

BRM300D Mobile Radio Series



Professional Two-Way Radios

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

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.

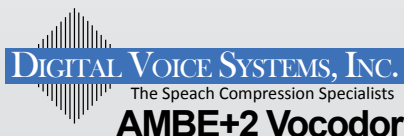
- ① **1,000 Channels / 250 Zones** Plenty of choices for specific assignments
- ② **Volume Knob and Programmable Button** Push the volume knob to access the Features Menu
- ③ **LED Indicator** Identifies radio's receiving/transmitting status
- ④ **Analog/Digital Audio** Clear, crisp audio. External speaker included.
- ⑤ **6 Programmable Buttons** Your favorite features at your fingertips
- ⑥ **Speaker Microphone Standard** Optional Keypad Speaker Microphone (MM300DK) enables you to send text messages

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
- ❑ **Public Address** Broadcasts amplified audio through external speaker
- ❑ **Voice Operating Transmission (VOX)** Provides "hands-free" operation on a programmed channel

Options:

- ❑ **Lone Worker** The radio emits an alert tone that must responded to within a predetermined time. If there is no response to the alert tone, the radio will send out an emergency call



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
Shock	516.5		I, IV
Digital Protocol	ETSI TS 102 361-1,-2,-3		
Operating Temperature	-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 ETSI300 086

Accessories



Speaker Microphone
MM300D



Keypad Speaker Microphone
MM300DK



Desktop Microphone
DMM1250



Base Station Conversion Kit
BSC300D PKG