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WAVLINK WL-UMD01

WAVLINK WL-UMD01 USB C Docking Station User Manual

Model: WL-UMD01

1. Introduction

Thank you for choosing the WAVLINK WL-UMD01 USB C Docking Station. This 13-in-1 triple display Type C adapter is designed to expand the connectivity of your USB-C enabled laptop, providing multiple display outputs, high-speed data transfer, network access, and power delivery. This manual provides detailed instructions for setup, operation, maintenance, and troubleshooting to ensure optimal performance.

2. Package Contents

Please verify that all items are present in your package:

- WAVLINK WL-UMD01 USB C Docking Station
- Power Adapter
- USB-C to USB-C Cable
- Quick Start Guide



Image: Contents of the WAVLINK WL-UMD01 package, including the docking station, power adapter, USB-C cable, and quick start guide.

3. Product Overview

The WAVLINK WL-UMD01 docking station features a comprehensive array of ports to enhance your workstation. Familiarize yourself with the port layout:

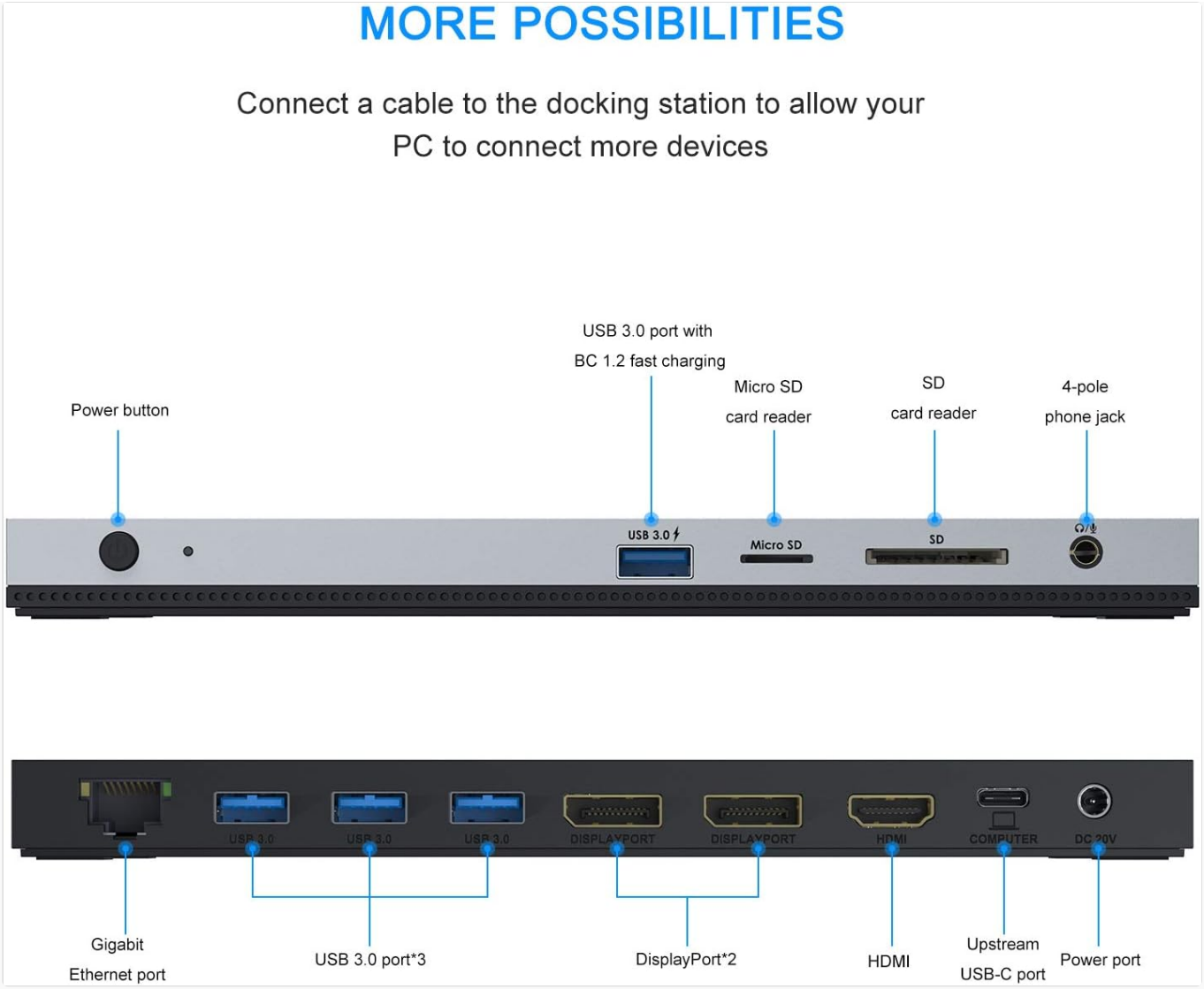

Image: Diagram illustrating the front and rear ports of the WAVLINK WL-UMD01 docking station.

