



Use up to
2x 1600p Monitors
from a single Type C output

CSV-1545 MANUAL



SenseVision MST Hub USB Type C to DisplayPort™ 1.2 dual monitor

- ✔ Compatible with Thunderbolt over Type C source
- ✔ Compliant to DisplayPort™ 1.2a Spec, total HBR2 bandwidth 21.6Gbps
- ✔ Supports Type C ALT mode 4 lanes
- ✔ Supported output resolutions :
 - up to 3840x2160p @ 60Hz for Single Monitor
 - up to 2560X1600p @ 60Hz for Dual Monitors
- ✔ Supports AMD Eyefinity™ (SLS) and Duplicate/ Extend Desktop mode
- ✔ Supports 3D Video output
- ✔ Supports AMD, Nvidia and Intel Graphics solution



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Introduction

Displays have always been a key part of the PC experience. PC Gamers want a more immersive experience and Professionals seek more desktop space to run apps side by side and increase their productivity. The easiest solution is to add multiple Monitors to an existing Laptop or Desktop PC. The SenseVision MST Hub USB Type C to DisplayPort™ 1.2 Dual Monitor is an invaluable tool for gaming, multitasking, or simply for the fun of it. The adapter actively converts the process video signal using displayport over Type C for a fast plug-and-play setup.

This product enables two Displays to be driven independently from a single Type C output with Displayport Alt Mode support from the source device. (Functionality is also dependant on the capability if the source device.)



Use up to **2x 1600p Monitors**
from a single Type C output

Package contents

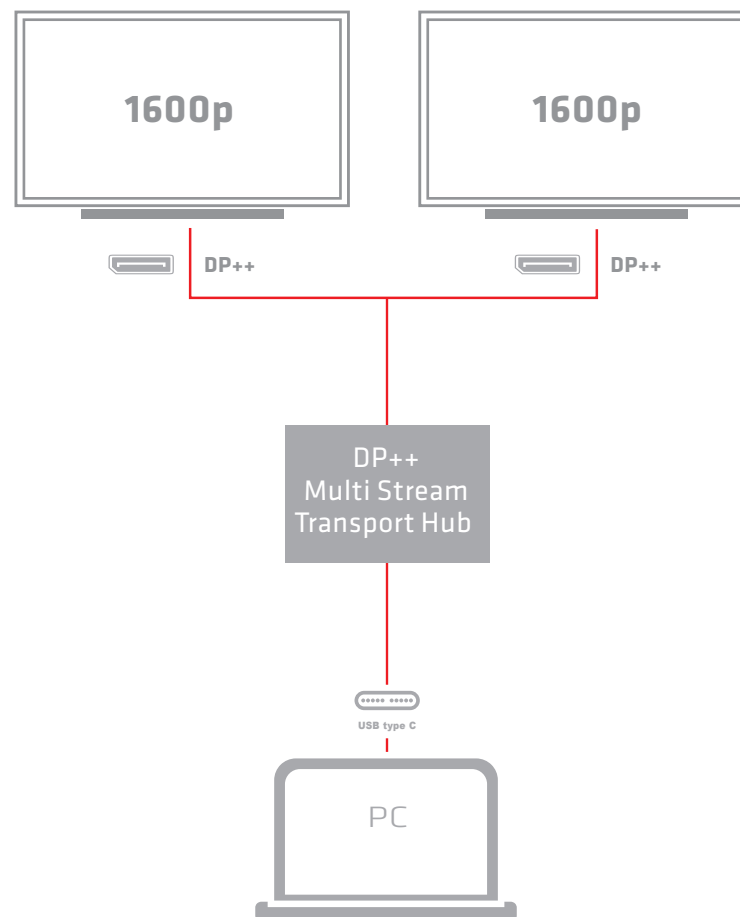
Before installation, check the items in the package. The package should contain the following items:

- MST Hub USB Type C to DisplayPort™ 1.2 Dual Monitor
- Quick install guide

Features

- Compatible with Thunderbolt over Type C source
- Supported output resolutions :
up to 3840x2160p @ 60Hz for Single Monitor
up to 2560x1600p @ 60Hz for Dual Monitors
- Supports Type C ALT mode 4 lanes
- Compliant with DisplayPort™ 1.2a for 1.62Gbps, 2.7Gbps or 5.4Gbps per lane
- Support for 6 / 8 / 10 / 12 bit color depth
- Support for HDCP 1.3 content protection
- Advanced WideEye SerDes technology capable of receiving data over long cables.
- Supports AMD Eyefinity™ (SLS) and Duplicate/ Extend Desktop mode
- Supports both MST- and SST Mode.
- Supports AMD, Nvidia and Intel Graphics solutions
- Powered thru USB Type C (5.0V @ 220mA max), no external power needed

