



Use up to
3x Full HD
Monitors
from a single DisplayPort™ 1.2 output

CSV-5300A MANUAL



Multi Stream Transport (MST) Hub DisplayPort™ 1.2 Triple Monitor

- ✓ Advanced DisplayPort™ 1.2 to 3x DisplayPort™ Splitter for Triple Monitor setup with Audio
- ✓ Compliant to DisplayPort™ 1.2a Specification, total HBR2 bandwidth 21.6Gbps
- ✓ Supports Dual Mode DisplayPort™ (DP++)
- ✓ Supports up to 3x FHD 1080p, 2x WQXGA 1600p or 1x UHD 2160p Monitors
- ✓ Supports AMD Eyefinity™ (SLS) and Duplicate/ Extend Desktop mode
- ✓ Supports 3D Video output
- ✓ Supports AMD, Nvidia and Intel Graphics solutions
- ✓ Including Mini DP to DP Adapter for maximum compatibility



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Introduction

Display devices 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 DisplayPort™ 1.2 Triple Monitor utilizes Multi Stream Transport, a unique DisplayPort™ 1.2 feature, to split a single DP 1.2 signal into three DisplayPort™ outputs. This enables Three Full HD Displays to be driven independently from one DisplayPort™ 1.2 output on the source device. With multiple Monitors, games become more immersive, workstations become more useful and you become more productive.



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 from a single DisplayPort™ 1.2 output



Package contents

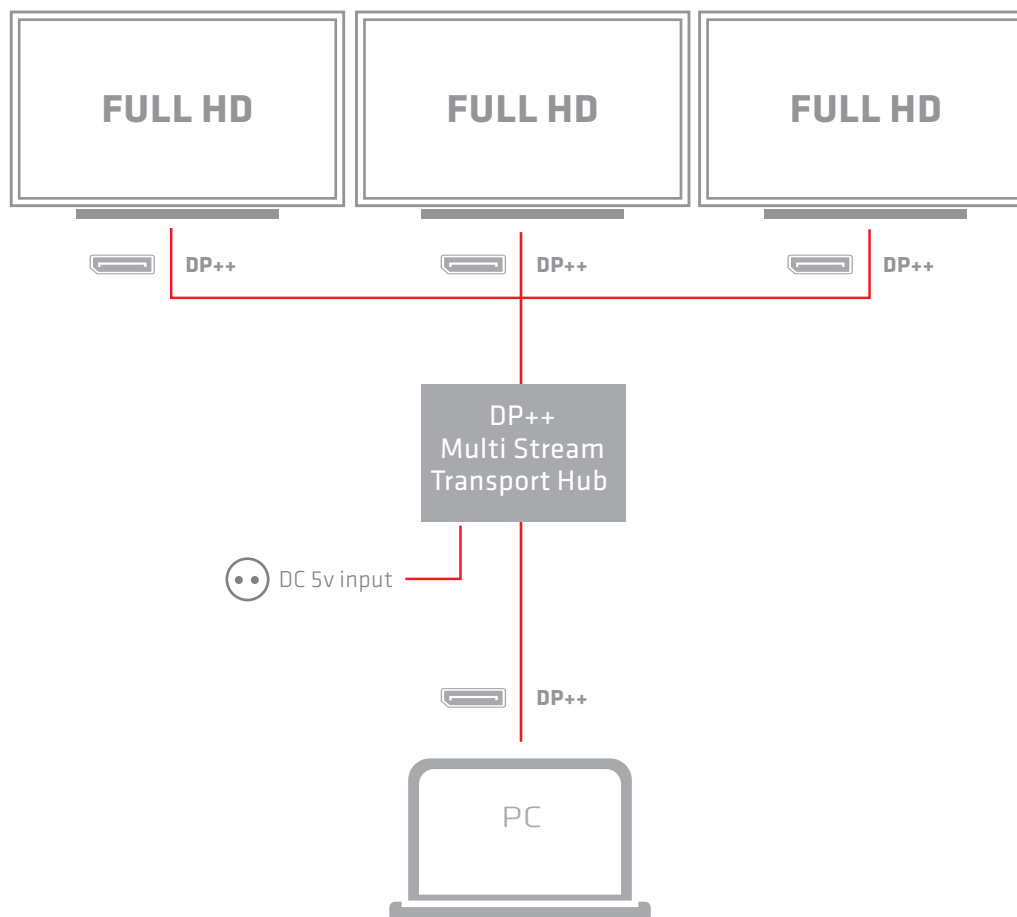
Before installation, check the items in the package. The package should contain the following items:

