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NOVOO NHM12S-MH12

NOVOO 12-in-1 USB-C Docking Station

Model: NHM12S-MH12

INTRODUCTION

Thank you for choosing the NOVOO 12-in-1 USB-C Docking Station. This manual provides essential information for setting up, operating, and maintaining your device. This docking station is designed to expand the connectivity of your USB-C enabled laptop, offering multiple ports for displays, data transfer, and power delivery.

PRODUCT OVERVIEW

The NOVOO 12-in-1 USB-C Docking Station is a versatile hub that provides extensive connectivity options through a single USB-C connection to your host device. It features a comprehensive array of ports to enhance your productivity and expand your workspace.

Maximize Your Connectivity

12-in-1 Expansion

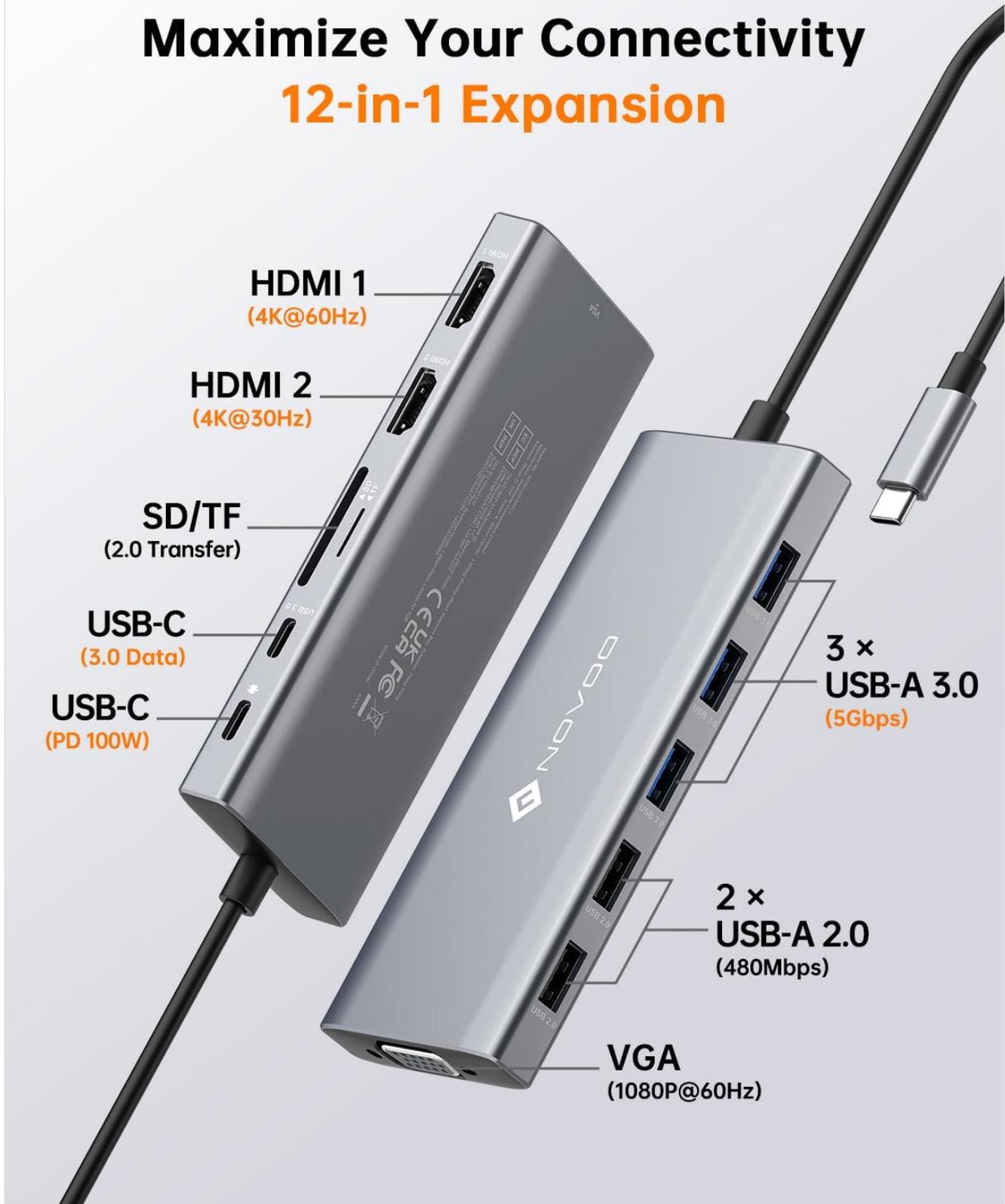


Image: NOVOO 12-in-1 USB-C Docking Station showing all available ports and their functions.

