

M200V DMR Radio

Mobile Two-Way VHF Digital Mobile Radio

Product Description

The Mobile DMR Radio is a highly capable, reliable, modern, digital mobile radio solution that is designed for mission critical environments. It offers a digital communications solution based on the DMR standard.

System Features

Main Features:

- 16 Zones
- 256 Digital, 256 Analog channels
- Keylock Auto/Manual
- Squelch Setting
- Monitor / Permanent Monitor
- Talk Around
- Backlight Control
- TOT
- Scan
- Priority Scan
- High / Low Power
- Zone Setting
- Display Mode
- Keytone Control

Digital Features:

- Voice Encryption
- Private / Group / General Call
- Remote Kill / Revive
- SMS
- Call Log
- Call Alert
- Remote Monitor
- Remote Detection
- Emergency Alarm
- Contact List
- Scan List
- GPS (Optional)

Analog Features:

- CTCSS
- Narrow/Wide Band
- DCS
- Commander (Optional)
- Scrambler (Optional)
- Large-Size Color LCD Display
- TDMA Working Mode
- Dual Mode (Digital / Analog)
- Digital/Analog Mode Switch on Same Frequency
- Versatile Voice Calls Include Individual Call, Group Call, and All-Call
- Call Log to Check Records for Incoming, Outgoing, and Missed Calls
- 16-Bit Digital Voice Encryption
- GPS Supports NMEA Standard (Optional)
- FM Radio
- With DVIS-AMBE+2™ Vocoder
- Software Upgradable



Specifications:

- Frequency Range: (VHF) 136-174MHz
- Channel Zones: 16
- Total Channel Capacity (512): 256 (Analog)
256 (Digital)
- Digital Mode: TDMA T2(DMR)
- Temperature: -20°C-+60°C
- Dimensions (H*W*D): 140*175*46mm
- Voltage Input: DC: 13.8V

Receiver:

- Frequency: (VHF) 136-174MHz
- Channel Spacing: 12.5kHz / 25kHz / 6.25kHz
- Frequency Stability: +/- 1.5ppm
- Analog Sensitivity: 0.3uV / 0.25uV
(12 dB SINAD)
- Digital Sensitivity (5% BER): 0.3uV
- Adjacent Channel Rejection: 65dB
- Adjacent Channel Selectivity: 60dB@12.5kHz / 65dB@25kHz
- Spurious Rejection: 65dB
- Rated Audio Output: 2w
- Audio Distortion @Rated Audio: 3%
- FM Hum & Noise: -40dB @12.5kHz / -45dB @25kHz
- Audio Response: +1,-3dB
- Conducted /Radiated Emission: -57dBm

Transmitter:

- Frequency: (VHF) 136-174MHz
- Channel Spacing: 12.5kHz / 25kHz / 6.25kHz
- Frequency Stability: +/- 1.5ppm
- Low Power: L: 25W
- High Power: H: 40W
- Modulation Restriction: $\pm 2.5\text{kHz}@12.5\text{kHz}$ / $\pm 5\text{kHz}@25\text{kHz}$
- FM Hum & Noise: -40dB @12.5kHz / -45dB @25kHz
- Conducted / Radiated Emission: -36dBm < 1GHz / -30dBm > 1GHz
- Adjacent Channel Selectivity: -60dB@12.5kHz / -65dB@25kHz
- Audio Response: +1,-3dB
- Audio Distortion: 3%
- FM Modulation: 12.5kHz: 11K0F3E
25kHz: 16K0F3E
- 4FSK Digital Modulation: 12.5kHz Data: 7K60F1D & 7K60FXD
12.5kHz Audio: 7K60F1E & 7K60FXE
12.5kHz Data & Audio: 7K60F1W
- Digital Vocoder: AMBE+2™
- Digital Agreement: ETSI-TS102 361-1, -2, -3

GPS (Optional):

- TTFF (Time to First Fix) Cold Start: < 1 Minutes
- TTFF (Time to First Fix) Warm Start: < 10 Seconds
- Horizontal Position Accuracy: < 10 Milliseconds