

Mag One X8d

Frequently asked questions

General

What is the Mag One X8d?

The Mag One X8d is a robust, high-performing dual-mode (analogue and digital) two-way radio that provides professional teams with extended battery efficiency, clear digital audio and reliable connectivity.

What frequencies are supported in the Mag One X8d?

The X8d is available in the VHF (136 - 174 MHz) and UHF (400 - 470 MHz) frequency bands.

What modes of operation are supported in the X8d?

The X8d supports analogue and digital (DMR) modes of operation.

What is the warranty for the Mag One X8d?

The X8d includes a one (1) year limited warranty.

Key features

Are there new features in the Mag One X8d?

Yes! Improved features on the X8d 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 X8d specifications sheet for full details.

What environment is the X8d radio best suited for?

Built for demanding job sites, the X8d pairs IP55 dust/water resistance and MIL-STD durability with high transmission power (5 W VHF / 4 W UHF) and dual-mode capability to keep multi-department teams connected across large properties.

How many channels does the Mag One X8d support?

The X8d supports a total of 64 channels which can be distributed over 4 zones.



Fleet & Radio Compatibility

Does the X8d work with other Mag One portable radios?

Yes! The X8d works with existing fleets of Mag One portables that operate in both analogue and digital mode.

Does the X8d work with MOTOTRBO™?

The X8d comes with many standard analogue and DMR II features. When configured correctly, it can work with MOTOTRBO radios.

Battery, Charging & Storage

What kind of battery does the X8d use?

The X8d 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 offered with the Mag One X8d offers up to 23 hours¹ of talk time, easily covering a full shift. Additionally, the built-in USB-C port allows for convenient, on-the-go charging.

Does the X8d 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 X8d 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 X10d battery be used in the X8d?

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

Can the X8d and X10d use the same single-unit charger?

The PMLN8599B single-unit charger works with both the X8d and X10d, while the older PMLN8599A single-unit charger is only compatible with the X10d.

Is there a multi-unit charger available for the X8d?

Yes! The PMLN8893A (US)* and PMLN8973A (EU)* are 6-pocket multi-unit chargers designed for Mag One batteries, allowing you to charge up to six radios or standalone batteries simultaneously.

*Available in select regions.

Can the X8d 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 X8d 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.



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

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 X8d use?

The X8d uses an SMA (SubMiniature version A) RF connector.

Is there any latex in the radio or new accessories?

No.

Can I use Mag One X10d audio accessories with the X8d?

Yes! The Mag One audio accessories for the X10d are fully compatible with the X8d, 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 X8d 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 X8d portable two-way radio at motorolasolutions.com/x8d

