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WAVLINK WL-39DK3-FBA-AU

WAVLINK USB 3.0 Laptop Docking Station User Manual

Model: WL-39DK3-FBA-AU
Brand: WAVLINK

1. Introduction

The WAVLINK USB 3.0 Laptop Docking Station is designed to expand the connectivity of your laptop, providing a versatile solution for dual monitor setups and a wide array of peripheral connections. This manual provides detailed instructions for setting up, operating, and maintaining your docking station to ensure optimal performance.

2. Key Features

- **13-Port Expansion:** A single USB 3.0 port expands to HDMI, DVI/VGA dual video display, Gigabit Ethernet, 2x 2.4A USB charging ports, 2x USB-A 3.0, 2x USB 2.0 ports, and audio input/output.
- **Dual Display Support:** Features 1080P HDMI and DVI ports. HDMI supports resolutions up to 2560x1440. DVI/VGA supports up to 2048x1152 / 1920x1200. Dual displays are limited to 1920x1200. DVI to VGA and DVI to HDMI adapters are included.
- **High-Speed USB Ports:** 2x USB 3.0 ports offer super transfer speeds up to 5Gbps and 900mA power. 2x USB 2.0 ports for standard peripherals.
- **Fast Charging:** 2x dedicated fast charging ports (red USB-A) can charge smartphones or tablets up to 2.4A.
- **Gigabit Ethernet:** Provides a stable and fast wired network connection.
- **Audio Connectivity:** Dedicated ports for audio input (microphone) and output (headphones/speakers).
- **Broad Compatibility:** Supports Windows 10, 8, 7, legacy XP systems, Chrome OS R55, and macOS 10.15.1 or later.
- **DisplayLink Certified:** Built-in USB 3.0 GPU certified by DisplayLink ensures reliable performance.
- **User-Friendly Design:** LED display status for easy monitoring, hot-swappable, and USB over-current protection.

3. Setup Guide

3.1. Package Contents

Before you begin, please verify that all items are present in your package:

- WAVLINK USB 3.0 Universal Docking Station
- USB 3.0 Extension Cable
- DVI to VGA Adapter
- DVI to HDMI Adapter
- DC 12V Power Adapter
- Installation Driver CD (Note: Latest drivers are recommended from the WAVLINK website)
- Quick Guide / User Manual



Figure 3.1: Contents of the WAVLINK USB 3.0 Universal Docking Station package.

3.2. Connecting the Docking Station

1. **Connect Power:** Plug the DC 12V Power Adapter into the 'DC 12V' port on the docking station and then into a power outlet. The power indicator light on the docking station should illuminate.

2. **Connect to Laptop:** Use the provided USB 3.0 Extension Cable to connect the 'USB 3.0 IN' port on the docking station to an available USB 3.0 port on your laptop.
3. **Connect Displays:**
    - For HDMI display: Connect your HDMI monitor cable to the 'HDMI' port on the docking station.
    - For DVI display: Connect your DVI monitor cable to the 'DVI' port on the docking station.
    - For VGA display: Use the included DVI to VGA adapter with your VGA monitor cable and connect it to the 'DVI' port.

    The docking station supports dual displays. If connecting two monitors, ensure one uses the HDMI port and the other uses the DVI/VGA port.

