

WAVLINK

see the world

USB4 MST 8K Universal Docking Station

Model: WL-UMD4406

@WavlinkOfficial

@WavlinkTechSupport

Table of contents:

- About This Guide
 - Conventions
 - More Info
 - Performance Disclaimer
 - Safety Instructions
 - Copyright Statement
 - WEEE Directive & Product Disposal
- Chapter 1 Overview
 - Overview
 - In The Box
 - System Requirements
 - Features
- Chapter 2 How to Use
 - How to Use
- Chapter 3 Display Resolution
- Chapter 4 Display Mode Settings
 - For Windows
 - For Mac OS X12 or Below
 - For Mac OS X13
- Chapter 5 FAQ & After-sale Service
 - FAQ
 - Q1. Why can't the USB4 docking station work properly after I connect the docking station to my laptop?
 - Q2. Why can't the video downstream ports of this docking station reach 8K resolution when the USB4 docking station works with my computer?
 - Q3. Why does my docking station get hot when I use it?
 - Q4. Why can't my computer display three screens when connected to the docking station?
 - Q5. Why could I only get about 800MBps via 20Gbps type-C port?
 - After-sale Service

About This Guide

This guide serves as a companion to the Quick Installation Guide for your wired USB product. The Quick Installation Guide provides essential steps for immediate setup, while this document offers detailed explanations of product features and advanced configuration options.

Please note that product functionality may vary slightly depending on your specific model, software version, geographic region, language, and connected devices. Screenshots, parameters, and descriptions in this guide are for illustrative purposes only.

Conventions

In this guide the following conventions are used :

Convention	Description
<u>Underlined</u>	Underlined words or phrases are hyperlinks. You can click to redirect to a website or a specific section.
Teal	The content and text that needs to be emphasized on the web page is the theme color #1D428A , including menus, items, buttons, etc.
Note:	Critical reminders to prevent operational errors or functionality issues.
Tips:	Best practices or optimization suggestions for enhanced performance.

More Info

The latest driver, firmware and utilities are available from the Download Center at [WAVLINK SUPPORT](#) .

Included in your product packaging or available digitally via the link above.

If you encounter any issues, please don't hesitate to email contact@wavlink.com / techsupport@wavlink.com / postsales@wavlink.com to provide feedbacks or contact online customer service, thank you!

Performance Disclaimer

The maximum transfer speeds stated for this product are based on theoretical limits of USB specifications (e.g., USB 2.0/3.0/3.1 Gen 1/Gen 2). Actual performance may vary due to:

Device limitations: Host system performance, driver compatibility, and connected device capabilities.

Environmental factors: USB cable quality, length, electromagnetic interference, and port power delivery.

Network/software conditions: Operating system overhead, background processes, and concurrent data transfers.

Wired connections are generally more stable than wireless alternatives, but performance is not guaranteed and depends on the factors listed above.

Information in this document is subject to change without notice. The manufacturer does not make any representations or warranties (implied or otherwise) regarding the accuracy and completeness of this document and shall in no event be liable for any loss of profit or any commercial damage, including but not limited to special, incidental, consequential, or other damage.

Safety Instructions

Always read the safety instructions carefully.

Keep this Quick Start Guide for future reference.

Keep this equipment away from humidity.

If any of the following situation arises, get the equipment checked by a service technician:

- The equipment has been exposed to moisture.
- The equipment has been dropped and damaged.
- The equipment has an obvious sign of breakage.
- The equipment has not been working well or you cannot get it work according to Quick Start Guide.

Copyright Statement

No part of this publication may be reproduced in any form by any means without the prior written permission.

Other trademarks or brand names mentioned herein are trademarks or registered trademarks of their respective companies.

WEEE Directive & Product Disposal

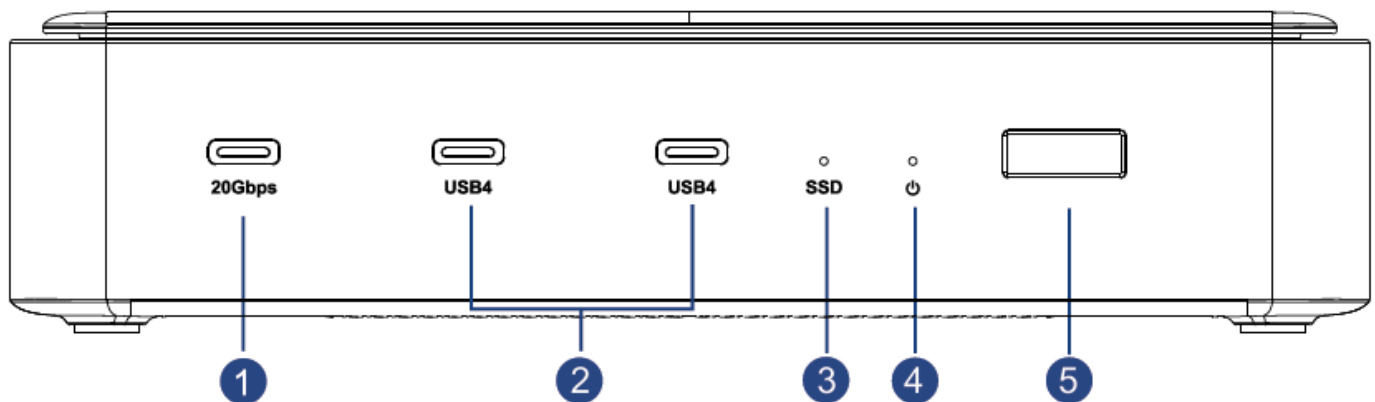
At the end of its serviceable life, this product should not be treated as household or general waste. It should be handed over to the applicable collection point for the recycling of electrical and electronic equipment, or returned to the supplier for disposal.



