VisionTek®

VT4950

USB-C KVM DOCKING STATION

USER MANUAL

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SAFETY INSTRUCTIONS

Always read the safety instructions carefully.
Keep the User Manual for future reference.
Keep this equipment away from humidity.
If any of the following situations arise, have the equipment checked by a service technician immediately:

- The equipment has been exposed to moisture.
- The equipment has obvious signs of breakage.
- The equipment has not been working well or you cannot get it to function according to this manual.

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WEEE DIRECTIVE & PRODUCT DISPOSAL

At the end of its serviceable life, this product should not be treated as household or general waste. It should be handed over to the applicable collection point for the recycling of electrical equipment, or returned to the supplier for disposal.

INTRODUCTION

Take your dual system setup to the next level. Easily switch between work and home. Share keyboard, mouse, displays, wired networking and USB devices between two systems. Extend up to 3 displays, 4K @ 60Hz, (depending on the host device). Expand your laptop capabilities - add USB ports, charge your mobile devices and deliver up to 100W of power to each laptop through one convenient USB-C Cable.

FEATURES

- Compatible with USB-C systems
- Share and switch displays, keyboard, mouse and accessories between 2 systems
- USB-C Power Delivery up to 100W to each laptop
- USB-C Power Delivery mobile device charging up to 7.5W
- Supports up to 3 Displays, 2 via DisplayLink and 1 via DP Alt Mode
- Supports extended and mirrored modes
- USB 3.2 Gen 2 10Gbps USB-A / USB-C ports
- Gigabit Ethernet
- Standard Kensington Lock Support

CONTENTS

- VT4950 KVM Dock
- 230W Power Adapter
- (2) USB-C to USB-C Cable
- User Manual

SYSTEM REQUIREMENTS

Compatible Devices

System with USB-C port for two displays, system with USB-C port that supports DisplayPort over USB-C (DP Alt Mode) for 3 displays or MacBook with USB-C port that supports DisplayPort over USB-C for 3 displays.

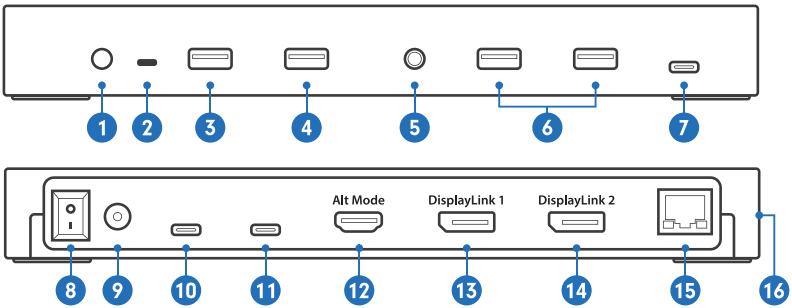
For USB-C charging, a system with a USB-C port that supports USB-C Power Delivery 3.0 is required

Operating System

Windows 11, 10, 8.1, 8, 7
macOS 10.12 or Later

*__Note__: Maximum resolution and number of extended displays is dependent on host system specifications.

DOCKING STATION PORTS



DOCKING STATION PORTS (Continued)

Port	Description
1. Display Mode Switch	Switch between KVM display modes
2. Power LED	Power LED indicator light
3. USB 2.0 Keyboard	Connect a USB-A keyboard
4. USB 2.0 Mouse	Connect a USB-A mouse
5. Audio Jack	Connect headphones, headset or other devices with 3.5mm connector
6. USB-A 3.1 Gen 2 Ports	Connect a USB-A device, supports 10Gbps transfer speeds, up to 7.5W charging
7. USB-A 3.1 Gen 2 Port	Connect a USB-C device, supports 10Gbps transfer speeds, up to 7.5W charging
8. Power Switch	Toggle docking station power On/Off
9. 20V DC Power Supply In	Connect the included 230W 20V/11.5A Power Supply
10. USB-C Host A Upstream Port	Connect to a laptop or PC, up to 10 Gbps to host, DP Alt Mode Video and USB-C Power Delivery charging up to 100W
11. USB-C Host B Upstream Port	Connect to a laptop or PC, up to 10 Gbps to host, DP Alt Mode Video and USB-C Power Delivery charging up to 100W
12. HDMI 2.0 Port (DP Alt Mode)	Display 1 - Connect a display with an HDMI port to stream video up to 4K@60Hz*
13. DP 1.2 Port (DisplayLink 1)	Display 2 - Connect a display with a DP port to stream video up to 4K@60Hz
14. DP 1.2 Port (DisplayLink 2)	Display 3 - Connect a display with a DP port to stream video up to 4K@60Hz
15. RJ45 Gigabit Ethernet	Connect a network router or modem at 10/100/1000 Mbps
16. Kensington Security Slot	Attach a standard Kensington Lock to secure docing station

