



RCA
Communications Systems

DMR Mobile Radio



BRM300D UHF / VHF

WORKS WITH YOUR CURRENT RADIOS!

Guaranteed compatible with all major brands.

RCA's BRM300D is an analog/digital mobile radio with up to 50 watts of power for maximum signal coverage. This rugged and affordable radio will help you stay in touch without breaking your budget. The BRM300D series has a wide variety of features that will enable you to communicate effectively and efficiently.

BRM300D FEATURES

TDMA Meets DMR standards.

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).

Digital/Analog Operation Clear digital and analog operation all-in-one enables you to move to digital equipment at your own pace.

Annunciation Announces changed channel number

Radio Stun/Kill/Revive Allows the radio administrator to disable or enable the radio if it is lost or stolen.

Send/Receive Data Text messages and quick texts

7 Programmable Buttons Programmable features include: radio check, group/private calls, time-out timer, scan, CTCSS/DCS and others.

Password Protection Protects the radio from unauthorized programming changes.

Durable and Reliable Meets IP65 dust proof and water resistant standards and Military Specs (MIL-STD-810C/D/E/F) for durability.

Monitor Enables users to monitor channel activity

Easy-To-Read Dot-Matrix Display Bright backlight makes menu and radio function navigation easy

Up To 5W of Power Maximum signal coverage

Messaging Transmit and receive short messages and text messages

Public Address Broadcasts amplified audio through external speaker

Voice Operating Transmission (VOX) Provides "hands-free" operation on a programmed channel

Frequencies and Part Numbers

VHF (136-174 MHz) - BRM300DV;

UHF (400-470 MHz) - BRM300DU;

UHF (450-520 MHz) - BRM300DU2



- ① **1,000 Channels / 250 Zones**
- ② **Volume Knob and Programmable Button**
- ③ **LCD Display**
- ④ **LED Indicator**
- ⑤ **Internal Speaker**
- ⑥ **On/Off Button**
- ⑦ **Channel Select/Programmable Buttons [▲]/[▼]**
- ⑧ **Programmable Buttons P1 - P4**
- ⑨ **Speaker Microphone (Standard)**
- ⑩ **Push-To-Talk Button [PTT]**

DIGITAL VOICE SYSTEMS, INC.
The Speech Compression Specialists
AMBE+2 Vocodur



BRM300D SPECIFICATIONS

GENERAL			
Frequency Bands	136 - 174 MHz (VHF "V"); 400 - 470 MHz (UHF "U"); 450 - 520 MHz (UHF "U2")		
Dimensions	1.8" X 6.3" X 6.9" 46 x 160 x 175mm		
Weight	2.9 lbs / 1,315 g		
Power Supply	13.6V DC +/-20%		
Channels	1,000		
Zones	250		
Channels/Zone	16 channels per zone		
Frequency Stability	<1.0 ppm		
Environmental Protection	IP65 (Water Resistant/Dust Proof)		
Environmental Standards	MIL-STD-810 C,D,E,F,G	Method	Procedure
	Low Pressure	500.4	I, II
	High Temperature	501.4	I, II
	Low Temperature	502.4	I, II
	Temperature Shock	503.4	I
	Solar Radiation	505.4	I
	Rain Blowing/Drip	506.4	I, III
	Humidity	507.4	-
	Salt Fog	509.4	-
	Dust Blowing	510.4	I
	Vibration	514.5	I
Digital Protocol	ETSI TS 102 361-1,-2,-3		
	-22°F (-30°C) ~ 140°F (60°C)		
Vocoder	AMBE+2™		

TRANSMITTER SPECIFICATION	
Power Output	5W, 25W, 45W (UHF) / 50W (VHF)
Audio Response	+1 dB ~ -3 dB @ 300 to 3,000 Hz
Hum and Noise	-40dB (12.5KHz)
Conducted/Radiated Emission	-36dBm@<1GHz, -30dBm@>1GHz
Adjacent Channel Power	-60dB
FM Modulation Mode	12.5KHz: 11K0F3E 25KHz: 16K0F3E
4FSK Digital Mode	12.5KHz Data: 7K60FXD 12.5KHz Data/Voice: 7K60FXE
4FSK Modulation Accuracy	5% @ 77°F, 10% @ extreme temperature
RECEIVER SPECIFICATION	
Analog Sensitivity	0.35µV/-116dBm (20 dB SINAD) 0.22µV/-120dBm (12 dB SINAD)
Digital Sensitivity	0.3µV/-11.4dBm (BER 5%) 0.7µV/-110dBm (BER 1%)
Selectivity	60 dB (12.5kHz); 70 dB (20/25 kHz)
Adjacent Channel Selectivity	TIA603C: 65dB ETSI: 60dB
Spurious Rejection	TIA603C: 75dB; ETSI: 70dB
Co-channel rejection	-8dB@12.5KHz
Blocking	84dB
Rated Audio Output Power	7W @ 8 Ohms
Rated Audio Distortion	≤3%
Intermodulation	70 dB
Audio Response	+1 dB to -3 dB @ 300 to 3000 Hz
Conducted Spurious Emission	-57 dBm <1GHz, -47 dBm >1GHz ETS300 086



For more information, visit www.RCACommunicationsSystems.com

ACCESSORIES

BRM300D Accessories



Speaker Microphone
MM300D



**Keypad
Speaker Microphone**
MM300DK



**Desktop
Microphone**
DMM1250



**Base Station
Conversion Kit**
BSC300D PKG

Also Available From RCA BR200D/BR300D Series

Guaranteed compatible with all major brands, such as Motorola, Kenwood, Icom or Vertex!

RCA's BR200D/BR300D analog/digital handheld radios have 4/5 watts of power for maximum signal coverage. These rugged and affordable radios will help you stay in touch without breaking your budget. The BR200D/BR300D series has a wide variety of features that will enable you to communicate effectively and efficiently.

- **TDMA** Meets DMR standards. Compatible with Motorola MotoTrbo™.
- **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).
- **Digital/Analog Operation** Clear digital and analog operation all in one enables you to switch to digital equipment at your own pace.
- **Radio Stun/Kill/Revive** Allows the radio administrator to disable or enable the radio if it is lost or stolen.
- **Send/Receive Data** Text messages and quick texts (BR300D only).
- **Audio Connector** Compatible with Motorola CP200/CP200d accessories.



BR200D



BR300D



For more information, visit
www.RCACommunicationsSystems.com

© 2015 RCA Communications Systems. All rights reserved.
Specifications subject to change.