

# BC300D Digital Two-Way Radio

## Reliable, Easy-to-Operate, Highly-Affordable

Manufactured exclusively for BearCom, North America's leading distributor and integrator of two-way radios. This feature-rich, highly-affordable communication device is engineered with the latest digital (DMR) technology from Motorola Solutions.

**The BC300D operates in digital mode for added clarity and functionality, or it can be programmed to use with analog radios as part of a digital migration strategy.**

### Excellent audio clarity and outstanding operating features:

- Durable 500 mW speaker
- 16 UHF channels
- Up to 4 watts of power
- Battery life of 10 hours
- IP54 rating for dust and water resistance
- Size/Weight: 4.96 x 2.28 x 1.46 inches / 10.93 ounces
- Two-Year Factory Warranty Included
- Accessories interchangeable with BearCom BC130

### BC300D advanced features:

- 2 programmable buttons
- All Call/Group Call/Private Call capabilities that are programmable
- Radio Check
- Voice Announcement
- Allow Interrupt capable (digital only)
- Mixed Mode Channel Scan
- Remote Monitor and Radio Enable/Disable (receive only)
- Can Be Used to Lock/Unlock Doors and Gates from distance



Comes Standard  
with  
Stubby Antenna.



**MOTOROLA SOLUTIONS**  
PLATINUM CHANNEL PARTNER



**WARRANTY INFORMATION**  
The BC300D Radio comes with a standard  
Two-Year Factory Warranty.



**The BC300D Delivers:  
Advanced Features. Premier Performance.  
Outstanding Value!**

# BC300D Specifications

The BC300D offers all of the power, audio clarity, performance, and features needed to keep teams connected, informed, and engaged.

<b>General Specifications</b>	
Mode	Analog or Digital
Digital Protocol	DMR II
Number of Channels	16
Power	1W (low) / 4W (high) UHF
Programmable Buttons	2
Frequency Range/Band	403-470 MHz UHF
Dimensions (H x W x D) in inches	4.96 x 2.28 x 1.46 inches [with PMNN4075A battery]
Dimensions (H x W x D) in mm	126 x 58 x 37 mm [with PMNN4075A battery]
Weight (approximate)	10.93 ounces/310 grams [with PMNN4075A battery, antenna, belt clip]
Battery Life (5-5-90 duty with battery saver)	10 Hours (analog) / 10 Hours (digital)
Battery	1700 mAh (BC130 charger compatible)
Channel Spacing	Digital:12.5 kHz Analog: 25 kHz/12.5 kHz
Speaker Power	0.5W at 24 ohm
Operating Temperature Range	-22F to 140F /-30C to 60C
Power Supply Voltage	7.4V DC +/- 10%
Frequency Stability	+/- 1.5ppm
RF Input - Output Impedence	50 ohm
IP Rating	IP54
Accessory Connector	2-Pin (BC130 Compatible)
FCC Designation (U.S.)	AZ489FT4955
IC Designation (Canada)	109U-89FT4955
<b>Receiver Specifications</b>	
<b>Measured by TIA / EIA 603</b>	
Circuit Type	Direct Conversion
Sensitivity	Analog: 12dB Sinad < -121dBm (0.2uV) Digital: 1% BER < -119dBm (0.25uV)
Adjacent Channel Selectivity (TIA/EIA-603C)	Analog: 65dB / Digital :60dB
Intermodulation	Analog: 65dB / Digital :60dB
Spurious Response Rejection	70 dB
Hum and Noise	45dB
Audio Output (5% THD )	0.5W@24ohms (internal)/0.3W@24ohms (external)
Audio Distortion (@1Khz)	<5%
Conducted Spurious Emission	-57dBm
<b>Transmitter Specifications</b>	
<b>Measured by TIA / EIA 603</b>	
Modulation Limiting	+/-5Khz(25Khz) / +/-2.5Khz(12.5Khz)
Conducted Spurious Emission	-36dBm (<1Ghz) , -30dBm (>1Ghz)
FM Hum & Noise	45dB
Audio Distortion (@1Khz)	<5%
Analog FM Modulation	16K0F3E (25 kHz) / 11K0F3E (12.5 kHz)
4FSK Digital Modulation	12.5 kHz Data: 7K60F1D and 7K60FXD /
	12.5 kHz Voice: 7K60F1E and 7K60FXE /
	12.5 kHz Data and Voice: 7K60F1W

## The BC300D is Designed for:

- Schools
- Hospitality
- Construction
- Manufacturing
- Facility Management
- And, More!

**What's in the Box?** Battery, Charging Cradle, Power Supply, Stubby Antenna, Belt Clip



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