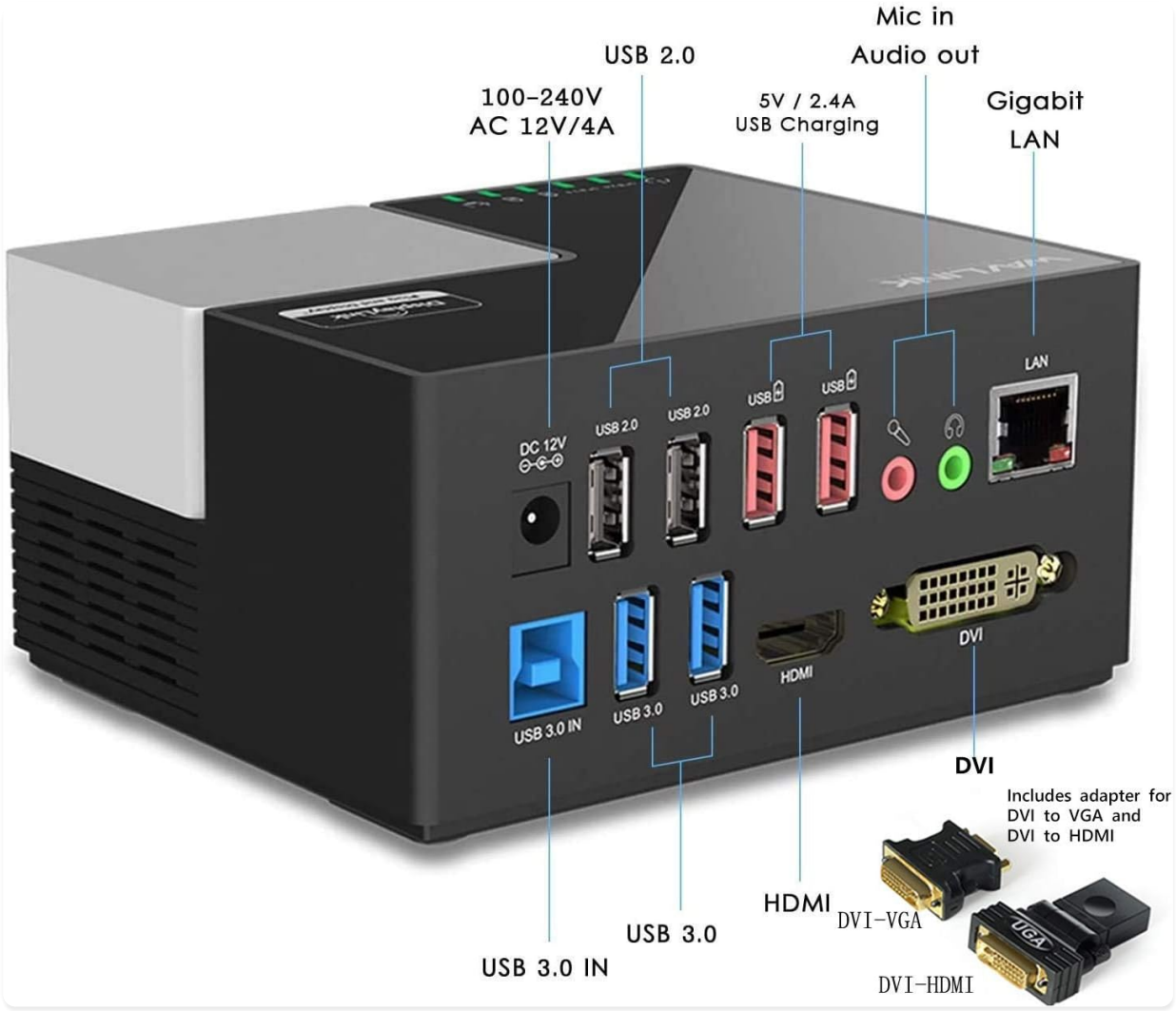

Figure 3.2: Rear view of the docking station with all ports labeled.

4. **Connect Peripherals:** Plug your USB devices (keyboard, mouse, external drives) into the available USB 2.0 (black) or USB 3.0 (blue) ports. Use the red USB ports for fast charging devices.
5. **Connect Network:** For a wired internet connection, connect an Ethernet cable from your router/modem to the 'LAN' (RJ-45 Gigabit Ethernet) port on the docking station.
6. **Connect Audio:** Plug your microphone into the pink audio input port and headphones/speakers into the green audio output port.

3.3. Driver Installation (DisplayLink)

For the docking station to function correctly, especially for display output, the DisplayLink drivers must be installed on your operating system. While a driver CD is included, it is highly recommended to download the latest drivers directly from the official DisplayLink website for optimal compatibility and performance.

