2-Port DisplayPort Switch

User's Manual

DP-201R

Introduction

The 2-Port DisplayPort Switch can display live audio and video contents on single monitor from 2 DisplayPort output sources. It is backward compatible to either HDMI or DVI, and can be well adapted to accommodate these older technologies with appropriate adapter cables. The 2-Port DisplayPort Switch is robust and durable with remarkable Aluminum housing. IR Remote Control is an optional add-on for switching and power on/off. Users can switch among 2 different DisplayPort output sources with ease by push button; or IR remote control at hand, so it is very flexible in controlling over video contents on display.

Features

- Compliant with DisplayPort 1.2.
- Supports DP++ Dual Mode, HDCP 2.2 & DPCP.
- Routing any DisplayPort source from among two different DisplayPort to one monitor with sound support.
- Supports memory function and enables to retrieve the previous port while restarting the unit.
- Supports DisplayPort Resolution up to 4k2k @60Hz.
- Supports audio 7.1 Ch up to 192 kHz sample rate.
- Enable switching and power on/off by IR remote control or push button

Specifications

| Model No.		DP-201R
Connectors	Input	DisplayPort 20 Pin x 2
	Output	DisplayPort 20 Pin x 1
Frequency Bandwidth		21.6Gbps (4 lanes at 5.4Gbps)
Video Resolution		4K2K @ 60Hz
LED		2
Push Button		1
IR remote control		Yes
Power Supply		5VDC 1A
Cable Ext.length based on 4K@60Hz	Input	1m
	Output	3m
Housing		Aluminum
Dimension (L x W x H)		90 x 73 x 31mm

Package Contents

1. 2-Port DisplayPort Switch
2. IR remote control
3. 5VDC Power adapter
4. Rack mountable screws

Physical Diagram

Top view

Front view

Host port (DisplayPort 20-pin)

IR sensor

Side view

Host 1 LED (Orange)   Host 2 LED (Orange)

Rear view

Output port
(DisplayPort 20-pin)

Power port (DC5V)

Port Select button
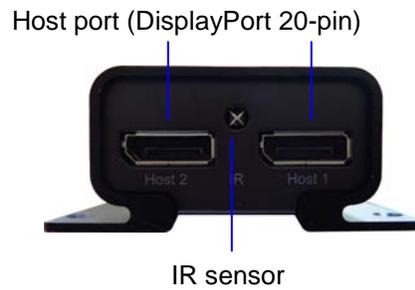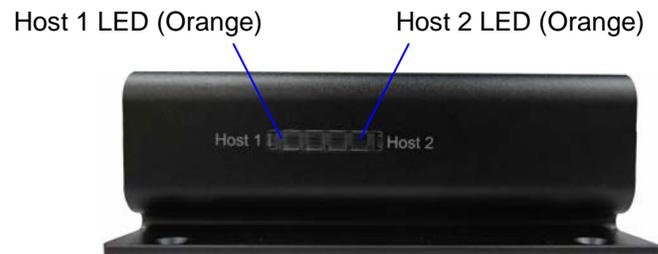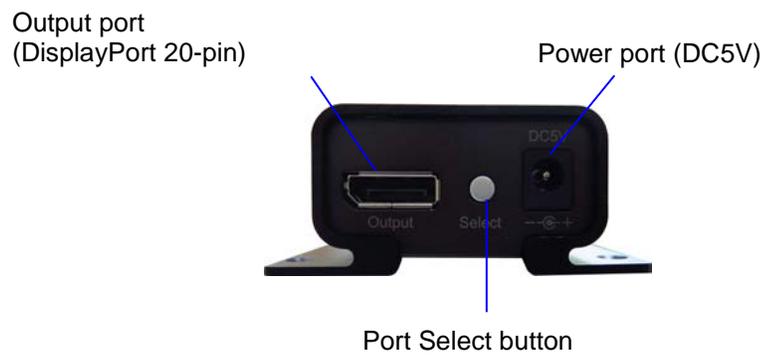
Connecting
Typical Application

Host 2 LED (Orange)

