Mag One™ by Motorola BPR™ 40
Affordable and Reliable Radio for Small Business
Designed specifically for businesses and organizations that need a reliable, easy-to-use communication tool, we develop our two-way radios with two key factors in mind – quality and value. Mag One by Motorola is the perfect choice for schools, retail operations, hospitality and entertainment establishments and light construction businesses.

Why? Because Mag One by Motorola two-way radios provide the instant communication that helps improve performance and safety – allowing employees to do their jobs more efficiently and productively. It’s also affordable enough to allow you to outfit your entire team with instant communication.

What is Mag One by Motorola?

The Mag One Difference – Quality plus Value
Designed specifically for businesses and organizations that need a reliable, easy-to-use communication tool, we develop our two-way radios with two key factors in mind – quality and value. Mag One by Motorola is the perfect choice for schools, retail operations, hospitality and entertainment establishments and light construction businesses.

Why? Because Mag One by Motorola two-way radios provide the instant communication that helps improve performance and safety – allowing employees to do their jobs more efficiently and productively. It’s also affordable enough to allow you to outfit your entire team with instant communication.

Functionality of features.

**Large Rotary Channel Selector**
Allows you to change channels easily.

**On/Off and Volume Control**
Large size lets you adjust the volume quickly.

**Adjustable Power Level**
Helps save battery life. Adjusts transmit power to accommodate user environment.

**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.

**Single Priority Scan**
Frequently scans higher priority channels.

**2 Programmable Buttons**
Easy access to favorite features. Program up to four settings from these 12 features:
- High/Low Power
- Volume Set
- Monitor
- Sticky Monitor
- Scan
- Nuisance Channel Delete
- Repeater Talkaround
- PL/DPL
- Button Lock
- Battery Save Mode
- Squelch
- Customized Feature

**8 or 16 Channels**
Allows multiple users and groups to communicate. Organize teams into different talkgroups for improved efficiency.

**Small and Lightweight**
It’s easy to carry at only 4.21 inches high. And over 14% lighter with a Li-ion battery.
- 9.5 oz with Li-ion battery
- 11.08 oz with NiMH battery

**2 Inch Spring Belt Clip**
Comes standard for convenient portability.

**Audio Accessory Connector**
**Speaker**
**Rugged, Die-Cast Chassis**
Polycarbonate housing provides greater protection.

**Microphone**

**Shown actual size.**
The Mag One by Motorola BPR 40

An affordable, high-performance communication tool that will be a reliable solution for your communication needs. When you equip your work force with the BPR 40, they will be able to react more efficiently. Quicker response, better customer service, saved trips, and increased safety – they all add up to better operations and a streamlined process.

The Mag One by Motorola BPR 40 two-way radio not only provides affordable communication, but also a complete assortment of accessories for radio customization. And it’s backed by Motorola service and a 1-year limited radio warranty*.

It’s a little radio with a big list of features:

- 8 or 16 channels for communication to a wide group
- 2 programmable buttons for easy access to frequently used features
- 12 programmable features to choose from including a customized feature of your choice
- Small size and light weight provides comfort during long work shifts
- High/Low power provides flexibility for a variety of situations
- Affordably priced
- A variety of Mag One accessories enhance radio versatility
- Backed by Motorola service and a 1-year limited warranty

Programming features combined with the right accessory create a custom solution.

The Motorola BPR 40 has 12 programmable features to choose from. Add the accessories that complement the job and build a custom communication tool for each user.

High/Low Power
Allows power level changes from High to Low.

Volume Set
Allows you to check the audio and alert tone volume level.

Monitor
Allows current channel monitoring; disables squelch.

Sticky Monitor
Allows continual monitoring until deactivated.

Scan
Starts or stops the channel scan.

Nuisance Channel Delete
Temporarily removes unwanted channels during scan.

Repeater Talkaround
Allows toggling between Repeater and Talkaround, unit-to-unit, communication mode.

PL/DPL
Enables/Disables PL/DPL matching to receive messages.

Button Lock
Locks/unlocks all buttons except the PTT button, and Channel and On/Off/Volume Knobs.

Battery Save Mode
Allows toggling between Battery Saver ON or OFF.

Squelch
Selects desired squelch level: Normal or Tight.

Customized Feature
Program a customized feature of your choice.

*6 month limited warranty on accessories.

Standard Package Includes:

- Radio – Ships at 1 Watt
- 1200 mAh NiMH Battery or 1500 mAh Li-ion Battery
- Rapid-rate Charger
- 2 Inch Spring Belt Clip
- Antenna
- Operating Manual
- Safety Manual
- 1-Year Limited Radio Warranty

The following Mag One accessories have been tested with the BPR 40 to ensure maximum performance.