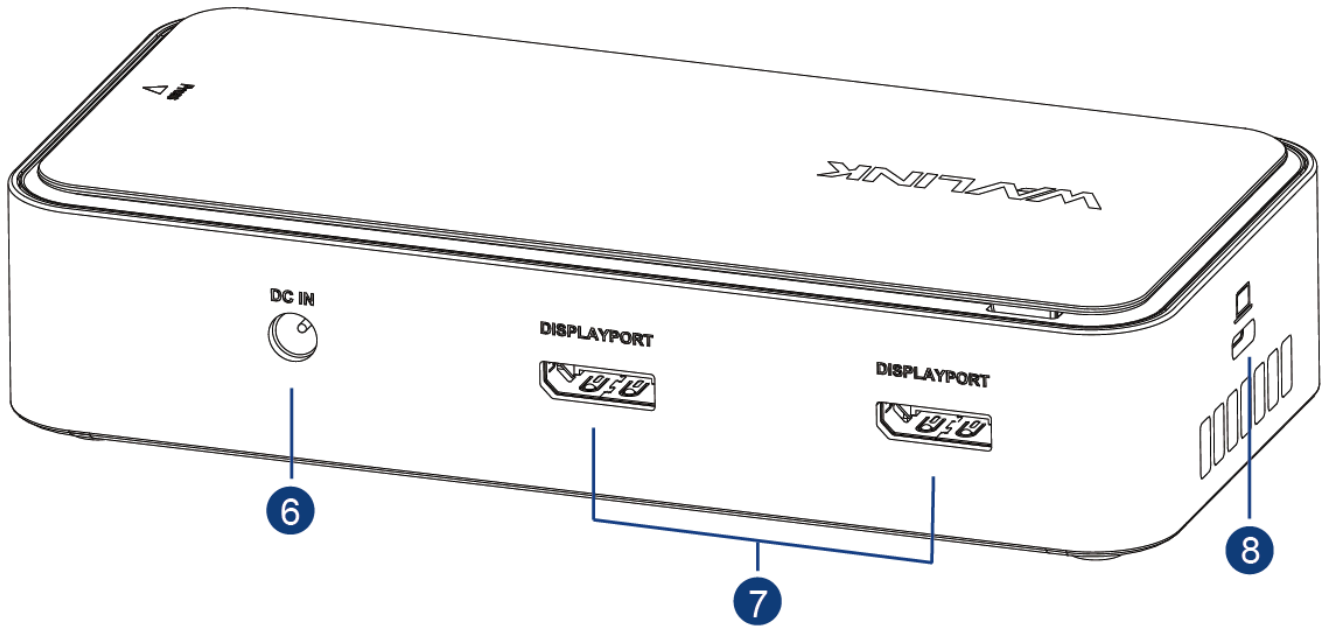
Chapter 1 Overview

- [Overview](#)
- [In The Box](#)
- [System Requirements](#)
- [Features](#)

Overview



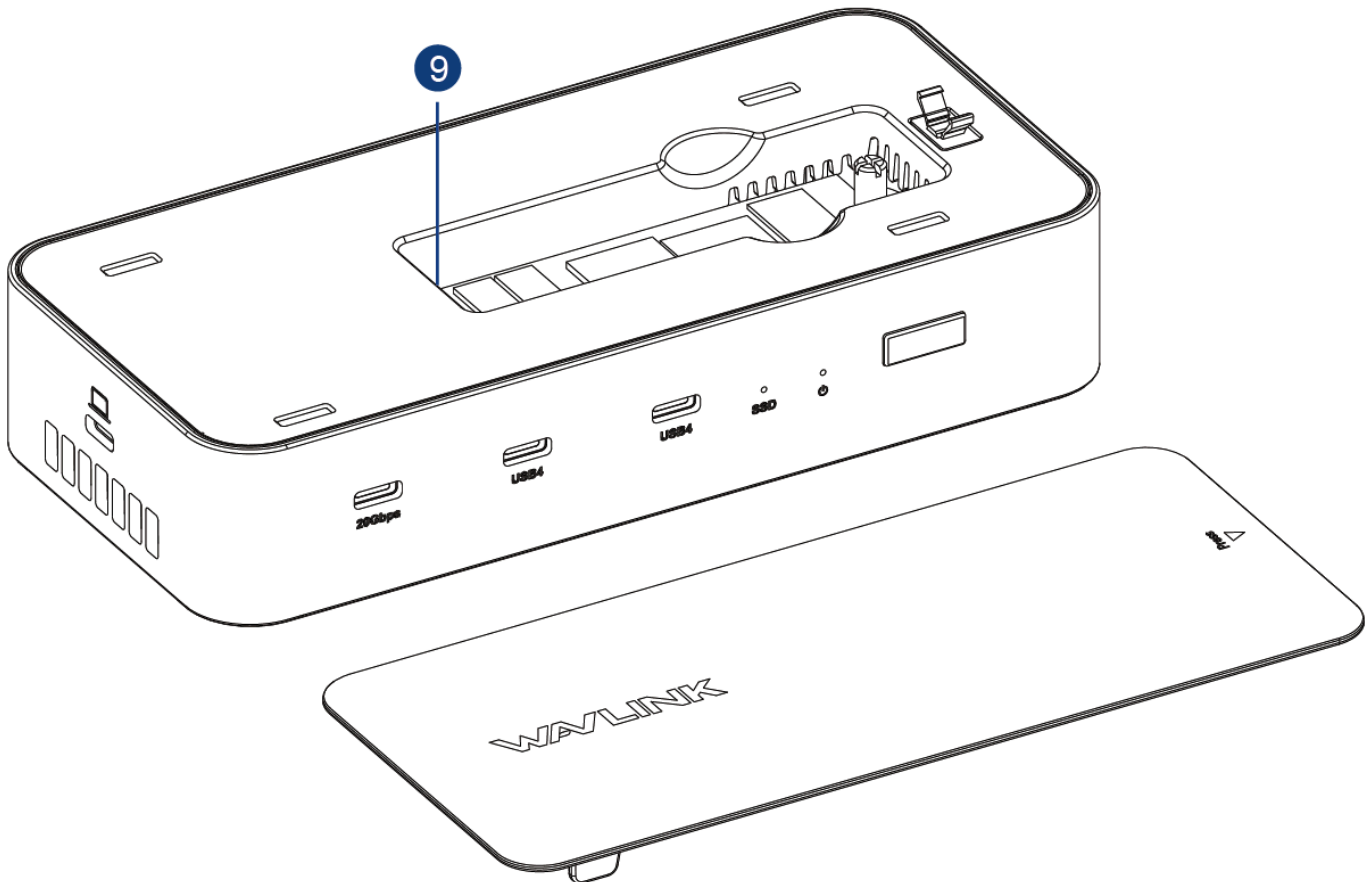
- ① : USB-C (20Gbps)
- ② : USB4 (40Gbps)
- ③ : SSD Indicator (Solid blue when powering; flashing when reading and writing)
- ④ : Power Indicator (Solid blue when powering)
- ⑤ : Power Button (Short press to turn on/off)



