

## BRM300A Mobile Radio Series



Optional  
MM300DK  
Keypad  
Microphone



## Professional Two-Way Radios

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

RCA's BRM300A is a 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 BRM300A 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 **Loud Audio** Clear, crisp audio. External speaker included.
- ⑤ **6 Programmable Buttons** Your favorite features at your fingertips
- ⑥ **Standard Speaker Microphone** -Optional Keypad Speaker Microphone (MM300DK) enables you to send text messages

### Features:

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

## BRM300A Specifications

GENERAL			
<b>Frequency Bands</b>	136 - 174 MHz (VHF "V"); 400 - 470 MHz (UHF "U"); 450 - 520 MHz (UHF "U2")		
<b>Dimensions</b>	1.8" X 6.3" X 6.9" 46 x 160 x 175mm		
<b>Weight</b>	2.9 lbs / 1,315 g		
<b>Power Supply</b>	13.6V DC +/-20%		
<b>Channels</b>	1,000		
<b>Zones</b>	250		
<b>Channels/Zone</b>	16 channels per zone		
<b>Frequency Stability</b>	<1.0 ppm		
<b>Environmental Protection</b>	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
<b>Operating Temperature</b>	-22°F (-30°C) ~ 140°F (60°C)		

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

## Accessories



**Speaker Microphone**  
MM300HD



**Keypad Speaker Microphone**  
MM300DK



**Desktop Microphone**  
DMM1250



**Base Station Conversion Kit**  
BSC300D PKG