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LIONWEI SF-USBC-VGA01

LIONWEI DisplayLink Docking Station (SF-USBC-VGA01) Instruction Manual

Model: SF-USBC-VGA01

1. Introduction and Overview

This manual provides detailed instructions for the setup, operation, and maintenance of your LIONWEI DisplayLink Docking Station, Model SF-USBC-VGA01. This 15-in-1 docking station is designed to expand the connectivity of your laptop, offering multiple ports for displays, peripherals, network, and power delivery. It is compatible with both MacBook (including M1/M2 chip models) and Windows laptops, requiring the installation of the DisplayLink driver for full functionality.

Image 1.1: LIONWEI Universal Docking Station in a typical setup.

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Video 1.1: An overview of the LIONWEI DisplayLink Docking Station's features and setup process for Windows and macOS.

2. Product Features

The LIONWEI DisplayLink Docking Station offers a comprehensive set of features to enhance your computing experience:

- **DisplayLink Driver Requirement:** Requires DisplayLink driver installation for compatibility with USB-A or USB-C laptops.
- **Dual Extended Display Support:** Extends two monitors with different content for both MacBook (M1/M2 chip) and Windows devices. Supports up to two HDMI or two DisplayPort connections simultaneously.
- **Dual 4K Display Extension:** Supports resolutions up to 4K@60Hz for one or two extended monitors.
- **120W DC Power Supply:** Features a powerful 120W DC power charger, providing up to 80W for laptop charging and 40W for the adapter itself.
- **2.5G Gigabit Ethernet:** Provides an RJ45 2.5G Ethernet port for stable network connections, backward compatible with 1000/100/10Mbps.
- **Multiple USB Ports:** Includes USB-C 3.1 (10Gbps), USB-A 3.1 (10Gbps), USB-A 3.0 (5Gbps), and USB 2.0 (480Mbps) ports for various peripherals and high-speed data transfer.
- **SD/Micro SD Card Reader:** Integrated slots for SD and Micro SD cards, supporting transfer speeds up to 200-250MB/s.
- **3.5mm Audio Port:** A combined audio and microphone jack for headsets or speakers.

Image 2.1: Detailed port layout of the 15-in-1 docking station.

Image 2.2: Ethernet and USB port speeds.

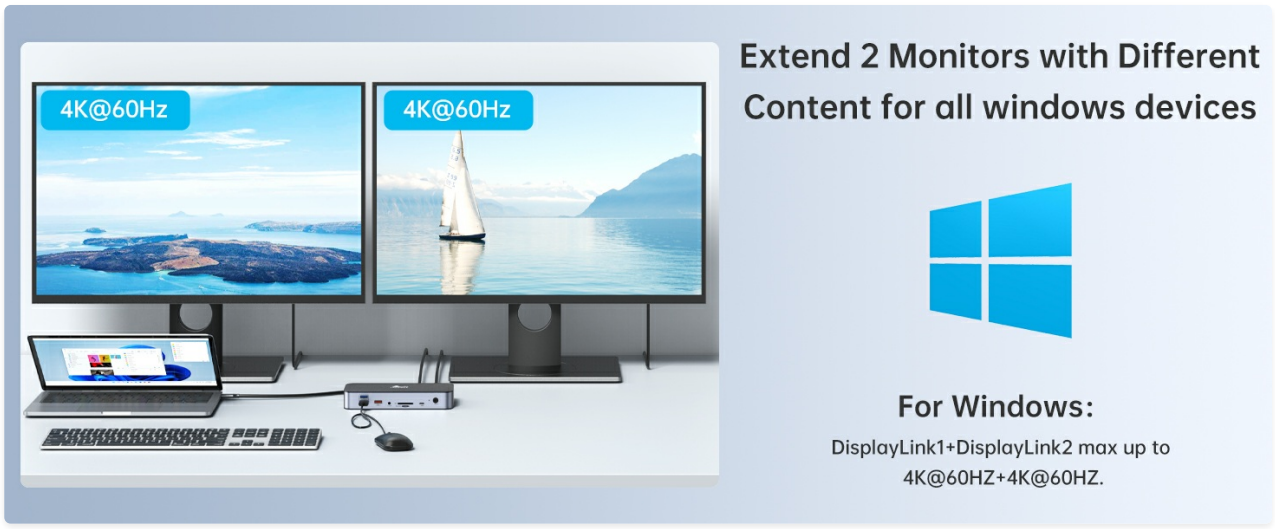

Image 2.3: 120W DC Power Supply and 80W Power Delivery.

