

maxon®

MBR-400 Series

Digital Business Radio

MBR-400 2W UHF (440-470 MHz)

The **Maxon MBR-400** is a simple, compact digital business radio perfect for restaurants, supermarkets, social clubs, and stores. Pocket-sized, it fits perfectly in your hand and can be used with an earpiece (included) or its 1W loudspeaker. With a built-in antenna and unobtrusive swivel belt clip, you will be able to act freely and barely notice you are wearing a radio as you communicate to the rest of your co-workers throughout your day. Digital audio ensures conversations are loud & clear.

- Preprogrammed w/ 16 common Jobsite frequencies in DMR Digital
- Programmable (UHF 440-470MHz) for Digital (DMR Tier II TDMA), Analog, or Mixed Mode per Channel via CPS
- 16 Channels, 1 Zone
- 2 Watt (High) / .5W (Low)
- Built in Speaker & MIC (1 Watt Audio output)
- IP54 certified protected against blowing rain
- Built-in Battery (DC+3.7V Li-ion / 2,000Mah); 18hr talk time
- Encryption Mode (AES256)
- Scan Mode
- Channel and Battery Remaining announcement
- Spanish Language (menus)
- Voice recording and playback
- Lone Worker (Safety Feature)
- Emergency / Siren (Programmable Key)
- Remote Radio Stun / Revive (Disable Target Radio) / Time Out Timer (TOT)
- Vibration Function
- VOX (Hands Free TX/RX) , "C" Style Earpiece Included (VOX Enabled)
- Over the Air Program Cloning



6 Radio Multi-Unit Charger



SPECIFICATIONS

GENERAL

Frequency Range	440 ~470 MHz
Frequency Stability	±1.5ppm (-30° to 60° C)
Programmable Channels	16 Channels, 1 Zone
Channel Spacing	12.5KHz
Digital Vocoder	AMBE++ Voice Compression Algorithm
Dimensions	86mm(H) x 51.5mm(W) x 22mm(D)
Weight	100g
Power Source	DC +3.7V Li-ion 2,000mAH Battery (Built-in)
Current Drain (maximum)	Receive mode, rated audio out – 420 (Audio Max) Transmit mode – 1,200mA Standby mode – 100mA

TRANSMITTER

RF Power Output	2 Watt (High) / .5W (Low)
Adjacent Channel Power	60dB
Spurious and Harmonic	-36dBm(<1GHz), -30dBm(>1GHz)
FM Hum and Noise	40dB (12.5KHz)
Audio Distortion	3% maximum with 1KHz modulation
Audio Frequency Response	+1, -3dB from 6dB per octave pre-emphasis Characteristic from 300 ~ 3000Hz
Output Impedance	50ohms

RECEIVER

Sensitivity	0.25uV 12 dB SINAD
Squelch Sensitivity	0.22uV 10dB SINAD
Selectivity	60dB (12.5KHz)
Spurious and Harmonic Rejection	-36dBm(<1GHz), -30dBm(>1GHz)
FM Hum and Noise	40dB (12.5KHz)
Audio Output Power	1 Watt across an 8ohm load
Audio Distortion	Less than 3% at rated output
Audio Response	+1, -3 dB from 6dB per octave de-emphasis Characteristic from 300 ~ 3000Hz
Input Impedance	50 ohms

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IN BOX ACCESSORIES

Maxon Swivel Belt Clip, Single-slot charger, USB-C Charger Cord w/Wall Plug, "C" Style earpiece (Vox Enabled)



ADDITIONAL CHARGER OPTIONS

6 Radio Multi-Unit Charger
Charges using a USB-C Cable and 5V Wall Plug

Approvals	FCC	IC	CE
MBR-400	VSODX-300	184A-DX300	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.

Specifications are subject to change without notice.

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