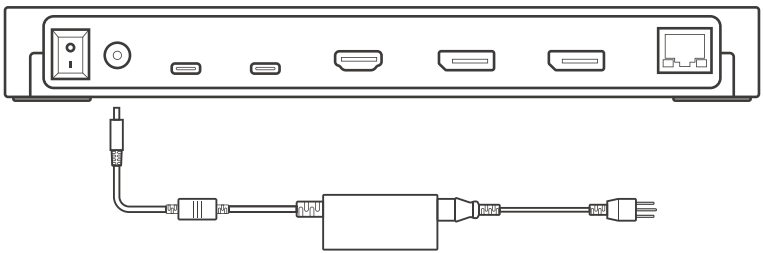
*__Note__: 4K @ 60Hz max single display resolution, maximum resolution dependent on host system specifications.

DOCKING STATION SETUP

Connecting Power

1. Plug the power adapter into the 20V DC Power In port on the back of the dock. Connect the other end into a power outlet.

Note: Power supply is required for dock operation.

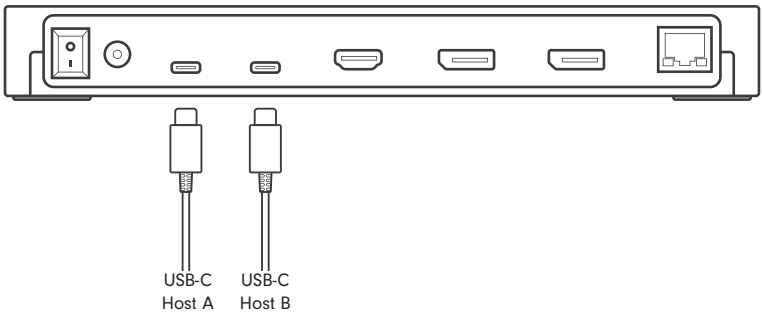


Connecting Systems

1. Connect the included USB-C cable to the USB-C Host A port on the back of the VT4950. Connect the other end to your host laptop, PC or Mac.

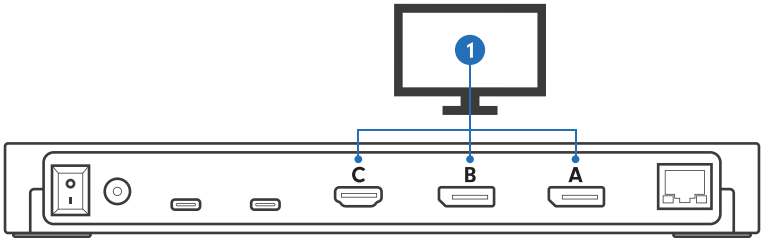
2. Connect the included USB-C cable to the USB-C Host B port on the back of the VT4950. Connect the other end to your host laptop, PC or Mac.

3. The VT4950 has high resolution DP and HDMI outputs. Resolutions up to 3840 x 2160 @ 60Hz are supported depending on monitors connected and the host system capabilities.



Single Display Setup

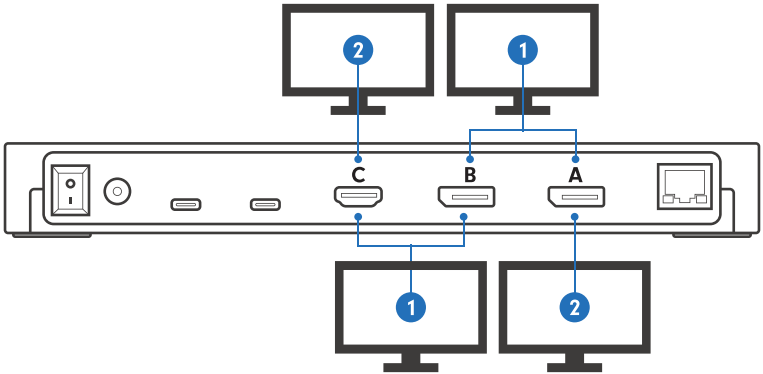
1. Connect your monitor to the Display A - DisplayPort, Display B - DisplayPort or Display C - HDMI.