- Multi Stream Transport (MST) Hub DisplayPort™ 1.2 Triple Monitor
- CAC-1110 Mini DisplayPort™ to DisplayPort™ Adapter
- Power Supply 2.5 Watt (5V 0.5 Amp)
- Quick install guide

Features

- Compliant with: DisplayPort™ v1.2a DisplayPort™ v1.1a VESA DDM Standard HDCP V2.0, DisplayID and EDID V1.4 Standard
- Supports main link rates of 5.4Gbps (HBR2), 2.7Gbps (HBR) and (1.62Gbps RBR) from source
- Supports Dual Mode DisplayPort™ (DP++) x 3 which allows the use of DVI or HDMI™ Monitors via passive Adapters
- Supported output resolutions: up to 3840x2160p @ 60Hz for Single Monitor, up to 2560x1600p @ 60Hz for Dual Monitors and up to 1920x1080p @ 60 for Three Monitors
- Input pixel data depth 6/8/10/12 bits and supports output pixel format RGB444
- Supports Adaptive Sync technology and AMD Eyefinity
- Including Mini DisplayPort™ to DisplayPort™ adapter for max compatibility (with Intel NUC, MS Surface Pro & other platforms)
- Works with AMD, Nvidia and Intel Graphics solutions
- Works with Windows 10, 8.1 and 7
- Functionality may vary per GPU and OS

Application diagram



Resolutions / Refresh Rate

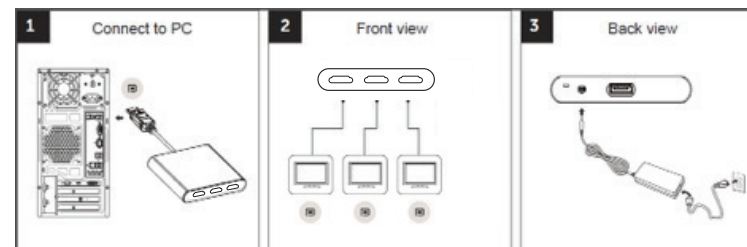
Display Mode	DP 1.2 output port 1	DP 1.2 output port 2	DP 1.2 output port 3
Single	3840x2160@60Hz, 24bpp	Not connected	Not connected
Single	Not connected	3840x2160@60Hz, 24bpp	Not connected
Single	Not connected	Not connected	3840x2160@60Hz, 24bpp
Dual	2560x1600@60Hz, 24bpp	2560x1600@60Hz, 24bpp	Not connected
Dual	Not connected	2560x1600@60Hz, 24bpp	2560x1600@60Hz, 24bpp
Dual	2560x1600@60Hz, 24bpp	Not connected	2560x1600@60Hz, 24bpp
Triple	1920x1080@60Hz, 24bpp	2560x1600@60Hz, 24bpp	1920x1080@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



*Use the scan button only when the PC does not recognize the MST Hub

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 three 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 Display Port-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 are supported.
2. Check the Windows Display Control Panel to confirm that all downstream monitors are set for extended mode.
3. Update the video driver to the latest version available to enable the multi-stream functionality.

Regulatory information

DisplayPort™ Multi-Stream 1-3 Hub complies with the FCC/CE rules

