



IPD42(G)

DMR Handheld Radio Communication System

IPD42(G) civil handheld radio is new generation of civil radios under the DMR Tier II/III standard. This radio is operated in the civil radio networks as a handheld radio. Using repeater, radio coverage range of these radios can be increased. Benefitting from the two analogue and digital modes, communication is established between the IPD42(G) and old analogue networks. In addition, operating this radio set, private/group communication can be established as well as SMS sending and data transmission. Large size of display screen, keypad with capability of defining the short keys, supporting the 12.5/20/25 KHz, 1024 preset channels, scanning the channels, defining high/low power levels and setting the short keys, high receiving sensitivity, meeting international standards, dual-purpose antenna for the GPS and wave transmission, and capability of selecting the GPS as an optional facility are other features of the IPD42(G).

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: Low Power: 1W/High Power: 4W/adjustable VHF: Low Power: 1W/High Power: 5W/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.....	355gr
Dimension (H×W×D).....	128×55×35 mm (with standard battery and without antenna)
LCD dimension.....	1.8 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