

Avalon Home Series Firmware Upgrade Guide

(MacOS)

REV 1.0

2025-07-28

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Important Upgrade Notes

1. Use a USB-A-to-A data cable; the upgrade erases all aging data.
2. Do not touch the miner, cable, or power supply during the process; irreversible damage may occur.
3. **After first power-on post-upgrade, the miner enters automatic aging; you cannot change work mode.**
4. Each work mode ages for ~1 h; manually switch to the next mode and repeat until free switching is possible, indicating aging completion.

Work mode changes can be made via the AvalonFamily App or by double-pressing the miner's button (see device manual).

1. Upgrade Tools

Computer, USB-A-to-A OTG cable (ordinary cables may fail), USB-C Docking Station upgrade package.



2. Upgrade Package

Download the firmware, upgrade tool, and Windows driver (if needed) from the official Canaan after-sales site: https://www.canaan.io/support/file_download

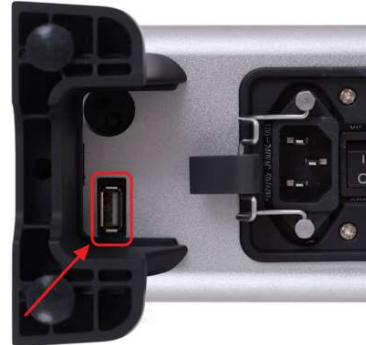
3. Upgrade Procedure

3.1. Connection

Use a USB-A-to-A cable to connect the miner to the computer via a docking station, referring to the illustrations below for the exact port location on each model.



Avalon Q USB Port



Avalon Mini3 USB Port



Avalon Nano3S USB Port



Computer USB Port

3.2. Power-on

Press and hold the reset pin while powering on; keep pressed $\geq 2s$. Screen remains off—expected. If lit, repeat. Power-on switch locations are shown below (Nano3S powers on automatically when the power cord is connected).



