



RDR25x0 SERIES



RDR2500

RDR2550







PRODIGI[™], the Intelligent Choice for Digital Two-Way Communication

SIMPLE AND RELIABLE COMMUNICATION The RCA RDR2500 and RDR2550 are simple and cost-effective Professional DMR Digital Radios designed to connect your workforce efficiently, providing reliable communication allowing your team to focus on growing your business.

CROSS-BAND COMPATIBILITY Designed strictly according to the Digital DMR ETSI Standard TS 102 361-1,-2,-3, the RDR25x0 Series portable radios are compatible with all RCA two-way radios as well as all other major brands, including digital equipment, such as the Motorola MotoTrbo[™] and Vertex eVerge[™] series two-way radios and repeaters.

UPGRADE TO DIGITAL AT YOUR OWN SPEED Analog and Digital operation will give you the flexibility to upgrade to Digital at your own speed, without sacrificing safety and keeping your business operations running smoothly during the transition period.

RELIABILITY, SAFETY, AND PRODUCTIVITY FIRST The RDR25x0 series provides a reliable, cost-effective communication solution with a simple, user-friendly operation that will help your employees connect, collaborate and coordinate in real time to get their job done safely and more efficiently.

FULL SHIFT PERFORMANCE Designed to be power efficient. When working in digital mode, the battery power consumption is lowered up to 40%, providing longer operating time which ensures that your employees will stay connected beyond a full working shift. The standard 1800mAh Lithium Ion battery provides up to 10 hours of operation in Analog mode and up to 14 hours of operation in Digital mode.

TRUE OPERATIONAL VERSATILITY The RDR25x0 series radios come in two (2) different models, the standard no display RDR2500 unit and the upgraded RDR2550 equipped with 16 character display and industry leading 7 programmable function buttons. Different departments, work crews, managers and employees can choose to use the best model for their needs, taking advantage of advanced features such as Caller ID, Group and Private Call, Radio Check, Radio Enable/Disable, Emergency and Lone Worker Alerts, Text Messaging, Direct Mode Operation (DMO)*, Digital Encryption and many more.

CLEAR AUDIO, IMPROVED COVERAGE Designed with X-Sound+ HD[™] for exceptional voice quality. The RDR25x0 series radios provide loud 1 Watt of power audio, at the same time eliminating background noise and static from the voice transmissions and delivering crystal clear voice message which results in a better, improved radio coverage.

INDUSTRY LEADING WARRANTY The RDR25x0 series radios are backed by an industry leading, hassle-free, Two (2) Year Warranty.



Features & Options

- 4 Programmable Keys (RDR2500)
- 9 Programmable Keys (RDR)
- Limited Keypad (RDR2500)
- 16-Character Alphanumeric Display (RDR2550)
- LED Indicato
- Voice Channel Announce (RDR2500)
- RSSI Indicator (RDR2550)
- Battery Level Indicator
- CTCSS/DCS Encode/Decode
- DTMF Encode / Decode (RDR2550)
- VOX Voice Activated Transmission
- Scan and Priority Scan
- Mixed Mode (Analog / Digital) Scan
- Channel Activity Monitor
- Voice Channel Announce (RDR2500)
- Alert Tones On/Off
- RPT / Talkaround
- IP54 Design
- Designed to Meet MIL-STD 810 C,D,E,F,G

Digital Mode Specific Features

- Contact List for Up to 1,000 Records (RDR2550)
- All Call, Group Call, Private Call
- PTT ID Encode (RDR2500)
- PTT ID Encode/Decode (RDR2550)
- Basic Digital Encryption
- Advanced Digital Encryption*
- Radio Check
- Radio Kill / Active
- Remote Radio Monitor
- Emergency Alert
- Lone Worker Alert
- Direct Mode Operation (DMO)*
- Pre-Saved (Quick)Text Messaging
- One Touch Access

*Optional Features

RDR2500 / RDR2550 SPECIFICATIONS

GENERAL SPECIFICATIONS			
Model		RDR2500 [™] / RDR2550 [™]	
Channel Numbers		32 / 1000	
Channel Spacing		Digital:12.5KHz / Analog:12.5KHz/25KHz	
Working Voltage		DC 7.4V	
Frequency		VHF: 136-174MHz / UHF: 400-470MHz	
Operating Temperature		-4°F~+140°F (-20°C~+60°C)	
Storage Temperature		-40°F~+122°F (-40°C~+50°C)	
Weight		318g / 0.7 lb. (with battery B2618LI)	
Size: HxWxD (inches)		5.3" x 2.3" x 1.3" (without antenna)	
Waterproof Level		IP54 Dust and Water Resistant	
Battery	Supplied	7.4V 1800mAh Lithium-Ion Battery; 13.32 Wh	

RECEIVER			
Frequency Stability	± 0.5 ppm		
Anaglog Sensitivity	0.22µV / -120dBm (12dB SINAD)		
Digital Sensitivity	0.2uV/-121dBm (BER 5%)		
Intermodulation	60dB		
Adjacent Channel Selectivity	65dB@12.5KHz		
Co-Channel Rejection	12dB@12.5KHz		
Spurious Response Rejection	70dB		
Receive	-57dBm@<1GHz,		
Spurious Radiation	-47dBm@>1GHz		
Block	84dB		
Rated Audio Power	1W @16 Ohms		
Rated Audio Distortion	≤3%		

TRANSMITTER			
Transmit Power		5W	
FM Noise		40dB@12.5KHz	
Intermodulation		60dB	
Transmit Spurious Radiation		-36dBm@<1GHz, -30dBm@>1GHz	
Adjacent Channel Power		-60dB@12.5KHz	
Modulation Limit		2.5KHz@12.5KHz	
Idle Slot Power		-57dBm	
Audio Response		+1dB(-3)dB	
Rated Audio Distortion		≤3%	
FSK Error		≤3%	
Emisson	Analog	6K0F3E, 6K40F3E, 6K56F3E, 6K72F3E, 7K52F3E, 12K5F3E	
Designator	4FSK Digital	5K6F1D/F1W, 7K52F1D, 7K68F1D/F1W/F7W, 7K84F1D/F1W/F7W / 8K00F7W / 8K32F7W, 8K96F1D/F1W, 12K5F1D/F1W	

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