⑥ : DC IN (130W)

⑦ : DP

⑧ : USB-C Upstream Port (Host, PD 100W)



⑨ : M.2 SSD Slot (20Gbps)

In The Box

1×USB4 MST 8K Universal Docking Station

1×DC 20V Power Adapter

1×USB4 80Gbps USB C to C Cable (100CM)

1×Screwdriver

1×Quick Start Guide

System Requirements

- Microsoft Windows 7 / 8 / 10 / 11
- Apple Mac OS 10.15 or later(Can extend 2 different displays)

Features

- Compatible with USB4, TBT3, USB3.2 Gen2*2, and DP2.1 Alt mode.
- 2 × DP support DP2.1, max. resolution 7680×4320@60Hz.
- 2 × USB4 supports 40Gbps data transmission, and DP2.1, max. resolution 7680×4320@60Hz.
- Supports triple display, max. resolution 4K@120Hz*3.
- Supports up to 2 different external monitors when a Mac connects the product.
- 1 × USB3.2 Gen2*2 supports 20Gbps data transmission.
- 1 × M.2 interface connects an external SSD for 20Gbps data transmission.
- 1 × USB-C upstream port provides 100W charging for the host.

Chapter 2 How to Use

How to Use

Step 1: Connect the Power

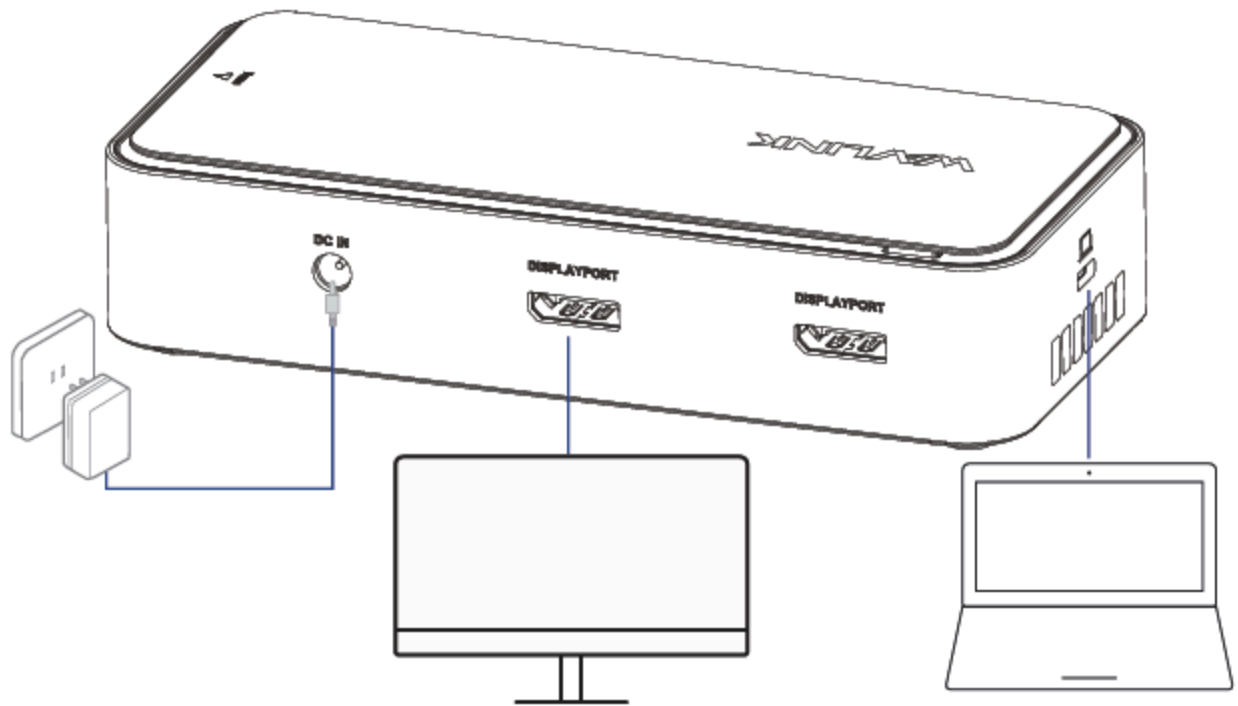
Connect one end of a power adapter to the DC IN, then plug the other end of it into the power outlet.

Step 2: Connect the Host

Connect one end of the USB-C cable to the USB-C Upstream port of the docking station, then connect the other end to the USB-C on the computer.

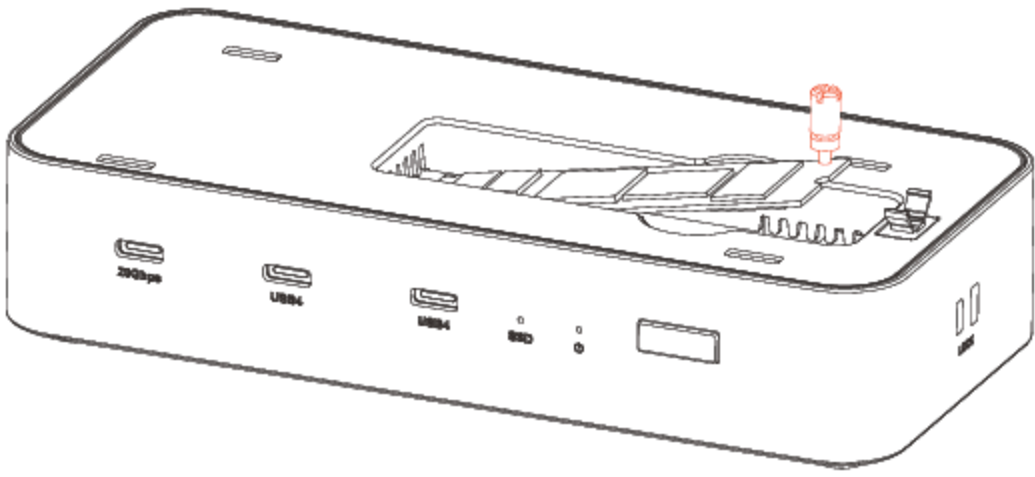
Step 3: Connect the Monitors

This docking station supports up to 3 external monitors. Please select any one or two from 2*DP and 2*USB4 ports to extend or mirror the screen. Triple monitors can only be displayed from 2*DP and 1*USB4 ports.



