

MP-4116 5/2W VHF (136-174 MHz)  
MP-4416 5/2W UHF (400-470 MHz)  
MP-4124 5/2W VHF (136-174 MHz)  
MP-4424 5/2W UHF (400-470 MHz)

Maxon's MP-4000 Series radios are dependable, durable, affordable, and easy to use. Delivers clear, reliable communications for schools, hotels, restaurants, retail stores, custodial staff, property management and other industrial or commercial needs where radio communication is needed but may have budget constraints. Display models have 1024 Channels, Priority Scan, and various settings within settings menu and PC programmer to personalize the radio. Radio programming via PC Program or Wired Cloning.



- 5/2 Watt UHF or VHF
- 16 Channels (*Non-Display*)
- 1,024 Channels / 32 Groups (*Display*)
- Scan
- BCLO
- TX Inhibit
- Time Out Timer
- Lone Worker
- Emergency Alert
- DTMF Encoder
- DTMF Decoder (*Display*)
- CTCSS/DCS
- LCD Display (*Display*)
- Flashlight (*Display*)
- Programmable Buttons (*Display*)
- Battery Saver (*Display*)
- VOX (*Display*)
- 2-Pin Audio Connector
- IP54 Certified



MP-4116/MP-4416

MP-4124/MP-4424



## SPECIFICATIONS

### GENERAL

MP-4116 VHF	136-174 MHz
MP-4416 UHF	400-470 MHz
MP-4124 VHF (Display)	136-174 MHz
MP-4424 UHF (Display)	400-470 MHz
Channel Capacity	16 Channels (Non-Display)
	1024 Channels, 32 Groups (Display)
Channel Spacing	25/12.5 kHz
Operating Voltage	7.4VDC
Battery Capacity	2600 mAh Li-Ion
Frequency Stability	± 2.5 PPM (-30° to +60° C)
Antenna Impedance	50 Ω
Dimensions (H/W/D)	4.1x 2.1x 1.3" (103x 52x 32mm)
Weight (w/Battery)	8.8 oz. (250g)
Case/Frame	Polycarbonate/Aluminum Die Cast
Battery Life (Hours)	17 HOURS (90/5/5 duty cycle)

### TRANSMITTER

RF Output Power	5/2 Watts
FM Modulation	11K0F3E (12.5 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), ±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	0.25µV @ 12dB SINAD
Selectivity TIA-603 ETSI	>65dB (12.5 kHz), 70dB (25 kHz)
Intermodulation TIA-603 ETSI	>70dB (12.5/25 kHz)
S/N	40dB (12.5 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.

Specifications are subject to change without notice.

## ACCESSORIES



### Charger Options

Dual Slot Rapid Rate Desktop Charger  
2600 mAh Li-Ion Battery  
TSA-6006TS4 - 6 Unit Gang Charger w/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 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)  
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-54 Standard

Approvals	FCC	Industry Canada	CE
MP-4116	VSOXR-150	N/A	CE 1177
MP-4416	VSOXR-450	N/A	CE 1177
MP-4124	VSOXR-150	N/A	CE 1177
MP-4424	VSOXR-450	N/A	CE 1177



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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