



IMD52(G)

DMR Vehicular Radio Communication System

IMD52(G) civil vehicular radio is new generation of civil radios under the DMR Tier II/III standard which is used for covering and establishing reliable high quality communication in each level of organization. This radio is operated as a vehicular/stationary radio to exchange vital and online information. High-quality voice transmission due to available Codecs and digital error correction processes, best-quality voice in noisy circumstances and borders of network radio coverage, supporting digital and analog modes, SMS sending/receiving, establishing private/group/broadcast/emergency communication, establishing encrypted communication due to encryption technology of the radio in digital and analog modes, reliability and excellent quality, benefitting from the GPS module optionally and capability of observing geographical location, different expanding ports, large size and color display screen, keypad for different functions (such as SMS sending/receiving and changing the radio parameters), and defining short keys are some technical feature of the IMD52(G) radio set.

General specifications

Frequency range.....	UHF: 350~400 MHz/400~470 MHz/450~520 MHz VHF: 136~174 MHz
Number of channels.....	1024
Zone capacity.....	64 (each zone with maximum 16 channels)
Channel spacing.....	12.5KHz/20KHz/25KHz
Frequency stability.....	±1.5ppm
Antenna impedance.....	50Ω

Receiver specifications

Analogue sensitivity.....	0.3μV (12dB SINAD)/0.22μV typically (12dB SINAD)/0.4μV (20dB SINAD)
Digital sensitivity.....	0.3μV / BER5%

Transmitter specifications

RF output power.....	UHF: 5~45W (adjustable)\VHF: 5~50W (adjustable)
Analogue modulation type.....	FM
Digital modulation type.....	4FSK
Audio distortion.....	≤3%
Audio response.....	+1 ~ -3dB
Voice compression.....	SELP
Digital protocol.....	ETSI-TS102 361-1,-2,-3

Physical and environmental specifications

Weight.....	1.7Kg
Dimension (H×W×D).....	600×174×200 mm (with standard battery and without antenna)
LCD dimension.....	2 inch, 4 rows
Operating temperature.....	-30°C ~ +60°C
Storage temperature.....	-40°C ~ +85°C
Standards.....	MIL-STD-810 C/D/E/F/G and IP67