Avalon Q Power Switch



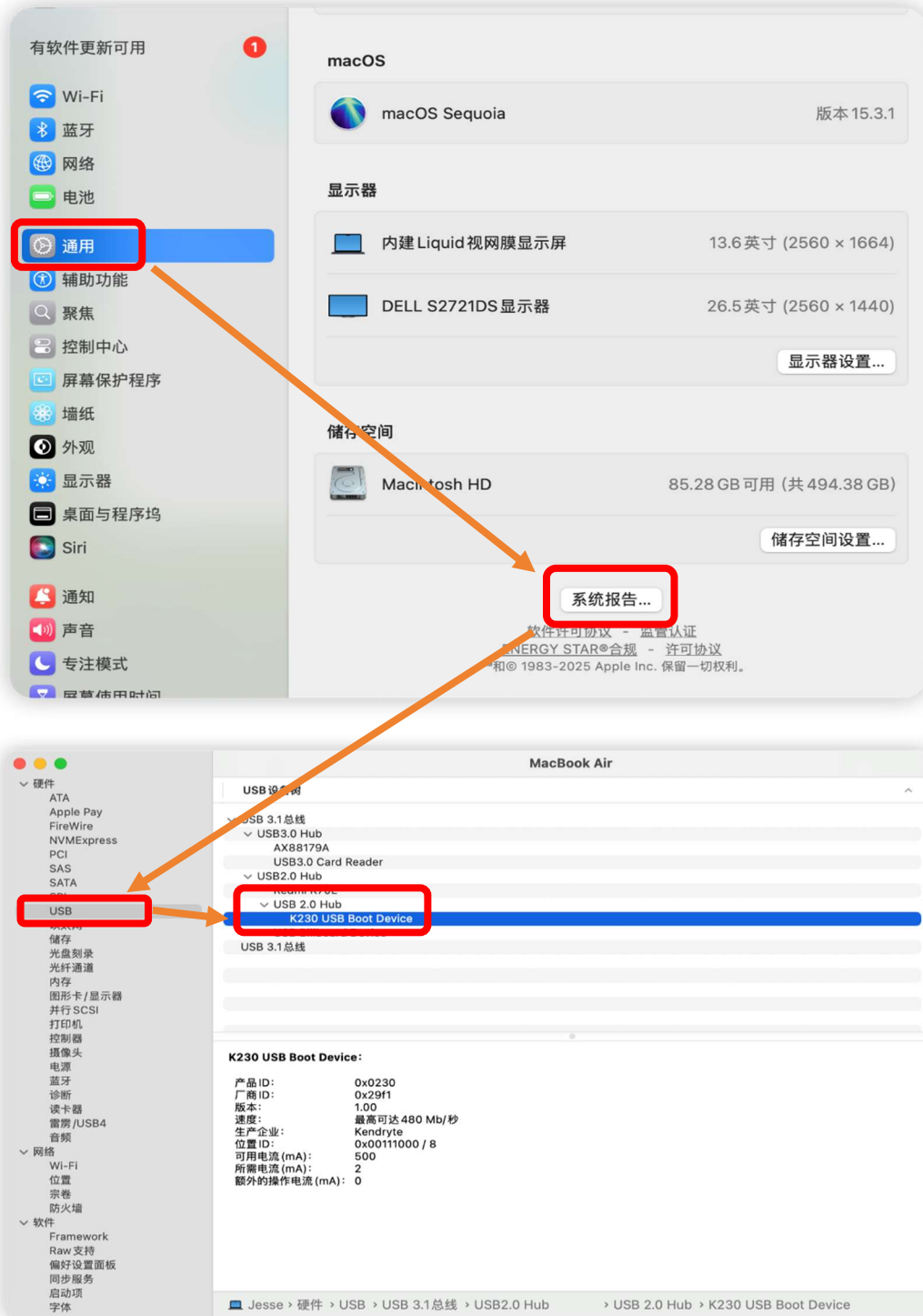
Avalon Mini3 Power Switch



Avalon Nano3S Power Supply Port

3.3. Verify connection

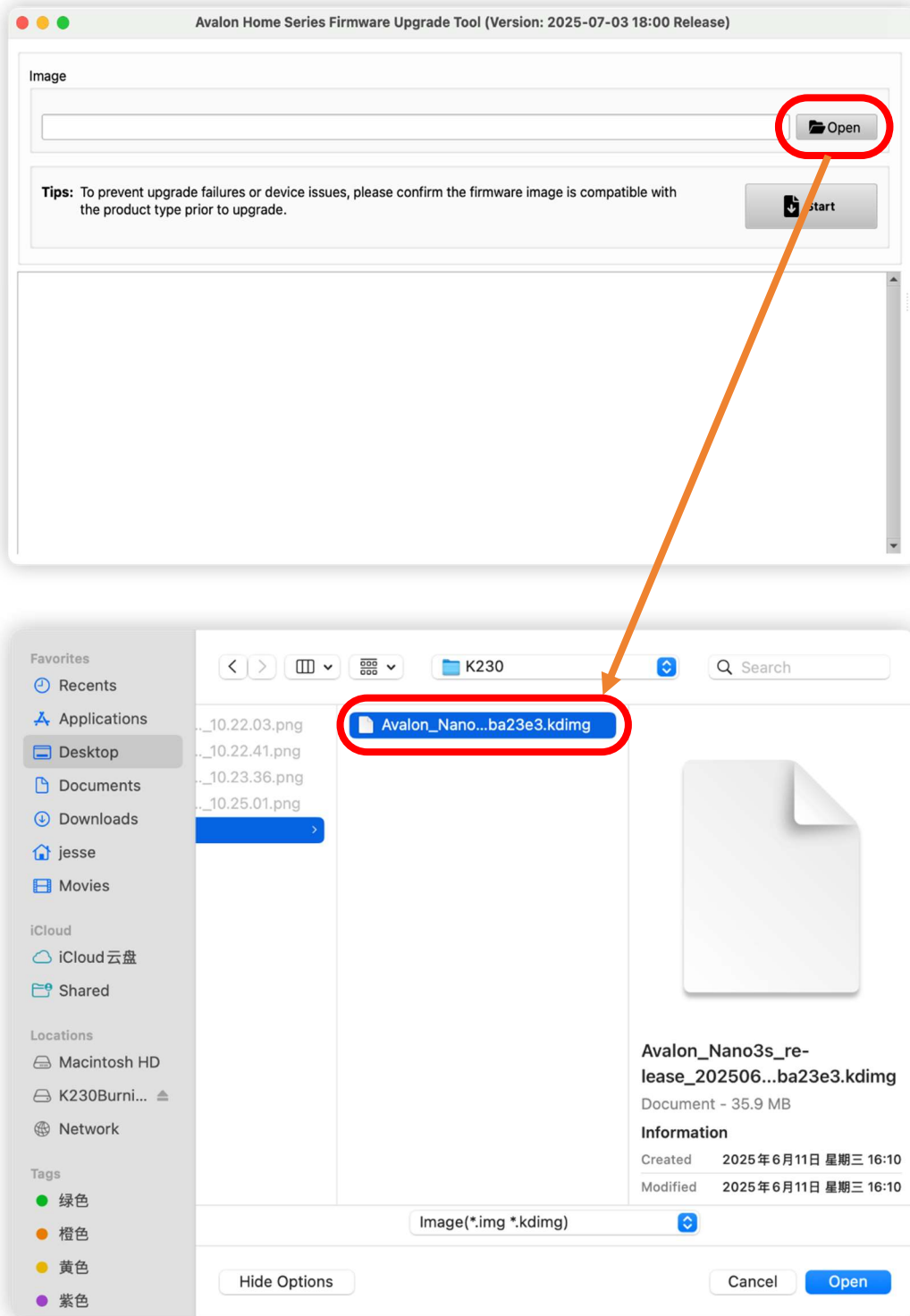
Navigate to **"About This Mac" - "System Report" - "USB"**, and check whether the string **"K230"** appears in the list.



