



**RCA**  
Communications Systems

**prodigi**™ SERIES  
PROFESSIONAL DIGITAL RADIO PRODUCTS



**RDR2325** UHF / VHF

**RDR2385** UHF / VHF



## Cost-Effective DMR Digital Portable Two-Way Radio

Compact, versatile and cost-effective, the RDR2325 / RDR2385 radios are completely compatible with any other DMR Digital radio on the market. They operate in both digital and analog modes, delivering clear and loud communication. RDR2385 comes with a display and full keypad and with its versatility it can be used in a wide range of applications. Industries such as K12 Education, Colleges and Universities, Manufacturing, Security, Hotels and more. When safety and reliability is critical, the RDR2325 / RDR2385 radios are the best choice for your communication needs.

## RDR2325 / RDR2385 FEATURES

**CROSS-BRAND COMPATIBILITY** Designed according to the Digital DMR ETSI Standard TS 102 361-1,-2,-3, the RDR23x0 series radios are compatible with all RCA two-way radios as well as all other major brands, including digital equipment, such as Motorola, Hytera and Vertex series digital two-way radios and repeaters.

**EXCEPTIONAL AUDIO QUALITY** RDR2325/RDR2385 radios completely eliminate background noise and static from voice transmissions, delivering a crystal clear message compared to analog radios.

**ANALOG + DIGITAL OPERATION** Capable of operating in both analog and digital modes, the RDR23x5 series radios offer Digital DMR Tier II and Prodigi Plus™ operating modes.

**SIMPLE, RELIABLE COMMUNICATION** The RDR23x5 series radios are part of the RCA PRODIGI™ line of Professional DMR Digital Radios providing simple and cost-effective communication solution connecting your workforce efficiently and reliably allowing you to focus on growing your business.

**POWER IS PERFORMANCE** Designed to conserve battery power reducing the power consumption by 40% compared to analog radios. This extends the radio's operating time, enabling your employees to stay connected for up to 13 hours of regular usage. It eliminates the need to recharge during long shifts.

**ENCRYPTION OPTIONS** Secure radio communications are essential. The RDR2325/RDR2385 radios meet today's demand for safe and private voice and data transmissions by providing flexibility to its users to choose from multiple advanced options. The radios are equipped standard with Basic 16-bit and Enhanced 40-bit encryption options as well as optional upgrade to ARC4 encryption.

**TRUE OPERATIONAL VERSATILITY** The RDR23x5 series radios offer a variety of advanced features such as Caller ID, Group and Private Call, Radio Check, Radio Monitor, Radio Enable/Disable, Emergency, Lone Worker Alerts, Text Messaging, Pre-Saved Status Messaging, 2-Tone, 5-Tone, DTMF Encode/Decode and MDC1200.

**INDUSTRY LEADING WARRANTY** The RDR23x5 series portables are backed standard by an industry leading, hassle-free Three (3) Year Warranty.



RDR2325

RDR2385

- 1 **2 Programmable Side Buttons** Place your favorite features at your fingertips.
- 2 **PTT Button** Push To Talk Button.
- 3 **6" Antenna** Provides best radio coverage.
- 4 **32 / 1000 Channels** Plenty of choices for specific assignments.
- 5 **Programmable Top Emergency Button** Activates emergency signal or can be programmed to make it easy to use your favorite feature.
- 6 **On/Off and Analog/Digital Audio** Clear, crisp audio that's 50% louder than Motorola's HT750.
- 7 **Two Prong Right Angle Connector** Compatible with Motorola CP200/CP200d accessories.
- 8 **Display** 16 character, dot matrix. (RDR2385 only)
- 9 **Keypad/Menue Keys** 12 alpha/numeric/3 menu keys. (RDR2385 only)