- Visit the official DisplayLink website (search for "DisplayLink drivers").
- Navigate to the 'Downloads' section.
- Select the correct operating system (Windows, macOS, Chrome OS, Ubuntu) and download the latest DisplayLink Manager application.
- Follow the on-screen instructions to complete the installation. For macOS users, additional security permissions for 'Screen Recording' may be required for the DisplayLink driver to function properly.

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Video 3.1: Guide on how to download and install the DisplayLink Manager APP for Mac OS.

For detailed instructions on driver installation, especially for macOS, please refer to the official DisplayLink website or the provided PDF user guide.

4. Operating the Docking Station

4.1. Display Modes

The WAVLINK docking station supports various display modes, configurable through your operating system's display settings:

- **Extend Mode:** Each connected monitor displays a different desktop area, allowing for multi-tasking across multiple screens. This is ideal for productivity and complex workflows.
- **Mirror Mode:** All connected monitors display the same content as your primary laptop screen. This is useful for presentations or sharing content with an audience.



	HDMI	DVI/VGA
Single Display	*2560x1440 @ 50Hz*	*DVI: 2048x1152@60Hz* *VGA:1920x1080 @60Hz*
Dual Display	*1920x1080@60Hz*	

Figure 4.1: Windows & Mac OS display modes (Mirror and Extend).

