

Mag One BPR 50dX frequently asked questions

General

What is the Mag One BPR 50dX?

The BPR 50dX is a Mag One brand portable radio replacing the Mag One 40d portable radio.

What frequencies are supported in the Mag One BPR 50dX?

The BPR 50 dX is available in the VHF (136-147 MHz) and UHF (400-470 MHz) frequency bands.

What modes of operation are supported in the BPR 50dX?

The BPR 50dX supports analog and digital (DMR) modes of operation

What is the warranty for the Mag One BPR 50dX?

The BPR 50dX includes a two (2) year limited warranty

Key features

Are there new features in the Mag One BPR 50dX?

Yes there are new improved features in the BPR 50dX. BPR 50dX provides USB-C Charging, IP55 Rating, top Emergency Button, clear and loud audio (Noise Cancellation, 3W audio output). Please refer to the BPR 50dX specifications sheet for full details.

Does the Mag One BPR 50dX look different from the Mag One 40d?

Yes. The BPR 50dX has a contemporary appearance with a refreshed logo to represent its new and upgraded design



How many channels does BPR 50dX support?

The BPR 50dX supports a total of 64 channels which can be distributed over 4 zones (max 16 channels per zone).

Backward Compatibility

Will BPR 50dX work with existing fleets of BPR portables?

Yes, the BPR 50dX works with existing fleets of BPR 40d portables and BPR40 portables in analog only.

Can the BPR40 and BPR 40d batteries be used in the BPR 50dX?

No. The BPR 50dX uses new improved batteries.

Are the BPR 40d Mag One audio accessories compatible with the BPR 50dX?

Yes. The Mag One audio accessories offered for the BPR 40d are compatible with the BPR 50dX.

Does the BPR 50dX work with MOTOTRBO™?

The BPR 50dX comes with many standard analog and DMR II features. When configured correctly, it can work with MOTOTRBO radios.

Recommendations for new battery use, storage, and care

Charging and battery life

What kind of battery does the BPR 50dX use?

2200mAh Li Ion battery.

Will the BPR 50dX charge via direct USB-C connection as quickly as it does in the desktop charger?

No. Charging via direct USB-C connection on the radio is approximately 30% slower than using the desktop charger.

Will a HI CAP battery be offered in the future?

Currently, there are no plans to offer high capacity battery. The standard 2200mAh Li-Ion battery offered with the Mag One BPR 50dX offers 23 hours¹ of talk time, which should cover an entire shift and more. Additionally, the USB-C port allows on-the-go charging for added convenience.

Will the BPR 50dX overcharge if it is left in the charger?

No, the radio will not overcharge if left in the charger. The radio, battery and charger system has charging algorithms and protective circuitries, automatically cutting off the charge when necessary.

Will there be a multi-unit charger for the radio?

Yes, a 6-pocket multi-unit charger will be available in Q2 2026..

Battery storage and care

How should the BPR 50dX battery be stored?

Batteries should be stored in a well ventilated, temperature (68°F/20°C to 86°F/30°C) and humidity (30%-60%) controlled environment. Do not store batteries with flammable materials, disassemble, crush, puncture, shred, discard your battery in a fire, or dry a wet battery with an appliance or heat source.

Does the BPR 50dX 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.



¹ Based on typical 5/5/90 profile at maximum transmitter power in digital mode

Can the BPR50dX 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.

Should I charge my battery while stored?

- 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. Every 12 months, batteries must be recharged to greater than 50% state of charge.
- Batteries removed from service for storage should be charged to greater than 50% state of charge. Every 12 months, batteries must be recharged to greater than 50% state of charge.
- Do not store batteries attached to radios or host devices. This will minimize current drain on the battery.

Can I use Mag One BPR 40d audio accessories with BPR 50dX?

Yes. The Mag One audio accessories offered for BPR 40d are compatible with BPR 50dX.

- Mag One Earbud With In-Line Microphone and PTT, VOX (PMLN6534)
- Mag One Remote Speaker Microphone (PMLN4092)
- Mag One Ear Receiver With In-Line Microphone and PTT, VOX (PMLN6531)
- Breeze Headset With Boom Mic and PTT (PMLN6542)

Additionally, the BPR 50dX is compatible with 2 more audio accessories:

- Mag One Swivel Earpiece With Microphone and PTT (PMLN6532)
- 2-Wire Surveillance Kit With Microphone and PTT (PMLN6536)

Audio and accessories

Is there any latex in the radio or new accessories?

No

What settings are needed for the best audio experience?

To achieve the loudest audio level and minimize ambient noise, it is recommended to enable Enhanced Audio Power, RX Noise Cancellation, and TX Noise Cancellation. These are set through Customer Programming Software (CPS).

What type of antenna connector does the BPR 50dX use?

The BPR 50dX uses SMA (SubMiniature version A) RF connector.



Learn more about Mag One X portable two-way radio at motorolasolutions.com/bpr50dx



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