



# MD-680D

## DMR Digital Two Way Radio

### Complying with digital protocol ETSI TS 102 361-1, -2, -3

- VOX transmit delay
- Monitor
- Single/group/all call
- Encryption
- Message
- Voice prompt
- Emergency alert
- 8 groups of Scrambler(Optional)
- Compounder (Optional)
- 2T/5T encoding and decoding (Optional)
- Remote stun and kill and activate (Optional)
- Active View display with a LED light



# MD-680D DMR Digital Two Way Radio

## Main Functions

- Complying with digital protocol ETSI TS 102 361-1, -2, -3
- 198 channels
- 2 programmable sidekeys
- Power on indicator and prompt
- Low battery prompt
- Factory reset
- Updated software available for new features
- Compatible with Mototro Tier I & II
- Zone selectable
- Battery saving
- High/low power
- TOT
- Emergency call
- Squelch level selectable
- Scan
- IP67 waterproofed
- CTCSS/DSC
- NON-STANDARD CTCSS/DSC
- End tone detect
- DTMF
- PTT ID
- Use Time-Division Multiple-Access (TDMA) digital technology

| General             |                                      | Transmitter                    |                                                           | Receiver                     |                                                  |
|---------------------|--------------------------------------|--------------------------------|-----------------------------------------------------------|------------------------------|--------------------------------------------------|
| Model No.           | MD-680D                              | Modulated noise                | 40dB@12.5KHz                                              | Frequency stability          | +/-2.5ppm                                        |
| Channel             | 198                                  | Spurious Radiation             | -36dBm@<1GHz<br>-30dBm@>1GHz                              | Digital sensibility          | 0.3uV/-117.4dBm(BER 5%)<br>0.7uV/-110dBm(BER 1%) |
| Channel spacing     | digital:12.5KHz;analog:12.5KHz/25KHz | Digital protocol:              | ETSI TS 102 361-1-2-3                                     | Intermodulation              | 65dB                                             |
| Working voltage     | DC7.4V                               | Adjacent Ch. power             | -60dB@12.5KHz                                             | Adjacent channel selectivity | 60dB@12.5KHz                                     |
| Frequency range     | 136-174MHz/400-470MHz                | Output power                   | High: 9W±1W<br>Low: 4.5W±0.5W                             | Co-channel rejection         | -8dB@12.5KHz                                     |
| Battery capacity    | 2200mAh                              | 4FSK Digital Mode              | 12.5KHz(data only);7K60FXD<br>12.5KHz(data+voice);7K60FXE | Spurious response            | 70dB                                             |
| Current             | analog: >2600mA<br>digital: >1300mA  | Modulation limiting            | 2.5KHz@12.5KHz                                            | Spurious radiation           | -57dBm@<1GHz;-47dBm@>1GHz                        |
| Working temperature | -20°C ~ +50°C                        | Free time slot power           | -57dBm                                                    | Blocking                     | 84dB                                             |
| Store temperature   | -40°C ~ +80°C                        | modulation characteristic      | +1dB ~ -3dB                                               | Rated audio power            | 1W                                               |
| Weight              | 320g                                 | Modulation BER(bit error rate) | ≤3%                                                       |                              |                                                  |
| IP                  | IP67                                 |                                |                                                           |                              |                                                  |

## Application scope:

Tourism, entertainment, restaurant, hotel, shopping hall Government, Police, public security

## Standard Accessories



**Quanzhou TYT Electronics Co., Ltd.**  
 Address: Block 39-1, Optoelectronics-Information Industry base, Nan'an, Quanzhou, Fujian, China  
 Website: [www.tyt888.com](http://www.tyt888.com) E-mail: [tyt@tyt888.com](mailto:tyt@tyt888.com)  
 Nationwide Toll Free No.: 400-699-8858  
**MADE IN CHINA**