Front Panel Ports:

- **Power Button:** To power on/off the docking station.
- **USB 3.0 Port (with BC 1.2 fast charging):**Connect USB devices; supports data transfer up to 5Gbps and fast charging for compatible devices.
- **Micro SD Card Reader:** For Micro SD memory cards, supporting up to 2TB.
- **SD Card Reader:** For standard SD memory cards, supporting up to 2TB. Both SD and Micro SD slots support simultaneous reading.
- **4-Pole Phone Jack (3.5mm Audio):** Connect headphones or speakers.

Rear Panel Ports:

- **Gigabit Ethernet Port (RJ45):** Provides a stable and fast wired network connection (1000Mbps).
- **USB 3.0 Ports (x3):** Connect additional USB devices; supports data transfer up to 5Gbps.
- **DisplayPort (x2):** Connect external monitors via DisplayPort cables.
- **HDMI Port:** Connect an external monitor via an HDMI cable.
- **Upstream USB-C Port (Computer):** Connects the docking station to your host laptop.
- **DC 20V Power Input:** Connect the included power adapter to supply power to the docking station and your laptop (via Power Delivery).



Image: Top and bottom perspective views of the WAVLINK WL-UMD01 docking station, highlighting its sleek design and port placement.

4. Setup Instructions

Follow these steps to set up your WAVLINK WL-UMD01 docking station:

1. **Connect Power:** Plug the included power adapter into the DC 20V power input port on the rear of the docking station, then connect the adapter to a power outlet.
2. **Connect to Host Laptop:** Use the provided USB-C to USB-C cable to connect the "COMPUTER" port on the docking station to a USB-C port on your laptop. Ensure your laptop's USB-C port supports DisplayPort Alternate Mode and USB Power Delivery for full functionality.
3. **Connect External Monitors:** Connect your external monitors to the HDMI and/or DisplayPort outputs on the docking station using appropriate cables.
4. **Connect Peripherals:** Connect your USB devices (keyboard, mouse, external drives), Ethernet cable, SD/Micro SD cards, and audio devices to the corresponding ports on the docking station.
5. **Power On:** Press the power button on the front of the docking station. Your laptop should detect the connected devices automatically.



Image: The WAVLINK WL-UMD01 docking station with various cables connected, illustrating a typical setup with a laptop, external monitor, and USB devices.

5. Operating Instructions

5.1 Triple Display Functionality

The docking station supports connecting up to three external monitors. The display behavior varies depending on your operating system:

