

RL-D800

DMR Digital/ Analog Handheld Radio

General Features

- Operate in both Digital/ Analog mode
- Time Division Multiple Access (TDMA) digital technology
- Support dual time slots even on tier 1 direct mode
- DTMF/2 tone/ 5tone encode/ decode;
MDC 1200 encode in Analog mode
- CTCSS/ DCS signaling in Analog mode
- Channel spacing: 12.5KHz (Digital), 25/ 12.5KHz (Analog)
- Channel numbers: 64
- Clear voice communications
- IP67 environmental protection
- Meets MIL-STD810
- Optional GPS-Mic and Bluetooth dongle

Digital Mode Features

- Contact list for up to 1024 records
- Private call, group call and all call
- Emergency, call alert, radio check, radio enable/ disable
- Privacy voice encryption
- Remote radio monitor
- Mixed mode (Analog/ Digital) scanning
- One touch access
- Optional Man-down alert & voice recorder



Technical Specifications

General	
Model	RL-D800
Frequency	136~174MHz, 405~480MHz
Channel Numbers	RL-D800: 64
Working Voltage	7.4V
Operating Temperature	-30℃ ~ + 60℃
Store Temperature	-40℃ ~ + 85℃
Weight	270g (estimate) With Standard Li-ion battery
Dimensions :H x W x D(mm)	113.5 X 54 X 33.5 With Standard Li-ion battery
Dust-protection and water resistant	IP67
Output Power	≥ 5W
Battery Life	1800 mAh Standard Li-ion battery
	Analog: 10hours; Digital: 14hours (5/5/90 Duty Cycle)
Receiver	
Channel Spacing	12.5/ 25 KHz
Frequency Stability	+/- 1.0ppm
Analog Sensitivity	0.35uV/-116dBm(20 dB SINAD)
	0.22uV/-120dBm(Type)
Digital Sensitivity	0.3uV/-117.4dBm (BER 5%)
	0.7uV/-110dBm (BER 1%)
Intermodulation	TIA603C : 70dB ETSI : 65dB
Adjacent Channel Selectivity	TIA603C : 65dB@12.5KHz
	ETSI: 60dB@12.5KHz
Co-Channel rejection	12dB@12.5KHz
Spurious Response rejection	TIA603C : 75dB ETSI : 70dB
Conducted spurious emission	-57dBm@ < 1GHz , -47dBm @> 1GHz
Blocking	84dB
Rated Audio Power	1W
Audio Response	+1dB ~ -3dB
Rated Audio Distortion	≤ 3% (Type)
Transmitter	
Channel Spacing	12.5/ 25 KHz
Frequency Stability	+/- 1.0ppm
Transmit Power	VHF: 1/5W UHF: 1/4W
Hum and Noise	-40dB@12.5KHz
Conducted, radiated spurious emission	-36dBm@<1GHz, -30dBm@>1GHz
Adjacent Channel Power	-60dB@12.5KHz
Adjacent Transient Channel Power	-50dB@12.5KHz
FM Modulation Mode	12.5KHz : 11K0F3E
4FSK Digital Modulation	12.5KHz (data only) : 7K60FXD
	12.5KHz (data + voice) : 7K60FXE
Modulation Maximum Deviation	2.2KHz@12.5KHz
Idle Slot Power	-57dBm
Audio Response	+1dB ~ -3dB
FSK Error	≤ 3% (Type)
Digital Protocol	ETSI TS 102 361-1, -2, -3
Vocoder Type	AMBE + 2™

