



# DMR Mobile Radio



**BRM350D** UHF / VHF

# WORKS WITH YOUR CURRENT RADIOS!

**Guaranteed compatible with all major brands.**

RCA's BRM350D 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 BRM350D has a wide variety of features that will enable you to communicate effectively and efficiently.

## BRM350D 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) - BRM350DV;

UHF (400-470 MHz) - BRM350DU;

UHF (450-520 MHz) - BRM350DU2



- 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 Vocodor**



## BRM350D 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>	IP54 (Water Resistant/Dust Proof)		
Environmental Standards	MIL-STD-810	Method	Procedure
	C,D,E,F,G		
	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)		
<b>Storage Temperature</b>	-40° C / +85° C		
<b>Vocoder</b>	AMBE+2™		
<b>Digital Protocol</b>	ETSI TS 102 361-1,-2,-3		

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 Digital Mode</b>	12.5KHz Data: 7K60FXD 12.5KHz Data/Voice: 7K60FXE
<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>Digital Sensitivity</b>	0.3µV/-11.4dBm (BER 5%) 0.7µV/-110dBm (BER 1%)
<b>Selectivity</b>	60 dB (12.5kHz); 70 dB (20/25 kHz)
<b>Adjacent Channel Selectivity</b>	TIA603C: 60dB 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>	5W @ 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 ETSI300 086



# ACCESSORIES

## BRM350D Accessories



**Standard Microphone**  
MM301HD



**Keypad Microphone**  
MM301HDK



**Desktop Microphone**  
DMM1250



**Base Station Conversion Kit**  
BSC300D PKG



**Control Head Mount Kit**  
RMK300



**External Speaker**  
EXSPK300D



**DC Power Cord**  
PC300-12



**UHF Antenna**  
B4503



**VHF Antenna**  
B1443



**NMO Magnetic Mount**  
G8PI



**NMO Hole Mount**  
MB8PI



**High Noise Reduction Headset**  
HS75NR



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