

Mag One BPR 45

Frequently asked questions

General

What is the Mag One BPR 45?

The Mag One BPR 45 analog two-way radio is a robust, high-performing communication tool that provides professional teams with long battery life and powerful, clear audio.

What frequencies are supported in the Mag One BPR 45?

The BPR 45 is available in the VHF (136 - 174 MHz) and UHF (400 - 470 MHz) frequency bands.

What modes of operation are supported in the BPR 45?

The BPR 45 supports an analog mode of operation.

What is the warranty for the Mag One BPR 45?

The BPR 45 includes a two (2) year limited warranty.

Key features

Are there new features in the Mag One BPR 45?

Yes! Improved features on the BPR 45 include built-in USB-C charging and programming, an IP55 water/dust resistance rating and clear, loud audio (up to 3 W audio output). Please refer to the BPR 45 specifications sheet for full details.

What environment is the BPR 45 radio best suited for?

Built for demanding job sites, the BPR 45 pairs IP55 dust/water resistance and MIL-STD durability with high transmission power (5 W VHF / 4 W UHF) and 64 channels to keep multi-department teams connected across large properties.

How many channels does the Mag One BPR 45 support?

The BPR 45 supports a total of 64 channels which can be distributed over 4 zones.



Fleet & Radio Compatibility

Does the BPR 45 work with other Mag One portable radios?

Yes! The BPR 45 works with existing fleets of Mag One portables that operate in analog mode.

Does the BPR 45 work with MOTOTRBO™?

The BPR 45 comes with many standard analog features. When configured correctly, it can work with MOTOTRBO radios operating in analog mode.

Battery, Charging & Storage

What kind of battery does the BPR 45 use?

The BPR 45 uses a standard 2200 mAh Li-Ion battery.

Will a high-capacity battery be offered in the future?

Currently, there are no plans to offer a high-capacity battery. The standard 2200 mAh Li-Ion battery provides up to 16 hours of operating time, easily covering a full shift. Additionally, the built-in USB-C port allows for convenient, on-the-go charging.

Does the BPR 45 battery ship fully charged?

In compliance with the International Air Transport Association (IATA) policy, Motorola Solutions Inc. (MSI) ships all Li-Ion batteries at a state of charge less than 30% of their rated capacity.

Will the BPR 45 overcharge if left on the charger?

No. The radio, battery and charger system feature built-in charging algorithms and protective circuitry that automatically shut off charging once complete to prevent overcharging.

Can the BPR 50dX battery be used in the BPR 45?

No. While both are 2200 mAh Li-Ion batteries, the two are not interchangeable.

Can the BPR 45 and BPR 50dX use the same single-unit charger?

The PMLN8599B single-unit charger works with both the BPR 45 and BPR 50dX, while the older PMLN8599A single-unit charger is only compatible with the BPR 50dX.

Is there a multi-unit charger available for the BPR 45?

Yes! The PMLN8893A is a 6-pocket multi-unit charger designed for Mag One batteries, allowing you to charge up to six radios or standalone batteries simultaneously.

Can the BPR 45 battery be charged in a non-Motorola charger?

Always charge your battery using the approved Motorola charger. Charging in non-Motorola chargers may lead to reduced performance and battery damage.

How should the BPR 45 battery be stored?

Batteries should be stored in a well-ventilated, temperature-controlled (68°F–86°F / 20°C–30°C) and humidity-controlled (30%–60%) environment. Never store batteries with flammable materials, disassemble, crush, puncture, shred, incinerate, or dry a wet battery with an appliance or external heat source.



Should I charge my battery while stored?

- **New batteries:** New batteries that will be stored should be charged to greater than 50% (but less than 100%) state of charge within 1 month of receipt.
- **In-Service Batteries:** Batteries removed from service for storage should be charged to greater than 50% state of charge.
- **Maintenance:** Every 12 months, batteries must be recharged to greater than 50% state of charge.
- **Best Practice:** Do not store batteries attached to radios or host devices. This will minimize current drain on the battery.

Accessories

What type of antenna connector does the BPR 45 use?

The BPR 45 uses an SMA (SubMiniature version A) RF connector.

Is there any latex in the radio or new accessories?

No.

Can I use Mag One BPR 50dX audio accessories with the BPR 45?

Yes! The Mag One audio accessories for the BPR 50dX are fully compatible with the BPR 45, including:

- Mag One Earbud With In-Line Microphone and PTT, VOX (PMLN6534)
- Mag One Remote Speaker Microphone (PMMN4092)
- Mag One Ear Receiver With In-Line Microphone and PTT, VOX (PMLN6531)
- Breeze Headset With Boom Mic and PTT (PMLN6542)
- Mag One Swivel Earpiece With In-Line Mic and PTT (PMLN6532)
- 2-Wire Surveillance Kit With Quick Disconnect Acoustic Tube (PMLN6536)

Additionally, the BPR 45 is compatible with 2 more audio accessories:

- 2-Wire Surveillance Kit with clear translucent tube (Beige) (PMLN6445)
- 2-Wire Surveillance Kit with clear translucent tube (Black) (PMLN6530)

Learn more about the Mag One BPR 45 portable two-way radio at motorolasolutions.com/bpr45

