

NOVOO NHM12S-MH12

NOVOO 12-in-1 USB C Docking Station User Manual

Model: NHM12S-MH12

1. INTRODUCTION

The NOVOO 12-in-1 USB C Docking Station is designed to expand the connectivity of your USB-C enabled laptop or device. It transforms a single USB-C port into a comprehensive workstation, offering multiple display outputs, high-speed data transfer, and power delivery capabilities. This manual provides instructions for setup, operation, and troubleshooting to ensure optimal performance.

2. PRODUCT OVERVIEW

The docking station features a compact aluminum design for efficient heat dissipation and durability. It includes a 30cm integrated USB-C cable for flexible placement on your desk.

Port Layout and Functions:

- **2 x HDMI Ports:** Supports 4K Ultra HD resolution. One port supports 4K@60Hz, the other supports 4K@30Hz.
- **1 x VGA Port:** Supports 1080P@60Hz resolution.
- **1 x USB-C 3.2 Data Port:** Up to 10Gbps data transfer speed.
- **2 x USB-A 3.2 Data Ports:** Up to 10Gbps data transfer speed.
- **3 x USB-A 2.0 Ports:** Up to 480Mbps data transfer speed, ideal for peripherals like mouse, keyboard, or printer.
- **1 x SD Card Reader:** Supports SD/SDHC/SDXC cards, up to 170MB/s.
- **1 x TF (Micro SD) Card Reader:** Supports Micro SD/SDHC/SDXC cards, up to 170MB/s.
- **1 x USB-C PD 3.0 Charging Port:** Supports up to 100W power input for charging your host device (85W continuous output).

NOVOO 12 IN 1 Triple Display Docking Station



2x HDMI



VGA



USB-C 3.2



2x USB-A 3.2



3x USB-A 2.0



PD 100W



SD / TF



Image: Overview of the NOVOO 12-in-1 Docking Station with all ports labeled, including HDMI 1 (4K@60Hz), HDMI 2 (4K@30Hz), SD/TF 3.0 (170MB/s), USB-C 3.2 (10Gbps), PD (100W), 2x USB-A 3.2 (10Gbps), 3x USB-A 2.0 (480Mbps), and VGA (1080P@60Hz).

3. SETUP

- 1. Connect to Host Device:** Plug the integrated USB-C cable of the docking station into a compatible USB-C port on your laptop or tablet. Ensure your device's USB-C port supports video output (DisplayPort Alt Mode) and/or Power Delivery for full functionality.
- 2. Connect Power Adapter (Optional but Recommended):** For optimal performance and to charge your host device, connect a USB-C Power Delivery charger (minimum 65W, 100W recommended) to the docking station's USB-C PD port.
- 3. Connect Peripherals:** Connect your monitors, USB devices (keyboard, mouse, external drives), and SD/TF cards to the corresponding ports on the docking station.
- 4. Power On:** Power on your host device and connected monitors. The docking station is plug-and-play and typically requires no additional drivers.

Important: USB-C Port Compatibility

Before using the dock, verify that your laptop's USB-C port supports the necessary functions. Full functionality (video, data, power) requires a USB-C port that supports Thunderbolt 3/4/5 or DisplayPort Alt Mode (DP Alt Mode).



Image: Diagram illustrating various USB-C port capabilities. It shows icons for Thunderbolt 3/4/5 (data + power + DisplayPort), Data + Power + DisplayPort, Data + Power + DisplayPort (another icon), and then icons for 'Data Only', 'Charging Only', and 'Data Only' with a red cross, indicating incompatibility for full dock functionality. A note advises ensuring the laptop's Type-C port supports Thunderbolt 3/4/5 or DP Alt Mode.

4. OPERATING INSTRUCTIONS

4.1 Display Configuration

The docking station supports single, dual, and triple display setups. The behavior of multiple displays varies between Windows and macOS.

Windows Systems:

Windows supports Multi-Stream Transport (MST), allowing for extended desktop modes where each connected monitor can display different content.

