

Aitek AK-D003

Aitek AK-D003 USB-C Docking Station User Manual

Model: AK-D003

1. INTRODUCTION

The Aitek AK-D003 USB-C Docking Station is a versatile 13-in-2 solution designed to expand the connectivity of your laptop, particularly non-M1/M2 MacBook Pro/Air models and Windows PCs. This docking station transforms your laptop into a powerful workstation by providing multiple display outputs, high-speed data transfer ports, Ethernet connectivity, and power delivery.

This manual provides detailed instructions for setting up, operating, and troubleshooting your Aitek AK-D003 docking station to ensure optimal performance and user experience.

2. KEY FEATURES

- **Triple Display Output:** Supports up to three external displays (HDMI1, HDMI2, DP) with resolutions up to 4K@60Hz for non-M1/M2 MacBooks and Windows. *Note: Apple M1/M2 chips support only one extended monitor.*
- **Power Delivery 3.0 (PD 100W):** Provides up to 87W power output to charge your laptop safely, requiring an external 100W charger (not included) for stable dock operation.
- **Gigabit Ethernet:** RJ-45 port offers stable and fast network transmission up to 1000Mbps.
- **Multiple USB Ports:** Two front-facing USB 3.0 ports and one USB-C port for convenient phone charging and data transfer up to 5Gbps. Two rear-facing USB 2.0 ports specifically for mouse and keyboard connections.
- **Audio Connectivity:** 3.5mm audio/microphone jack for headphones or external audio devices.
- **Dual Host Connectivity:** Includes both single and dual USB-C cables for flexible connection to your laptop.
- **Compact Design:** Vertical, space-saving design with an aluminum alloy shell for efficient heat dissipation.

3. PRODUCT OVERVIEW

Familiarize yourself with the ports and indicators on your Aitek AK-D003 docking station.



Image: Front and rear view of the Aitek AK-D003 docking station with all ports clearly labeled, including USB 2.0, USB 3.0, DisplayPort, HDMI, USB-C host connections, Ethernet, PD 3.0, and 3.5mm Audio/Mic.

Port Descriptions:

- **Working Indicator Light:** Indicates the operational status of the docking station.
- **USB 2.0 Ports (x2):** For connecting low-bandwidth devices like keyboards and mice (480Mbps).
- **USB 3.0 Ports (x2):** For high-speed data transfer up to 5Gbps.
- **DisplayPort (DP):** Video output up to 4K@60Hz.
- **HDMI Ports (x2):** Video output up to 4K@60Hz.
- **USB-C Host Ports (x2):** Connects to your laptop (Host 1 and Host 2).
- **Ethernet (RJ45):** Gigabit Ethernet port for wired network connection (1000Mbps).
- **PD 3.0 (Power Delivery):** USB-C input for connecting an external power adapter (up to 100W) to power the dock and charge your laptop.
- **3.5mm Audio/Mic Jack:** For connecting headphones or external microphones.
- **USB-C 5Gbps Port (front):** For high-speed data transfer and charging mobile devices.

4. SETUP INSTRUCTIONS

Follow these steps to set up your Aitek AK-D003 docking station:

1. **Connect Power:** Connect an external 100W Power Delivery (PD) charger (not included) to the PD 3.0 USB-C input port on the docking station. This is crucial for stable operation and charging your laptop.
2. **Connect to Laptop:** Connect the docking station to your laptop using the provided USB-C cable(s). Use the dual USB-C cable for triple display configurations on compatible laptops (non-M1/M2 MacBooks, Windows). For Windows, you can also use a single USB-C cable to Host 2 for dual display (HDMI2+DP).
3. **Connect Displays:** Connect your external monitors to the HDMI1, HDMI2, and/or DisplayPort (DP) outputs on the docking station. Ensure cables are securely inserted.
4. **Connect Peripherals:** Plug in your USB devices such as a mouse, keyboard, USB drives, or external hard drives into the available USB-A (USB 3.0 or USB 2.0) and front USB-C ports.
5. **Connect Ethernet:** For a stable wired network connection, connect an Ethernet cable from your router/modem to the RJ45 port on the docking station.
6. **Connect Audio:** If desired, connect headphones or speakers to the 3.5mm audio/mic jack.