Image 2.4: SD/Micro SD card reader and audio output.

3. Setup Instructions

Follow these steps to set up your LIONWEI DisplayLink Docking Station:

3.1. Driver Installation (Essential)

The DisplayLink Docking Station requires the installation of the DisplayLink driver to function correctly, especially for extended display support on macOS and Windows. Without this driver, display output may not work as intended.

1. **Download Driver:** Visit the official DisplayLink website (e.g.,synaptics.com/products/displaylink-usb-graphics/downloads) to download the latest DisplayLink driver compatible with your operating system (macOS, Windows, Chrome OS, Android, Ubuntu).
2. **Install Driver:** Follow the on-screen instructions to install the driver. You may need to restart your computer after installation.
3. **macOS Specific:** For macOS, ensure 'DisplayLink Manager' is allowed to record the contents of your screen in 'Security & Privacy' settings.

Image 3.1: DisplayLink driver installation steps.

3.2. Hardware Connection

1. **Connect Power:** Plug the 120W DC power adapter into the docking station's DC 120W port and then into a power outlet.
2. **Connect to Laptop (Host):** Use the provided USB-C to USB-C cable or USB-C to USB-A cable to connect the docking station's HOST port to your laptop's USB-C or USB-A port.
3. **Connect Displays:** Connect your external monitors to the docking station using HDMI or DisplayPort cables. The docking station supports up to two 4K@60Hz displays.
4. **Connect Ethernet:** For a stable wired network connection, plug an Ethernet cable into the docking station's 2.5G Ethernet port.

5. **Connect Peripherals:** Plug in your USB devices (keyboard, mouse, external drives) into the available USB 3.1, USB 3.0, or USB 2.0 ports. Insert SD or Micro SD cards into their respective slots. Connect headphones or speakers to the 3.5mm audio jack.

Image 3.2: Docking station and included accessories.

Image 3.3: USB-A and USB-C laptop compatibility.

SD & Micro sd

250MB/s

Audio Output

3.5mm Audio & Mic

Image 3.4: Connecting to USB-A or USB-C laptops.

Image 3.5: Connecting the 2.5G Gigabit Ethernet.

4. Operating Instructions

4.1. Power On/Off

Press and hold the power button on the docking station for a few seconds to power it on or off. An indicator light will confirm the power status.

4.2. Display Configuration

After connecting your monitors and installing the DisplayLink driver, your operating system should detect the external displays. You can configure display settings (e.g., extend, mirror, resolution) through your computer's display settings.

- **Windows:** Right-click on the desktop, select 'Display settings', and arrange your displays.
- **macOS:** Go to 'System Settings' (or 'System Preferences'), then 'Displays', and arrange your displays.