Note: Display C HDMI outputs video via USB-C DP Alt Mode and will only output video when connected to a host system with this feature.

Dual Display Setup - Configuration 1

1. Connect display 1 to the **Display A or Display B** - DisplayPort
2. Connect display 2 to **Display C** - HDMI

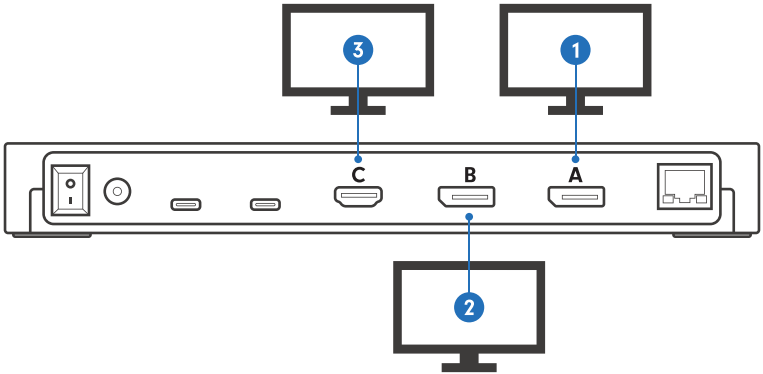


Dual Display Setup - Configuration 2

1. Connect display 1 to the **Display B** - DisplayPort or **Display C** - HDMI
2. Connect display 2 to **Display A** - DisplayPort

Triple Display Setup

1. Connect display 1 to **Display A** DisplayPort.
2. Connect display 2 to **Display B** DisplayPort.
3. Connect display 3 to **Display C** HDMI.



SUPPORTED RESOLUTIONS

SINGLE DISPLAY

Display Connection	DP (DisplayLink)	HDMI (DP Alt Mode)
Host System DP 1.2	3840 x 2160 @ 60Hz	3840 x 2160 @ 30Hz
Host System DP 1.4	3840 x 2160 @ 60Hz	3840 x 2160 @ 60Hz
macOS (Intel, M1, M2)	3840 x 2160 @ 60Hz	3840 x 2160 @ 60Hz

DUAL DISPLAY

Display Connection	DP (DisplayLink)	HDMI (DP Alt Mode)
Host System DP 1.2	3840 x 2160 @ 60Hz	3840 x 2160 @ 30Hz
Host System DP 1.4	3840 x 2160 @ 60Hz	3840 x 2160 @ 60Hz
macOS (Intel, M1, M2)	3840 x 2160 @ 60Hz	3840 x 2160 @ 60Hz

SUPPORTED RESOLUTIONS

TRIPLE DISPLAY

Display Connection	DP (DisplayLink)	HDMI (DP Alt Mode)
Host System DP 1.2	3840 x 2160 @ 60Hz	3840 x 2160 @ 30Hz
Host System DP 1.4	3840 x 2160 @ 60Hz	3840 x 2160 @ 60Hz
macOS (Intel, M1, M2)	3840 x 2160 @ 60Hz	3840 x 2160 @ 60Hz

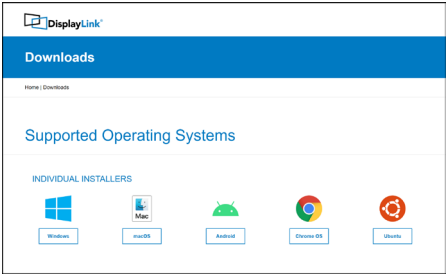
Note: In order to extend output video from the HDMI port the host system must support USB-C DP Alt Mode. The maximum supported resolution is dependent on the host system.

DRIVER INSTALLATION (Windows)

Windows Users - Downloading Drivers

1. Download and install the latest Displaylink software. Select the driver according to your operating system.

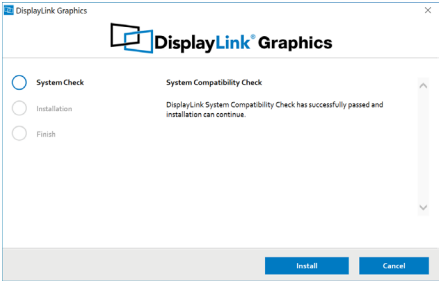
Please visit **displaylink.com/downloads** and download the latest drivers. Displaylink-provided drivers are always compatible with the USB Docking Station.