- Mag One Remote Speaker Microphone PMMN4008
- Mag One Earbud with In-line Microphone and PTT/VOX Switch PMLN4442
- Mag One Ear Receiver with In-line Microphone and PTT/VOX Switch PMLN4443_B
- Mag One Ultra Lightweight Headset with In-line PTT/VOX Switch PMLN4450
- Mag One Hard Leather Case PMLN4742
- Mag One 1200mAh NiMH Battery PMNN4071_R
**SPECIFICATIONS**

**BPR 40 Two-Way Portable Radio Typical Specifications**

**GENERAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th></th>
<th>VHF</th>
<th>UHF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Channel Capacity</td>
<td>8 or 16</td>
<td>8 or 16</td>
</tr>
<tr>
<td>Model Numbers (8 channel)</td>
<td>AAH84KDS8AA1-N</td>
<td>AAH84KDS8AA1-N</td>
</tr>
<tr>
<td>Model Numbers (16 channel)</td>
<td>AAH84KDJ8AA1-N</td>
<td>AAH84RCJ8AA1-N</td>
</tr>
<tr>
<td>FCC Designation</td>
<td>A2A483FT7310</td>
<td>A2A483FT7373</td>
</tr>
<tr>
<td>FCC Emissions Designators</td>
<td>11K0F3I/16K0F3E</td>
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</tr>
<tr>
<td>Dimensions (H x W x L)</td>
<td>4.21 x 2.28 x 1.46 inches (107 x 58 x 37 mm)</td>
<td></td>
</tr>
<tr>
<td>Weight (with NiMH/Li-ion)</td>
<td>11.08 ounces /314 g/9.52 ounces (270 g)</td>
<td></td>
</tr>
<tr>
<td>Average Battery Life <strong>@ 5/5/90 Duty Cycle</strong></td>
<td>Up to 8 hours</td>
<td>Up to 11 hours</td>
</tr>
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**ENVIRONMENTAL**

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<thead>
<tr>
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<th>VHF</th>
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<tbody>
<tr>
<td>Operating Temperature</td>
<td>-30° to +50° C (Radio Only)</td>
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</tr>
<tr>
<td>Sealing</td>
<td>Passes rain testing per IPX4</td>
<td></td>
</tr>
<tr>
<td>Shock and Vibration</td>
<td>Die-cast with impact resistance polycarbonate housing, passes MIL-STD 603B</td>
<td></td>
</tr>
<tr>
<td>Dust and Humidity</td>
<td>Weather-resistant housing passes MIL-STD 603B</td>
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**RECEIVER**

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<thead>
<tr>
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<th>VHF</th>
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<tbody>
<tr>
<td>Frequency Range</td>
<td>150-174 MHz</td>
<td>450-470 MHz</td>
</tr>
<tr>
<td>Channel Spacing</td>
<td>12.5/25 kHz</td>
<td>12.5/25 kHz</td>
</tr>
<tr>
<td>Frequency Stability</td>
<td>±2.5 ppm</td>
<td>±2.5 ppm</td>
</tr>
<tr>
<td>Spurious Rejection</td>
<td>65 dB</td>
<td>65 dB</td>
</tr>
<tr>
<td>Audio Distortion</td>
<td>&lt;5%</td>
<td>&lt;5%</td>
</tr>
<tr>
<td>Hum and Noise Radio</td>
<td>40 dB</td>
<td>40 dB</td>
</tr>
<tr>
<td>Conducted Emission</td>
<td>-57 dBm</td>
<td>-57 dBm</td>
</tr>
<tr>
<td>Audio Output <strong>@ &lt;5% Distortion</strong></td>
<td>500mW (at 24 ohm)</td>
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**TRANSMITTER**

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<td>RF Output</td>
<td>1 to 5W</td>
<td>1 to 4W</td>
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<td>Frequency Stability</td>
<td>±2.5 ppm</td>
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<tr>
<td>Spurious</td>
<td>-63 dBc (-26 dBm)</td>
<td>-63 dBc (-27 dBm)</td>
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<tr>
<td>FM Hum and Noise Radio</td>
<td>40 dB</td>
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<td>Audio Distortion</td>
<td>&lt;5%</td>
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<td>±2.5 kHz / ±5 kHz</td>
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Specifications subject to change without notice. All specifications shown are typical. Radio meets applicable regulatory requirements.

Version 2 09/09

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