



MDM-4124 50W VHF (136-174 MHz)
MDM-4424 45W UHF (406-470 MHz)

Our MDM-4000 Series mobile radios are high-powered, high-performance DMR Tier 2 Digital / Analog radios at an economical price.

With a brilliant OLED display for great visibility in day or night environments, the MDM-4000 mobile radio is an indispensable LMR mobile with the best features of DMR Digital like clear audio, SMS texting, Direct Call, Voice Record, and 256bit AES Encryption standard for secure communications.

Factory Options like Single Frequency Repeater allow you to extend the range of your fleet into areas that previously were dead zones. Base station packages available.



- 50W VHF / 45W UHF
- Bright OLED Display
- 2048 Channels / 64 Zones / 1024 Ch per Zone
- Tier 2 DMR, Analog, & Mixed Mode
- Compatible w/MOTOTRBO Radios
- AES Encryption (AES-CTR 256bit Standard)
- 240 Contacts
- Text Messaging
- Stun/Revive
- Lone Worker
- Time Out Timer
- CTCSS, DCS
- Remote Monitor
- Voice Recorder



- Base Station Option
- Motorola/DMRA AES Encryption (Optional)
- Single Frequency Repeater (Optional)

SPECIFICATIONS

GENERAL

MDM-4124 VHF	136-174 MHz
MDM-4424 UHF	406-470 MHz
Channel Capacity	2048 Channels / 64 Zones / 1024 Ch. per Zone
Channel Spacing	12.5 KHz (DMR) 12.5/25 KHz (Analog)
Contact List Capacity	240 Contacts
Dimensions (H/W/D)	1.77 x 6.5 x 6.29" (45x165x160mm)
Weight	38.9 oz. (1.1 kg.)
Operating Voltage	DC+13.6V ± 15%
PLL Channel Step	2.5/6.25 KHz
Frequency Stability	± 1.0PPM
Current Drain	50W/50W Tx-12A, 25W Tx-8A Rx @ Max Audio 800 mA Standby 300mA
Operating Temperature	-22° to 140° F (-30° to 60° C)
External Audio Jack	3.5mm 4 Watt (8Ω)

TRANSMITTER

Output Power	50 Watt VHF, 45 Watt UHF
Spurious and Harmonic	70dB
FM Hum and Noise	40dB (12.5 kHz), 45dB (25 kHz)
Output Impedance	50 ohms
Audio Distortion	Less than 5% at rated output
Audio Response	+1, -3dB from 6dB per octave pre-emphasis and characteristic 300 ~ 3000 Hz

RECEIVER

Sensitivity	.25uV 12dB SINAD
Squelch Sensitivity	.22uV 10dB SINAD
Selectivity	60dB (12.5 kHz), 70dB (25 kHz)
Spurious and Harmonic	75dB
FM Hum and Noise	40dB (12.5 kHz), 45dB (25 kHz)
Intermodulation Rejection	70dB
Input Impedance	50 ohms
Audio Output Power	4 Watt (8Ω)
Audio Distortion	3% max w/1 kHz modulation
Audio Response	+1, -3dB from 6dB per octave pre-emphasis and characteristic 300 ~ 3000 Hz

PACKAGE INCLUDES:

Radio, microphone, mounting hardware, and 12V fused power cable.

Specifications are subject to change without notice.

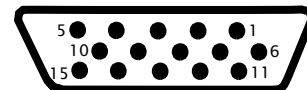
ACCESSORIES



Heavy Duty Microphone
Extra-Long Mic Cord Option
Desktop Base Station Microphone
Base Station Cabinet & Installation
External Speaker

- 1 Disabled (Spare)
- 2 Ignition Signal Input
- 3 Loudspeaker Output
- 4 Audio Frequency Out
- 5 External Mic Input
- 6 Tx Serial Data
- 7 Rx Serial Data
- 8 External PTT
- 9 Disabled (Spare)
- 10 COR/Carrier Operated Squelch
- 11 Disabled (Spare)
- 12 DC Power Supply (+5.0V)
- 13 Horn Relay 1
- 14 Horn Relay 2
- 15 Ground

Data Port Pin Out



DE-15 Female

ENVIRONMENTAL

Operating Temperature	-30° C to +60° C
Storage Temperature	-40° C to +85° C
ESD	IEC 61000-4-2/±8KV/±15 KV

Approvals	FCC	CE	Canada
MDM-4124	VSODM-4100	CE 2784	184A-DM4100
MDM-4424	VSODM-4400	CE 2784	184A-DM4400



Manufactured to ISO-9002:2000 quality standard.

NOTE: Some features indicated by specifications listed are prohibited by FCC rule and are not available on models sold in the U.S. or its territories.

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