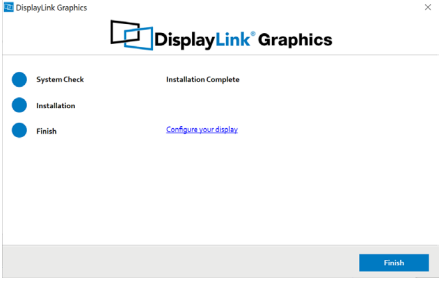
2. Select the downloaded file, double click to begin the DisplayLink software installer.

3. Once the installer begins a window will pop up and verify that your system is compatible with DisplayLink USB graphics.

4. Click “Install”

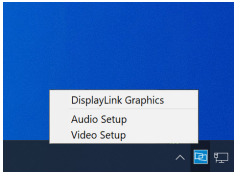


5. Once the “Finish” button appears the install is complete and your system will may need to reboot. If the option pops up click “Reboot” to finalize the driver installation.

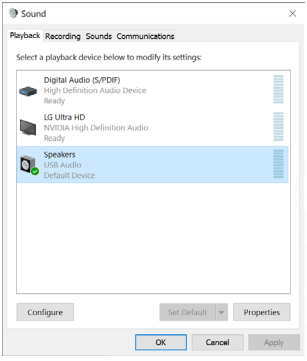


Windows 10 - Audio Setup

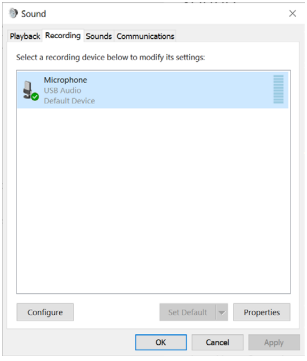
1. Click the DisplayLink "Icon" in the system tray located in the lower right corner. To set up audio, click "Audio Setup".



2. Under the Playback tab select "Speakers" USB Audio, click Apply.



3. Under the Recording tab select "Microphone" USB Audio, click Apply.

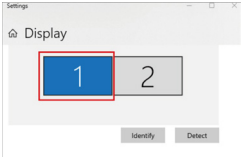


Windows 10 - Display Setup

1. Click the DisplayLink "Icon" in the system tray located in the lower right corner. To set up Video, click "Video Setup".

2. In "Display", select the desired display that you want to adjust.

3. Click and drag the selected display to your preferred arrangement.



4. Scroll down to "Multiple displays" and select the mode in the drop-down list that fits your needs.

5. To adjust resolution select "Advanced display settings".

KM LINK INSTALLATION (Windows)

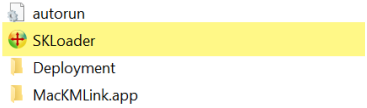
1. Connect the dock to both systems.

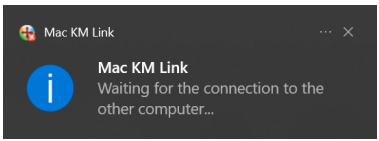
2. Install the KM Link Software. If AutoRun is enabled, a window will open and install the KM Link Application. If AutoRun is not enabled, navigate to the mounted CD drive and double-click on SKLoader.

3. A pop-up installation window will appear while the application is installing.

4. After installation is complete, a notification will appear in the bottom right corner of your desktop saying “Waiting for connection to the other computer...”

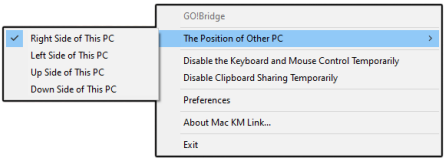
5. Repeat steps 2-4 on the second system connected to the VT4950.



