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WAVLINK WL-UG69PD12

WAVLINK WL-UG69PD12 DisplayLink Laptop Docking Station User Manual

Model: WL-UG69PD12

1. Product Overview and Features

The WAVLINK WL-UG69PD12 is a versatile DisplayLink Laptop Docking Station designed to expand your connectivity and enhance productivity. It supports quad monitor setups with resolutions up to 5K/4K at 60Hz, provides 100W power delivery for host charging, and offers a wide array of ports for peripherals and high-speed data transfer.



Image: Front and rear views of the WAVLINK WL-UG69PD12 docking station, showcasing its compact design and various port layouts.

Key Features:

- **Multi-port Expansion:** Equipped with 4 HDMI and 4 DisplayPort outputs for up to four external displays, along

with 4 USB ports, an SD 4.0 card reader, and a 2.5Gbps LAN interface.

- **Quadruple Monitor Support:** Supports resolutions up to 5120x1440p60 (5K Ultrawide) or 4096x2160p60 (Cinema 4K) across four DisplayPort outputs. Quad Display (HDMI/HDMI+DisplayPort) resolution up to 3840x2160@60Hz or 4096x2160@60Hz.
- **Powerful Charging Capability:** Features a 180W power adapter, providing up to 100W Power Delivery (PD) to the host laptop and 30W PD charging via the front USB-C port for other devices.
- **Enhanced Audio Experience:** Includes an audio port for connecting headphones or speakers.
- **Wide Compatibility:** Compatible with Thunderbolt 3/4 interfaces and various operating systems including Windows, macOS, and ChromeOS.

