

VENTION TPUH0

VENTION 16-in-1 USB C Docking Station User Manual

Model: TPUH0

1. INTRODUCTION

Thank you for choosing the VENTION 16-in-1 USB C Docking Station. This versatile docking station is designed to expand the connectivity of your USB-C or Thunderbolt 3/4 enabled laptop, providing multiple ports for displays, data transfer, network, and power delivery. Please read this manual carefully before use to ensure proper operation and maximize the product's potential.



Image: The VENTION 16-in-1 USB C Docking Station shown with its included USB-C cable, highlighting its compact design and various ports.

2. SAFETY INFORMATION

- Do not expose the device to water, moisture, or extreme temperatures.
- Avoid dropping or subjecting the device to strong impacts.
- Do not attempt to disassemble or repair the device yourself. Refer to qualified service personnel.
- Use only the provided USB-C cable or a certified USB-C 4.0 cable for optimal performance.
- Ensure proper ventilation around the docking station during operation.

3. PACKAGE CONTENTS

- 1 x VENTION 16-in-1 USB C Docking Station
- 1 x USB-C 4.0 Cable (1.5 ft)
- 1 x User Manual

Note: Power adapter is not included.



Image: Illustration showing the contents included in the package: the docking station, USB-C cable, and user manual.

4. PRODUCT OVERVIEW AND PORTS

The VENTION 16-in-1 Docking Station offers a comprehensive array of ports to meet diverse connectivity needs:

- **Front Panel:**

- 1 x SD Card Slot (90MB/s)
- 1 x TF Card Slot (90MB/s)
- 1 x USB 3.0 Type-A Port (5Gbps)
- 1 x USB 3.2 Gen 1 Type-C Port (5Gbps)
- 2 x USB 3.2 Gen 2 Type-A Ports (10Gbps)
- 1 x 3.5mm TRRS Audio Jack (Microphone/Audio)

- **Rear Panel:**

- 1 x PD (Power Delivery) Port (100W Max Input)
- 1 x PC HOST Port (Connects to Laptop, 85W Max Output)
- 2 x USB 2.0 Type-A Ports (480Mbps)
- 2 x HDMI 2.0 Ports (4K@60Hz)
- 1 x DisplayPort 1.4 (4K@60Hz)
- 1 x RJ45 Gigabit Ethernet Port (10/100/1000Mbps)

16-IN-1



Image: Detailed diagram illustrating all 16 ports on the VENTION docking station, including their types and maximum speeds/resolutions.

5. SETUP GUIDE

5.1 Initial Connection

1. Connect the provided USB-C 4.0 cable from the "PC HOST" port on the docking station to a full-featured USB-C or Thunderbolt 3/4 port on your laptop.
2. (Optional) For power delivery to your laptop, connect a USB-C power adapter (not included) to the "PD" port on the docking station. The docking station supports up to 100W power input, delivering up to 85W to your laptop.
3. The docking station is plug-and-play for most operating systems and does not require driver installation.



Image: Visual guide on how to identify a compatible full-featured USB-C or Thunderbolt port on your laptop for proper functionality.

5.2 Connecting Peripherals

Once the docking station is connected to your laptop, you can connect various peripherals:

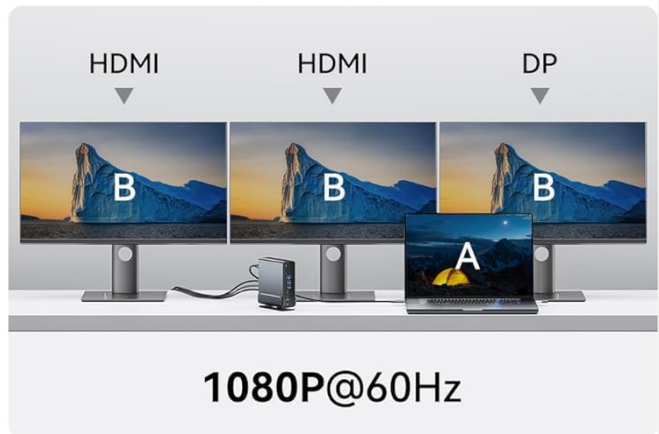
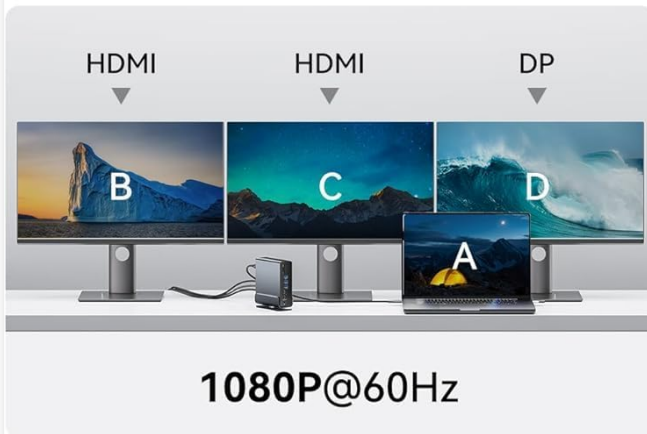
- **Monitors:** Connect up to three external monitors using the HDMI and DisplayPort outputs.
- **USB Devices:** Connect USB flash drives, external hard drives, keyboards, mice, and other USB devices to the available USB-A and USB-C data ports.
- **Network:** Connect an Ethernet cable to the RJ45 port for a stable wired network connection.
- **Audio:** Connect headphones or speakers to the 3.5mm audio jack.
- **Memory Cards:** Insert SD or TF cards into the respective slots for data access.

5.3 Display Configuration (Windows & macOS)

The docking station supports triple monitor display. Configuration varies slightly between Windows and macOS:



Windows Display Mode



macOS Display Mode

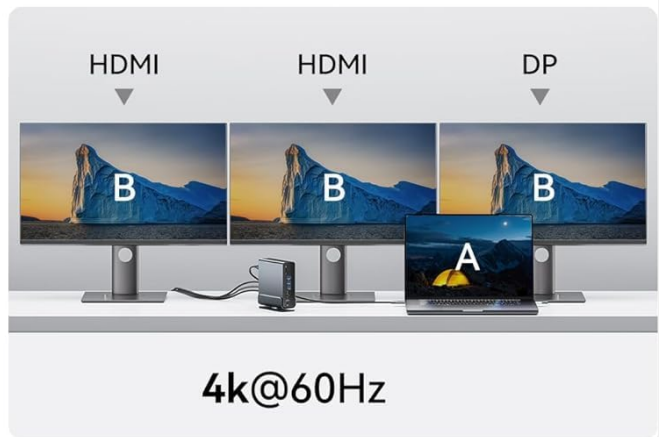
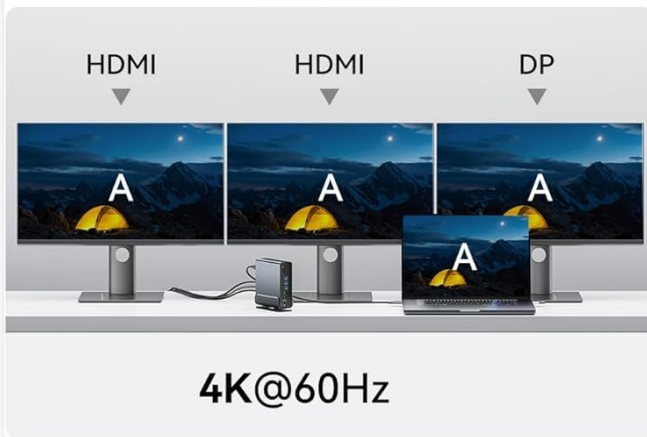


Image: Diagrams illustrating various display configurations for Windows (Extend/Mirror) and macOS (Mirror only for extended displays).

Windows System:

- **Dual Monitor Setup:** Supports 4K@30Hz for two extended monitors.
- **Triple Monitor Setup:** Supports 1080P@60Hz for three extended monitors.
- You can configure display modes (Extend, Duplicate, Second screen only) via Windows Display Settings.

Pour Windows

Triple Affichage



Image: A laptop connected to three external monitors, demonstrating the triple display setup for Windows operating systems.

Des Images 4k étonnantes



Image: A laptop connected to two large 4K monitors, showcasing the stunning 4K display capabilities of the docking station.

macOS System:

- macOS laptops only support SST (Single Stream Transport) mode. All external monitors will mirror the desktop interface (A-AAA or A-BBB mode).
- Highest resolution for single, dual, or triple monitors is 4K@60Hz.

