VisionTek VT8000

VisionTek VT8000 USB-C 4X Monitor Docking Station User Manual

Model: VT8000

1. PRODUCT OVERVIEW

The VisionTek VT8000 is a versatile USB-C docking station designed to expand your laptop's connectivity and display capabilities. It supports up to four 4K displays simultaneously via HDMI or DisplayPort, making it suitable for complex multi-monitor setups. This docking station connects to your host system using a single USB-C or USB-A connection and provides 100W of Power Delivery to compatible laptops.

Key features include:

- **Quad 4K Display Compatibility:** Connects four 4K displays (3840 x 2160 @ 60Hz) simultaneously through HDMI or DisplayPort.
- **Diverse Connection Options:** Features 4x HDMI, 4x DisplayPort, 4x USB-A (5Gbps), 1x USB-C PD (30W for peripherals), Audio/Mic combo, SD/Micro SD card readers, 2.5 Gigabit Ethernet, and a Kensington Lock slot.
- **Robust 100W USB-C Power Delivery:** Delivers up to 100W of power to charge your connected laptop (power supply included).
- **Universal Device Support:** Compatible with USB 3.0, USB-C, and M1 Mac systems, as well as Windows, macOS, and ChromeOS.
- **Advanced Enterprise Features:** Includes Wake on LAN, MAC Address Pass-Through, and PXE Boot.

Image 1.1: The VisionTek VT8000 USB-C 4X Monitor Docking Station, showcasing its compact design and multiple ports.

2. PACKAGE CONTENTS

Ensure all items are present in the package:

- VisionTek VT8000 Docking Station
- 180W DC 20V/9A Power Adapter
- USB-C to USB-C Cable (1m)
- USB-C to USB-A Adapter
- User Manual (this document)

3. SETUP INSTRUCTIONS

Follow these steps to set up your VisionTek VT8000 docking station:

3.1. Driver Installation

The VT8000 utilizes DisplayLink technology for multi-monitor support. Before connecting the docking station, it is recommended to install the latest DisplayLink drivers for your operating system. Visit the official DisplayLink website or VisionTek support page to download the appropriate drivers.

1. Download the latest DisplayLink drivers for Windows, macOS, or ChromeOS.
2. Install the drivers by following the on-screen instructions. Restart your computer if prompted.

3.2. Connecting the Docking Station

1. **Connect Power:** Plug the 180W power adapter into the DC 20V port on the rear of the docking station, then plug the adapter into a power outlet. The power LED on the front of the dock will illuminate.
2. **Connect to Host System:** Use the provided USB-C to USB-C cable to connect the docking station's 'COMPUTER' port to your laptop's USB-C port. If your laptop only has USB-A ports, use the included USB-C to USB-A adapter with the USB-C cable.
3. **Connect Displays:** Connect your monitors to the available HDMI or DisplayPort outputs on the rear of the docking station. The VT8000 supports up to four displays.
4. **Connect Peripherals:** Plug your USB devices (keyboard, mouse, external drives) into the USB-A ports. Connect your headset or speakers to the Audio/Mic combo jack. For wired network access, connect an Ethernet cable to the 2.5 Gigabit Ethernet port.

Image 3.1: Detailed view of the VisionTek VT8000 docking station ports, including HDMI, DisplayPort, USB-A, USB-C, Ethernet, and audio jacks.

Image 3.2: Front and rear port layout of the VT8000, illustrating connections for additional devices, displays, and networking.

4. OPERATING THE DOCKING STATION

4.1. Display Configuration

Once connected, your operating system should detect the external displays. You may need to configure display settings (resolution, orientation, extension/mirroring) within your OS display settings.

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

The VT8000 supports various display configurations:

Host System	1 Display	2 Displays	3 Displays	4 Displays
Windows	5120 x 2880 @ 60Hz (DP Stream 1+2) or 4096 x 2160 @ 60Hz (HDMI)	5120 x 2880 @ 60Hz (DP Stream 1+2) or 4096 x 2160 @ 60Hz (HDMI)	Display 1-2: 5120 x 2880 @ 60Hz, Display 3-4: 4096 x 2160 @ 60Hz	4096 x 2160 @ 60Hz
macOS	4096 x 2160 @ 60Hz	4096 x 2160 @ 60Hz	4096 x 2160 @ 60Hz	4096 x 2160 @ 60Hz
ChromeOS	4096 x 2160 @ 60Hz	4096 x 2160 @ 60Hz	4096 x 2160 @ 60Hz	4096 x 2160 @ 60Hz

HOST SYSTEM	1 DISPLAY DP | HDMI	2 DISPLAYS DP | HDMI	3 DISPLAYS DP | HDMI	4 DISPLAYS DP | HDMI
WINDOWS	DP STREAM 1+2 5120 X 2880 @ 60HZ HDMI 4096 X 2160 @ 60HZ	DP STREAM 1+2 5120 X 2880 @ 60HZ HDMI 4096 X 2160 @ 60HZ	DISPLAY 1 - DP STREAM 1+2 5120 X 2880 @ 60HZ DISPLAY 2/3 - HDMI OR DP STREAM 3/4 4096 X 2160 @ 60HZ	4096 X 2160 @ 60HZ
macOS	4096 X 2160 @ 60HZ	4096 X 2160 @ 60HZ	4096 X 2160 @ 60HZ	4096 X 2160 @ 60HZ
ChromeOS	4096 X 2160 @ 60HZ	4096 X 2160 @ 60HZ	4096 X 2160 @ 60HZ	4096 X 2160 @ 60HZ

Image 4.1: Visual representation of the VT8000's ability to extend up to four displays, with resolution details for different operating systems.