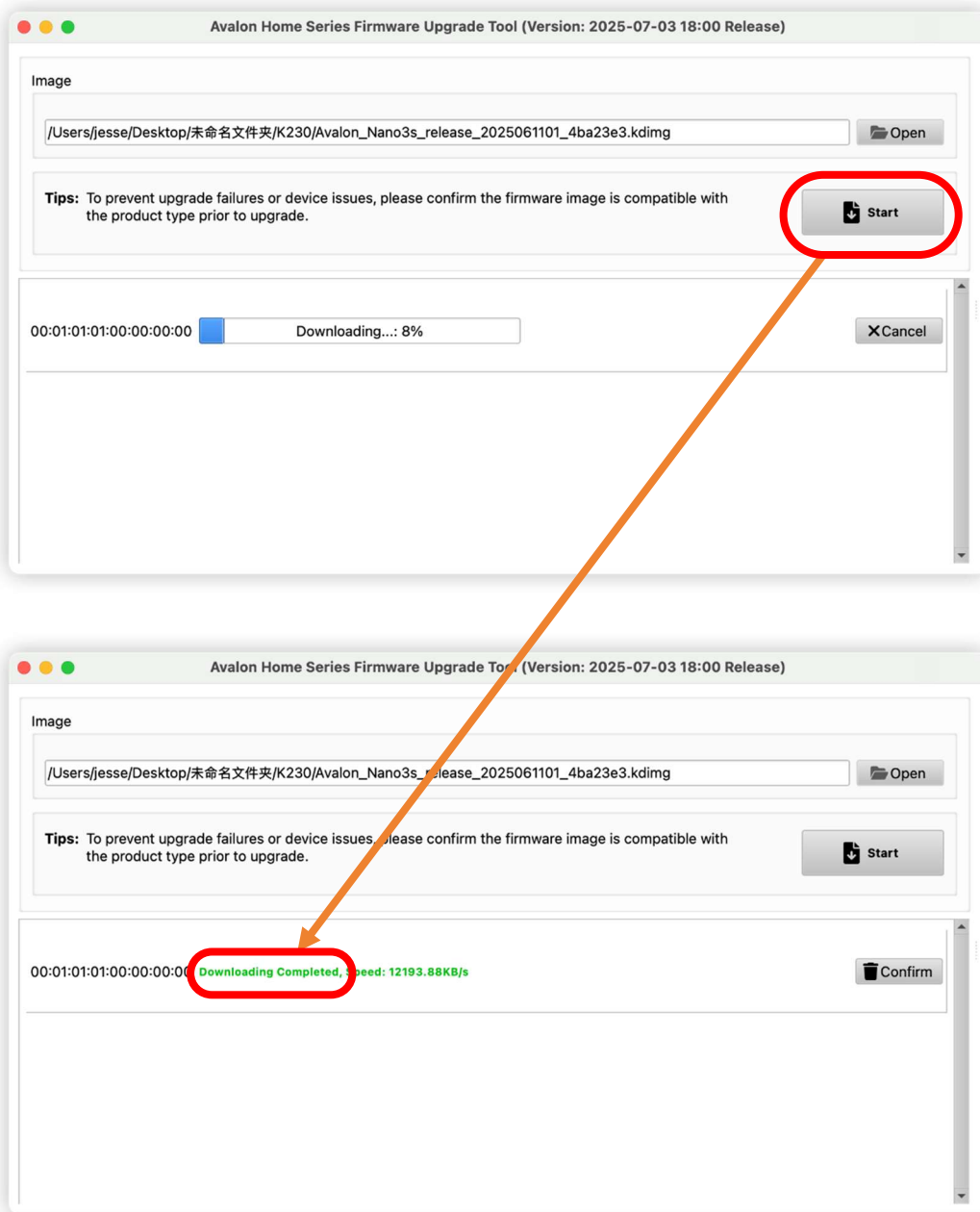
- If the device does not appear, the issue may lie with the data cable, the docking station, or the hardware itself.

3.4. Start upgrade

Open the upgrade tool:AvalonHomeSeriesFirmwareUpgradeTool- macos, **Click "Open"** to find the downloaded firmware package corresponding to your device model, **Double-click** to load.



Click “Start” to begin the upgrade; when “Downloading Completed” appears, the upgrade has succeeded.



3.5. Aging

Remove the USB-A-to-A cable, reinstall the Wi-Fi module, power the miner back on, connect and configure it with the AvalonFamily App, then proceed with work-mode aging one mode at a time.

4. After-Sales Support

If you have questions, please contact us directly for further information.

Website: <https://www.canaan.io/support>

Email: avalonsupport@canaan.io

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