Display device

Port Select button

DisplayPort cable

DisplayPort cable

DisplayPort sources

DisplayPort cable

IR remote control

Host 1 LED (Orange)
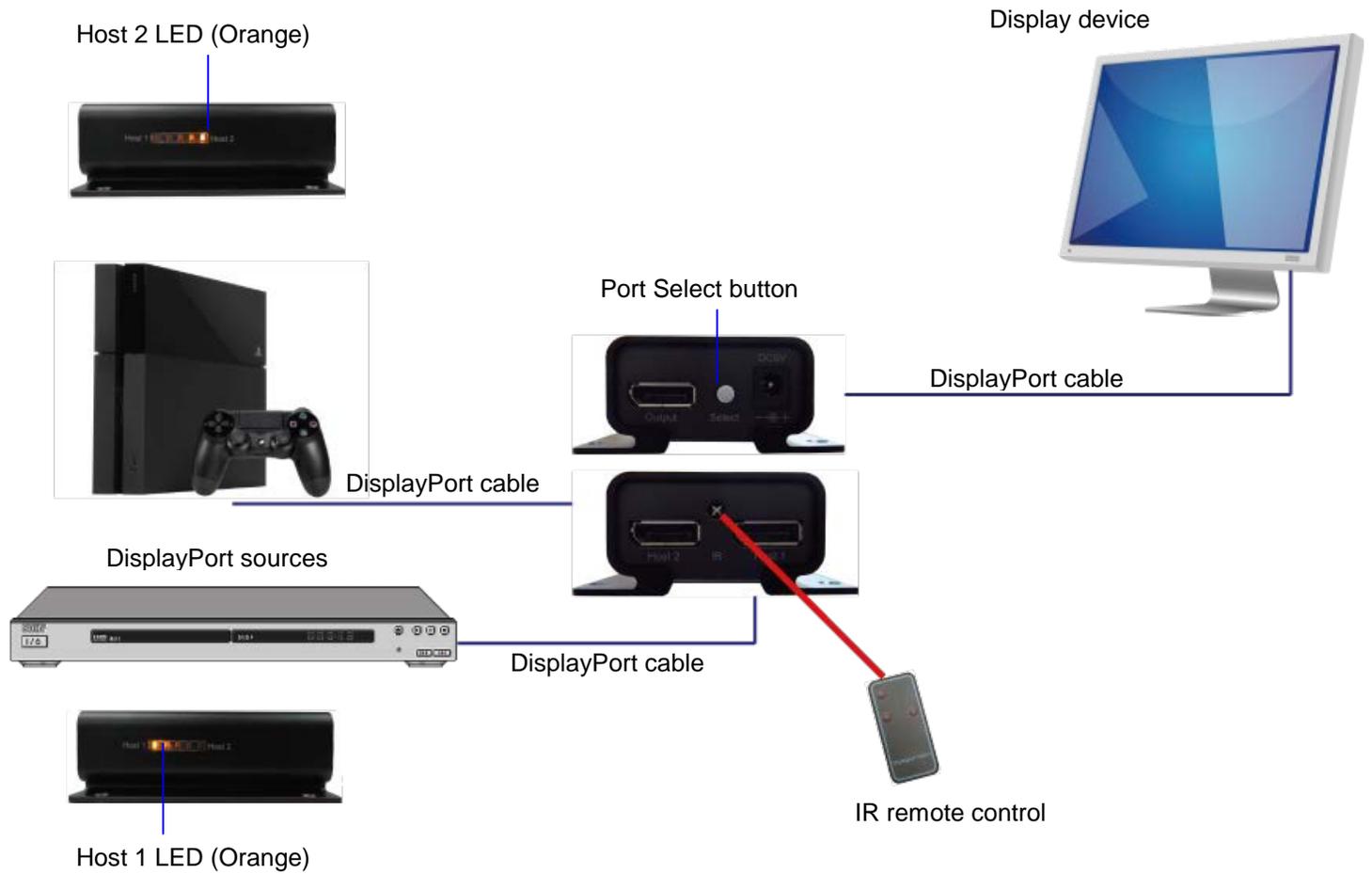
Fig. 1 The 2-Port DisplayPort switch is installed between the DisplayPort sources and a connected DisplayPort monitor.

Fig. 2 The 2-Port DisplayPort switch can be installed with a DisplayPort to HDMI / DVI / VGA converter to connect a HDMI / DVI / VGA monitor.

