



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			
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	IP54 (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
Operating Temperature	-22°F (-30°C) ~ 140°F (60°C)		
Storage Temperature	-40° C / +85° C		
Vocoder	AMBE+2™		
Digital Protocol	ETSI TS 102 361-1,-2,-3		

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: 60dB ETSI: 60dB
Spurious Rejection	TIA603C: 75dB; ETSI: 70dB
Co-channel rejection	-8dB@12.5KHz
Blocking	84dB
Rated Audio Output Power	5W @ 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

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



www.rcacommunicationssystem.com
products@rcacommunicationssystem.com
Created in U.S.A.

For Sales, Warranty and Customer Support please contact:

Signal Communication Systems
2016 S. Frankwood Ave.
Sanger, CA 93657

website: www.signalcommunication.com
email: sales@signalcommunication.com
phone: (559) 638-7040