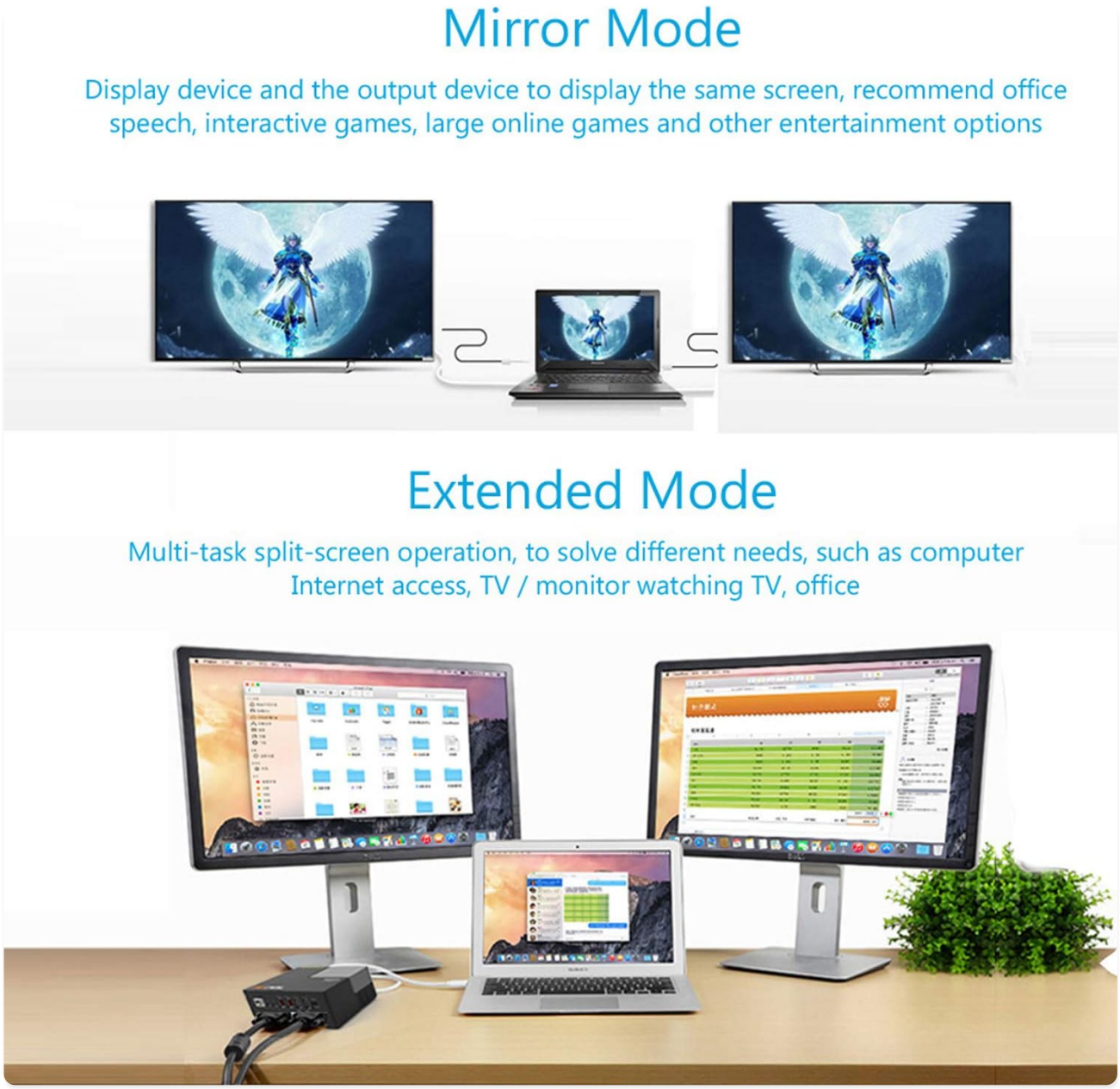

Figure 4.2: Visual explanation of Mirror Mode and Extended Mode.

4.2. Hot-Swapping and USB Over-Current Protection

The docking station supports hot-swapping, allowing you to connect or disconnect USB devices without needing to restart your computer or the docking station. It also features USB over-current protection to safeguard your connected devices from power surges.

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Video 4.1: Overview of the WAVLINK Docking Station in a working from home setup, demonstrating its features and connectivity.

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Video 4.2: Demonstration of the USB 3.0 Laptop Docking Station with dual video monitor setup.

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Video 4.3: Detailed look at the USB 3.0 Universal Laptop Docking Station and its various ports.

5. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the docking station. Avoid using liquid cleaners or aerosols.
- **Storage:** Store the docking station in a cool, dry place away from direct sunlight and extreme temperatures.
- **Handling:** Handle the device with care to prevent physical damage to ports or internal components.

6. Troubleshooting

- **No Display Output:**
  - Ensure the docking station is powered on and connected correctly to your laptop's USB 3.0 port.
  - Verify that DisplayLink drivers are installed and up-to-date. For macOS, check 'Screen Recording' permissions in Privacy & Security settings.
  - Check monitor input settings and cable connections.
- **LAN Connection Issues:**
  - Ensure the Ethernet cable is securely connected to both the docking station and your network device.
  - Check your computer's network settings.
  - Some users have reported periodic LAN disconnections; ensure drivers are updated.
- **Audio Not Working:**
  - Verify that speakers/headphones are correctly plugged into the audio output port.
  - Check your computer's sound settings to ensure the docking station's audio output is selected as the default device.
- **Performance Issues (e.g., for Gaming):**
  - The docking station is primarily designed for web and productivity software. It is not recommended for gaming due to DisplayLink technology limitations.

For more in-depth troubleshooting, please refer to theTroubleshooting Guide (PDF) available online.

7. Specifications

Feature	Description
Model Number	WL-39DK3-FBA-AU
Product Dimensions	5.12 x 4.06 x 2.48 inches
Item Weight	13 ounces (0.37 Kilograms)

Feature	Description
Total USB Ports	6 (2x USB 3.0, 2x USB 2.0, 2x USB Charging)
Total HDMI Ports	1
DVI Ports	1 (with DVI to VGA and DVI to HDMI adapters)
Ethernet Port	1 (RJ-45 Gigabit)
Audio Ports	1x Microphone Input, 1x Headphone Output
Power Input	DC 12V
Wattage	48 watts
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 C340-15, Razer Blade, Pixelbook Go.
Unsupported Systems	Surface RT, Mac OS/Linux/Unix (older versions not specified as 10.15.1+)

8. Warranty and Support

WAVLINK products typically come with a manufacturer's warranty. For specific warranty details and duration, please refer to the warranty card included with your product or visit the official WAVLINK website.

For technical support, troubleshooting assistance, or product inquiries, please contact WAVLINK customer support through their official website or the contact information provided in your product documentation.

Additional resources:

- User Guide (PDF)
- Installation Manual (PDF)

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