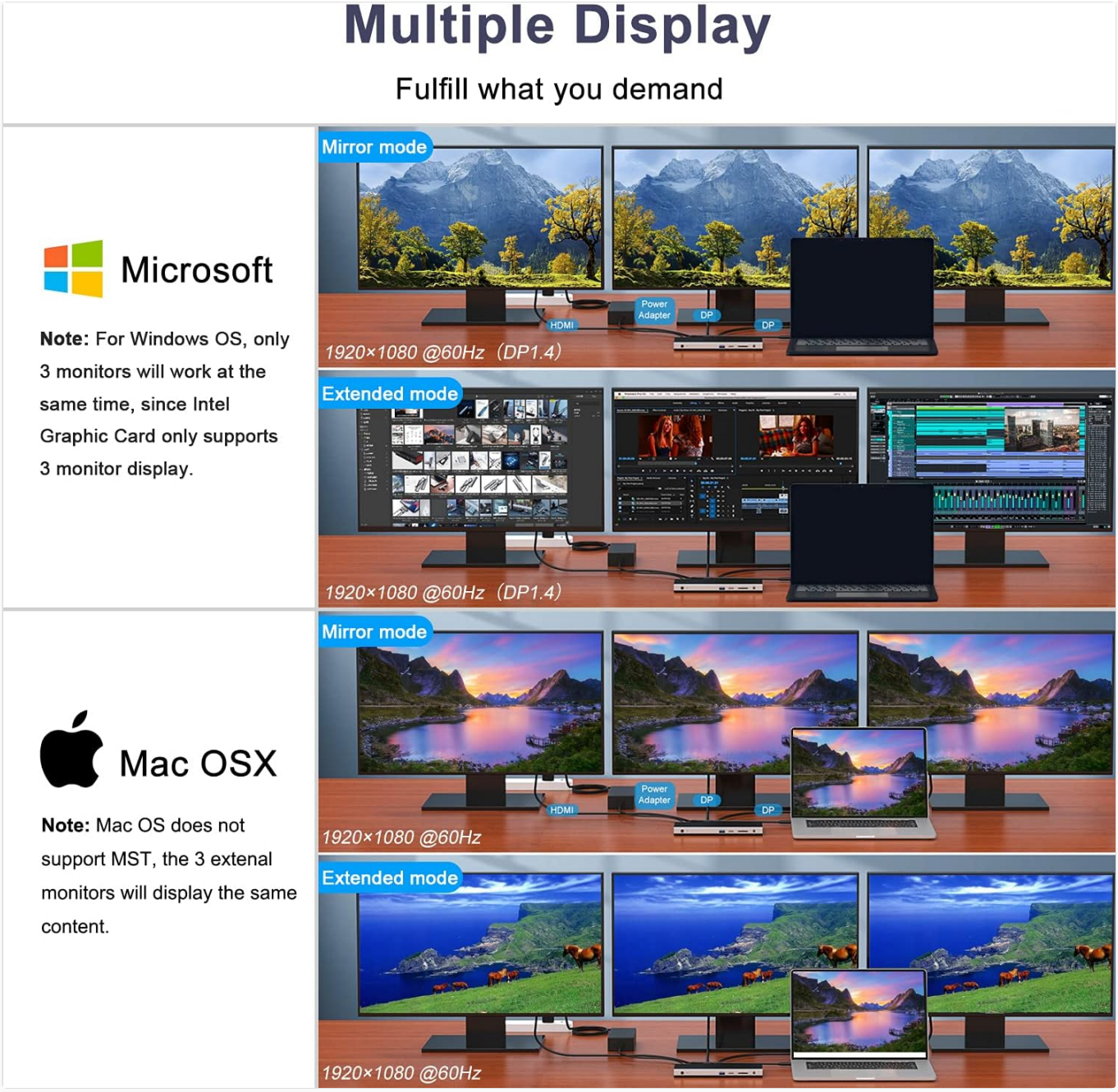

Image: Visual representation of mirror and extended display modes for Windows and Mac OS using the WAVLINK WL-UMD01 docking station.

- **For Windows OS:** The docking station supports Multi-Stream Transport (MST), allowing for extended desktop across multiple external displays. However, due to Intel Graphic Card limitations, only 3 monitors (including the laptop screen) will work simultaneously.
  - Single HDMI/DP display: Up to 3840x2160@60Hz (4K@60Hz) under DP1.3 source.
  - Dual display: Up to 2560x1440@60Hz.
  - Triple display: Up to 1920x1080@60Hz.
- **For Mac OS:** Mac OS does not support MST. Therefore, all connected external monitors will display the same content (mirror mode).



Image: A workstation setup demonstrating the WAVLINK WL-UMD01 docking station connected to a laptop and three external monitors, showcasing its triple display capability.

5.2 Data Transfer

The docking station provides multiple high-speed data transfer options:

- **USB 3.0 Ports:** Four USB 3.0 ports (one on the front with BC 1.2 charging, three on the rear) offer data transfer speeds up to 5Gbps, which is up to 10 times faster than USB 2.0.
- **SD/Micro SD Card Readers:** Access files from universal SD and Micro SD memory cards up to 2TB. Both card slots can be used simultaneously.



Image: The WAVLINK WL-UMD01 docking station with USB flash drives and SD cards connected, illustrating its high-speed data transfer capabilities for USB 3.0 and card readers.

5.3 Network Connectivity

The Gigabit Ethernet port ensures a stable and faster wired network connection compared to Wi-Fi, supporting speeds up to 1000Mbps.

5.4 Power Delivery

The USB-C upstream port supports Power Delivery (PD) with 4 profiles, providing up to 65 Watts of upstream charging to your compatible laptop. This allows you to charge your laptop while using the docking station with a single USB-C connection.

6. Compatibility

This docking station is compatible with a wide range of USB-C enabled laptops. For full functionality, your host laptop's USB-C interface must support DisplayPort Alternate Mode (Alt Mode) and USB Power Delivery (PD) Protocol.