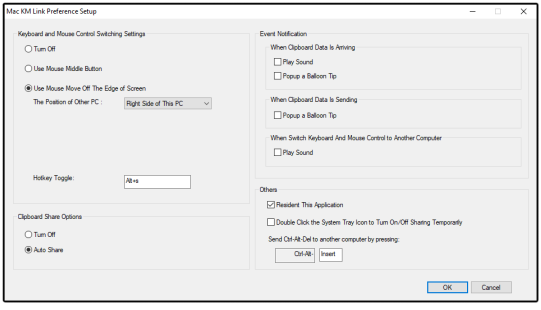


KM LINK SETUP (Windows)

1. Right click on the KM Link Icon in the System Tray to configure the PC layout.



2. Select Preferences to customize Keyboard and Mouse Control Switching, Clipboard Sharing, Notification and Hot Keys.



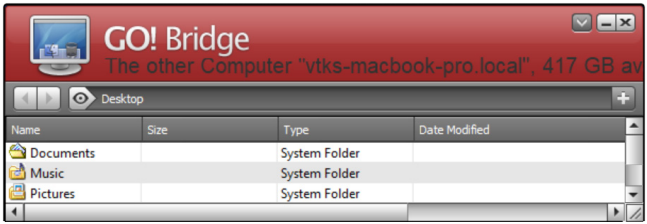
GO! Bridge (Windows)

1. Locate the KM Link Icon in the System Tray.

2. Right-click on the KM Link Icon.

3. From the pop-up menu, select GO! Bridge.

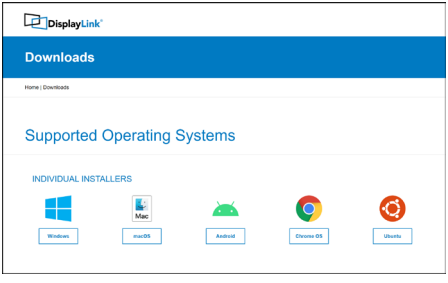
4. Once GO! Bridge is open, easily transfer files by dragging and dropping them from one system to the other.



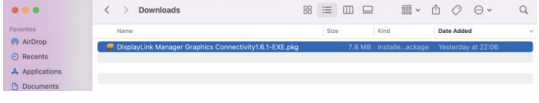
macOS Users - Downloading Drivers

1. Download and install the latest Displaylink software. Select the driver according to your operating system.

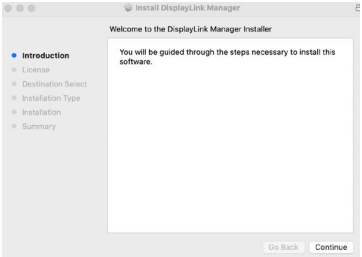
Please visit **displaylink.com/downloads** and download the latest drivers. Displaylink-provided drivers are always compatible with the USB Docking Station.



2. Select the downloaded file, double click to begin the DisplayLink software installer.

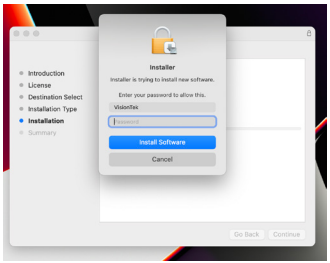


3. Click “Continue” to start the installation process.

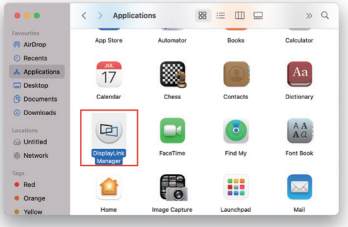


4. You may be prompted to input your account password, click “Install Software”

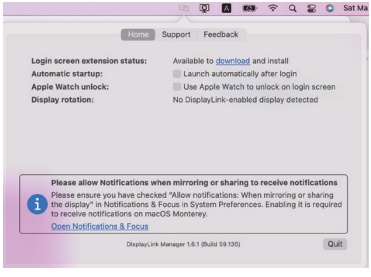
5. After installation is complete restart your system. Your dock should now be working. If not, make sure the Displaylink Manager application is running by entering “Displaylink” into the finder and running the DisplayLink application.



6. Navigate to **Applications**, then open **DisplayLink Manager**.

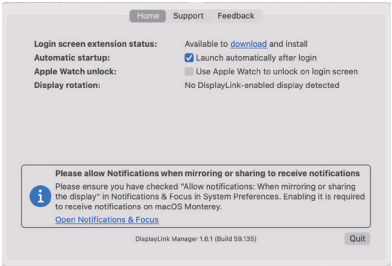


7. Click the **DisplayLink Manager** application icon in the notification area to open the application window. This confirms that the DisplayLink software is installed and running properly.