Step 4: Connect an SSD

Connect the M.2 port to an SSD, providing 20Gbps data transmission.



Chapter 3 Display Resolution

This chapter introduces display resolution of the product.

Single Display

System	Connected with DP2.1 & DSC (USB 4/ thunderbolt 4/5 host)	Connected with DP1.4 & DSC (USB 4/ thunderbolt 4/5 host)	Connected with DP1.4 & DSC (USB-C host)
Windows	Extend: DP:7680×4320@60Hz USB4:7680×4320@60Hz	Extend: DP:3840×2160@144Hz USB4:3840×2160@144Hz	Extend: DP:3840×2160@144Hz USB4:3840×2160@144Hz
Mac	Extend: DP:7680×4320@60Hz USB4:7680×4320@60Hz	Extend: DP:3840×2160@120Hz USB4:3840×2160@120Hz	Extend: DP:3840×2160@120Hz USB4:3840×2160@120Hz

Dual Display

System	Connected with DP2.1 & DSC (USB 4/ thunderbolt 4/5 host)	Connected with DP1.4 & DSC (USB 4/ thunderbolt 4/5 host)	Connected with DP1.4 & DSC (USB-C host)
Windows	Extend: DP+DP: 3840×2160@160Hz 3840×2160@160Hz DP+USB4: 3840×2160@160Hz 3840×2160@160Hz USB4+USB4: 3840×2160@160Hz 3840×2160@160Hz	Extend: DP+DP: 3840×2160@120Hz 3840×2160@60Hz DP+USB4: 3840×2160@120Hz 3840×2160@60Hz USB4+USB4: 3840×2160@120Hz 3840×2160@60Hz	Extend: DP+DP: 3840×2160@60Hz 3840×2160@60Hz
Mac	Mirror or Extend: DP+DP: (Mirror) 3840×2160@120Hz 3840×2160@120Hz DP+USB4: (Extend) 3840×2160@120Hz 3840×2160@120Hz USB4+USB4: (Extend) 3840×2160@120Hz 3840×2160@120Hz	Mirror or Extend: DP+DP: (Mirror) 3840×2160@120Hz 3840×2160@120Hz DP+USB4: (Extend) 3840×2160@120Hz 3840×2160@60Hz USB4+USB4: (Extend) 3840×2160@120Hz 3840×2160@60Hz	Mirror: DP+DP: 3840×2160@120Hz 3840×2160@120Hz

Triple Display

System	Connected with DP2.1 & DSC (USB 4/ thunderbolt 4/5 host)	Connected with DP1.4 & DSC (USB 4/ thunderbolt 4/5 host)	Connected with DP1.4 & DSC (USB-C host)
Windows	Extend: DP+DP+USB4: 3840×2160@120Hz 3840×2160@120Hz 3840×2160@120Hz	Extend: DP+DP+USB4: 3840×2160@60Hz 3840×2160@60Hz 2560×1440@60Hz	Not supported
Mac	Mirror+Extend: DP+DP+USB4: (BBC) 3840×2160@120Hz 3840×2160@120Hz 3840×2160@120Hz	Mirror+Extend: DP+DP+USB4: (BBC) 3840×2160@120Hz 3840×2160@60Hz 3840×2160@60Hz	Not supported

 NOTE

When connecting to a computer interface that supports only DP Alt Mode, the device supports dual different display via DP ports or single display via USB4 port. When connecting to the DP1.2 computer, the display resolution may be limited.

Extend means external monitors will show different content. Mirror means monitors will show the same content.

BBC means two monitors will show the same content and another monitor will show different content.

Chapter 4 Display Mode Settings

This chapter introduces the steps of display mode settings.

- [For Windows](#)
- [For Mac OS X12 or Below](#)
- [For Mac OS X13](#)

Before configuring the settings, please make sure this docking station has been connected to your laptop and monitors correctly.