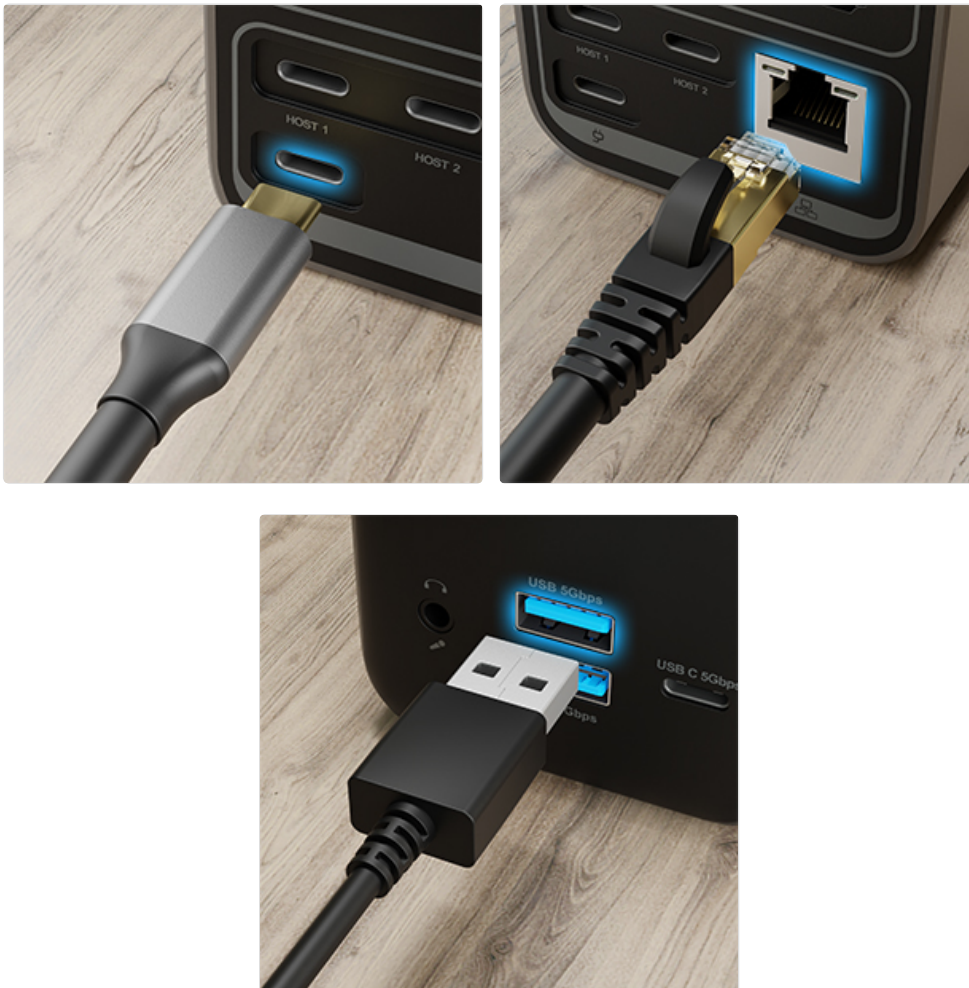


Image: Visual guide showing the connection of USB-C host cable, Ethernet cable, and a USB device to the docking station.

5. OPERATING INSTRUCTIONS

5.1 Display Configuration

The docking station supports various display configurations depending on your laptop's operating system and

capabilities.

- **For Windows Laptops:** Connect via a single USB-C cable to Host 2 to expand two screens (HDMI2+DP). For triple display, use the dual USB-C cable to connect to both Host 1 and Host 2. You can configure displays in Mirror Mode (duplicate screens) or Extend Mode (separate screens) through your Windows Display Settings.
- **For Non-M1/M2 MacBook Pro/Air:** Connect via the dual USB-C cable to achieve triple display (HDMI1+HDMI2 or HDMI1+DP) with different content (MST mode). Configure displays in System Preferences > Displays.
- **For Apple M1/M2 MacBooks:** Due to chip limitations, only one extended monitor is supported. The other displays will mirror the primary extended display.

