







VHF / UHF Digital Handheld Radio

DISTAL MOBILE RADIO ASSOCIATION

DM-330V / DM-330U







Emergency alarm



High voice compatibility





Digital voice encryption



GPS(Optional)

TDMA / Double-Slot Working Mode

Main features:

- High capacity Li-ion 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)
- Maximum output audio to be 1000mW
- 16-bit digital voice encryption
- GPS (Optional)
- With DVIS-AMBE+2 vocoder (100% compatible with MOTO)





VHF / UHF Digital Handheld Radio

DM-330V / DM-330U

Technical parameters

General specification

DM-330	
UHF	VHF
16	
256 (Analog)	
256 (Digital)	
400 - 480MHz	136 - 174MHz
50Ω	
120x 53 x 38 mm	
300g	
2300mAh	
DC: 7.4V	
	UHF 16 256 (Analog) 256 (Digital) 400 - 480MHz 50Ω 120x 53 x 38 mm 300g 2300mAh

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

2300mAH li-ion 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

400 - 480MHz	136 - 174MHz
12.5kHz / 25kHz	
+ / - 1.5ppm	
0.3uV / 0.25uV	
0.25uV / 0.20uV	
65dB	
60dB@12.5kHz / 65dB@25kHz	
65dB	
800mw	
3%	
-40dB@12.5kHz/	-45dB@25kHz
+1、-3dB	
-57dBm	
	12.5kHz / 25kHz + / - 1.5ppm 0.3uV / 0.25uV 0.25uV / 0.20uV 65dB 60dB@12.5kHz / 6 65dB 800mw 3% -40dB@12.5kHz / +1、-3dB

Transmitter

Frequency	400 - 480MHz	136 - 174MHz
Channel Spacing	12.5kHz / 25kHz	
Frequency stability (-30°C、+60°C、+25°C)	+ / - 1.5ppm	
Low Power	1W	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:

- 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
- GPS (Optional)

Analog Features:

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

Accessories & Optional



AC Adaptor

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Charger

Li-ion battery

Belt Clip

Power supply for car charger(Optional)

Antenna



DM-330V / DM-330U

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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