Display Resolution and Mode Table

OS	Monitors	Highest Resolution	Display Modes	Port Type
Windows	Single Display	4K@60Hz Max	A-A / A-B	HDMI/DP
	Dual Display	4K@30Hz Max	A-AB / A-BB / A-AA	HDMI/DP
	Triple Display	1080P@60Hz Max	A-ABC / A-BBB / A-AAA	HDMI/DP
macOS	Single Display	4K@60Hz Max	A-A / A-B	HDMI/DP
	Dual Display	4K@60Hz Max	A-BB / A-AA	HDMI/DP
	Triple Display	4K@60Hz Max	A-BBB / A-AAA	HDMI/DP

6. OPERATING INSTRUCTIONS

6.1 High-Speed Data Transfer

The docking station features multiple high-speed USB ports for efficient data transfer:

- **USB 3.2 Gen 2 Type-A & Type-C:** Up to 10Gbps for rapid file transfers with compatible devices like SSDs.
- **USB 3.0 Type-A & USB 3.2 Gen 1 Type-C:** Up to 5Gbps for general data transfer.
- **USB 2.0 Type-A:** 480Mbps, ideal for connecting keyboards, mice, and other low-bandwidth devices.

Transfert de Fichiers Rapide

10 Gbps

10 Gbps

USB 3.2 Gen 2-C
USB 3.2 Gen 2-A x 2

5 Gbps

USB 3.2 Gen 1-C
USB 3.0-A

480 Mbps

USB 2.0-A x 2



Clé USB



Lecteur
de cartes



Disque dur
Portable



Imprimieur



Clavier



Souris

Note: All data are from Vention Lab.



Image: Visual representation of different USB port speeds (10Gbps, 5Gbps, 480Mbps) and examples of devices that can be connected, such as USB drives, card readers, and printers.

Transfer File **In Seconds**

High-speed data transfer up to 10Gbps

USB-A 3.2 Gen 2*2	10Gbps
USB-C 3.2 Gen 2	10Gbps
USB-C 3.2 Gen 1	5Gbps
USB-A 3.0	5Gbps
USB-A 2.0*2	480Mbps



Image: A laptop connected to the docking station, demonstrating high-speed data transfer with external devices like an SSD, showing files transferring in seconds.

6.2 Power Delivery (PD)

The PD port supports up to 100W power input, allowing the docking station to charge your laptop with up to 85W output. This eliminates the need for a separate laptop charger, simplifying your workspace.