For Windows

1. Right-click→ **Display settings**.

View



Sort by



Refresh

Paste

Paste shortcut

Undo Copy

Ctrl+Z

New

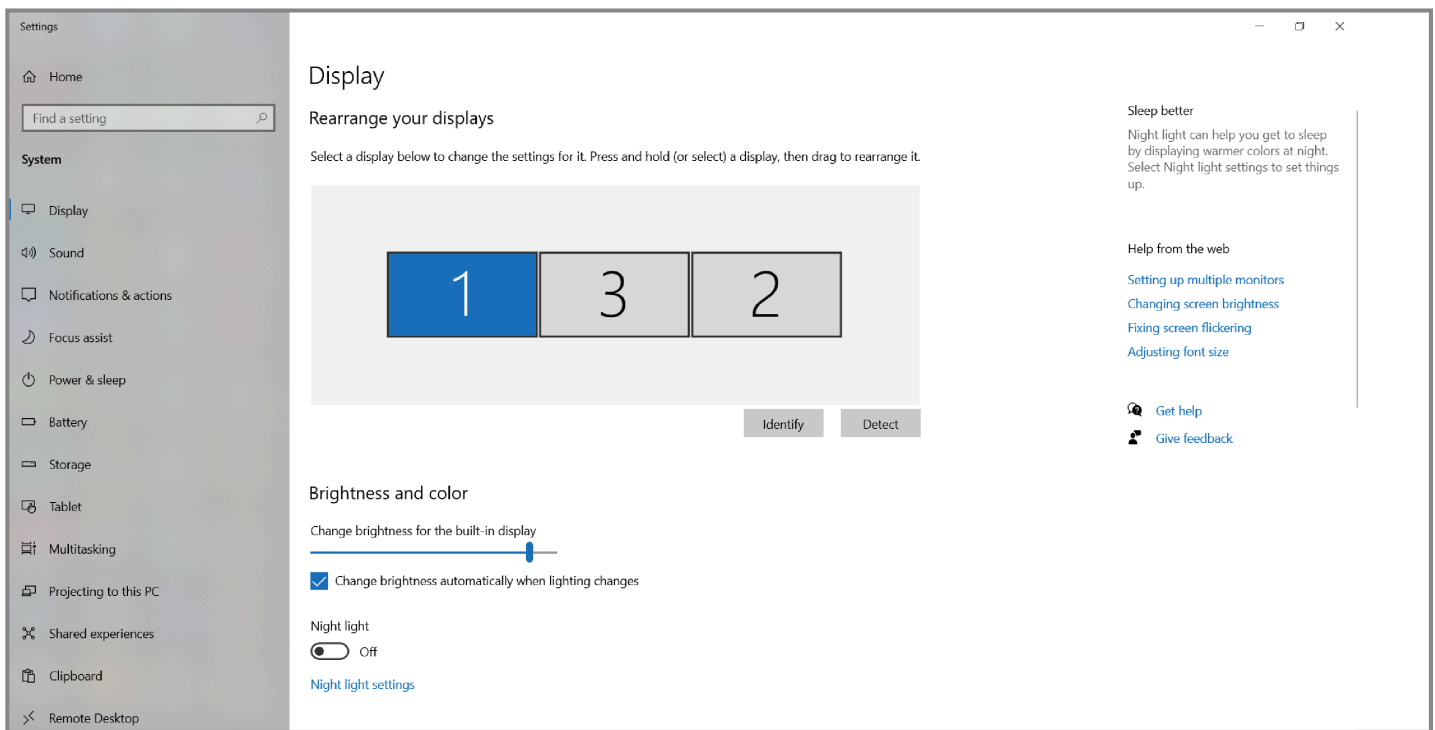


Display settings



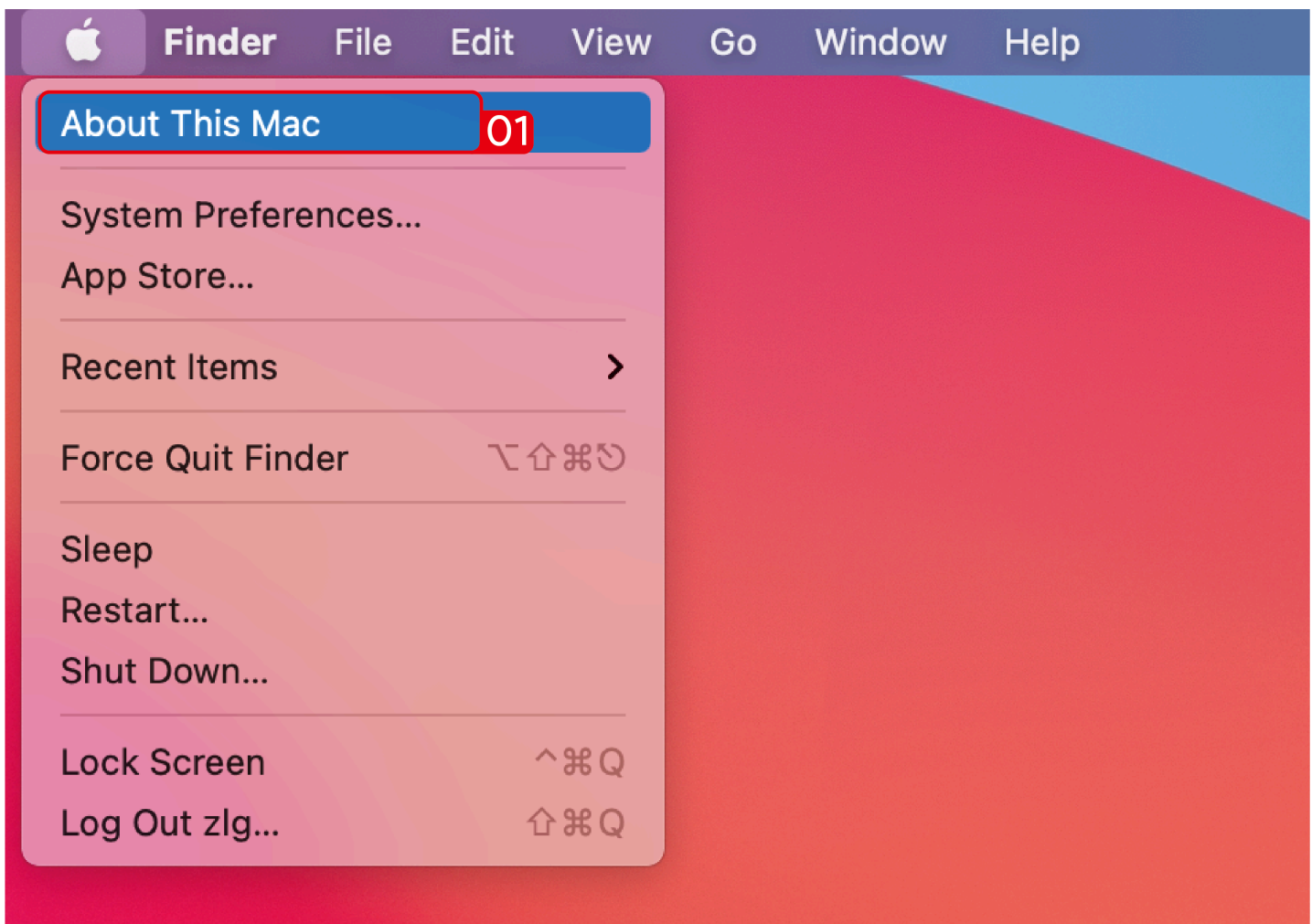
Personalize

