

maxon® MDP-5000 Series

Full Featured Handheld Radio

MDP-5116 5/2W VHF (136-174 MHz)
MDP-5416 5/2W UHF (400-480 MHz)
MDP-5124 5/2W VHF (136-174 MHz)
MDP-5424 5/2W UHF (400-480 MHz)



The **MDP-5000 Series** is a reliable and sophisticated 5W digital DMR/Analog radio that is a perfect all-around radio for schools and security, yet rugged for construction and farming use. IP-67 Waterproof & Dustproof. DMR digital features include AES256 encryption, Direct Call contacts, Text Messaging, and Single Frequency Repeater.

- 5/2W RF Power Output for UHF & VHF Models
- 1024 Channels , 10 Zones (Display)
- 48 Channels , 3 Zones (Non-Display)
- Programmable DMR Tier 2 / Analog
- Rotary Channel Knob
- Normal/Priority Scan
- 2600mAh (18Hr) or 3350mAh (21hr) Battery Options
- Clear & loud speaker (1W)
- IP-67 Waterproof & Dust Proof
- VOX (Hand's Free Operation)
- Programmable Text Messaging SMS (Display)
- All Call / Group Call / Direct Call
- Direct Call Contact List (50 Contacts) & Call Log
- Call Alert (Display)
- DTMF Encode
- 2 & 5 Tone Encode / Decode
- Lone Worker
- Emergency Call (Alert)
- Remote Monitor
- Stun / Un-Stun (Display)
- Encryption: ARC4, AES(128, 192, 256 bit)
- TX interrupt (Option)
- Single Frequency Repeater SFR (Option)



MDP-5424/5124

MDP-5416/5116



SPECIFICATIONS

GENERAL

MDP-5116/5124	136-174 MHz
MDP-5416/5424	400-480 MHz
Operating Voltage	7.2 V DC
Operating Temperature	-22° to 140° F (-30° to 60° C)
Frequency Stability	± 2.5 PPM
Dimensions (H/W/D)	MDP-5416/5116 4.41 x 2.08 x 1.28" (112x53x32.5mm) MDP-5424/5124 4.49 x 2.08 x 1.44" (114x53x36.5mm)
Channel Spacing	12.5/25 kHz per channel
PLL Stepping	6.25 kHz
Weight (W/ Battery)	MDP-5416/5116 8.1oz (229 g) MDP-5424/5124 8.8oz (249 g)
Battery Capacity	2600 mAh or 3350 mAh Li-Ion Battery
Battery Life (Hours)	12/20hr* (2600) or 15/26* (3350)

TRANSMITTER

Output Power	VHF 5/2 Watt, UHF 5/2 Watt
Frequency Stability	±2.5 ppm (-30° to 60° C)
Spurious and Harmonic	-65dB
FM Hum and Noise	40dB (12.5 kHz), 45dB (25 kHz)
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	.282uV 12dB SINAD
Squelch Sensitivity	.25uV 10dB SINAD
Selectivity	60dB (12.5 kHz), 70dB (25 kHz)
Spurious and Harmonic	70dB
Inter-modulation	60dB
FM Hum and Noise	40dB
Audio Output Power	1 Watt across 16-ohm load
Audio Distortion	Less than 5% at rated output
Audio Response	+1, -3dB from 6dB per octave pre-emphasis and characteristic 300 ~ 3000 Hz

PACKAGE INCLUDES:

Radio, 2600 mAh Li-Ion battery, dual slot rapid rate desktop charger, antenna, belt clip and user manual. Specifications are subject to change without notice.

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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< Display
Handheld

Non-Display
Handled >



ACCESSORIES

POWER OPTIONS

Dual Slot Rapid Rate Desktop Charger
Single Slot Vehicular Charger
2600 or 3350 mAh Li-Ion Battery
6x6 Dual Slot Charger (Non-Display)



SPEAKER MIC OPTIONS

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

EAR PIECE OPTIONS

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

OTHER OPTIONS

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

Approvals	FCC
MDP-5116	# O25UDR-S100
MDP-5416	# O25UDR-S400
MDP-5124	# O25UDR-100E
MDP-5424	# O25UDR-400E



Manufactured to ISO-9002:2000
quality standard.

maxon®

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