13 in 2 Macbook Pro/Air USB C Dock with 3 Displays(Not M1/M2)

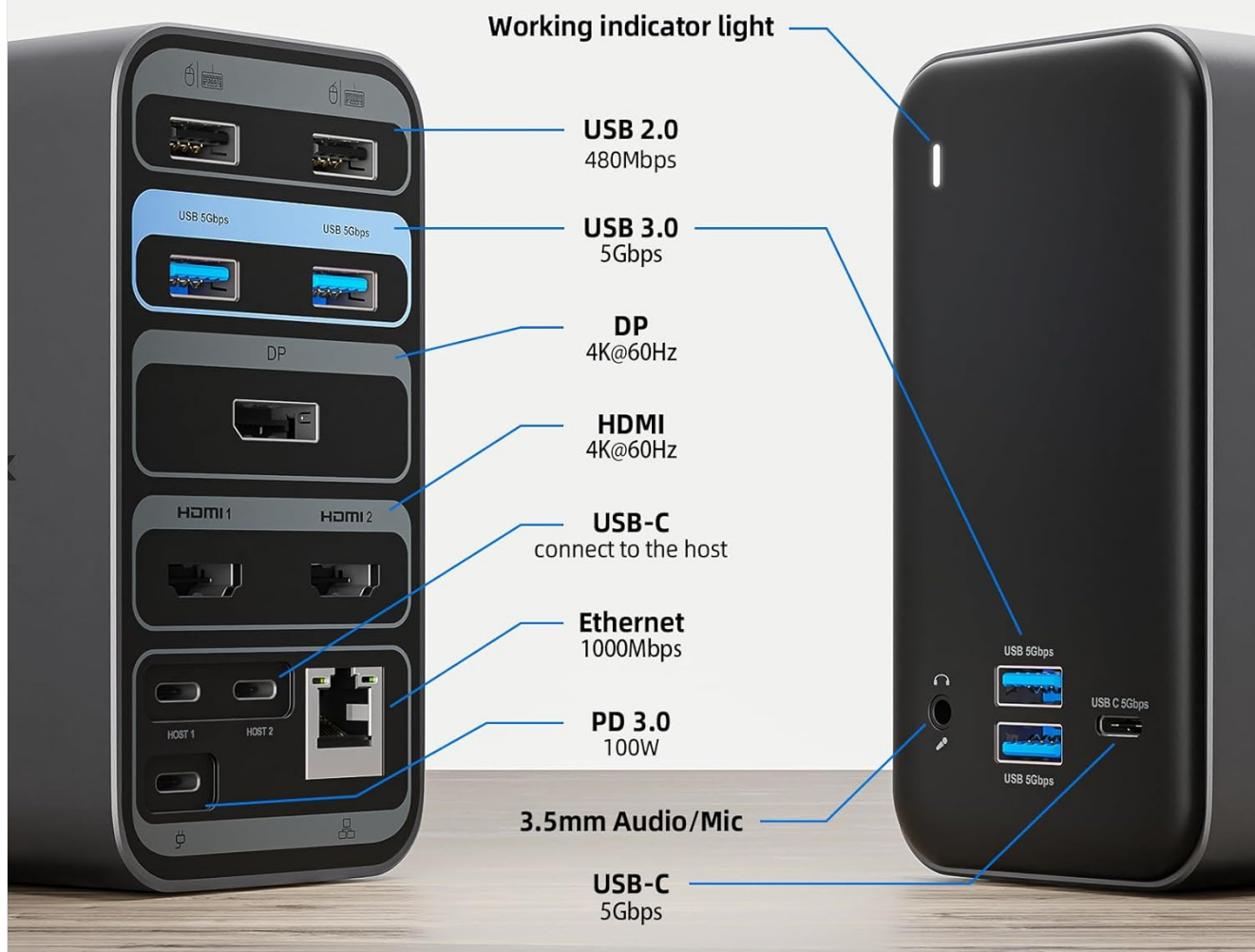


Image: Illustration of Mirror Mode and Extend Mode for triple display setups with a MacBook and the docking station. Note the specific support for M1/M2 MacBooks.

5.2 Power Delivery

Ensure a 100W PD charger is connected to the dock's PD 3.0 input for optimal performance and laptop charging. The dock provides up to 87W output to your laptop. The working indicator light will illuminate when power is supplied.