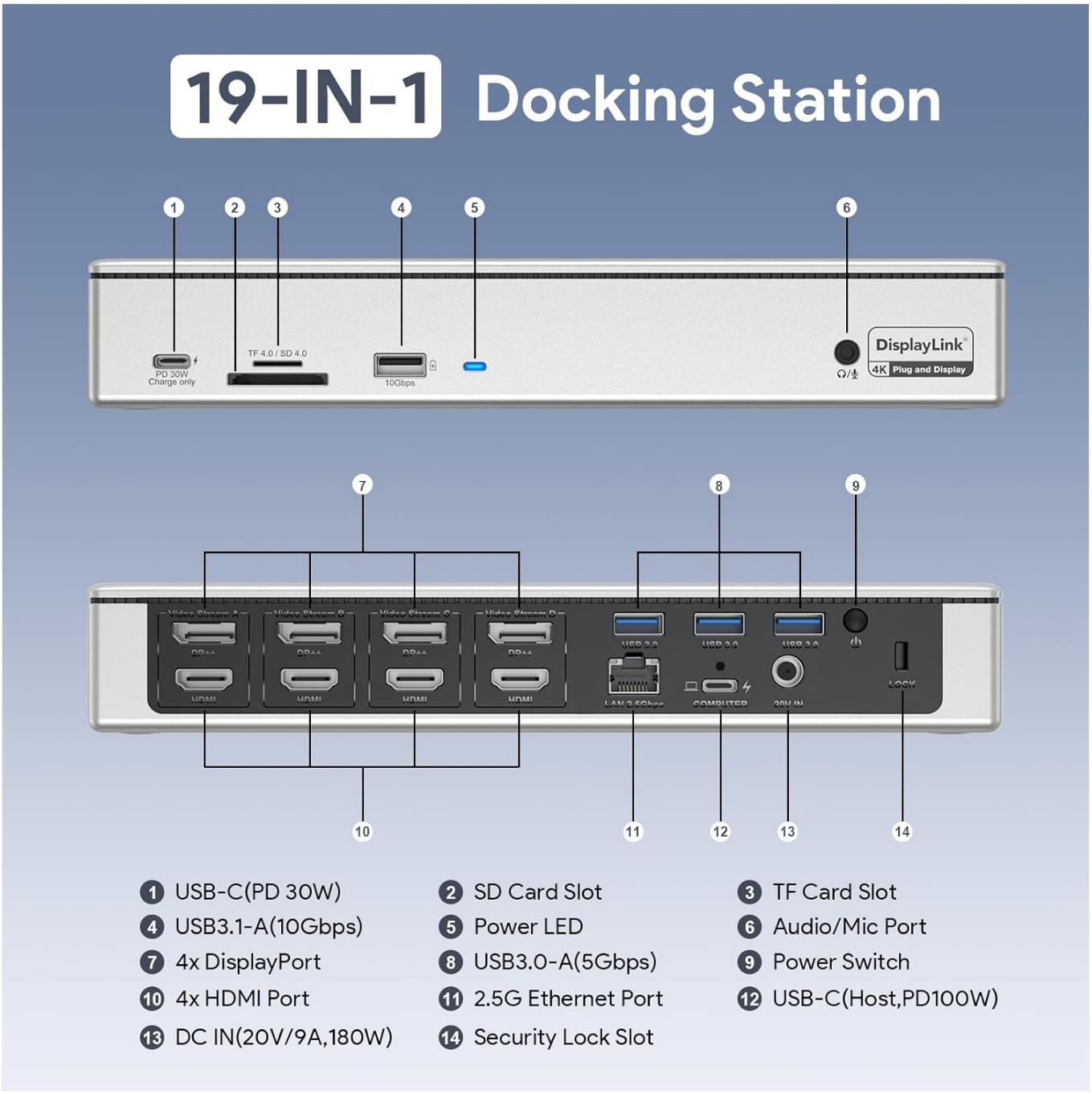

Image: Detailed diagram of the docking station highlighting its 19-in-1 port configuration with numbered labels for easy identification of each port.

Port Identification:

1. USB-C (PD 30W)
2. SD Card Slot

3. TF Card Slot
4. USB3.1-A (10Gbps)
5. Power LED
6. Audio/Mic Port
7. 4x DisplayPort
8. USB3.0-A (5Gbps)
9. Power Switch
10. 4x HDMI Port
11. 2.5G Ethernet Port
12. USB-C (Host, PD100W)
13. DC IN (20V/9A, 180W)
14. Security Lock Slot

2. Setup and Installation

Before using the WAVLINK WL-UG69PD12 docking station, it is essential to install the necessary DisplayLink drivers for your operating system. This ensures proper functionality and display output.

Driver Installation:

The docking station utilizes DisplayLink technology for multi-monitor support. Follow these steps to install the drivers:

1. **Step 1:** Access the official DisplayLink website for downloads. Visitwww.displaylink.com/downloads.
2. **Step 2:** Choose the corresponding driver for your operating system (Windows, macOS, ChromeOS, Ubuntu, Android) and download it.
3. **Step 3:** Run the downloaded installer and follow the on-screen prompts to complete the installation.
4. **Step 4 (macOS specific):** After installation, navigate to 'Privacy & Security' settings and grant 'Screen Recording Permission' to 'DisplayLink Manager' to allow it to function correctly.



Image: Visual guide illustrating the four steps for installing the DisplayLink driver, including visiting the website, selecting the OS, downloading, and installing.

Physical Connection:

1. Connect the provided 180W power adapter to the DC IN port (13) on the docking station and plug it into a power

outlet.

2. Connect your host laptop to the USB-C (Host, PD100W) port (12) on the docking station using a compatible USB-C cable. Ensure your laptop's USB-C port supports Power Delivery for charging.
3. Connect your external monitors to the available HDMI ports (10) or DisplayPort outputs (7) on the docking station. You can use a combination of up to four monitors.
4. Connect any desired USB peripherals (keyboard, mouse, external drives) to the USB3.1-A (10Gbps) ports (4) or USB3.0-A (5Gbps) ports (8).
5. For wired network connectivity, connect an Ethernet cable to the 2.5G Ethernet Port (11).
6. Insert SD or TF cards into their respective slots (2, 3) if needed.
7. Connect headphones or speakers to the Audio/Mic Port (6).

3. Operating the Docking Station

Once the drivers are installed and all connections are made, the docking station is ready for operation. The Power LED (5) will illuminate when powered on.

Display Modes:

The docking station supports both Extend Mode and Mirror Mode for your connected displays.

- **Extend Mode:** Provides additional desktop space, allowing you to spread your applications across multiple screens for enhanced multitasking. Each monitor can display different content.
- **Mirror Mode:** Duplicates your primary display onto all connected monitors, useful for presentations or sharing content with an audience.



Image: Illustration demonstrating the Extend Mode, where a laptop and four external monitors display unique content, and Mirror Mode, where all screens show identical content.

Connecting Multiple Monitors:

The WL-UG69PD12 allows for flexible quad monitor configurations. Please note the following:

- **Notice 1:** Only one video port (either DP++ or HDMI) can be used per video stream (A/B/C/D). Do not connect both DP and HDMI for the same stream simultaneously.
- **Notice 2:** If both HDMI and DP++ are connected in the same video stream, the DP++ connection will take priority.



Image: A visual guide demonstrating the correct method for connecting four monitors to the docking station, emphasizing the use of either DisplayPort or HDMI per video stream.