Key Features:

- **12-in-1 Connectivity:** Includes 2 x 4K HDMI, 1 x VGA, 3 x USB-A 3.0 (5Gbps), 1 x USB-C 3.0 Data, 2 x USB-A 2.0, 1 x SD Card Reader, 1 x TF Card Reader, and 1 x 100W Power Delivery (PD) charging port.
- **Triple Display Support:** Connect up to three external displays. Windows supports Extend Mode (4K@30Hz + 1080P with two monitors; 1080P@60Hz with three monitors). macOS supports Mirror Mode only. HDMI 1 supports up to 4K@60Hz when used alone. Requires a DP1.4 laptop and monitor for optimal performance.
- **High-Speed Data Transfer:** USB-A 3.0 and USB-C 3.0 ports offer 5Gbps data transfer. USB-A 2.0 ports

provide 480Mbps.

- **100W Power Delivery:** The PD port supports up to 100W input for stable power supply and up to 85W USB-C output for fast charging compatible laptops and devices. Note: The PD charging port is compatible only with devices that support the PD protocol.
- **SD/TF Card Reader:** Easily access files from SD and Micro SD cards with simultaneous reading support.
- **Portable Design:** Compact and lightweight with a 30cm (11.8 inches) extension cable for flexible use, ideal for travel and various workspaces.

SETUP

Follow these steps to set up your NOVOO 12-in-1 USB-C Docking Station:

1. **Verify Laptop Compatibility:** Ensure your laptop's USB-C port supports Data, Power Delivery, and DisplayPort Alt Mode for full functionality. Refer to the diagram below for port capabilities.



Image: USB-C port compatibility guide for various functions including data, power delivery, and display output.

2. **Connect to Laptop:** Plug the integrated USB-C cable from the docking station into an available USB-C port on your laptop.
3. **Connect Power (Optional but Recommended):** For best performance and to charge your laptop, connect your laptop's power adapter (65W+ recommended) to the 100W PD USB-C input port on the docking station.
4. **Connect External Displays:** Use HDMI or VGA cables to connect your monitors to the corresponding ports on the docking station.
5. **Connect Peripherals:** Plug in your USB devices (keyboard, mouse, external drives, etc.) into the available USB-A or USB-C data ports. Insert SD or TF cards into the card reader slots as needed.

Setup Video:

Video: Official NOVOO video demonstrating the setup and features of the 12-in-1 USB-C Docking Station.

OPERATING INSTRUCTIONS

Display Configuration:

The docking station supports various display configurations depending on your operating system and laptop's DisplayPort (DP) version.



Image: Example of a multi-screen display setup using the docking station.

- **Windows Systems:** Supports both Mirror Mode (duplicate displays) and Extend Mode (separate displays). You can achieve up to three extended displays.
- **macOS Systems:** Supports Mirror Mode (duplicate displays) across all external monitors. Extend Mode is not supported for multiple external displays; all external displays will mirror each other.

Windows Display Resolution:

Interface Protocol	Mode	HDMI1	HDMI2	VGA
DP1.4	Single Display	4K@60Hz	4K@30Hz	1080P@60Hz
	Dual Display	4K@30Hz	1080P@60Hz	-
	Triple Display	1080P@60Hz	1080P@60Hz	1080P@60Hz
DP1.2	Single Display	4K@30Hz	4K@30Hz	1080P@60Hz
	Dual Display	1080P@60Hz	-	1080P@60Hz
	Triple Display	1080P@60Hz	1080P@60Hz	640*480@30Hz

macOS Display Resolution:

Interface Protocol	Mode	HDMI1	HDMI2	VGA
DP1.4	Single Display	4K@60Hz	4K@30Hz	1080P@60Hz
	Dual Display	4K@30Hz	-	1080P@60Hz
	Triple Display	1080P@60Hz	1080P@60Hz	1080P@60Hz
DP1.2	Single Display	4K@30Hz	4K@30Hz	1080P@60Hz
	Dual Display	4K@30Hz	-	1080P@60Hz
	Triple Display	1080P@60Hz	1080P@60Hz	640*480@30Hz

Power Delivery (PD) Charging:

The dedicated USB-C PD port allows you to charge your laptop while using the docking station. Connect your laptop's original power adapter (or a compatible 65W+ USB-C PD charger) to this port. The docking station will pass through up to 85W of power to your laptop, reserving 15W for its own operation.

PD 100W USB-C Fast Charging

⚠ For best performance, connect a 65W+ charger to the PD port before use.



Image: Diagram illustrating 100W PD input and 85W output for laptop charging.

Data Transfer and Card Reader:

Utilize the USB-A 3.0, USB-C 3.0, and USB-A 2.0 ports for connecting various peripherals and transferring data. The SD and TF card slots enable quick access to memory card content.

5 Gbps
USB-A 3.0 × 3
+ USB-C 3.0

480 Mbps
USB-A 2.0
× 2

104 Mbps
SD/TF

USB-C and USB-A are for data output only,
not for charging.

Icons representing supported devices: Mouse, Keyboard, USB-A, SD/TF Card, Smartphone, Printer, Webcam, Speaker.

Image: High-speed data transfer capabilities with USB 3.0 and SD/TF card reader.

SPECIFICATIONS

Feature	Detail
Product Dimensions	1.85 x 0.57 x 5.16 inches
Item Weight	4.6 ounces
Model Number	NHM12S-MH12
Brand	NOVOO
Color	Grey
Hardware Interface	USB Type C
Special Feature	Fast Charging, Portable
Compatible Devices	MacBook Pro, Dell, HP, Surface (any USB-C laptop supporting DP Alt Mode and PD)

TROUBLESHOOTING

- **No Display Output:**

- Ensure your laptop's USB-C port supports DisplayPort Alt Mode.
- Check all cable connections (USB-C to laptop, HDMI/VGA to monitors).
- Verify monitor input settings are correct (e.g., HDMI 1, HDMI 2, VGA).
- For Windows, check display settings (Display Settings > Multiple Displays) to detect and configure monitors.
- For macOS, remember only Mirror Mode is supported for multiple external displays.

- **Slow Data Transfer:**

- Ensure you are using USB 3.0 ports for high-speed devices. USB 2.0 ports offer slower speeds.
- The performance of the connected device (e.g., external hard drive) can also affect transfer speeds.

- **Laptop Not Charging:**

- Confirm your laptop supports Power Delivery (PD) via its USB-C port.
- Ensure your power adapter is connected to the docking station's PD port and is 65W or higher.
- Check if the power adapter itself is functioning correctly.

- **Intermittent Connections:**

- Ensure all cables are securely connected.
- Avoid excessive bending or strain on the docking station's integrated USB-C cable.
- Try connecting the docking station to a different USB-C port on your laptop if available.

MAINTENANCE

To ensure the longevity and optimal performance of your NOVOO 12-in-1 USB-C Docking Station, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to wipe the surface of the docking station. Avoid using liquid cleaners or

abrasive materials, which can damage the finish or internal components.

- **Storage:** When not in use, store the docking station in a cool, dry place away from direct sunlight and extreme temperatures.
- **Handling:** Avoid dropping or subjecting the device to strong impacts. Do not pull on the integrated USB-C cable forcefully.
- **Ventilation:** Ensure the docking station has adequate airflow to prevent overheating, especially during prolonged use with multiple connected devices and displays.

WARRANTY AND SUPPORT

NOVOO products are designed for reliability and performance. For warranty information, technical support, or any inquiries regarding your 12-in-1 USB-C Docking Station, please refer to the official NOVOO website or contact their customer service directly. Keep your purchase receipt for warranty claims.

Manufacturer: NOVOO