Compatible Devices Include (but are not limited to):

- **Apple:** MacBook, MacBook Pro (2016-2020), iMac/iMac Pro (21.5 inch, 27 inch)
- **Dell:** XPS 9380/9365/9300/15 2018, Latitude 7280/5310 2-in-1, Precision 7730/7750, Laptop 5590
- **HP:** Spectre Laptop 13-af001TU/x360 13t/folio, Elitebook 840 G5 series/X2/x360 1030 G3/745 G6/830 G6, Envy Geforce mx250/x360 Laptop, Z book 15u G3/17 G4
- **Lenovo:** Yoga 720-13IKB/730/900-13ISK/910/920/930/940-14IIL, 3rd generation Thinkpad Yoga, Yoga15 Thinkpad Ultrabook Pro, Thinkpad E590/P72/T470/X1 Carbon (2019 model), Flex 14 IML/5, Legion Y530, C930/T480s/X390/81N8
- **Microsoft:** Surface Book 2, Surface Go, Surface Laptop 3, Surface Pro 7
- **Huawei:** MateBook, MateBook Pro, Mate10/Mate10 pro/Mate20/Mate20 pro/Mate30/Mate30Pro
- **Google:** Chromebook Pixel, Slate (2019), Pixel book go 2019/2020
- **Other:** SanDisk Cruise Glide, Razer Blade 2017 (gtx 1060)

7. Maintenance

To ensure the longevity and optimal performance of your WAVLINK WL-UMD01 docking station, please follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry, lint-free cloth to clean the surface of the docking station. Avoid using liquid cleaners, aerosols, or solvents.
- **Storage:** 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 attempt to disassemble or modify the docking station, as this will void the warranty.
- **Ventilation:** Ensure the docking station has adequate ventilation to prevent overheating. Do not block the ventilation holes.

8. Troubleshooting

If you encounter issues with your docking station, refer to the following common problems and solutions:

- **No Display on External Monitors:**
  - Ensure the docking station is powered on and the power adapter is securely connected.
  - Verify the USB-C cable connecting the docking station to your laptop is securely plugged into both devices.
  - Check that your laptop's USB-C port supports DisplayPort Alternate Mode.
  - Confirm that the correct input source is selected on your external monitors.
  - For Mac OS users, remember that MST is not supported, so external monitors will mirror the content.
  - Try updating your laptop's graphics drivers.
- **Flickering or Low Resolution on Displays:**
  - Check the quality and length of your HDMI/DisplayPort cables. Shorter, high-quality cables are recommended for higher resolutions.
  - Ensure your laptop's graphics card and operating system are configured for the desired resolution and refresh rate.
  - Refer to the display resolution limitations mentioned in Section 5.1 (e.g., triple display max 1920x1080@60Hz).

- **USB Devices Not Working or Slow:**
  - Ensure the docking station is powered on.
  - Try connecting the USB device to a different USB 3.0 port on the docking station.
  - If an external drive is slow, try connecting it directly to your laptop's USB port if possible.
  - Ensure the device does not require more power than the USB port can provide.
- **Ethernet Connection Issues:**
  - Check the Ethernet cable connection to both the docking station and your router/modem.
  - Power cycle the docking station (unplug and replug the power adapter).
  - Verify your laptop's network settings.
- **Laptop Not Charging:**
  - Ensure the docking station is powered on and the power adapter is connected.
  - Confirm your laptop's USB-C port supports USB Power Delivery.
  - Check if your laptop requires more than 65W of power, as the docking station provides up to 65W upstream charging.

9. Specifications

Feature	Specification
Model Number	WL-UMD01
Product Dimensions	8.15 x 3.27 x 0.71 inches (207 x 83 x 18 mm)
Item Weight	2.2 pounds (1000 Grams)
Input	USB-C (Upstream)
Power Delivery	Up to 65 Watts (Upstream Charging)
Video Outputs	1x HDMI, 2x DisplayPort
Max Resolution (Single Display)	4K@60Hz (3840x2160@60Hz)
Max Resolution (Dual Display)	2560x1440@60Hz
Max Resolution (Triple Display)	1920x1080@60Hz
USB Ports	4x USB 3.0 (5Gbps, 1x with BC 1.2 charging)
Ethernet	Gigabit Ethernet (RJ45, 1000Mbps)
Card Readers	SD, Micro SD (supports up to 2TB, simultaneous reading)
Audio	3.5mm Audio Jack



Image: The WAVLINK WL-UMD01 docking station with its physical dimensions labeled in inches and millimeters.

10. Warranty and Support

WAVLINK products are designed for reliability and performance. For warranty information, please refer to the terms provided with your purchase or visit the official WAVLINK website.

Customer Support:

If you require technical assistance or have questions regarding your WAVLINK WL-UMD01 docking station, please contact our support team:

- **Email:** contact@wavlink.com
- **Phone:** +1 8889730883 (Monday - Friday, 9 AM - 6 PM UTC-5)

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