## RDR2325 / RDR2385 SPECIFICATIONS

GENERAL			
<b>Frequency Bands</b>	VHF: 136-174MHz, UHF: 400-470MHz		
<b>Dimensions</b>	4.5" x 1.3" x 2.1" / 113mm x 54mm x 33.5mm		
<b>Weight</b>	9.5 ounces (270g) with 2000 mAh battery		
<b>Battery</b>	Supplied	7.4V 2000mAh Lithium Ion Battery: 14.8 Wh	
	Upgrade	7.4V 2400mAh Lithium-Ion Battery: 17.76 Wh	
<b>Channels</b>	32 (RDR2325) / 1,000 (RDR2385)		
<b>Frequency Stability</b>	± 0.5 ppm (typical)		
<b>Display</b>	102 x 64 pixels (RDR2385 only)		
<b>Switching Bandwidth</b>	Full band		
<b>Modulation</b>	Pre-emphasized FM, C4FM		
<b>Environmental Protection</b>	IP65 (Water Resistant/Dust Proof)		
Environmental Standards	MIL-STD-810 F	Method	Procedure
	Low Pressure (Altitude), Storage	500.4	I
	Low Pressure (Altitude), Operational	500.4	II
	High Temp, Storage	501.4	I
	High Temp, Operating	501.4	II
	Low Temp, Storage	502.4	I
	Low Temp, Operating	502.4	II
	Thermal Shock	503.4	I
	Solar Radiation	505.4	I(A2)
	Relative Humidity	507.4	
	Dust	510.4	I
	Sand	510.4	II
	General Vibration: Truck/trailer/tracked - restrained cargo	514.5	I Cat 24
	General Vibration: Minimum Integrity	514.5	I Cat 24
Shock - Transit Drop	516.5	IV	
<b>Operating Temperature</b>	-22°F (-30°C) - 140°F (60°C)		
<b>Storage Temperature</b>	(-40°C)~+80°C / (-40°F)~+176°		
<b>Emission Designators</b>	Analog	11K0F3E, 16K0F3E	
	Digital	7K60FID, 7K0FIE	

TRANSMITTER SPECIFICATION	
<b>Power Output</b>	Up to 5 W, 3 Programmable Levels
<b>Audio Distortion</b>	<3% at 1 kHz, 60% deviation
<b>Channel Spacing</b>	Analog 12.5KHz/25KHz
	Digital 12.5KHz
<b>Conducted, Radiated Spurious Emission</b>	-36dBm@<1GHz, -30dBm@>1GHz
<b>Adjacent Channel Power</b>	-60dB@12.SKHz
<b>Audio Response</b>	+1 dB to -3 dB
<b>FM Modulation Mode</b>	12.SKHz : 11K0F3E
<b>4FSK Digital Mode</b>	12.5KHz (data only): 7K60FXID 12.5KHz (voice): 7K60FIE
<b>FSK Error</b>	≤3%
<b>Modulation Maximum Deviation</b>	2.5KHz@12.5KHz
<b>Idle Slot Power</b>	-57dBm
<b>Audio Distortion</b>	3% (Type)
<b>Digital Protocol</b>	ETSI TS 102 361-1, -2, -3
<b>Vocoder Type</b>	AMBE3000™
<b>Hum and Noise</b>	>40 dB (12.5 kHz)

RECEIVER SPECIFICATION	
<b>Analog Sensitivity</b>	0.3SuV/ -116dBm(20 dB SINAD) 0.22uV/ -120dBm(Type)
<b>Digital Sensitivity</b>	0.3uV/-117.4dBm (BER 5%) 0.7uV/-110dBm (BER 1%)
<b>Adjacent Channel Selectivity</b>	TIA603C: 65dB@12.SKHz ETSI: 60dB@12.SKHz
<b>Co-Channel Rejection</b>	-8dB@12.5kHz
<b>Spurious Response Rejection</b>	TIA603C : 75dB ETSI : 70dB
<b>Conducted Spurious Emission</b>	- 57dBm@ < 1 GHz , - 47dBm @> 1GHz
<b>Audio Output</b>	1W
<b>Blocking</b>	>95 dB at +/- 1 MHz



For more information, visit [www.RCACommunicationsSystems.com](http://www.RCACommunicationsSystems.com)

# ACCESSORIES

## RDR2325 / RDR2385 ACCESSORIES



**Light Duty  
Speaker Mic**  
SM220-X03S



**Heavy Duty  
Speaker Mic**  
SM310-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**  
HS12-X03S



**High Noise Reduction  
Headsets**  
HS65NR, HS75NR



**Nylon & Leather Holsters**  
HN200FC/SC/FL/SL  
HN300FC/SC/FL/SL  
HL200FC/SC/FL/SL  
HL300FC/SC/FL/SL



**BC200**  
Screw In Belt Clip



**3" & 6" Antennas**  
ANH200U/V-3  
ANH200U/V-6



**2000mAh Lithium-Ion  
Battery**  
B2020LI



**Single Unit Charger**  
CH2001 PKG



**Multi-Unit  
Rapid-Rate Charger**  
CHU6 PKG



Communications Systems Created in U.S.A.

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