2. In **Display**, you can enjoy different operations of duplicating, extending and rotating on your monitors.

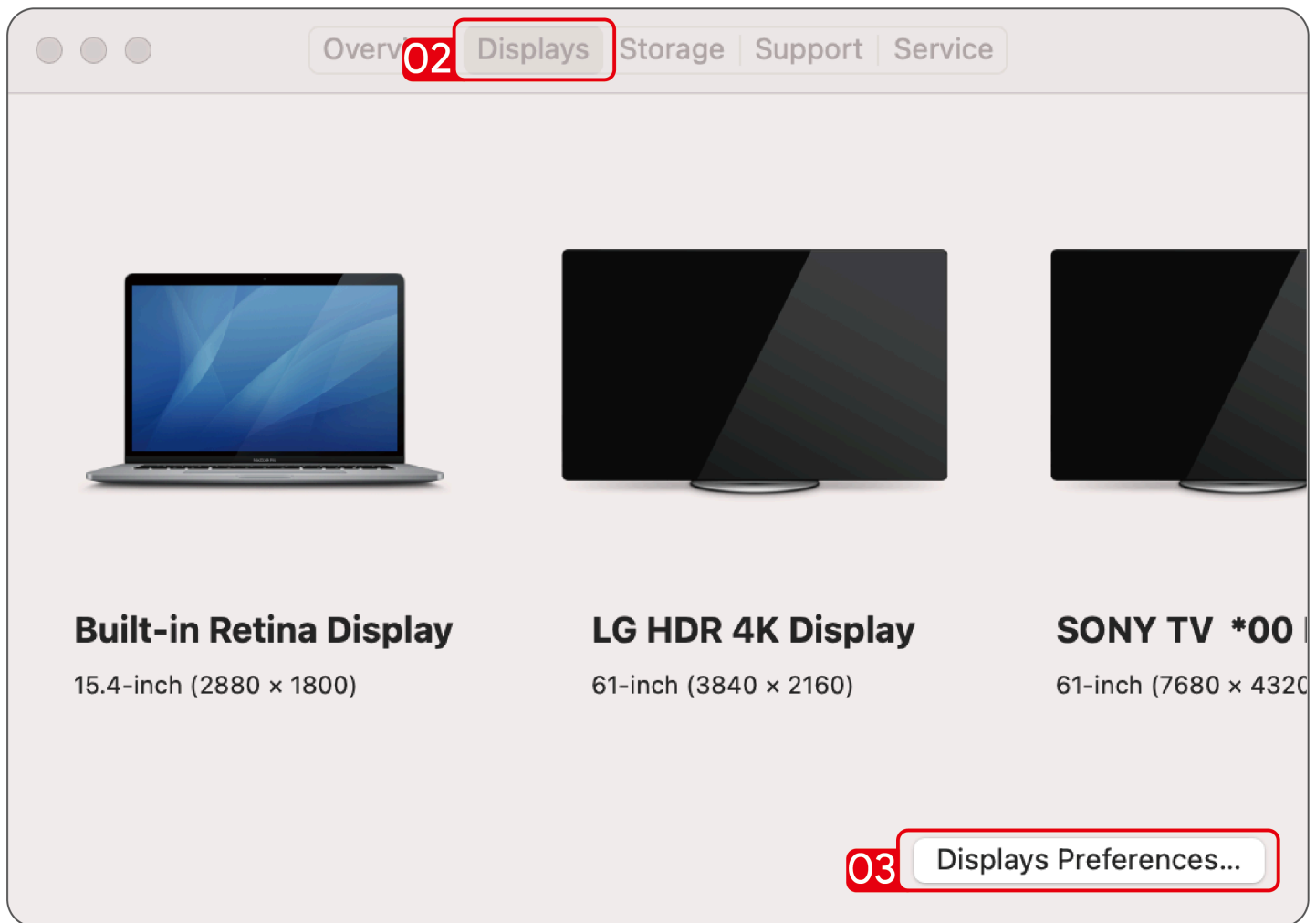


For Mac OS X12 or Below

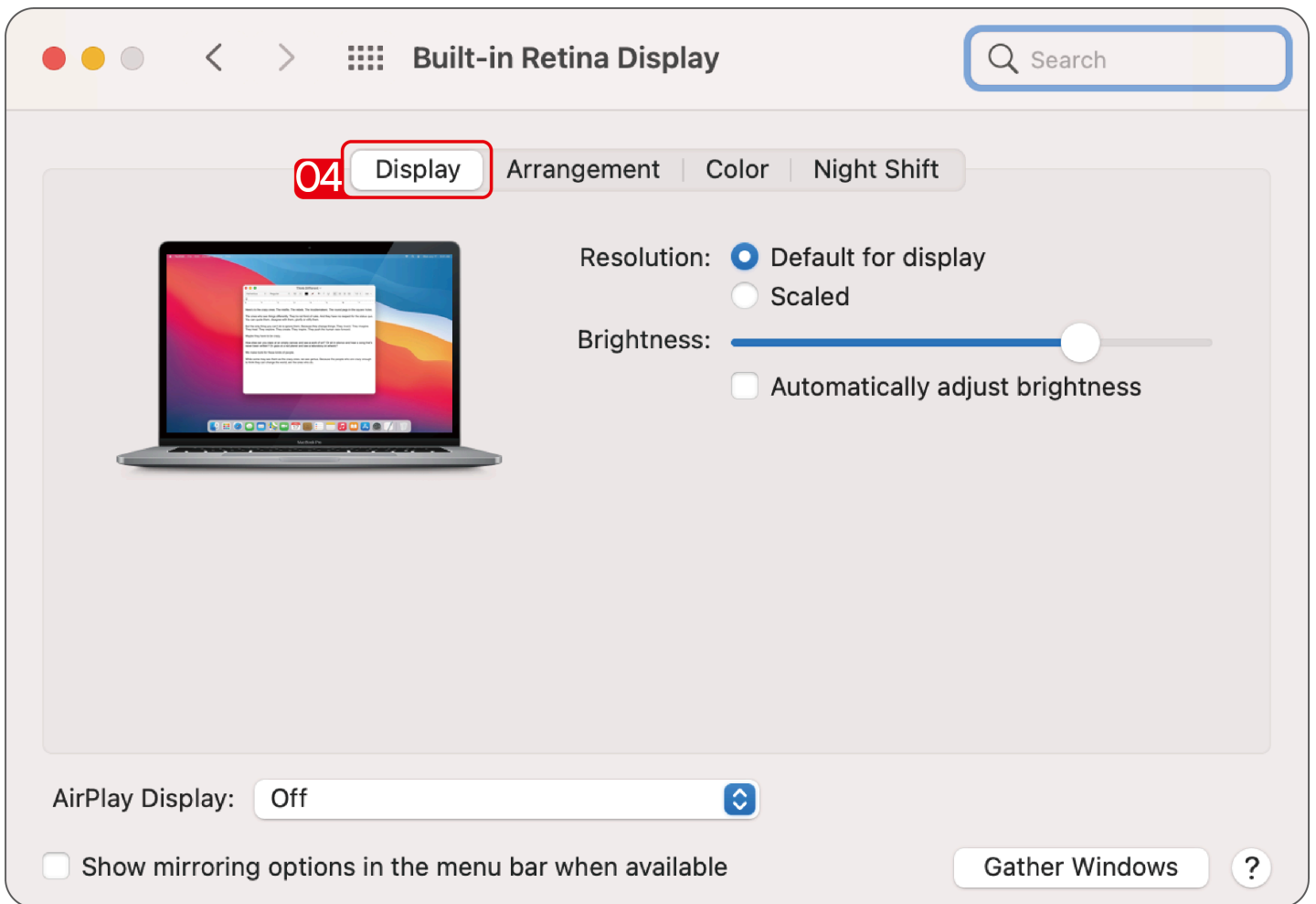
1. Click **Apple** icon→ **About This Mac**.