- **Mirror Mode:** All external displays show the same content as your laptop screen.
- **Extend Mode:** Each external display shows different content, extending your desktop.
- **MST Display:** Allows for different content on each external display (B, C, D) while the laptop screen (A) can also be used independently or mirrored.



Image: Illustrations of Mirror Mode, Extend Mode, and MST Display for Windows systems, showing how multiple monitors can be configured.

macOS Systems:

Due to system restrictions, macOS only supports Single-Stream Transport (SST). This means all external monitors will display the same content (mirror mode) or extend the desktop to a single combined external display, but cannot display different extended content on multiple external monitors simultaneously.

- **Mirror Mode:** All external displays show the same content as your laptop screen.
- **Extend Mode:** All external displays show the same extended content, acting as one large extended display.
- **MST Display:** Not supported on macOS.



Image: Illustrations of Mirror Mode and Extend Mode for macOS systems, with a clear indication that MST Display is not supported.

Supported Resolutions:

The maximum resolution and refresh rate depend on your host device's DisplayPort (DP) version (DP1.4 or DP1.2) and the number of connected displays.



Image: Table detailing supported screen resolutions for Windows systems based on DP protocol (DP1.4, DP1.2) and display mode (Single, Dual, Triple) across HDMI1, HDMI2, and VGA ports.



Image: Table detailing supported screen resolutions for macOS systems based on DP protocol (DP1.4, DP1.2) and display mode (Single, Dual, Triple) across HDMI1, HDMI2, and VGA ports.

4.2 Data Transfer

The docking station offers high-speed data transfer for various devices.

- **USB 3.2 Ports (1x USB-C, 2x USB-A):** These ports provide data transfer speeds up to 10Gbps, allowing for rapid transfer of large files and 4K videos.
- **USB 2.0 Ports (3x USB-A):** These ports offer speeds up to 480Mbps, suitable for connecting standard peripherals like keyboards, mice, and printers.
- **SD/TF Card Readers:** The integrated card readers support speeds up to 170MB/s, ideal for photographers and content creators. Simultaneous reading of SD and TF cards is supported.



Image: Close-up view of the docking station highlighting the USB 3.2 ports and the 10Gbps data transfer capability.



Image: A laptop connected to the docking station, illustrating fast file transfer speeds with a comparison chart showing USB 3.2/USB-C 3.2 at 10Gbps, USB 3.0 at 5Gbps, and USB 2.0 at 480Mbps.



Image: A tablet connected to the docking station, demonstrating the use of the SD/Micro SD card reader with a speed of 170MB/s. It also lists supported card types.

4.3 Power Delivery

The USB-C PD 3.0 port supports up to 100W power input, providing a continuous and safe 85W charge to your connected laptop. This allows you to power your laptop while using the docking station, preventing battery drain during intensive tasks.

Note: The 100W PD port is for power input only and does not support data transfer or video output.



Image: A laptop connected to the docking station, which is then connected to a wall charger, illustrating 100W input power and 85W output power to the laptop. The cable length of 30cm is also indicated.

5. COMPATIBILITY

The NOVOO 12-in-1 Docking Station offers universal compatibility with a wide range of USB-C and Thunderbolt 3/4/5 enabled devices and operating systems.

Supported Operating Systems:

- Windows
- macOS
- ChromeOS
- iPadOS
- Linux
- Android

Compatible Devices (Examples):

- MacBook Pro/Air (M1/M2/M3 & Intel)
- iPad Pro/Air
- Dell XPS 13/15/17
- Lenovo ThinkPad/Yoga
- HP Spectre/Envy
- ASUS, Acer, Chromebook models
- Surface Pro 8/9/Laptop
- Nintendo Switch / Steam Deck