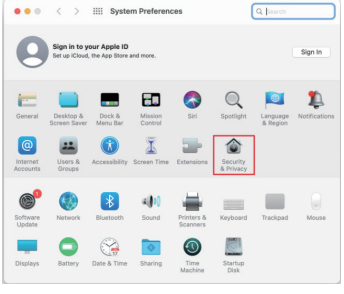
Enable Automatic Launch

1. Select "**Launch automatically after login**" for the **DisplayLink Manager** software to start automatically every time you login.



Enable Screen Recording

2. For display output using DisplayLink technology, Screen Recording may need to be enabled. Navigate to **System Preferences** and select **Security & Privacy**.

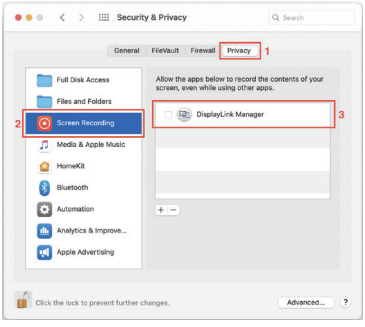


3. Enable "**Screen Recording**" to allow DisplayLink Manager to capture video data and transmit it over USB to your displays.

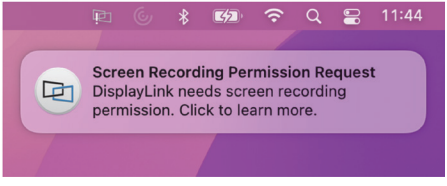
3.1. Select the "**Privacy**" tab.

3.2. Navigate to "**Screen Recording**" in the list on the left.

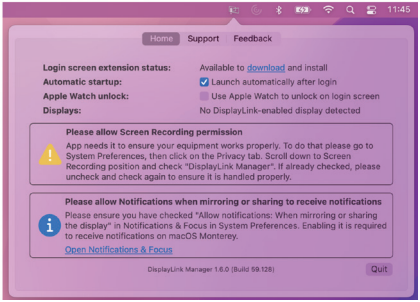
3.3. Tick the "**Screen Recording**" permission for DisplayLink Manager on the right.



4. If **DisplayLink Manger** notifications are enabled it will remind you to allow screen recording when it detects this permission is not enabled.



5. This notification will also appear in the **DisplayLink Manager** window.

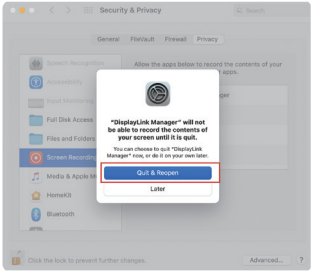


6. The permissions will take effect the net time you launch the DisplayLink Manager app. Select "**Quit & Reopen**" to restart the app.

Note: In Catalina 10.15.x select "**Sign Out Now**"

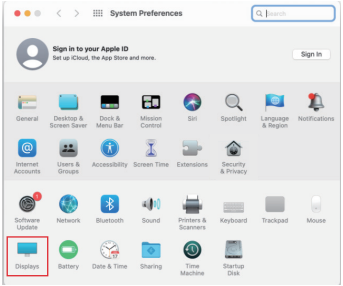
7. Reopen the **DisplayLink Manager** from the application **Finder**. In macOS Big Sur or later the application will automatically restart.

8. DisplayLink Setup should now be complete and working properly.

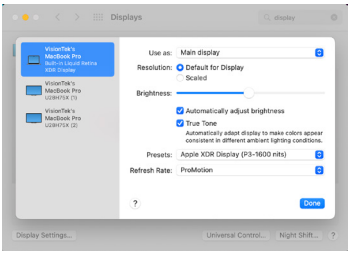


DISPLAY SETTINGS (macOS)

When a new display is connected to your Mac, it will default to being extended to the right of the main display. To configure the settings for each of your displays, select "**Displays**" from the "**System Preferences**" menu. This will open the "**Display Preferences**" window on each of your displays allowing you to configure each.



Display Preferences:
Display Resolutions
Rotating a Display
Display Positions
Display to Mirror mode
Display to Extend
Using both extended and mirrored displays
Changing the main display

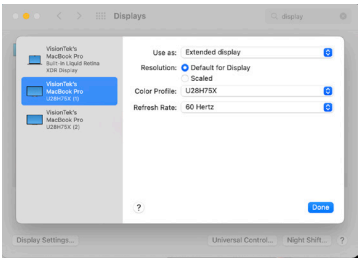


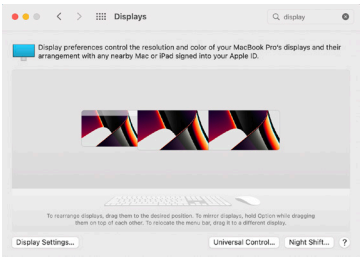
DISPLAY SETTINGS (macOS Continued)

1. To arrange displays and configure mirrored or extended displays click on the arrangement tab.

2. To move a display, click and drag the display in the arrangements window.

3. To change primary display, click on the small bar on top of the main monitor and drag it onto the monitor you want to be the primary.