4.2. Power Delivery

The VT8000 provides up to 100W of Power Delivery to your host laptop via the USB-C connection, ensuring your device remains charged while connected. The dedicated USB-C PD (30W) port on the front is for charging mobile devices or other low-power peripherals.

Image 4.2: The VT8000 docking station providing 100W USB-C Power Delivery to a connected laptop.

4.3. Universal Compatibility

The docking station is designed for broad compatibility with Windows, macOS (including M1 Macs), and ChromeOS systems that have a USB-C or USB-A port (USB 3.0 or higher recommended for optimal performance).

Image 4.3: A laptop connected to the VT8000, illustrating its universal compatibility with various operating systems.

5. MAINTENANCE

To ensure the longevity and optimal performance of your VisionTek VT8000 docking station, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry, anti-static cloth to clean the exterior of the docking station. Avoid using liquid cleaners or aerosol sprays, which can damage the device.
- **Ventilation:** Ensure the docking station is placed in a well-ventilated area to prevent overheating. Do not block the ventilation openings.
- **Cable Management:** Keep cables organized and free from kinks or excessive bending to prevent damage to the cables and ports.
- **Storage:** When not in use for extended periods, disconnect the power adapter and store the docking station in a cool, dry place.

6. TROUBLESHOOTING

If you encounter issues with your VT8000 docking station, refer to the following troubleshooting steps:

6.1. No Display Output

- **Check Connections:** Ensure all display cables (HDMI/DisplayPort) are securely connected to both the docking station and the monitors.
- **Verify Host Connection:** Confirm the USB-C cable connecting the dock to your laptop is firmly seated.
- **Power Cycle:** Disconnect the power adapter from the docking station, wait 10 seconds, then reconnect it. Restart your computer.
- **Driver Check:** Ensure the latest DisplayLink drivers are installed and updated. Reinstall if necessary.
- **Monitor Input:** Verify your monitors are set to the correct input source (HDMI or DisplayPort).

6.2. Intermittent Display or Device Disconnections

- **Cable Integrity:** Inspect all cables for damage. Try using different cables if available.
- **Power Supply:** Ensure the 180W power adapter is correctly connected and providing stable power.
- **Driver Stability:** Outdated or corrupted DisplayLink drivers can cause instability. Update or reinstall drivers.
- **MacBook Sleep Issues:** Some users report display disconnection after a MacBook enters sleep mode. Restarting the MacBook often resolves this. Ensure your macOS is updated and DisplayLink drivers are current. Adjust power settings to prevent deep sleep if this issue persists.

6.3. No Power Delivery to Laptop

- **Check Power Adapter:** Confirm the 180W power adapter is fully connected to the dock and a working power outlet.
- **USB-C Cable:** Ensure you are using the provided USB-C to USB-C cable, which supports Power Delivery.
- **Laptop Compatibility:** Verify your laptop supports USB-C Power Delivery.

6.4. Network Connectivity Issues

- **Ethernet Cable:** Check the Ethernet cable connection to both the dock and your router/modem.
- **Driver Check:** Ensure network drivers are correctly installed.
- **Router/Modem:** Restart your network equipment.

7. SPECIFICATIONS

Feature	Specification
Model Number	VT8000
Brand	VisionTek
Host Connection	USB-C or USB-A (via adapter)
Video Outputs	4x HDMI, 4x DisplayPort (supports up to 4 displays simultaneously)
Max Resolution	4096 x 2160 @ 60Hz (Quad Display), 5120 x 2880 @ 60Hz (Dual Display on Windows)
USB-A Ports	4x USB 3.0 (5Gbps)
USB-C Ports	1x USB-C PD (30W for peripherals)
Power Delivery	Up to 100W to host laptop

Feature	Specification
Ethernet	2.5 Gigabit Ethernet
Audio	1x Audio/Mic Combo Jack
Card Reader	SD/Micro SD Card Reader
Security	Kensington Lock Slot
Operating Systems	Windows 11, 10, 8.1, 7 | macOS 10.10 and later | ChromeOS
Dimensions (LxWxH)	3.86 x 2.5 x 1.5 inches
Weight	1 pound

8. WARRANTY AND SUPPORT

8.1. Warranty Information

VisionTek products are covered by a manufacturer's warranty. For specific details regarding the warranty period and terms for your VT8000 docking station, please refer to the warranty card included with your product or visit the official VisionTek website. Keep your proof of purchase for warranty claims.

8.2. Technical Support

If you require technical assistance or have questions not covered in this manual, please contact VisionTek customer support. Support resources, including FAQs and contact information, can be found on the official VisionTek website:

VisionTek Website: www.visiontek.com

When contacting support, please have your product model number (VT8000) and a detailed description of your issue ready.