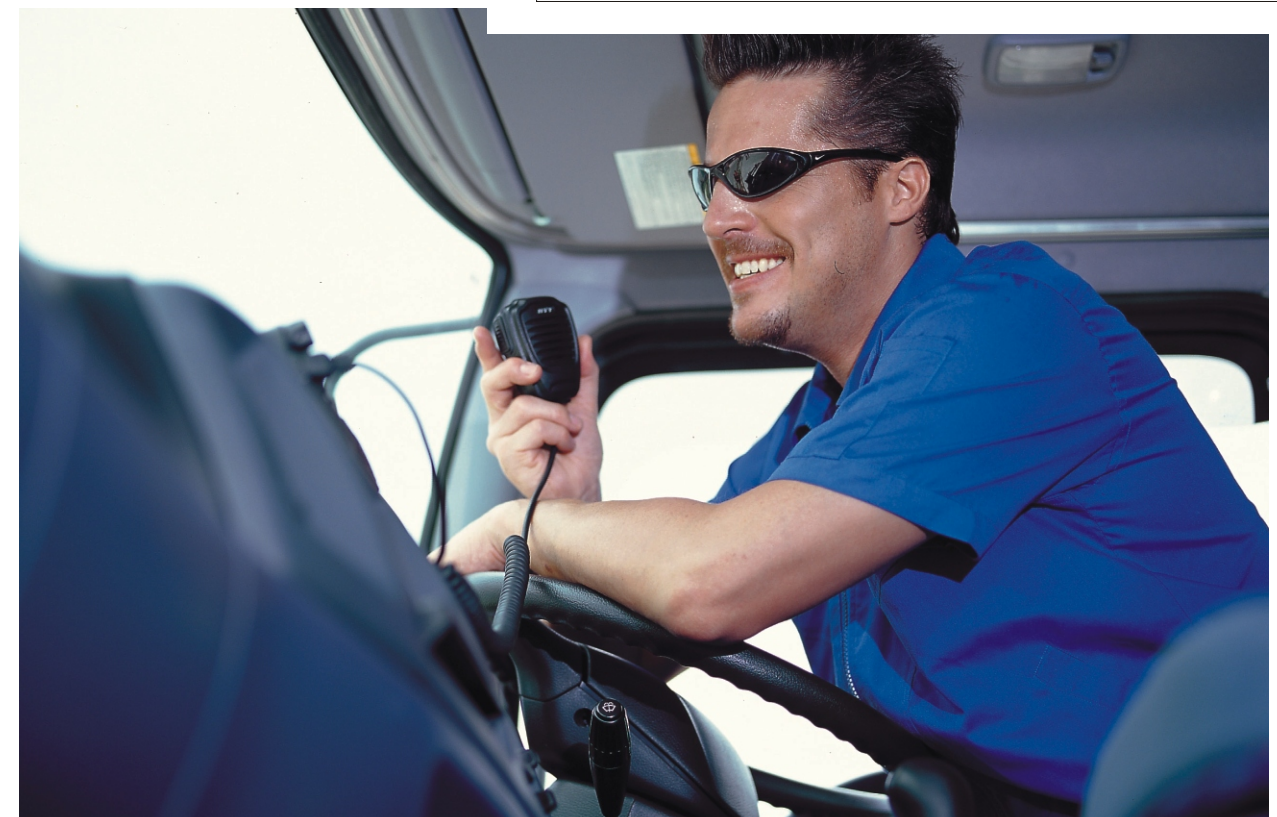
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**TM-800**



- WIDE-BAND COVERAGE
- POWERFUL AUDIO
- REMOTE MOUNT CONTROL HEAD
- SHORT MESSAGE
- BUILT-IN SCRAMBLER
- RESERVED EXPANSION PORT & SOFTWARE UPGRADEABLE



# TM-800

## New Features

### HIGH 256-CHANNEL CAPACITY AND DYNAMIC ZONING(max 256 zones)

The feature provides versatile channel organization suited for any company-wide, departmental or divisional requirements plus room for auxiliary or special-use zones. Each zone and channel can be programmed with customized name.

### VERSATILE SIGNALINGS

CTCSS, CDCSS, DTMF, 2-Tone, 5-Tone, HDC2400™

### VOICE COMPANDER ENABLES CLEAR AND CRISP AUDIO

### PUBLIC ADDRESS (PA)

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



The newly launched HYT TM-800 series are packed with cutting-edge technology and HYT innovations, for user-friendly operation and optimum performance.

The rugged, versatile TM-800 series offer you immediate and reliable communications even under harshest and toughest conditions, and highest efficiency and productivity now and future!

## Super Functions

### WIDE-BAND COVERAGE

The TM-800 wide-band coverage fully meets various customer demands.

### POWERFUL AUDIO

5W audio output for robust clarity. A powerful 12W audio is also available with an external speaker, offering robust clarity in harsh, noisy environments.

### REMOTE MOUNT CONTROL HEAD

The remote mount control head can be mounted on the dashboard without the radio chassis, ideal when space is constrained.

### SHORT MESSAGE

User can edit messages via keypad microphone, and store messages via programming software. Messages can be sent via control center, or sent between radios directly.

### BUILT-IN SCRAMBLER

Provides enhanced security for your important public safety and private security communications.

### RESERVED EXPANSION PORT & SOFTWARE UPGRADEABLE

Three expansion ports for second development including voice scrambler, GPS, SmarTrunk™ trunking system, data transmission, and repeater.

Flash memory, software upgradeable, allows new functions add-in to accommodate future updates, without opening the unit.

### ALPHANUMERIC DOT MATRIX LCD DISPLAY

Provide easy-to-read icons, including channel number/name, zone number/name, frequency, DTMF call numbers, menu setting items, etc.  
LCD backlight for nighttime operation.

### 8 PROGRAMMABLE BACKLIGHT KEYS

### STUN/REVIVE

Provides enhanced security to prevent unauthorized use of lost or rental units, by remote inhibition of either transmit or transmit/receive.  
The radio returns to operational use when receiving a revive code.

### REMOTE CONTROL

The TM-800 series can remote control other electronic equipments via receiving DTMF or 5-Tone signaling.

### VERSATILE SCAN

Three scan modes are available: single zone scan, multiple zone scan and list zone scan. Achievable functions include add/delete scan channels, temporarily close priority channel, temporarily delete nuisance channel, and operator selectable priority channel.

### FRONT PANEL PROGRAMMING

The feature enables easy access to customize each radio to fit user needs, and customize parameter setting and function key assignment.

### INTELLIGENT OUTPUT POWER SWITCH

To prevent radio over-heating by long time transmission with high output power, TM-800 series can automatically switch to low output power to assure prolonged operation life.

### UST FUNCTION

Different CTCSS/CDCSS selectable via programmed key, all stored UST code can be programmed with customized name, for convenient operation.

### DTMF FUNCTION

DTMF ANI, manual dial, redial, quick access dial, and auto-dial; maximum 32 DTMF encode can be stored and programmed with customized name.

### BUILT-IN MODEM

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



### EMERGENCY SIREN

TM-800 series assure you improved security under critical emergency condition, by transmitting an emergency signal to control center or a specific team member.

## Other Features

### PC PROGRAMMING

### DUAL HOME CHANNELS

### WIRED CLONE/MSK WIRELESS CLONE

### RADIO PASSWORD & DATA PASSWORD

### IGNITION SENSE POWEROFF

### AUTO TRANSPOND

### TOT (TIME-OUT TIMER)

## Accessories

### Standard Accessories