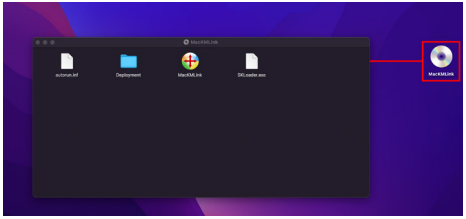


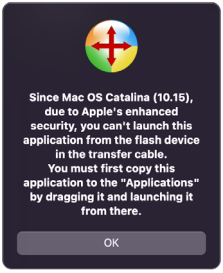


KM LINK INSTALLATION (macOS)

1. Connect both systems to the dock.

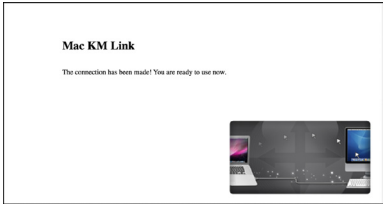
2. The dock wil appear as a CD drive.



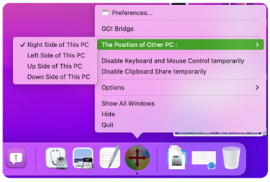


3. Install the KM Link Software by draging the MacKMLink file to your desktop, then run the application.

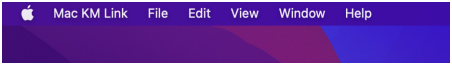
4. After installation is complete, a notification will appear confirming the successful connection between systems.

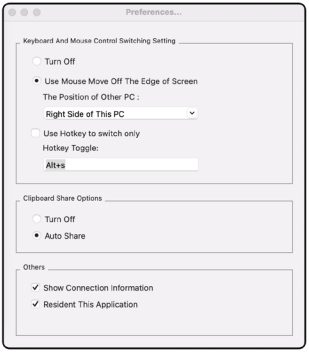


1. Click on the Mac KM Link App on the macOS Dock bar for configuration options.



2. To configure preferences, select preferences by clicking on the Mac KM Link app or selecting the Mac KM Link from the Menu Bar.

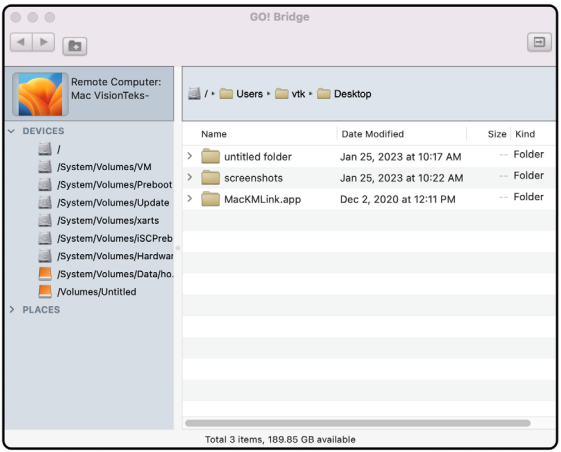




GO! Bridge (macOS)

1. From the Mac KM Link App select GO! Bridge.

2. Once GO! Bridge is open, easily transfer files by dragging and dropping them from one system to the other.



Q1. Why doesn't my third monitor display when I set the triple display mode?

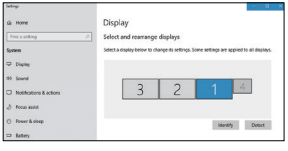
A1. Step 1: Verify that your laptop supports DP alt mode over USB-C.

Step 2: Selecting the main display.

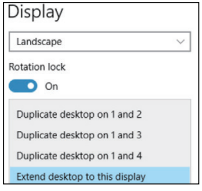
1. Right-click on your desktop and select "Display Settings".

2. Click "Identify" to determine which display is not extended

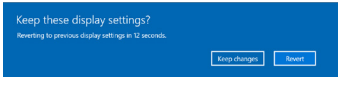
3. Choose the display that needs to be extended from the display layout and scroll down to "Multiple displays".



