



RCA
Communications Systems

prodigiTM SERIES
PROFESSIONAL DIGITAL RADIO PRODUCTS



RDR1520 UHF / VHF

**The Intelligent Choice for
Digital Two-Way Communication**



LIGHTWEIGHT, DURABLE DIGITAL!

prodigi[™]
PROFESSIONAL DIGITAL RADIO PRODUCTS

The RDR1520 RCA PRODIGI[™] Radio is one of the most compact and lightweight commercial radios available on the market. Operational in both digital and analog modes, the PRODIGI[™] Series delivers crystal clear, dependable communication. RDR1520 is designed to be used in a wide range of applications. Industries such as small schools, retail stores, restaurants, nightclubs, churches, and nurseries, all benefit from its basic push to talk functionality and advanced emergency features.

RDR1520 FEATURES

Simple and Reliable Digital Two-Way

Communication The RDR1520 series is the newest addition to the PRODIGI[™] line of Professional DMR Digital Radios. Simple and cost-effective, the RCA digital radios are designed to connect your staff members efficiently and provide you with reliable communication.

Cross-Band Compatibility Designed strictly according to the Digital DMR ETSI Standard TS 102 361-1,-2,-3, the RDR1520 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 RDR1520 series provides a reliable, cost-effective communication solution with a simple, user-friendly operation that will help your staff members 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 2000mAh Lithium Ion battery provides up to 8 hours of operation in Analog mode and up to 10 hours of operation in Digital mode.

Feature Rich Digital Radio The RDR1520 series radios come with 2 programmable function buttons and users can take advantage of advanced digital features such as Caller ID, Group and Private Call, Radio Check, Radio Enable/Disable, Emergency and Lone Worker Alerts, Text Messaging, TX Override, Direct Mode Operation (DMO) and many more.

Crystal Clear Audio Quality, Improved Coverage As part of RCA's PRODIGI[™] Series family the RDR1520 is designed with X-Sound+ HD[™] technology for exceptional voice quality. The RDR1520 series radios provide a powerful for its compact size 800mW 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 over legacy analog radios.

Industry Leading Warranty The RDR1520 series radios are backed by an industry leading, hassle-free, Two (2) Year Warranty.



RDR1520

Durable, Screw-On
Belt Clip.

Commercial Drop-In
Rapid Charger

SELECTALK[™]
PRIVATE AND GROUP CALLING

2
YEAR
WARRANTY
PROTECTION PROGRAM

DMR
DIGITAL MOBILE RADIO ASSOCIATION

ENHANCED
EMERGENCY
& SAFETY
FEATURES

X-SOUND+HD
Enhanced Audio Clarity[™]



RDR1520 SPECIFICATIONS

Features & Options

- Analog and DMR TII Digital Operation
- 2 Programmable Keys
- LED Indicator
- Voice Channel Annunciation
- Battery Level Indicator
- CTCSS/DCS Encode/Decode
- DTMF Encode
- VOX - Voice Activated Transmission
- Scan
- Mixed Mode (Analog / Digital) Scan
- Priority Scan
- Channel Activity Monitor
- Alert Tones On/Off
- Meets IP Standard IP54
- Meets MIL-STD 810 C,D,E,F,G

Digital Mode Specific Features

- Contact List for Up to 1,000 Records
- All Call, Group Call, Private Call
- PTT ID Encode
- Privacy Voice Encryption
- Radio Check
- Radio Kill / Active
- Remote Radio Monitor
- Emergency Alert
- Lone Worker Alert
- Pre-Saved (Quick)Text Message
- One Touch Access Buttons

GENERAL SPECIFICATIONS

Model	RDR1520™
Channel Numbers	32
Channel Spacing	Digital:12.5KHz / Analog:12.5KHz/25KHz
Working Voltage	DC 3.7V
Frequency	VHF: 136-174MHz / UHF: 400-470MHz
Operating Temperature	(-30°C)~+60°C / (-22°F)~+122°F
Storage Temperature	(-40°C)~+80°C / (-40°F)~+176°F
Weight	184.6g / 6.5 oz. (with battery B1520LI)
Size: HxWxD (inches)	4.9" x 2.1" x 1.1" (without antenna)
Waterproof Level	IP54 Dust and Water Resistant
Battery	Supplied Upgrade 3.7V 2000mAh Lithium-Ion Battery; 7.4 Wh 3.7V 2250mAh Lithium-Ion Battery; 8.32 Wh

RECEIVER

Frequency Stability	± 1 ppm
Analog Sensitivity	0.22µV / -120dBm (12dB SINAD)
Digital Sensitivity	0.2µV/-121dBm (BER 5%)
Intermodulation	-60dB
Adjacent Channel Selectivity	-65dB@12.5KHz
Co-Channel Rejection	-8dB@12.5KHz
Spurious Response Rejection	≥ -70dB
Receive Spurious Radiation	-57dBm@<1GHz, -47dBm@>1GHz
Block	89dB
Rated Audio Power	0.6W @8 Ohms, ≤3% Distortion

TRANSMITTER

Transmit Power	≤3W
FM Noise	-40dB@12.5KHz
Intermodulation	-60dB
Transmit Spurious Radiation	-36dBm@<1GHz, -30dBm@>1GHz
Adjacent Channel Power	-65dB@12.5KHz
Modulation Limit	≤2.5KHz@12.5KHz
Idle Slot Power	-57dBm
Audio Response	+1dB--(-3)dB
Rated Audio Distortion	≤3% @ -47dBm
FSK Error	≤3%
Digital Frequency Offset (4FSK)	1944
Magnitude Error	≤1%

ACCESSORIES & OPTIONS



**Medium Duty
Speaker Mic**
SM220-X03S



**Heavy Duty
Speaker Mic**
SM310-X03S



**One-Wire
Surveillance Kit
D-Loop Style**
SK12DL-X03S



**One-Wire Surveillance Kit
Ear Hook Style**
SK12EH-X03S



**One-Wire
Surveillance Kit
In-Ear Style**
SK12NE-X03S



**Two-Wire
Surveillance Kit
In-Ear Style**
SK22NE-X03S



**Light Duty Behind the
Head Headset**
HS11V-X03S



**Heavy Duty Behind the
Head Headset**
HS61NR-X03S, HS71NR-X03S



Nylon Holsters
For RDR1520



Leather Holsters
For RDR1520



Battery Upgrade
B1523LI
Lithium-Ion
3.7V 2250mAh 8.32 Wh



6 Unit Charger Cable
PC1506
Multi-Unit Charger Cable



For more information, visit
www.RCACommunicationsSystems.com

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