

# Tytera

## MD-446

DMR Digital two-way radio



Digital mode, single call,  
group call, all call function

- Emergency Call
- Quick Text Messages
- Manual Dial
- Remote monitor
- Remote Check
- Remote Disable/Enable
- Enhanced Encryption
- Private/Group/All Call
- Lone Worker
- Programming Password
- Zone Selection
- Date/Time programmable

**DMR**  
DIGITAL TWO-WAY RADIO



## MD-446

# Tytera

Use Time-Division Multiple-Access  
(TDMA) digital technology

### Main Functions

- Remote kill/stun/activate
- Voice prompt
- Color LCD display
- Text messages in digital mode,
- Encryption function
- Built-in CTCSS/DCS
- Up to 1000 channels
- Priority scan
- Complying with digital protocol ETSI TS 102 361-1, -2, -3
- Compatible with Mototrobo Tier I & II
- DTMF decoding and encoding
- Updated software available for new features
- Private call, group call, all call in digital mode.
- Operate in both Digital & Analogue mode, allows easily migrate from analog to digital.
- Provide clearer voice communications in digital mode, throughout the coverage area.

General	Transmitter		Receiver		
Frequency range	VHF: 136-174MHz UHF: 400-480MHz	Output power	High: ≤5W (HI) Low: ≤1W (Low)	Analog sensibility	0.35uV/-116dBm(20dB SINDA) 0.22uV/-120dBm(Type)
Channel	1000 Channels	Frequency Stability	+/-1.0PPM	Digital sensibility	0.3uV/-117.4dBm (BER 5%) 0.22uV/-110dBm (BER 1%)
Channel Spacing	12.5KHz	Adjacent Channel Power	≤-60dB	Co-channel Rejection	> -12dB
Operating Voltage	7.4V	Free Time Slot Power	TDMA: ≤57dBm	Adjacent Channel Selectivity	TIA603C:65dB ETSI:60dB
Battery Type	Li-ion	Hum and Noise	-40dB@12.5KHz	Spurious Response	TIA603C:75dB ETSI:70dB
Operating Temperature	-30°C+60°C	Spurious Radiation	Antenna: 9KHz-1GHz ≤-36dBm 1GHz-12.75GHz ≤-30dBm	Rated audio power	1W
Store Temperature	-40°C+85°C	FM Modulation Mode	12.5KHz: 11K0F3E	Audio response	=1dB~-3dB
Antenna Impedance	50 Ω	4FSK Digital Mode	12.5KHz:(data only):7K60FXD 12.5KHz:(data +voice): 7K60FXE	Rated audio distortion	3%(Type)
Audio Output Power	≤1000mW@16 Ω	Modulation Maximum Deviation	2.5KHz@12.5KHz	Spurious Radiation	Antenna: 9KHz-1GHz ≤-57dBm 1GHz-12.75GHz ≤-47dBm
Battery capacity	2000mAh standard Li-ion battery	Nonactive Slot Power	-57dBm		
Dimension(H*W*D)	131*61*36mm	Digital Protocol	ETSI TS 102 361-1 -2 -3		
Weight	258g	Vocoder Type	AMBE+2TM		
		Audio Response	+1dB~-3dB		
		Modulation BER(Bit Error Rate)	≤5%		

### Application scope:

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



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