4. Select "Extend desktop to this display".



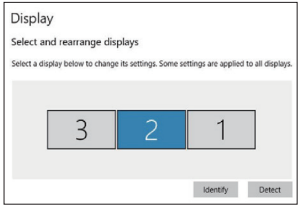
5. The third display should now be extended, a popup window will prompt to keep changes.



Q2. Why are my 2K and 4K monitors displaying abnormally when I enable dual or triple display mode?

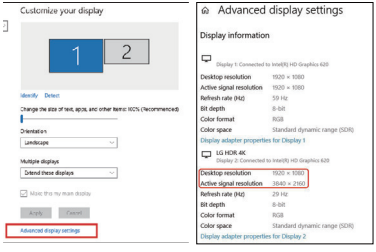
A2. The resolution of some monitors may not adjust automatically and the “Active signal resolution” from the Windows setting “Display resolution” may not match. Make sure to set the resolution to the same value for best results.

1. Right-click on the Desktop and select “Display Settings”.

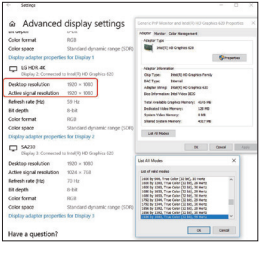


2. Select your monitor from the “Display” section and click on it. Scroll down and select “Advanced display settings”.

3. Make sure that the resolution values for each monitor on “Desktop resolution” and “Active signal resolution” match.



4. Click on “Display adapter properties for Display 2” and lower the resolution to the right value if the two values are different.



Q3. Why can't I get the KVM software to download on my Macbook?

A3: While both systems are connected to the docking station, the VT4950 should be detected as a removable drive. Open up the folder and drag the KVM application to your desktop. from there, double click and run the application.

Q4. Why is the positioning of my computers flipped?

A4: On each computer, open up the quick options and navigate to "The position of the other PC". From there, you can dictate where each laptop is in relation to the one you are using. You will also need to do this with the other system as well.

Q5: How do I change the Host/Slave system configuration?

A5: In order to change the configuration, you will need to press the switch button located on the front of the docking station.

Q6. Why does it show "slow charging" on my laptop?

A6. Some users may notice that charging status shows "slow charging", this might happen for the following reasons:

- The charger isn't powerful enough to charge your PC. This usually occurs if the power supply of your system is greater than 100W.
- The charger isn't connected to the charging port on your PC. Check your systems documentation. Some laptops only support USB-C Power Delivery from dedicated ports.
- The charging cable doesn't meet the power requirements for the charger or PC. Make sure to use the 100W certified USB-C cable that is included with your dock.

NOTICE

FCC Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Warning: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Warning: Where shielded interface cables or accessories have been provided with the product or specified additional components or accessories elsewhere defined to be used with the installation of the product, they must be used in order to ensure compliance with FCC. Changes or modification to product not expressly approved by VisionTek Products, LLC could void your right to use or operate your product by the FCC.

IC Statement: CAN ICES-003 (b) / NMB -003 (B)

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

WARRANTY

VisionTek Products LLC, ("VisionTek") is pleased to warrant to the original purchaser ("Warrantee") of the Device ("Product"), that the product will be free from manufacturing defects in material for Three (3) Years when given normal and proper usage. The product must be registered within 30 days from the original date of purchase to receive this 3 year warranty. All products not registered within 30 days will ONLY receive a 1 year limited warranty.

VisionTek's liability under this warranty, or in connection with any other claim relating to the product, is limited to the repair or replacement, at VisionTek's option, of the product or portion of the product which is defective in manufacturing material. Warrantee assumes all risk of loss in transit. The returned products shall be the sole property of VisionTek. VisionTek warrants the repaired or replaced products will be free from manufacturing defects in material for the remainder of the warranty period.

VisionTek reserves the right to inspect and verify the defectiveness of any products or portion of product returned. This warranty does not apply to any software component.

FULL WARRANTY DISCLOSURE AVAILABLE AT WWW.VISIONTEK.COM

Product must be registered within 30 days of purchase for warranty to be valid.
IF YOU HAVE QUESTIONS OR NEED ASSISTANCE WITH THIS PRODUCT,

CALL SUPPORT AT 1 (866) 883-5411.

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