Power Delivery and Data Transfer:

The docking station provides robust power delivery and high-speed data transfer capabilities.

- **Host Charging:** The USB-C (Host, PD100W) port can deliver up to 100W to charge your connected laptop.
- **Device Charging:** The front USB-C (PD 30W) port can charge compatible devices like smartphones and tablets at up to 30W.
- **Data Speeds:** USB 3.1-A ports offer speeds up to 10Gbps, while USB 3.0-A ports provide up to 5Gbps. The 2.5G Ethernet port ensures a stable and fast wired network connection.



Image: Visual representation of the docking station providing 100W power to a laptop and 30W to a smartphone simultaneously.





Image: Chart illustrating the data transfer speeds of the docking station's USB ports: 10Gbps for USB 3.1-A and 5Gbps for USB 3.0-A.

4. Maintenance

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

- **Cleaning:** Use a soft, dry cloth to wipe the exterior of the docking station. Avoid using liquid cleaners or aerosols, which may damage the device.
- **Ventilation:** Ensure the docking station is placed in a well-ventilated area to prevent overheating. Do not block the ventilation holes.
- **Cable Management:** Keep cables organized and untangled to prevent strain on ports and accidental disconnections.
- **Storage:** When not in use for extended periods, store the docking station in a cool, dry place away from direct sunlight and extreme temperatures.

5. Troubleshooting

If you encounter issues with your WAVLINK WL-UG69PD12 docking station, refer to the following common troubleshooting steps:

- **No Display Output:**
  - Ensure the DisplayLink drivers are correctly installed and updated to the latest version.
  - Verify all video cables (HDMI/DisplayPort) are securely connected to both the docking station and the monitors.
  - Check monitor input settings to ensure they are set to the correct source (HDMI/DisplayPort).
  - Restart your computer and the docking station.
- **Intermittent Display Flickering/Disconnections:**
  - This can often be resolved by updating DisplayLink drivers.
  - Ensure the USB-C cable connecting the laptop to the docking station is of high quality and securely connected.
  - Reduce the number of connected peripherals if the issue persists, to rule out power or bandwidth limitations.
- **Laptop Not Charging:**
  - Confirm that your laptop's USB-C port supports Power Delivery (PD).
  - Ensure the 180W power adapter is properly connected to the docking station and a working power outlet.
  - Try unplugging and re-plugging the USB-C cable from both the laptop and the docking station.
- **USB Peripherals Not Working/Intermittent:**
  - Try connecting the peripheral to a different USB port on the docking station.
  - Ensure the peripheral's drivers are installed on your computer.
  - If using a wireless dongle (e.g., for a mouse), try connecting it directly to your laptop's USB port to isolate the issue.
- **No Network Connection:**
  - Verify the Ethernet cable is securely connected to both the docking station and your router/modem.
  - Check your computer's network settings to ensure the Ethernet adapter is enabled and configured correctly.

6. Specifications

Detailed technical specifications for the WAVLINK WL-UG69PD12 docking station:

Feature	Specification
Model Number	WL-UG69PD12
Package Dimensions	11.1 x 5.2 x 4.45 inches
Item Weight	4.24 pounds
Brand	WAVLINK

Feature	Specification
Color	Silver
Hardware Interface	3.5mm Audio, DisplayPort, Ethernet, HDMI, USB 3.2 Gen 2
Total USB Ports	4 (1x USB 3.1-A 10Gbps, 3x USB 3.0-A 5Gbps, 1x USB-C 30W PD)
Total HDMI Ports	4
Total DisplayPort	4
Ethernet	2.5Gbps LAN
Card Reader	SD 4.0, TF Card
Power Delivery (Host)	Up to 100W via USB-C
Power Adapter	180W (20V/9A)
Compatible Devices	Apple M1/M2 and Intel Macs (macOS 10.14+), Microsoft Surface, HP Spectre/Elitebook, Dell XPS/Latitude/Precision, Lenovo Thinkpad/Yoga, Huawei Macbook, Google Slate, Chromebook, etc.
Compatible Systems	Windows 10/11, macOS 11.x-13.x or above, ChromeOS, Ubuntu, Android

7. Warranty and Support

WAVLINK products are designed for reliability and performance. For specific warranty details, please refer to the warranty card included with your product packaging or visit the official WAVLINK website.

For technical support, driver updates, or further assistance, please visit the WAVLINK official support page or contact their customer service. Contact information can typically be found on the manufacturer's website or in the product documentation.

No official product videos from the seller were found to be relevant for embedding in this manual.

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