

MDP-6124 5/1W VHF (136-174 MHz)

MDP-6424 5/1W UHF (406-470 MHz)

The MDP-6000 Series of radios combine the versatility of the latest Analog and DMR Tier 2 Digital Radio features such as Mixed Mode, AES Encryption, Voice Record, and Texting with exceptional 5W power and IP-67.



- 5/1W VHF and UHF
- 2500 Channels, 64 Zones; 1024 Channels Per Zone
- DMR Tier II TDMA/Analog per Channel
- Mixed Mode (*Digital & Analog*)
- LCD Display (*Numeric or Alphanumeric Selectable*)
- 240 Contacts & Call Log (*Digital Mode*)
- AES Encryption (*128, 192, 256-bit*)
- 2-Pin Audio Connector
- CTCSS/DCS
- Lone Worker
- 5 Levels VOX (*Voice Operated Transmit*)
- One-Touch Text/Calling
- 1 Watt Audio Output
- LED Flashlight
- Battery Saver
- BCL/BCLO (*Busy Channel Lockout*)/(*Busy Channel Lockout Override*)
- Control Volume of Maxon's MDS Wireless Speakers
- Multiple Scan Options
- Voice Recording and Playback
- Password Protected Radio Lock
- Remote Monitor/Stun/Revive
- Programmable Key & Menu Functions
- Wireless and Cabled Cloning
- Vibration
- IP-67 rated for dust ingress & water submergibility
- Man-Down (*Factory Option*)
- TX Inhibit (*Factory Option*)
- DMRA/Motorola-compatible AES 256bit Encryption (*Factory Option*)

10 Cup Dual-Slot Gang Charger

(Radio/Battery & Battery)



## SPECIFICATIONS

### GENERAL

MDP-6124 VHF	136-174 MHz
MDP-6424 UHF	406-470 MHz
Channel Capacity	2500 Ch., 64 Zones; 1024 Ch. per Zone
Digital	DMR Tier II TDMA
Channel Spacing	25/20/12.5 kHz (Analog) 12.5 kHz (Digital) 2 Time Slots of 6.25 Each
Operating Voltage	7.4VDC
Battery Capacity	2600 mAh Li-Ion
Frequency Stability	±1.5 PPM (-30° to +60° C)
Antenna Impedance	50 Ω
Dimensions (H/W/D)	4.52 x 2.17 x 1.26" (115x55x32 mm)
Weight	8.8 oz. (249 g.)
Case/Frame	Polycarbonate/Aluminum Die Cast
Battery Life (Hours)	Analog: 12 Hours, Digital: 15 Hours 90/5/5 duty cycle

### TRANSMITTER

RF Output Power	5/1 Watts
FM Modulation	11K0F3E (12.5 kHz), 14K0F3E (20 kHz), 16K0F3E (25 kHz)
4FSK Digital Modulation	12.5 kHz Data Only: 7K60FXD, 12.5 kHz Data & Voice: 7K60FXW
Conducted/Radiated Emission	-36dBm<1GHz, -30dBm>1GHz
Modulation Limiting	±2.5 kHz (12.5 kHz), ±4.0 kHz (20 kHz), ±5.0 kHz (25 kHz)
FM Noise	40dB (12.5 kHz)
Adjacent Channel Power	60dB (12.5 kHz), 70dB (20/25 kHz)
Audio Distortion	3% maximum with 1kHz modulation
Digital Vocoder Type	AMBE3000 Vocoder Chip with AMBE+2 Voice Compression Algorithm
Digital Protocol	ETSI-TS102 361-1-2-3

### RECEIVER

Sensitivity (Analog)	0.25µV @ 12dB SINAD
Sensitivity (Digital)	0.22µ V/BER 5%
Selectivity TIA-603 ETSI	>65dB (12.5 kHz), 70dB (20/25 kHz)
Intermodulation TIA-603 ETSI	>70dB (12.5/20/25 kHz)
S/N	40dB (12.5 kHz), 43dB (20 kHz), 45dB (25 kHz)
Audio Output Power	1.0 Watt
Audio Distortion	< 3% at rated output
Audio Response	+1,~-3dB From 6dB per octave de-emphasis characteristics
Spurious Emission	70dB

#### PACKAGE INCLUDES:

Radio, 2600 mAh Li-Ion battery, rapid rate desktop charger, antenna, belt clip and user manual. MDP-6424 UHF uses a LCD Display as of 2022

Specifications are subject to change without notice.

## ACCESSORIES



### Charger Options

Dual Slot Rapid Rate Desktop Charger  
2600 mAh Li-Ion Battery  
10 Unit Gang Charger Dual Slot



### Speaker Mic Options

Standard Speaker Microphone  
Heavy Duty Speaker Microphone  
Heavy Duty Speaker Microphone w/Vol Control



### Ear Piece Options

"D" Style Earhook Speaker with Lapel Mic/PTT  
"C" Style Earhook Speaker with Lapel Mic/PTT  
Clear Earbud Speaker with Lapel Mic/PTT



### Other Options

Nylon Carrying Case  
Leather Carrying Case w/Belt Loop/Swivel  
Programming Software and Cable (USB)  
Cloning Cable

### ENVIRONMENTAL

Operating Temperature	-30° C to +60° C
Storage Temperature	-40° C to +85° C
ESD	IEC 61000-4-2/±8KV/±15 KV
Dust & Water Protection	IP-67 Standard

Approvals	FCC	IC	CE
MDP-6124	VSODX-6100	184A-DX6100	CE 2784
MDP-6424	VSODX-6400	184A-DX6400	CE 2784



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.

Maxon America, Inc.

11535 W. 83rd Terrace Lenexa, KS 66214  
Tel: (800) 456-2071 - Tel: (913) 859-9515  
Fax: (913) 859-9550

Web: [www.maxonamerica.com](http://www.maxonamerica.com)  
E-mail: [maxon@maxonamerica.com](mailto:maxon@maxonamerica.com)