

## Specification

| General               |          | TM-800   |                    |
|-----------------------|----------|--|--------------------|
| Frequency Range       |          | 136~174MHz<br>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  |                    |

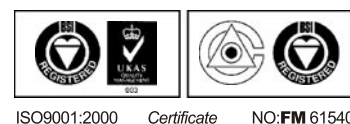
| Transmitter            |                            | TM-800                     |                            |                            |  |
|------------------------|----------------------------|----------------------------|----------------------------|----------------------------|--|
| RF Power Output        | 25W/50W                    | 25W/45W                    |                            |                            |  |
| Modulation             | F3E                        |                            |                            |                            |  |
| Spurious and Harmonics | 25W                        | 50W                        | 25W                        | 45W                        |  |
|                        | -36dBm<1GHz<br>-30dBm>1GHz | -33dBm<1GHz<br>-30dBm>1GHz | -36dBm<1GHz<br>-30dBm>1GHz | -28dBm<1GHz<br>-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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Your Local Dealers :

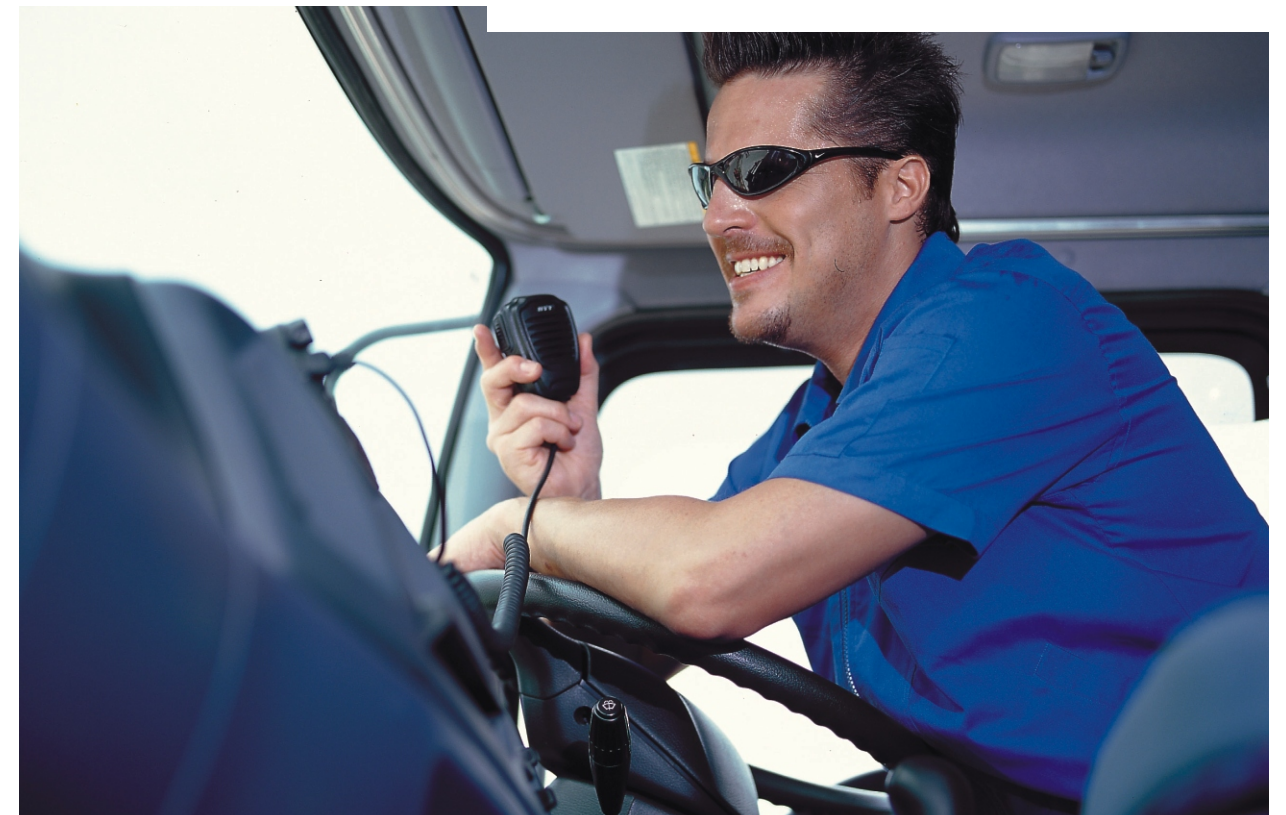
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**Professional Mobile Radio**

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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

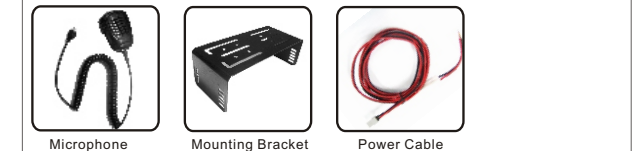
### IGNITION SENSE POWEROFF

### AUTO TRANSPOND

### TOT (TIME-OUT TIMER)

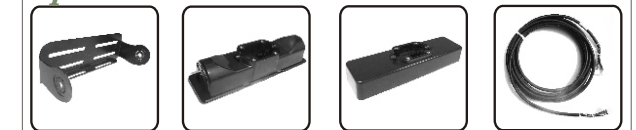
## Accessories

### Standard Accessories



Microphone Mounting Bracket Power Cable

### Optional Accessories



Control Head Remote Kit Remote Control Cable



Keypad Microphone Programming cable Clone Cable