







# RDR2320 UHF / VHF RDR2380 UHF / VHF





#### **WORKS WITH YOUR CURRENT DMR RADIOS!**



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

Compact, versatile and cost-effective, the RDR2300 Series of radios is completely compatible with any other DMR Digital radio on the market. It operates in both digital and analog modes, delivering clear and loud communication. RDR2380 comes with a display and full keypad and with itâ€<sup>™</sup>s 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 RDR2300 Series of radios is the best choice for your communication needs.

### RDR2320 / RDR2380 FEATURES

**EXCEPTIONAL AUDIO QUALITY** – The RDR2300 radio completely eliminates 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 RDR2300 radio gives you the option to upgrade to digital radios at your own pace.

SMALLEST DIGITAL RADIO ON THE MARKET -Compact, lightweight design, making the RDR2300 very comfortable and easy to use through a long work shift.

**POWER IS PERFORMANCE** – The RDR2300 radio is 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.

**EMERGENCY AND SECURITY** – In critical situations, the radio user can initiate an emergency alarm which overrides all activity on the channel.

**PRIVATE AND GROUP CALL** – Allows users to talk privately with specific individuals or groups without broadcasting to everyone on the channel.

SIGNALING – 2-Tone, 5-Tone, DTMF Encode/Decode and MDC1200 Encode: PTT ID (identifies outbound calls), Individual/Group Call (receive/place calls from specific individuals or groups), Call Alert (tone indicates new inbound call), and Alarm (sounds alarm or notifies system administrator of emergency).

**RADIO STUN/KILL/REVIVE** – Allows the radio administrator to disable radio if it is lost or stolen.

**VOICE ANNUNCIATION** – Announces channel number when channel is changed.

**INDUSTRY LEADING WARRANTY** – Backed by a Three (3) Year Warranty.



**RDR2320** 

(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.
- **Two Prong Right Angle Connector** Compatible with Motorola CP200/CP200d accessories.
  - Display 16 character, dot matrix. (RDR2380 only)

Keypad/Menue Keys 12 alpha/numeric/3 menu keys. (RDR2380 only)

#### www.RCACommunicationsSystems.com



## **RDR2300 SPECIFICATIONS**

GENERAL				
Frequency Bands	136 - 174 MHz (VHF "V"); 400 - 470 MHz (UHF "U")			
Dimensions	4.5" x 1.3" x 2.1"/ 113mm x 54mm x 33.5mm			
Weight	9.5 ounces (270g) with 1700 mAh battery			
Battery	Li-ion 1700 mAh. Optional 2000 mAh			
Battery Life	Approx.10 hours, high transmit power 1700 mAh battery, 90:5:5 duty cycle			
Channels	32 (RDR2320) / 1,000 (RDR2380)			
Frequency Stability	± 0.5 ppm (typical)			
Display	102 x 64 pixels (RDR2380 only)			
Switching Bandwidth	Full band			
Modulation	Pre-emphasized FM, C4FM			
Environmental Protection	IP65 (Water Resistant/Dust Proof)			
Environmental	MIL-S1	D-810 F	Method	Procedure
Standards	Low Press (Altitude),		500.4	I
	Low Pressure (Altitude), Operational		500.4	II
	High Temp, Storage		501.4	I
	High Temp, Operating		501.4	Ш
	Low Temp	o, Storage	502.4	I
	Low Temp, Operating		502.4	Ш
	Thermal Shock Solar Radiation Relative Humidity Dust Sand		503.4	I
			505.4	I(A2)
			507.4	
			510.4	I
			510.4	II
	General Vibration: Truck/trailer/tracked - restrained cargo		514.5	I Cat 24
	General Vibration: Minimum Integrity		514.5	l Cat 24
	Shock - T		516.5	IV
Operating Temperature	-22°F (-30°C) - 140°F (60°C)			
Emission Designators	Analog	8K02F3E, 9K52F3E, 10K0F3E, 11K0F3E		
	Digital 7K21FXD/FXW, 7K31FXD/FXW, 7K41FXD/ FXW, 7K60FXD/FXW, 7K72FXD/FXW			

TRANSMITTER CRECK	FIGATION		
TRANSMITTER SPECI			
Power Output	0.5 - 5 W, 3 programmable levels		
Audio Distortion	<3% at 1 kHz, 60% deviation		
Channel Spacing	12.5KHz		
Conducted, Radiated Spurious Emission	-36dBm@<1GHz, -30dBm@>1GHz		
Adjacent Channel Power	-60dB@12.SKHz		
Audio Response	+1 dB to -3 dB		
FM Modulation Mode	12.SKHz : 11KOF3E		
4FSK Digital Mode	12.5KHz (data only): 7K60FXD 12.5KHz (data+ voice): 7K60FXE		
Modulation Maximum Deviation	2.5KHz@12.5KHz		
Audio Distortion	3% (Туре)		
Digital Protocol	ETSI TS 102 361-1, -2, -3		
Vocoder Type	AMBE3000 <sup>™</sup>		
Hum and Noise	>40 dB (12.5 kHz)		
RECEIVER SPECIFICATION			
Analog Sensitivity	0.3SuV/ -116dBm(20 dB SINAD) 0.22uV/ -120dBm(Type)		
Digital Sensitivity	0.3uV/-117.4dBm (BER 5%) 0.7uV/-110dBm (BER 1%)		
Adjacent Channel Selectivity	TIA603C: 65dB@12.SKHz ETSI: 60d8@12.SKHz		
Spurious Response Rejection	TIA603C : 75dB ETSI : 70dB		
Conducted Spurious Emission	- 57dBm@ < I GHz , - 47dBm @> IGHz		
Audio Output	1W		
Blocking	>95 dB at +/- 1 MHz		
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# ACCESSORIES



Light Duty Speaker Mic SM220-X03S





Heavy Duty Speaker Mic SM310-X03S



High Noise Headset Over the Head & Behind the Head HS61NR-X03S, HS71NR-X03S



One-Wire Surveillance Kit In-Ear Style SK11NE-X03S



Two-Wire Surveillance Kit In-Ear Style SK21NE-X03S



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



BC2300 Screw In Belt Clip



**Light Duty Behind the** 



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 - RDR2300 cup



For more information, visit www.RCACommunicationsSystems.com

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