

Optimizing Battery Charging and Device Performance

eXact 2

Revision Date: November 7, 2024
Firmware Release: 1.3.170

The eXact 2 offers versatile charging options with two modes:

1. **Wireless Inductive Charging** on the docking station.
2. **USB-C Charging** directly via a USB-C port.

Key Information on Inductive Charging

- **Heat Generation:** Inductive charging generates more heat than USB-C charging.
- **Safety Mechanism:** The docking station includes a safety feature that pauses charging for 20 minutes if the battery temperature exceeds 40°C, ensuring the Li-ion battery's protection. When charging is paused, the dock indicator will stop blinking and the charging LED indicator on the device will not be illuminated"
- **Performance Issues:** High temperatures during charging may cause the device to respond slowly or lock up unexpectedly.

Firmware Update: Version 1.3.170

The latest firmware (FW) version 1.3.170 introduces enhanced power settings for improved performance and user customization.

Default Power Settings:

- Targeting Timeout: 15 seconds
- Time to Idle: 60 seconds
- Time to Suspend: 30 minutes
- Time to Shut Down: 1 hour
- Fast Charge: Disabled

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Adjustments for Different Use Cases:

Warm Environments:

Enable "Fast Charge on Docking Station" to reduce charging time. This mode puts the device in low-power (Suspend) mode, disabling USB and Wi-Fi connections.

Alternatively, **X-Rite suggests disconnecting power from the docking station and charging via USB-C in high temperature environments.**

Heavy Usage:

Increase the "Time to Idle" setting to avoid the initialization screen when resuming from Idle Mode. Setting all power options to maximum or never can improve device speed but will reduce battery life. Adjust charging habits accordingly.

Reducing the "Targeting Timeout" will also reduce battery consumption and will reduce stress on the processor. **X-Rite suggests reducing the video targeting timeout to 15 seconds for optimal device performance.**

Important Charging Notes

- The powered docking station takes priority over USB-C Charging. If you intend to use USB-C charging, please disconnect power from the docking station.
- If your computer does not have a USB-C port, use an externally powered USB-C hub for optimal charging performance.

Recommended Wall Outlet Power Adapter Specifications:

1. Output of 5V at 3A, or
2. Maximum power output of 15W or greater. Common specifications include 5V x 3A = 15W or 9V x 2.22A = 20W. The eXact 2 automatically adjusts to the correct voltage.

By following these guidelines, you can ensure efficient charging and optimal performance of your eXact 2 device.

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