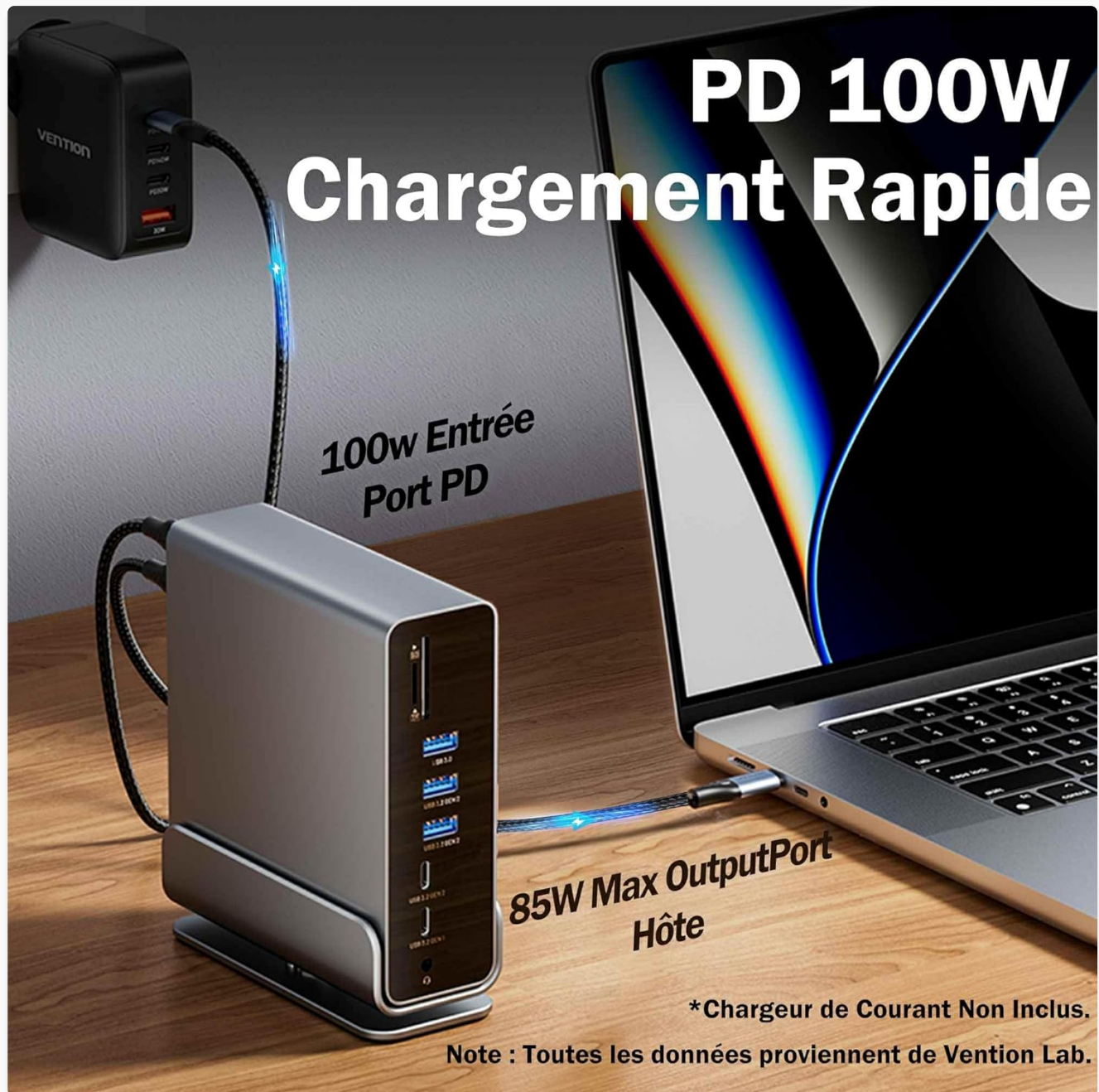


Image: The VENTION docking station connected to a laptop and a power adapter, illustrating its 100W fast charging capability.

6.3 Gigabit Ethernet Connection

The integrated RJ45 Gigabit Ethernet port provides a stable and fast wired network connection, supporting speeds of 10/100/1000Mbps. This is ideal for online gaming, streaming, and large file downloads where Wi-Fi might be unstable.

What You Will Get

Included 1.5ft USB C Cable



Image: A laptop connected to the docking station, which is then connected to an Ethernet cable, demonstrating a fast and stable 1Gbps network connection.

7. MAINTENANCE

- Clean the docking station with a soft, dry cloth. Do not use liquid cleaners or aerosols.
- Keep the ports free of dust and debris. Use compressed air if necessary.
- Store the device in a cool, dry place when not in use.
- The aluminum alloy shell and cutting-edge chip design ensure optimal heat dissipation, preventing overheating during prolonged use.

A docking station with various ports including USB 3.0, USB 2.0, HDMI, DP, and Ethernet. The docking station is connected to a laptop.

Wide Compatibility

(See below for details of compatible device models)

Compatible MacOs

- MacBook 2015-2021
- MacBook Pro 2016-2021
- MacBook Air 2018-2021

Compatible Windows

- Surface Book 2 / Surface Go
- ChromeBook
- Dell
- HP

Image: Features of the docking station including optimal heat dissipation through its aluminum shell, anti-slip pads for stability, and a detachable/rotatable U-shaped stand for vertical or horizontal placement.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No display on external monitor(s).	Laptop USB-C port does not support DisplayPort Alternate Mode; incorrect cable connection; monitor input not selected.	Ensure your laptop's USB-C port is full-featured (supports video output). Check all cable connections. Select the correct input source on your monitor. Restart your laptop.
External monitors are mirroring on macOS.	This is expected behavior for macOS.	macOS only supports SST (Single Stream Transport) for extended displays via this docking station. All external monitors will show the same content.
USB devices not recognized.	Loose connection; insufficient power; driver issue.	Reconnect the USB device. Ensure the docking station is powered (if using PD). Try a different USB port. Update USB drivers on your laptop.
Slow data transfer speeds.	Device connected to a lower speed port; cable quality.	Ensure high-speed devices are connected to 10Gbps or 5Gbps ports. Use high-quality USB cables.
Network connection unstable or not working.	Loose Ethernet cable; network driver issue; router problem.	Check Ethernet cable connection. Restart your router/modem. Update network drivers on your laptop.