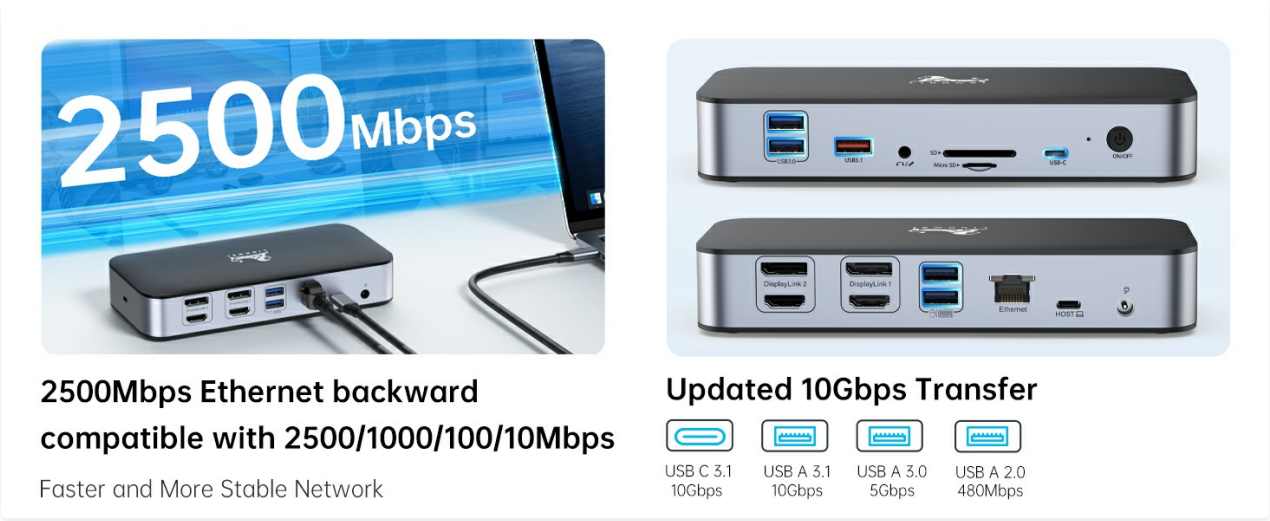

Image 4.1: Dual 4K extended display setup for MacBook.

Image 4.2: Dual 4K extended display setup for Windows.

4.3. Data Transfer and Charging

Utilize the various USB ports for connecting peripherals and transferring data. The USB 3.1 ports offer speeds up to 10Gbps, while USB 3.0 ports provide up to 5Gbps. The SD/Micro SD card slots support fast data transfer for media files. The docking station also provides power delivery to your laptop via the host connection, up to 80W.

5. Maintenance

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

- **Cleaning:** Use a soft, dry cloth to clean 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 any ventilation openings.
- **Storage:** When not in use for extended periods, store the docking station in a cool, dry place away from direct sunlight and extreme temperatures.
- **Cable Management:** Keep cables organized and free from kinks or excessive bending to prevent damage to the cables and ports.

6. Troubleshooting

If you encounter issues with your LIONWEI DisplayLink Docking Station, refer to the following common problems and solutions:

- **No Display Output:**
  - Ensure the DisplayLink driver is correctly installed and updated.
  - Verify all display cables (HDMI/DisplayPort) are securely connected to both the docking station and the monitors.
  - Check if the docking station is powered on and connected to your laptop.
  - Try restarting your laptop and reconnecting the docking station.
- **Flickering or Unstable Display:**
  - Check for loose cable connections.
  - Ensure your display drivers (both graphics card and DisplayLink) are up to date.
  - Reduce the display resolution to see if the issue persists.
- **USB Devices Not Recognized or Slow Data Transfer:**
  - Ensure the docking station is properly powered.
  - Try connecting the USB device to a different port on the docking station.
  - Disconnect and reconnect the docking station from your laptop.
  - For optimal performance, use USB 3.0/3.1 ports for high-speed devices.
- **No Network Connection via Ethernet:**
  - Verify the Ethernet cable is securely connected to both the docking station and your router/modem.
  - Check your computer's network settings.
  - Ensure the Ethernet driver is installed and updated.

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Video 6.1: A detailed review and setup guide for the LIONWEI USB C docking station, including driver installation and multi-monitor setup.

7. Specifications

Feature	Specification
Product Dimensions	8.3 x 0.6 x 1.5 inches
Item Weight	0.8 ounces
ASIN	B071FJXTLN
Item Model Number	SF-USBC-VGA01
Manufacturer	LIONWEI
Brand	LIONWEI
Color	Brown
Hardware Interface	USB Docking Station
Compatible Devices	Laptops (MacBook M1/M2, Windows)
Total USB Ports	6 (USB-C 3.1, USB-A 3.1, USB-A 3.0, USB 2.0)
Display Output	2x HDMI, 2x DisplayPort (Dual 4K@60Hz)
Power Delivery	120W DC Power Supply (up to 80W to laptop)
Ethernet	2.5G Gigabit Ethernet
Card Reader	SD/Micro SD (200-250MB/s)
Audio	3.5mm Audio/Mic

8. Warranty and Support

The LIONWEI DisplayLink Docking Station (SF-USBC-VGA01) comes with an **18-month warranty** from the date of purchase. This warranty covers manufacturing defects and ensures reliable operation under normal use conditions.

For technical assistance, warranty claims, or any product-related inquiries, please contact LIONWEI customer support. Refer to the product packaging or the official LIONWEI website for contact information.

Please retain your proof of purchase for warranty validation.