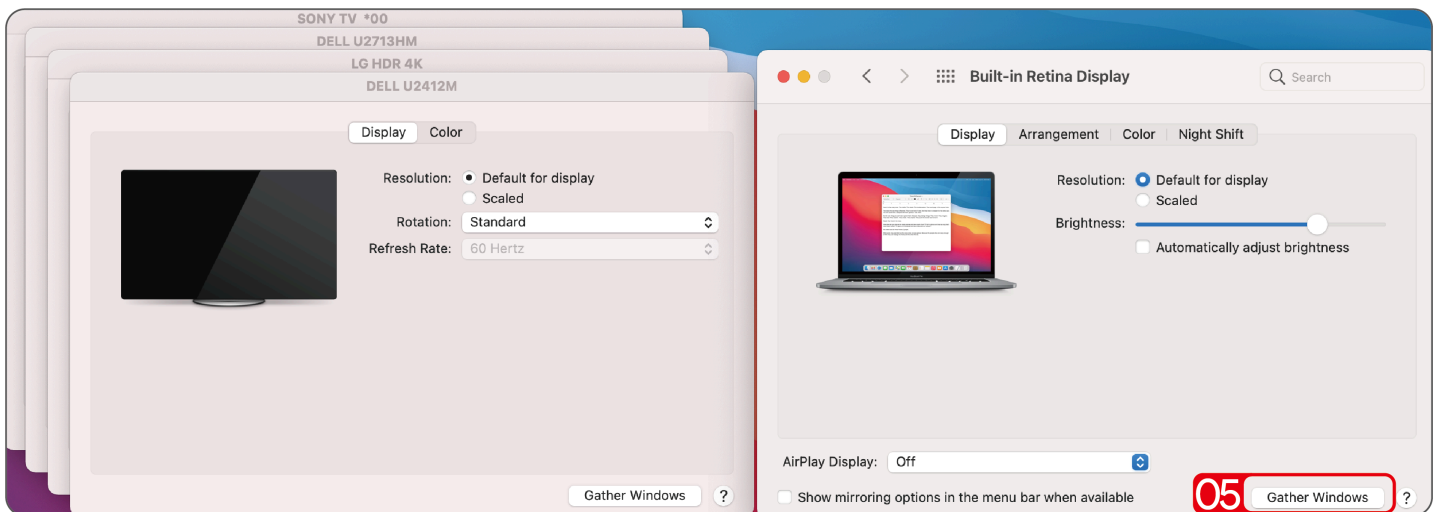
2. Click **Displays** → **Displays Preferences**.



3. Select **Display** from the list, then you can enjoy different operations of mirroring, expanding and rotating on your monitors.