9. SPECIFICATIONS

- **Model:** TPUH0
- **Ports:** 2x HDMI 2.0, 1x DisplayPort 1.4, 1x USB-C 10Gbps, 2x USB-A 10Gbps, 1x USB-C 5Gbps, 1x USB-A 5Gbps, 2x USB-A 480Mbps, 1x RJ45 Gigabit Ethernet, 1x 3.5mm Audio, 1x SD Card, 1x TF Card, 1x PD 100W Input, 1x PC Host Output
- **Video Output:**
 - Single Display: Up to 4K@60Hz (HDMI/DP)
 - Dual Display (Windows): Up to 4K@30Hz
 - Triple Display (Windows): Up to 1080P@60Hz
 - Dual/Triple Display (macOS): Up to 4K@60Hz (Mirrored)
- **Data Transfer Speed:** Up to 10Gbps (USB 3.2 Gen 2), 5Gbps (USB 3.0/3.2 Gen 1), 480Mbps (USB 2.0)
- **Power Delivery:** 100W Max Input (85W Max Output to Laptop)
- **Ethernet:** 10/100/1000Mbps Gigabit Ethernet
- **Card Reader:** SD/TF (90MB/s)
- **Material:** Aluminum Alloy Shell
- **Compatibility:** Laptops with full-featured USB-C or Thunderbolt 3/4 ports (Windows, macOS, Linux, Android, iPadOS)

Compatibilité étendue



Dispositifs	Systèmes d'exploitation
 MacBook Pro	 Windows
 MacBook Air	 macOS
 iPad Pro	 Linux
 iPad Air	 Android
 HP	 iPadOS
 Dell	
...	

Remarque : convient aux appareils dotés d'interfaces USB-C ou Thunderbolt 3/4 à fonctionnalités complètes.

Image: A comprehensive compatibility chart showing various compatible devices (MacBook Pro/Air, iPad Pro/Air, HP, Dell) and operating systems (Windows, macOS, Linux, Android, iPadOS).

10. WARRANTY AND SUPPORT

VENTION provides a 12-month warranty for this product. If you encounter any issues or have questions, please contact VENTION customer support through the retailer where you purchased the product or visit the official VENTION website for assistance.

Customer Service Email: [Refer to retailer or official VENTION website]

Website: www.vention.cn

Note: Please retain your purchase receipt for warranty claims.

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Related Documents - TPUH0

	<p>Vention 6-in-1 USB-C Wireless Charging Docking Station User Manual</p> <p>User manual for the Vention 6-in-1 USB-C Wireless Charging Docking Station (Model: VWS-H84), detailing its features, specifications, connection diagram, and FCC statement.</p>
	<p>Vention Prodlužovač síťového kabelu HDMI Uživatelská příručka VWS-A97</p> <p>Uživatelská příručka pro prodlužovač síťového kabelu HDMI Vention (VWS-A97), popisující produkt, parametry, rozhraní, instalaci a aplikaci. Podporuje rozlišení 1080P 60Hz a prodloužení až na 60m přes kabely CAT5E/CAT6.</p>
	<p>Vention Wireless HDMI Transmitter and Receiver User Manual VWS-H96</p> <p>Comprehensive user manual for the Vention VWS-H96 Wireless HDMI Transmitter and Receiver. Includes specifications, setup instructions, pairing guide, FAQs, and FCC compliance details for seamless screen mirroring.</p>
	<p>Vention VWS-102 Wireless HDMI Video Transmitter and Receiver User Manual</p> <p>User manual for the Vention VWS-102 Wireless HDMI Video Transmitter and Receiver, detailing specifications, product overview, what's in the box, screen mirroring functions, pairing instructions, FCC compliance statement, and manufacturer information.</p>
	<p>Vention Wireless HDMI Transmitter and Receiver User Manual</p> <p>User manual for the Vention Wireless HDMI Transmitter and Receiver (Model: ADC), detailing hardware installation, pairing instructions, FAQs, and FCC compliance information. Supports 1080p@60Hz resolution and a 40m effective range.</p>
	<p>Vention Enterprise-Grade Wireless HDMI Transmitter and Receiver User Manual</p> <p>User manual for the Vention Enterprise-Grade Wireless HDMI Transmitter and Receiver (Model: VWS-H71). Includes specifications, connection diagrams, pairing instructions, software casting, troubleshooting, and FCC compliance information.</p>