Application diagram



Resolutions / Refresh Rate

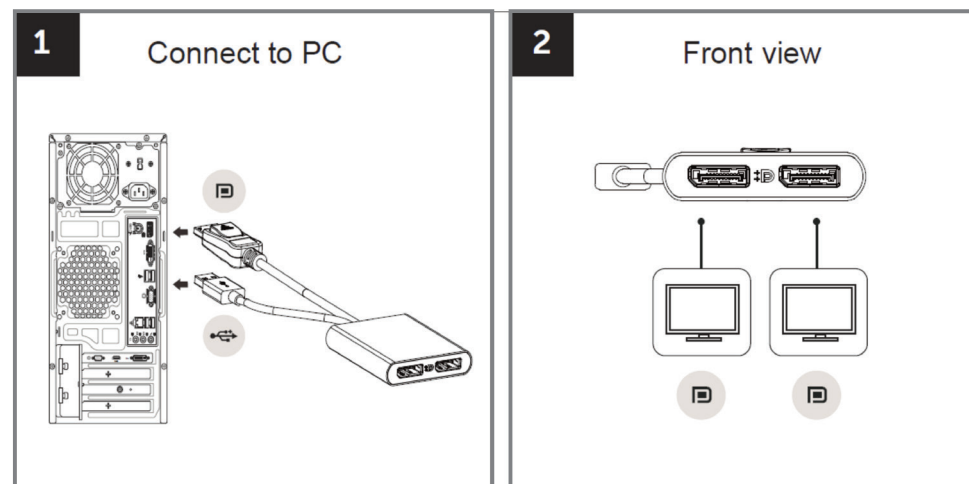
Display Mode	DP 1.2 output port 1	DP 1.2 output port 2
Single	3840x2160@60H, 24bpp	Not connected
Single	Not Connected	3840x2160@60H, 24bpp
Dual	2560x1600@60Hz, 24bpp	2560x1600@60Hz, 24bpp

Recommended system requirements

The DP Multi-Stream Hub requires the following:
Computer that supports DisplayPort™ 1.2 with multi-stream support*

- Microsoft Windows:
 - Windows 7 SP1 (32-bit or 64-bit editions)
 - Windows 8 (32-bit or 64-bit editions)
- *Use of the DP Multi-Stream Hub with a computer that does not meet this specification is not supported.

Quick start guide



*The Reset key only use when the PC does not recognize the HUB device.

Troubleshooting

Here are the steps to solve possible problems.

Scenario: No video on any downstream monitor connected:

1. Check the LED to make sure the hub has power. Use only the power adapter that was provided with the hub.
2. Check that each downstream monitor is powered on.
3. Check the DisplayPort™ cable to be sure it is connected to the computer and hub.
Use only the DisplayPort™ cable that was provided with the hub for the connection to the computer.
4. Check the computer or graphics card user manual to confirm that DisplayPort™ 1.2 and a multi-stream video signal are supported.
5. Check the Windows Display Control Panel to confirm that the downstream monitors attached to the hub have been detected and enabled.

Scenario: No video on some downstream monitors connected:

1. The hub can support up to two monitors at 1920 x 1080 resolution or two monitors at 2560 x 1600 resolution. **NOTE:** Playing audio over the DisplayPort™ connection will reduce the number of monitors the hub can support.
2. Check the DisplayPort™ cable to be sure it is connected to the hub and monitor.
Use only the DisplayPort™ cable that was provided with the monitor for the hub connection.
3. If the monitor is a DVI or VGA monitor, check the DisplayPort™ cable to be sure it is connected to the hub. Check the other end of the cable to make sure the DisplayPort-to-DVI or DisplayPort-to-VGA adapter is properly connected to the DisplayPort™ cable and to the monitor.
4. If the monitor is a DVI or VGA monitor and the cable and adapter are properly attached, test the monitor, cable, and adapter with another computer.
5. Check the computer or graphics card user manual to confirm the number of multi-stream video signals that are supported and the maximum resolution.
6. Check the Windows Display Control Panel to confirm that the downstream monitors attached to the hub have all been detected and enabled.
7. Check the monitor with no video to confirm the DisplayPort™ input has been selected.

Scenario: Same image appears on all downstream ports:

1. Check the computer or graphics card user manual to confirm that DisplayPort™ 1.2 and a multi-stream video signal is supported on the latest version available to enable the multi-stream functionality.

Regulatory information

DisplayPort™ Multi-Stream 1-2 Hub complies with the FCC/CE rules and abides by worldwide regulatory compliance, engineering, and environmental affairs.

