

## RDR3000 SERIES



RDR3500

RDR3600

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

**EXCEPTIONAL AUDIO QUALITY, BETTER COVERAGE** The RCA PRODIGI™ digital radios are designed with X-Sound+ HD™ for exceptional voice quality. The RDR3500/RDR3600 radios completely eliminate background noise and static from voice transmissions, and deliver a crystal clear message which results in improved radio coverage over analog.

**ANALOG + DIGITAL OPERATION** The PRODIGI™ Radio Series can operate in both analog and digital modes and can be used with existing analog equipment. If you want to upgrade from analog but don't have the budget to change all your radios at once, the RCA RDR3500/RDR3600 radios will allow you to purchase new digital radios at your own pace.

**INTELLIGENTLY DESIGNED** Every aspect of the RDR3500/RDR3600 radio has been engineered with efficiency in mind. These radios provide a compact, lightweight design, that is simple to use which makes them just as economical to operate as they are to buy. The PRODIGI™ radios have also incorporated an advanced multi-pin, screw-on accessory connector which easily secures accessories to your radio, in just seconds.

**POWER IS PERFORMANCE** The PRODIGI™ Radios are specifically designed to conserve battery power. When used in digital mode, your battery's power consumption is reduced by up to 40%. This guarantees your employees an extended operating time, ensuring that they will stay connected during longer working hours. Thus, completely eliminating the need to recharge the radio mid-shift.

**EMERGENCY AND SECURITY** In critical situations, the RDR3500/RDR3600 allows the user to initiate an emergency alarm at any time, which overrides all current activity on the channel. Additionally, if any radio in the system is lost or stolen, users can easily disable the missing radio and enable it once it's recovered.

**ENHANCED PRIVACY CONTROL** PRODIGI™ radio users can talk privately with specific groups or individuals without broadcasting over the system. For added privacy, users have the option to employ digitally based voice encryption to prevent unauthorized transmission monitoring.

**SUBMERSIBLE AND WEATHERPROOF** Meeting IP67 certification standards, the RDR3500/RDR3600 radios are completely protected from dust and water. PRODIGI™ radios are built to withstand being fully submerged in up to 3 feet (1 meter) of water for as long as 30 minutes.

**INDUSTRY LEADING WARRANTY** The RDR3500/RDR3600 radios are backed by a hassle-free, Three (3) Year Warranty.

**SELECTALK™**  
PRIVATE AND GROUP CALLING

ENHANCED  
EMERGENCY  
& SAFETY  
FEATURES

**3 YEAR**  
WARRANTY  
PROTECTION PROGRAM

**DMR**  
DIGITAL MOBILE RADIO ASSOCIATION

**X-SOUND+HD™**  
Enhanced Audio Clarity™

## RDR3500 / RDR3600 SPECIFICATIONS

### Features and Options

- 4 Programmable Keys (RDR3600/RDR3500)
- 16-Character Alpha Numeric Display (RDR3600)
- Full Keypad (RDR3600)
- LED Indicator
- Voice Channel Announce (RDR3500)
- RSSI Indicator (RDR3600)
- Battery Level Indicator
- CTCSS/DCS Encode/Decode
- DTMF Encode
- DTMF Paging (RDR3600)
- PTT ID
- VOX - Voice Activated Feature
- Scanning
- Channel Activity Monitor
- Fully Submersible - IP67 Certified
- Meets MIL-STD requirements

### Digital Mode Specific Features

- Contact List for Up to 1,000 Records
- All Call, Group Call, Private Call
- Privacy Voice Encryption (RDR3500/RDR3600)
- Radio Check
- Radio Kill/Active
- Remote Radio Monitor
- Emergency Alert
- Lone Worker Alert
- Text Messaging
- PTT ID Encode (RDR3500)
- PTT ID Encode/Decode (RDR3600)
- Mixed Mode (Analog/Digital) Scanning
- One Touch Access
- Keypad Lock (RDR3600)
- Voice Channel Announce

GENERAL SPECIFICATIONS		
Model	RDR3500™ / RDR3600™	
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 UHF: 450-500Mhz	
Operating Temperature	(-20°C)~+50°C / (-4°F)~+122°F	
Storage Temperature	(-40°C)~+80°C / (-40°F)~+176°F	
Weight	320g / 0.7 lb.	
Size: HxWxD (inches)	5.3" x 2.5" x 1.5" (without antenna)	
Waterproof Level	IP67	
Battery	Supplied	7.4V 1800mAh Lithium-Ion Battery; 13.3 Wh
	Upgrade	7.4V 2200mAh Lithium-Ion Battery; 16.28 Wh
Emission Designators	Analog	10K0F3E, 10K1F3E, 12K5F3E
	Digital	6K91FXD/FXW, 7K31FXW, 7K52FXW, 12K5FXD/FXW

RECEIVER	
Frequency Stability	± 1.0 ppm
Analog Sensitivity	0.22µV / -120dBm (12dB SINAD)
Digital Sensitivity	32/0.3uV/-117.4dBm (BER 5%) 0.7uV/-110dBm (BER 1%)
Intermodulation	60dB
Adjacent Channel Selectivity	60dB@12.5KHz
Co-Channel Rejection	-8dB@12.5KHz
Spurious Response Rejection	70dB
Receive Spurious Radiation	-57dBm@<1GHz, -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
Modulation Character	+1dB---(-3)dB
FSK Error	≤3%
4FSK Digital Modulation	12.5KHz Data: 7K60F1D & 7K60FXD
	12.5KHz Voice: 7K60F1E & 7K60FXE
	Combination of 12.5 kHz Voice and Data: 7K60F1W

Authorized Distributor: