

# MAG ONE BY MOTOROLA BPR 40 AND BPR 40d

Affordable and Reliable Radios for  
Small Business

The Mag One by Motorola BPR 40 and BPR 40d radios deliver the reliable communications you and your staff need. Lightweight and powerful, each radio is built to ensure that you are never out of reach. Long battery life means continued communication that lasts an entire shift. Rugged, water-resistant construction offers worry-free operation, while the radios' long warranties bring peace of mind.

Both radios support analog communications for simple, familiar push-to-talk voice connections. The BPR 40d radio also supports the Digital Mobile Radio (DMR II) communications standard, giving you more range and clear, static-free voice connections, even at the edge of your radio coverage.



## TWO LITTLE RADIOS. MANY BIG FEATURES.

### 8 or 16 Channels

Allows multiple users and groups to communicate simultaneously. Organize teams into different talkgroups for improved efficiency and minimized distraction.

### Adjustable Power Level

Set high transmit power when you need to extend your reach, then lower it to maximize battery life.

### Squelch Levels

Helps minimize interference from undesired weak signals and helps weak signals be heard.

### Tricolor LED

Indicates radio status and battery levels at a glance

### Large, Textured Push-to-Talk Button

Easy to find and use without looking

### Priority Scan

Frequently check for signals on high-priority channels

### Large Channel Knob

Change channels easily and stay focused on your work

### Designed for your small business

- Retail
- Hospitality
- Light Construction
- Education

### BPR 40d Advanced Features

- Programmable All Call / Group Call / Private Call capabilities
- 128-entry contact list
- Radio Check
- Voice Announcement
- Remote Monitor and Radio Enable/Disable

## Two Programmable Buttons

Program up to four settings from these features:

- High/Low Power
- Volume Set
- Monitor
- Sticky Monitor
- Scan
- Nuisance Channel Delete
- Repeater Talkaround
- PL/DPL
- Button Lock
- Battery Save Mode
- Squelch
- Private, Group, or All-Call (BPR 40d only)

## Rugged, Die-Cast Chassis

Polycarbonate housing helps protect your radio from everyday bumps and falls. Both radios are protected against splashing water (IPx4), while the BPR 40d is also protected against dust (IP54).

## Motorola Solutions Warranty

We're here when you need us. The BPR 40d offers a standard two-year warranty. The BPR 40 comes with a standard one-year warranty. Extended service plans are available for both radios.

## BPR 40d ADVANCED FEATURES

### Digital Mobile Radio (DMR II) Support

Take advantage of advanced digital features, clear voice communications and greater coverage. Interoperate with other DMR radios.

### All Call

Communicate to all radios on your system, regardless of what channel they've selected.

### Group Call

Communicate to all radios in a predefined group of radio users.

### Private Call

Communicate privately with one other radio user.

### Remote Monitor

Remotely activate the radio's microphone and transmitter and hear its audio. Allows you to check on a radio user who may not be able to press the push-to-talk button.

### Radio Enable/Disable

If your BPR 40d radio is lost or stolen, it can be remotely disabled to prevent eavesdropping or unauthorized transmissions. Once recovered, it can be remotely enabled again.

### Voice Announcement

Confirm actions or alerts with an audio prompt, giving your users confidence that they chose the right setting, even when they can't look at the radio.

### Mixed-Mode Channel Scan

Monitor digital and analog channels simultaneously.



	BPR 40		BPR 40d
	VHF	UHF	UHF
<b>GENERAL SPECIFICATIONS</b>			
Communications Standards Supported	Analog		Analog and Digital (DMR II)
Channel capacity	8 or 16	8 or 16	16
Dimensions (HxWxL)	4.2 x 2.3 x 1.5 inches (107 x 58 x 37 mm)		4.2 x 2.3 x 1.5 inches (107 x 58 x 37 mm)
Weight with NiMH battery	11.1 oz (314 g)		N/A
Weight with Li-Ion battery	9.5 oz (270 g)		10.9 oz (310 g)
Battery Capacity	Standard: 1200 mAh NiMH Optional: 1700 mAh Li-Ion T (16 channel model) Optional: 1200 mAh Li-Ion T (8 channel model)		1700 mAh Li-Ion T
Average battery life @ 5-5-90 Duty Cycle (5% receive, 5% transmit, 90% standby)	Up to 11 hours		Digital: up to 15 hours Analog: up to 12 hours
Operating Temperature	-22°F to 140°F (-30°C to +60°C)		-22°F to 140°F (-30°C to +60°C)
Water and Dust Resistant	IPx4 (protected against splashing water)		IP54 (protected against dust and splashing water)
Programmable Buttons	2		2
Accessory Connector	2-pin		2-pin
<b>TRANSMITTER</b>			
Frequency Range	150-174 MHz	450-470 MHz	403-470 MHz
Channel Spacing	12.5/25 kHz	12.5/25 kHz	12.5/25 kHz
Modulation Limiting	± 5.0 kHz (25 kHz) / ± 2.5 kHz (12.5 kHz)		± 5.0 kHz (25 kHz) / ± 2.5 kHz (12.5 kHz)
RF Output Power	1W @ low power 5W @ high power	1W @ low power 4W @ high power	1W @ low power 4W @ high power
Conducted Spurious Emission	-27 dBm		-36 dB (< 1 GHz) -30 dB (> 1 GHz)
FM Hum and Noise	40 dB		45 dB
Audio Distortion @ 1 kHz	< 5%		< 5%
<b>RECEIVER</b>			
Adjacent Channel Selectivity	60 dB @ 12.5 kHz 65 dB @ 25 kHz		60 dB @ 12.5 kHz 65 dB @ 25 kHz
Sensitivity	Analog 12 dB SINAD: 0.3 uV		Analog 12 dB SINAD: 0.20 uV Digital 1% BER: 0.25 uV
Intermodulation	60 dB @ 12.5 kHz 65 dB @ 25 kHz		60 dB @ 12.5 kHz 65 dB @ 25 kHz
Spurious Image Rejection	65 dB		70 dB
Hum and Noise	40 dB		45 dB
Audio Output (5% THD)	500 mW @ 24 Ohms		500 mW @ 24 Ohms
Audio Distortion	< 5%		< 5%
Conducted Spurious Emission	- 57 dBm		- 57 dBm
<b>KEY FEATURES</b>			
Adjustable Power Level	Yes		Yes
Channel Scan	Single		Mixed-mode
Contact List	No		128 contacts
Group Call	Yes		Yes
All Call	No		Yes
Private Call	No		Yes
Remote Monitor	No		Yes (receive only)
Radio Enable/Disable	No		Yes (receive only)
Voice Announcement	No		Yes



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