

DMR Handheld Radio

Model: RL-D500K



Main Features:

- ◆ 1.8" Transflective TFT LCD Display
- ◆ IP67 and MIL-STD-810 Standards Compliance
- ◆ DMR Tier II conventional
- ◆ Built-in GPS and Mandown (Optional)
- ◆ Built-in Bluetooth (Optional)
- ◆ High Capacity Battery Design
(2000mAh high capacity Li-ion battery)
- ◆ Fast charge,
85% of battery capacity finished within 1 hour
- ◆ DMR multi-site IP connection (Optional)
- ◆ AES/DES Encryption (Optional)
- ◆ Easy Trunk(Optional)
- ◆ Support MPT 1327 capacity(Optional)

Specifications

General	
Frequency	VHF:136-174 MHz UHF:400-470MHz / 450-520MHz
Channel Capacity	1024
Channel Space	12.5KHz/20KHz/25KHz
Dimensions(H*W*D)	115*54*28 mm
Weight	278g (With standard battery and antenna)
Operating Voltage	DC13.6V±15% / AC100-240VA
Battery	2000mAh Li-ion 2400mAh Li-ion

Transmitter	
Frequency Stability	0.5ppm
RF Power Output	VHF: High 5W Low 1W UHF: High 4W Low 1W
Digital Modulation	7K60FXD(Data Only) 7K60FXW (Data and Voice)
Analog Modulation	16K ϕ F3E@25KHz 11K ϕ F3E@12.5KHz
4FSK Modulation Accuracy	5%
4FSK TX BER	0%
4FSK and Magnitude Error	5% /1%
Adjacent Channel Power	70dB@25KHz /60dB@12.5KHz
Conducted and Radiated Emission	-36dBm <1GHz /-30dBm >1GHz
Transmission Deviation limits	5KHz@25KHz /4KHz@20KHz 2.5KHz@12.5KHz
Audio Distortion	3%
Hum & Noise	45dB@25KHz /43dB@20KHz 40dB@12.5KHz
Audio Response	+1dB~-3dB

Receiver	
Digital Sensitivity	-120dBm/BER 5% -116dBm/BER 1%
Digital Dynamic Faded Sensitivity (100KM/H& 8KM/H Rayleigh Fading)	-104dBm
Analog Sensitivity	-120dBm/12dB SINAD
Intermodulation	65dB (TIA603) /65dB(ETSI)
Blocking	90dB (TIA603 & ETSI)
Spurious Response Rejection	70dB (TIA603 & ETSI)
Adjacent Channel Selectivity	70dB@25 KHz & 20 KHz(ETSI) 60dB@12.5KHz(ETSI)
Conducted Spurious Emission	-57dBm
Rated Audio Power Output	0.5W
Rated Audio Distortion	3%
Hum and Noise	45dB @25KHz /43dB@20KHz 40dB@12.5KHz
Audio Response	+1dB ~-3dB
Digital Vocoder Type	AMBE++
Digital Protocol	ETSI-TS102 361-1, -2,-3

Reliability	
Operating Temperature	-30 ~ +60°C
Storage Temperature	-40 ~+85°C
Shock & Vibration	Per MIL-STD-810 C/D/E/F/G standard
ESD	IEC 61000-4-2(level 4) ±8KV (Contact) , ±15KV (Air)
IP Rating/Humidity	IP67 (IEC60529)

Accessories

Standard Accessories



Battery



Charger



Power Adapter



Antenna



Belt Clip



Hang Rope



User Manual