







VHF / UHF Digital Handheld Radio

DMR DIGITAL MOBILE RADIO ASSOCIATION

DM-8566V / DM-8566U







Robust and compact structure;
Dual Mode (Digital /Analog)

Battery Indicator

High voice compatibility

Working zone allocation







Digital voice encryption

GPS(Optional)

Digital / Analogue
Mode switchable

TDMA / Double-Slot Working Mode

Main features:

- High capacity Li-pol battery packs (≥2300mAh), operating to 17 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)
- Contact supports private call, group call or general call.
- Call Log to check records for incoming, outgoing and missed calls.
- Maximum output audio to be 1000mW
- 16-bit digital voice encryption
- GPS (Optional)
- FM Radio
- 1.8" big & colorful TFT display
- With DVIS-AMBE+2 vocoder (100% compatible with MOTO)





VHF / UHF Digital Handheld Radio

DM-8566V / DM-8566U

Technical parameters

General specification

Model	DM-8566	
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)	111 x 58 x 38 mm	
Weight (W/battery)	250g	
Li-pol battery	2300mAh	
Rated voltage	DC:7.4V	
Battery:		

The average battery life under 5/5/90 duty cycle, and using carrier squelch and 2300mAH li-pol battery Analog: 12.6hours / Digital: 17.5hours

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
Channel Spacing	12.5kHz / 25kHz	
Frequency stability (-20°C、+60°C、+25°C)	+ / - 1.5ppm	
Analogue 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	800mw	
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	1 W	2 W
High Power	4.5 W	5 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	

GPS (Optional)

Precisely and standard designed for a long-term positioning (95% value > could		
find 5 satellites @ rated -130dBm signal strength		
TTFF (time to fist fix) cold start	< 1 min	
TTFF(time to fist fix) warm start	< 10 s	
Horizontal position accuracy	< 10 ms	

Main Features:

- 16 Zone (Digital Channel: 256; Analog Channel: 256)
- 1.8" big & colorful TFT display
- VOX
- Keylock Auto / Manual
- · Squelch Level Setting
- Monitor / Permanent Monitor
- Talk Around
- Busy Channel Lockout
- TOT
- Scan
- Priority Scan
- Keytone Setting
- Private/Group Call Prompt
- LED Indicator
- Battery Save

Digital Features:

- Voice Encryption
- ANI
- Private/Group/General Call
- Kill / Revive
- SMS
- Call Alert
- Remote Detection
- Remote Monitor
- Emergency Alarm
- Call ID List
- Scan List
- Call Log

Analog Features:

- CTCSS
- DCS

Accessories & Optional















Charger

Li-pol battery

Belt Clin

Power supply for

Antenna



VHF / UHF Digital Handheld Radio

DM-8566V / DM-8566U

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).

Kydera is registered trademark of Quanzhou City New Century Communication Electronics Co., Ltd in the PRC and / or other countries or areas. All other trademarks are properties of their respective owners