



WR5000

Conventional Handheld Radio

Key Features:

- 16 Channels/32 channels (optional)
- IP65 Water Resistance & Dust Protection
- Full Band Frequencies: 136-174MHz, 400-470MHz, 450-520MHz
- Voice Annunciation
- Emergency Alert Sound or Alert w/ Auto Transmit
- CTCSS/DCS Scan
- 2-Tone, 5-Tone, DTMF, MDC1200 (Encoder)
- 2-Tone, 5-Tone Decoder (Optional)
- Li-Ion Battery 1300mAH (Standard), 1700mAH (Optional)



The WR5000/5100 is a rugged handheld radio that meets the IP-65 standards for water resistance and dust protection. Compact and easy to use, it is a reliable and affordable two-way radio for small and medium sized organizations. Ideal when you need communication you can depend on but at a price you can afford, as after the handsets are purchased there are no call charges and no monthly fees. Designed with some unique features like CTCSS/DCS Scan, Voice Operated Transmission (VOX) and a High Capacity Battery that will clearly separate it from its closest competitors.

Applications:

- Hospitality
- Public Safety
- Utilities
- Transport
- Construction/Builders
- Healthcare
- National/Local Government
- Security Agencies
- Retail
- Manufacturing
- Construction/Builders
- Private Networks, etc.

Applicable U.S. Military Specifications & IP Rating

WR5000

Conventional Handheld Radio



Key Features

- Water Resistance & Dust Protection**
 The radio meets the requirements for Ingress Protection IP-65 Standard. This protect the radio unit from both very wet and dusty environments.
- Wide Band**
 Allows the radio to be programmed in: VHF Band - 136-174MHz and UHF Band - 400-470MHz & 450-520MHz.
- Signaling**
 Signalling options includes: 2-Tone, 5-Tone, DTMF, & MDC1200 signalling system for PTT ID, Individual Call & Group Call.
- Voice Annunciation**
 The radio will let you know what channel is selected every time you turn the channel knob with a voice announcement. No need to talk or look at the channel knob on the radios. It can also give you a prompt announcement such as battery status, squelch level information, etc.
- CTCSS/DCS Scan**
 Scans an RF channel with any CTCSS or DCS and can join group with this feature easily.
- Emergency Alert**
 Radio emits an emergency alert sound once the emergency button is pressed to alert people during emergency situation or the person under distress.
- VOX**
 Allows hands free operation of the radio when the appropriate VOX accessory is attached.
- Powerful Audio Output**
 A 1-watt rated audio output ensures a clear audio even in the noisiest of environments.
- PC Tuning**
 Simplifies maintenance of the radio and tuning of the radio by allowing both calibration and programming using PC software.
- Embedded Message & Serial Number**
 The radio can store both messages and records, e.g. maintenance, history or programming records, The electronic serial number (ESN) makes the unit identifiable even the radio's tag with the serial number & other information is lost or removed.
- Password Protection**
 A radio password can be designated upon PC programming. This protects the radio from unauthorized change in program or accessing information related to the radio.

Accessories:



Accessories: (optional)



Specifications

General

Power Supply	7.5VDC ±20%
Operating Frequencies	136-174MHz, 400-470MHz, 450-520MHz
Number of Channels	16 channels (32 channels Optional)
Channel Spacing	12.5/20/25kHz
PLL Step	2.5/5/6.25kHz
Type of Emissions	16K0F3E/11K0F3E
Current Drain (Approx)	Tx High<1.5A Rx Max. audio,330mA (Internal Speaker) Standby <70mA
Antenna Impedance	50Ω
Operating Temperature	-30°C to +60°C
Dimensions: H x W x D (mm)	96.5 x 54 x 32 with Li-ion Battery
Weight (gm)	235g (estimate)
Average Battery Life @ 5/5/90 cycle	12 hours (1300mAh)

Transmitter

Frequency Stability	2.5ppm (-30°C to +60°C, 25°C Reference)
Power Output	1W(L), 2W(M), 4 or 5W(H)
Modulation Limiting	±2.5kHz@12.5kHz, ±4kHz@20kHz, ±5kHz@25kHz
FM Hum & Noise	-45dB/-40dB typical (Wide/Narrow)
Conducted/Radiated Emission	-36dBm<1GHz, -30dBm>1GHz
Adjacent Channel Power	-60dB@12.5kHz, -70dB@20/25kHz
Audio Response (300-3000Hz)	+1 to -3dB
Audio Distortion	<3%
Ext. Microphone Connector	Compatible with EP450

Receiver

Sensitivity (12dB SINAD) EIA	0.28μV@12.5kHz 0.25μV@20/25kHz typical
Sensitivity (20dB SINAD) ETS	0.50μV typical
Intermodulation EIA	70dB
Adjacent Channel Selectivity	60dB@12,5kHz, 70dB@20/25kHz
Spurious Rejection	70dB
Rated Audio	1000mW
Audio Distortion @ Rated Audio	3%
Audio Response (300 - 3000Hz)	-1 to -3dB
Conducted Spurious Emissions	-57dBm<1GHz -47dBm>1GHz ETS300 086

Applicable U. S. Military Specifications & IP Rating

Standard	MIL 810F	
	Method	Procedure
Low Pressure	500.4	I, II
High Temperature	501.4	I, II
Low Temperature	502.4	I, II
Temperature Shock	503.4	I
Solar Radiation	505.4	I
Rain Blowing/Drip	506.4	I, III
Humidity	507.4	-
Salt Fog	509.4	-
Dust Blowing	510.4	I
Vibration	514.5	I
Shock	516.5	I, IV
Also meets equivalent MIL-STD-819-C, D and E		
Ingress Protection Standard		
Dust and Water	IP65 (Dust-protection and water resistant)	

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