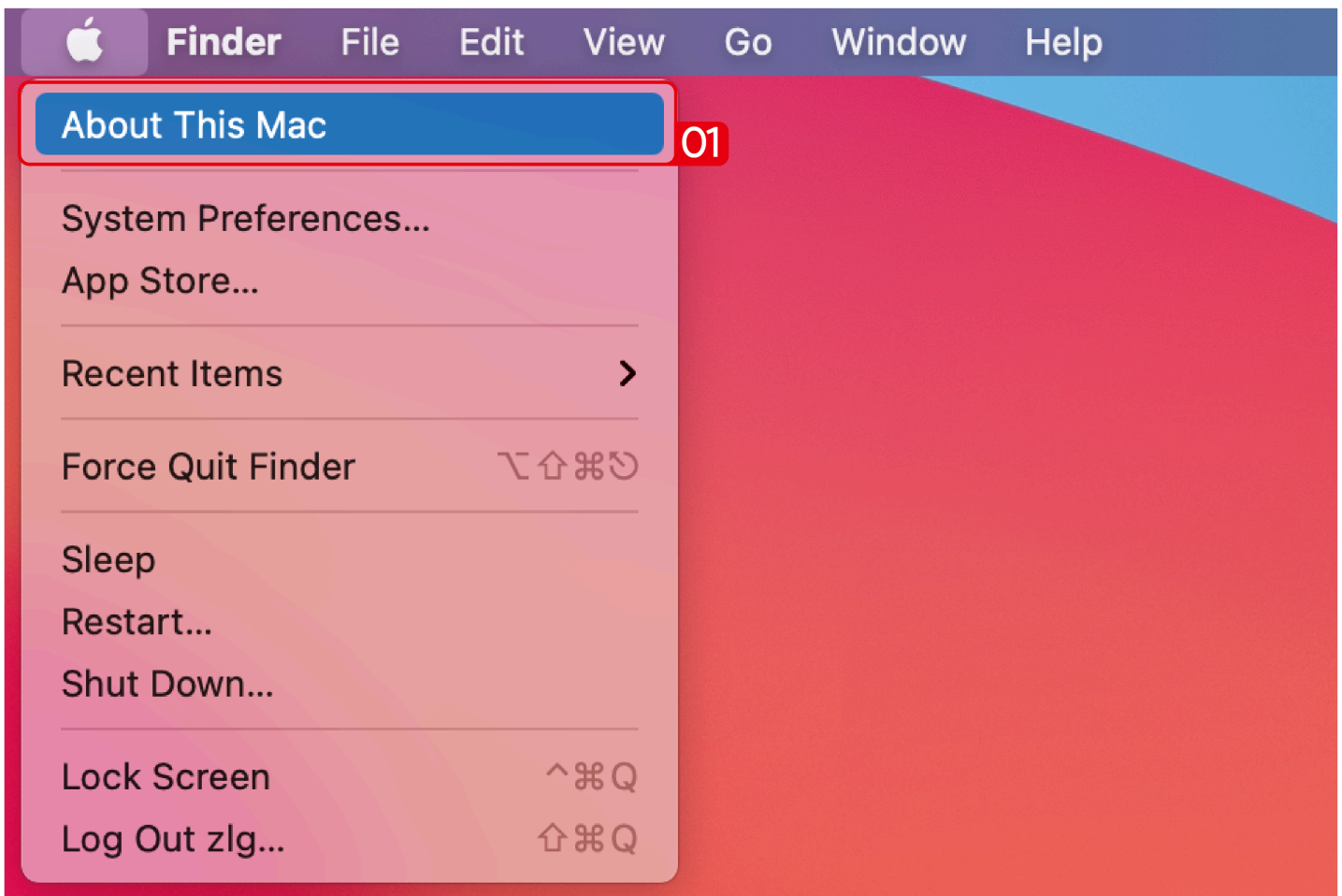


4. Or click **Gather Windows** to gather all connected displays and make separate settings.



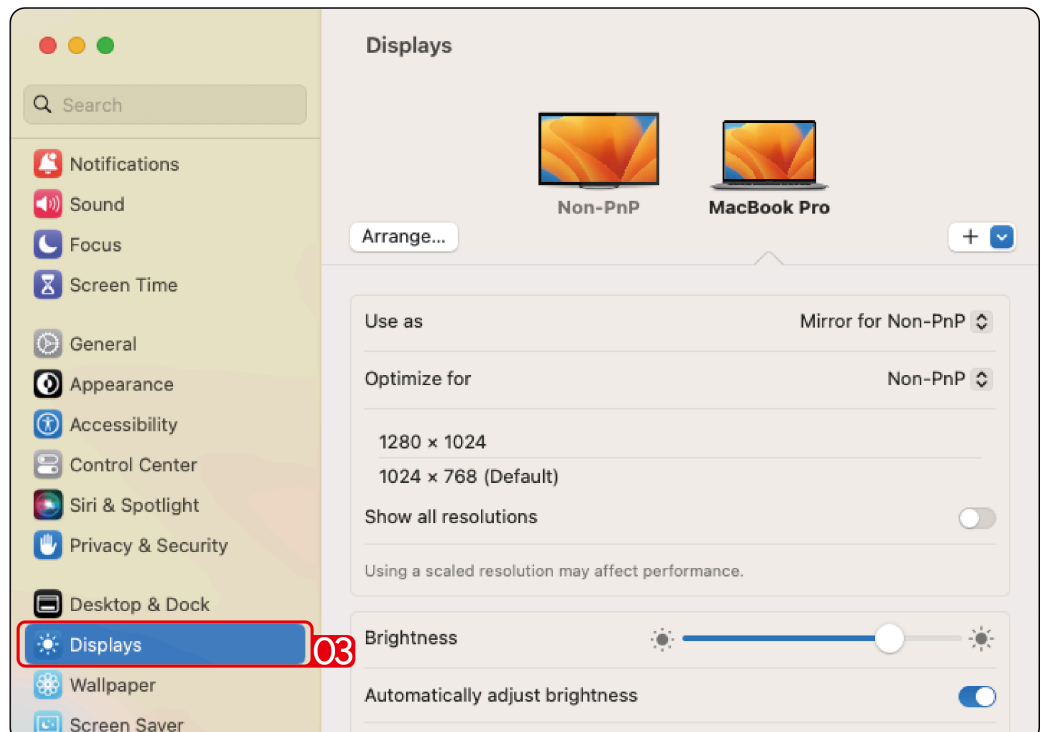
For Mac OS X13

1. Click **Apple** icon → **About This Mac**.



2. Click **More Info...**

3. Select **Displays** from the list, then you can enjoy different operations of mirroring, expanding and rotating on your monitors.



Chapter 5 FAQ & After-sale Service

This chapter includes FAQ and After-sale Service.

- [FAQ](#)
- [After-sale Service](#)

FAQ

Q1. Why can't the USB4 docking station work properly after I connect the docking station to my laptop?

- A1. Please ensure that your computer's drivers (e.g., BIOS, graphics card driver) have been updated to the latest version. Updating drivers is crucial for proper functionality and compatibility of the device, as outdated drivers may result in compatibility issues.

Q2. Why can't the video downstream ports of this docking station reach 8K resolution when the USB4 docking station works with my computer?

- A2. This USB4 dock can reach up to 8K resolution, but the resolution and refresh rate of the docking station's video downstream ports depend on your computer's graphics card capability.

Q3. Why does my docking station get hot when I use it?

- A3. This is a normal situation when the docking station is working. We suggest that you put the docking station in a relatively open area for better heat dissipation.

Q4. Why can't my computer display three screens when connected to the docking station?

- A4. Please ensure that your computer supports USB4 or Thunderbolt4/5 technology.

Q5. Why could I only get about 800MBps via 20Gbps type-C port?

- A5. Please make sure that type-c port of your laptop supports USB3.2 Gen2×2, because not all type-c ports support it.

After-sale Service

Need help?

We're here for you!



Online support: wavlink.com

Available Mon-Fri 8:30 am-5:30pm (UTC+8)



support@wavlink.com

Available Mon-Fri 8:30 am-5:30pm (UTC+8)



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Mon-Fri 9:00 am - 6:00 pm (UTC-5)

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