







VHF / UHF Digital Handheld Radio

DIGITAL MOBILE RADIO ASSOCIATION

DM-6R V / DM-6R U







Emergency alarm



High voice compatibility

Smallest, light and compact design makes it easy to carry. Micro USB charger supports micro USB charging adaptor. Combined with both analoge and digital mode.







LED flashlight

TDMA / Double-Slot Working Mode

Main features:

- Small, slim, light and handy to carry
- High capacity Li-pol battery packs (≥2000mAh), operating to 15 hours under 5/5/90 duty cycle in digital mode.
- TDMA working mode
- Dual Mode (Digital / Analog)
- Digital / Analog mode switching on same frequency (Unique)
- Maximum output audio to be 1000mW
- 16-bit digital voice encryption
- With DVIS-AMBE+2 vocoder (100% compatible with MOTO)





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Technical parameters

General	S	pec	ifi	ca	tion
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Model	DM-6R		
Items	UHF	VHF	
Channel Zone	16		
Total channel capacity (512)	256 (Analog)		
	256 (Digital)		
Frequency range	400 - 480MHz	136 - 174MHz	
Antenna impedance	50Ω		
Dimension(HxWxD)	81x 52 x 30 mm		
Weight (W/battery)	116g		
Li-pol battery	2000mAh		
Rated voltage	DC:3.7V		

Battery

The average battery life under 5/5/90 duty cycle, and using carrier squelch and TX high power.

2000mAH li-pol battery Analog: 10.6hours / Digital: 14.3hours

Note: The battery working life may have little difference.

Battery capacity maybe change without notice, but the list is standard specification.

Receiver

Frequency	400 - 480MHz	136 - 174MHz	
' '		130 - 1741/1112	
Channel Spacing	12.5kHz / 25kHz		
Frequency stability (-20°C、+60°C、+25°C)	+ / - 1.5ppm		
Analog sensitivity (12 dB SINAD)	0.3uV / 0.25uV		
Digital sensitivity (5% BER)	0.25uV / 0.20uV		
Intermodulation	65dB		
Adjacent channel selectivity	60dB@12.5kHz / 65dB@25kHz		
Spurious rejection	65dB		
Rated audio	500mw		
Audio distortion @rated audio	3%		
FM hum &noise	-40dB@12.5kHz / -45dB@25kHz		
Audio response	+1、-3dB		
Conducted/ radiated emission	-57dBm		

Transmitter

Frequency	400 - 480MHz	136 - 174MHz	
Channel Spacing	12.5kHz / 25kHz		
Frequency stability (-30°C、+60°C、+25°C)	+ / - 1.5ppm		
Low Power	0.5 W	0.8 W	
High Power	2 W	2 W	
Modulation restriction	±2.5kHz@12.5kHz/±5.0kHz@25kHz		
FM hum& noise	-40dB@12.5kHz/-45dB@25kHz		
Conducted/radiated emission	-36dBm<1GHz/-30dBm>1GHz		
Adjacent channel selectivity	-60dB@12.5kHz/-65dB@25kHz		
Audio Response	+1、-3dB		
Audio Distortion	3%		
FM modulation	12.5kHz: 11K0F3E 25kHz: 16K0F3E		
4FSK digital modulation	12.5kHz data: 7K60F1D and 7K60FXD 12.5kHz audio: 7K60F1E and 7K60FXE 12.5kHz data and audio:7K60F1W		
Digital vocoder	AMBE+2™		
Digital agreement	ETSI-TS102 361-1、-2、-3		

Main Features:

- TOT
- Scan
- · High / Low Power
- Volume Control
- Low Power Alert
- Man Down (Optional)

Digital Features:

- Remote Kill
- Remote Revive
- Private Call
- Group Call
- General Call
- No-address Call
- Remote Monitor
- Remote Detection
- Call Prompt
- Emergency Alarm
- Voice encryption

Analog Features:

- CTCSS
- DCS
- Squelch Setting
- Busy Channel Lockout
- Narrow/Wide Band
- Scrambler (Optional)
- Compandor(optional)

Accessories & Optional











Belt Clip





AC Adapto

Charger

Li-pol battery

Antenna

Tie

Multi-Charger (Optional)



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Double-slot working chart for TDMA

TR-6000DM Repeater

(With speaker microphone, TR-6000DM can be used as base station / dispatching console separately in digital mode.)



TR-5000DM Mobile Repeater

(With speaker microphone, TR-5000DM can be used as base station / dispatching console separately in digital mode.)





Duplexer

Advantages of TDMA technology:

- 1. Time Slot 1 and Time Slot 2 of DMR Handheld terminals with TDMA technology can relay and work with repeater simultaneously.
- 2. Benefiting from the TDMA technology, the radio allows two slots to work on the same channel and frequency non-interferingly. (This doubles availability of spectrum resource).

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