Universelle Kompatibilität

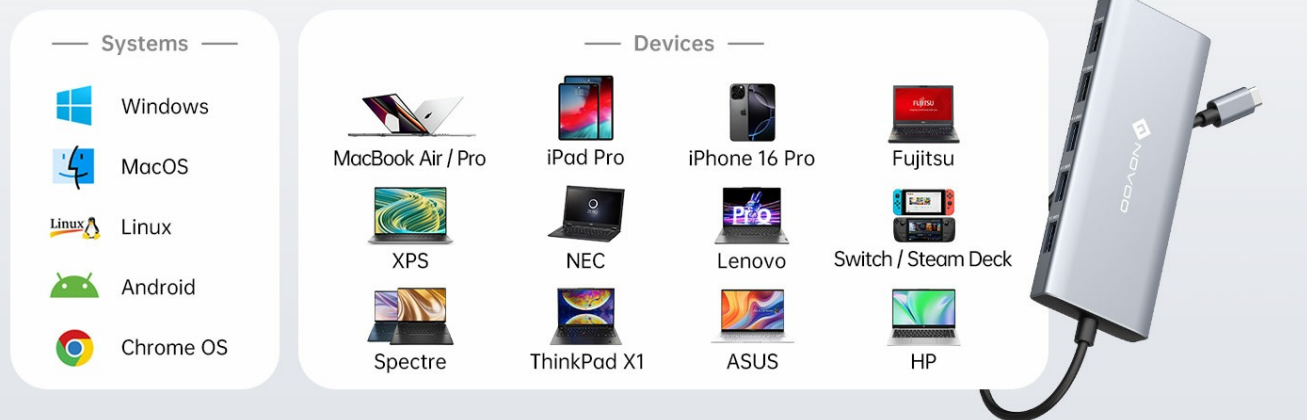


Image: A compatibility chart showing various devices (MacBook Air/Pro, iPad Pro, iPhone 16 Pro, XPS, NEC, Lenovo, Spectre, ThinkPad X1, ASUS, HP, Switch/Steam Deck) and operating systems (Windows, macOS, Linux, Android, Chrome OS) that are compatible with the docking station.

6. TROUBLESHOOTING

If you encounter issues with your NOVOO 12-in-1 Docking Station, please refer to the following common solutions:

• No Display Output:

- Ensure your laptop's USB-C port supports DisplayPort Alt Mode.
- Check all HDMI/VGA cable connections between the dock and monitors.
- Verify that your monitors are set to the correct input source (HDMI 1, HDMI 2, VGA).
- Try connecting one monitor at a time to isolate the issue.
- For macOS, remember that MST (extended different displays) is not supported.

• No Power Delivery/Charging:

- Ensure a compatible USB-C PD charger (minimum 65W, 100W recommended) is connected to the dock's PD port.
- Check the USB-C cable connection from the dock to your laptop.
- Verify your laptop's USB-C port supports Power Delivery.

• Slow Data Transfer:

- Ensure you are using the USB 3.2 ports (10Gbps) for high-speed devices. USB 2.0 ports are slower.
- Check the cables connecting your external devices to the dock. Use high-quality USB 3.0/3.2 cables.
- Ensure your external storage device supports USB 3.0/3.2 speeds.

• Intermittent Connections:

- Ensure all cables are securely connected.
- Try restarting your laptop and reconnecting the docking station.
- Avoid placing the dock in areas with poor ventilation, as overheating can affect performance.

7. SPECIFICATIONS

Feature	Specification
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Model Number	NHM12S-MH12
Brand	NOVOO
Connectivity	USB-C (Host Connection)
Video Output	2 x HDMI (4K@60Hz, 4K@30Hz), 1 x VGA (1080P@60Hz)
USB Data Ports	1 x USB-C 3.2 (10Gbps), 2 x USB-A 3.2 (10Gbps), 3 x USB-A 2.0 (480Mbps)
Card Reader	SD/TF 3.0 (up to 170MB/s), simultaneous read supported
Power Delivery	USB-C PD 3.0 (100W input, 85W output to host)
Cable Length	30 cm
Material	Aluminum Alloy
Special Features	Fast Charging, Lightweight, Plug and Play, Portable, Fast Data Transfer

8. WARRANTY & SUPPORT

Warranty Information:

This NOVOO product comes with a **2-year warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or external factors.

Customer Support:

For technical assistance, warranty claims, or any questions regarding your NOVOO 12-in-1 USB C Docking Station, please contact the seller or manufacturer directly through their official support channels. Please have your model number (NHM12S-MH12) and proof of purchase ready when contacting support.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question