Triple 4K@60Hz Displays for macOS

*Only support 1 extend monitor for Apple M1/M2 chip

Mirror Mode



Extend Mode

*HDMI2 and DP display the same content



Image: Diagram showing 100W input to the dock and 87W output to a MacBook Pro for fast charging. An external wall charger is shown connected to the dock.

5.3 Data Transfer

Utilize the USB 3.0 and front USB-C 5Gbps ports for high-speed data transfer with external storage devices, flash drives, and other compatible peripherals. The rear USB 2.0 ports are ideal for connecting a mouse and keyboard.

5.4 Network Connection

The RJ45 Gigabit Ethernet port provides a stable and fast wired internet connection, superior to many wireless connections, especially for large downloads or online gaming.

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Video: Demonstrates the features and connectivity of the Aitek AK-D003 docking station, including charging, multiple display setup, and high-speed data transfer. This video highlights the ease of connecting various peripherals and monitors to create an extended workstation.

6. MAINTENANCE

To ensure the longevity and optimal performance of your Aitek AK-D003 docking station, please follow these maintenance guidelines:

- **Cleaning:** Keep the docking station clean and free from dust. Use a soft, dry, lint-free cloth for cleaning. Avoid using liquid cleaners or abrasive materials.
- **Environment:** Avoid exposing the device to extreme temperatures, high humidity, or direct sunlight. Operate it in a well-ventilated area to prevent overheating.
- **Handling:** Do not drop, disassemble, or attempt to repair the device yourself. Unauthorized repairs can void your warranty and cause damage.
- **Cable Management:** Ensure cables are not excessively bent or strained, which can lead to damage over time.

7. TROUBLESHOOTING

If you encounter issues with your docking station, refer to the following common troubleshooting steps:

- **No Display Output / Incorrect Resolution:**
 - Verify all cable connections (USB-C to laptop, HDMI/DP to monitors) are secure.
 - Ensure your laptop's USB-C port supports video output (DisplayPort Alternate Mode).
 - Check your laptop's display settings to configure mirror or extend mode and desired resolution.
 - For Apple M1/M2 MacBooks, remember only one extended monitor is supported.
 - Try connecting monitors one by one to isolate the issue.
- **Laptop Not Charging:**
 - Confirm a 100W PD charger is connected to the dock's PD 3.0 input.
 - Ensure the USB-C cable connecting the dock to your laptop supports power delivery.
 - Check the power indicator light on the dock.
- **Slow Data Transfer / USB Devices Not Recognized:**
 - Ensure devices are connected to the correct USB ports (USB 3.0 for high speed, USB 2.0 for keyboard/mouse).
 - Try connecting the device directly to your laptop to rule out device issues.
 - Avoid overloading the USB ports with too many high-power devices simultaneously.
- **No Ethernet Connection:**
 - Verify the Ethernet cable is securely connected to both the dock and your router/modem.
 - Check network settings on your laptop.
 - Ensure your internet service is active.
- **Audio Issues:**
 - Check your laptop's audio output settings to ensure the docking station's audio device is selected.
 - Verify headphone/speaker connections to the 3.5mm jack.

8. SPECIFICATIONS

Feature	Specification
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Feature	Specification
Product Dimensions	2.9 x 2.5 x 4.7 inches
Item Weight	12.3 ounces (350 Grams)
Model Number	AK-D003
Brand	Aitek
Hardware Interface	3.5mm Audio, DisplayPort, Ethernet, HDMI, USB 3.0
Compatible Devices	Windows, Mac (Non-M1/M2)
Total USB Ports	5 (2x USB 3.0, 2x USB 2.0, 1x USB-C 5Gbps)
Number of Ports	13-in-2
Total HDMI Ports	2
Wattage (PD Input)	100 watts
UPC	633183715463
Date First Available	December 12, 2022

9. WARRANTY AND SUPPORT

The Aitek AK-D003 USB-C Docking Station typically comes with a 1-year warranty from the date of purchase. For technical support, warranty claims, or further assistance, please contact Aitek customer service through their official website or the platform where the product was purchased.

When contacting support, please provide your product model number (AK-D003) and purchase details to facilitate a quicker resolution.