Installation

1. Connect the video sources to the Host ports on the DisplayPort switch using a DisplayPort cable.
Note: It's recommended that the distance between the source and DisplayPort switch be no greater than 16 ft. (5m) at resolution up to 2560 x 1600. Distances up to 3 ft. (1m) could be achievable on 4K@60Hz.

2. Connect the provided external power supply to the DisplayPort switch.

3. Connect a monitor to the Output port on the DisplayPort switch using a DisplayPort cable.
Note: When displaying video resolutions is configured to 4K UHD, 3840 x 2160 @ 60Hz, the distance between the DisplayPort switch and the monitor should be limited in 10 ft. (3m). Or to be limited in 50 ft (15m) at resolution up to 2500 x 1600.

4. Turn on the power to the video sources and connected monitor. Push the Select button or the power button of the IR remote control, the Host 1 LED will illuminate (default setting) to indicate that video signal of Host 1 is being received and video will appear on the connected monitor.

5. Use your video cards display settings screen to make adjustments to the way video is displayed on the connected monitors.
Note: The DisplayPort switch is backward compatible with most DisplayPort 1.2 equipment running current graphics drivers, with the feature set being limited to that of your equipment (e.g. you may be limited to displaying in Clone / Mirror mode only). Compatibility with older graphics cards is not guaranteed.

Added Info
Select button:
1. At the first installation, push Select button indicates the unit turns on, and Host 1 signal is being received; video appears on the display device.
2. And repeat pushing Select button indicates the video signal switches to either Host 2 or Host 1.
3. Pushing Select button in 3 seconds, the DisplayPort switch will set by sleeping mode; and the Host LEDs will light off. To push Select button again, it will retrieve the previous port while restarting the unit.
4. The working memory will be terminated while the unit's power plug is disconnected.

Description of IR remote control

Power On/Off button

Host 1 button   Host 2 button

Displayport Switch
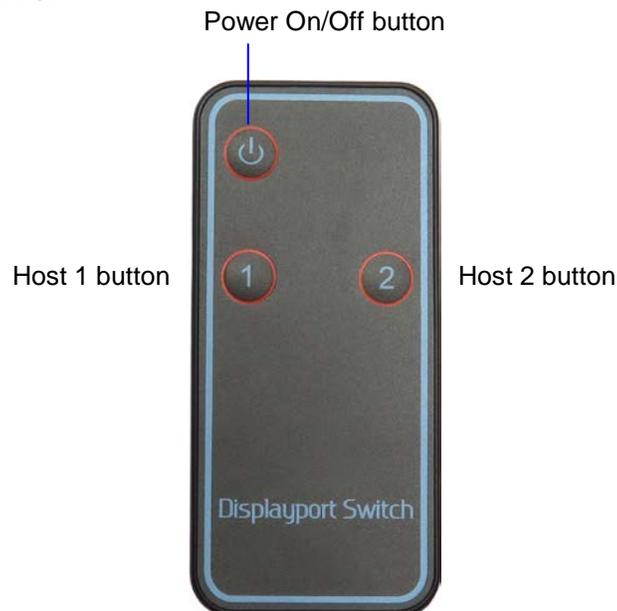
Troubleshooting

If you are unable to get an acceptable image after following the installation instructions, try the troubleshooting tips below.

1. Is your equipment running the latest graphics driver? If not, download the latest graphics drivers for your equipment. Backward compatible with most DisplayPort 1.2 equipment running current graphics drivers, with the feature set being limited to that of your equipment (e.g. you may be limited to displaying in Clone / Mirror mode only). Compatibility with older graphics cards is not guaranteed.

2. Is the external power supply that came with the product connected and plugged into a working power source? For the product to function properly, it must be connected to and receiving power from the external power supply.

3. Were the power to the DisplayPort sources turned off prior to installation? If not, restart your computer/video sources.

4. What resolution are you trying to reach? The DisplayPort switch is tested to support video resolutions up to 4K UHD, 3840 x 2160 @ 60Hz. If you are not able to get an acceptable image, try lowering your computer's video resolution or adjusting the refresh rate.

5. What length cables are you using? The maximum cable lengths that can be used between the sources and the DisplayPort switch; and between the DisplayPort switch and the monitor, is limited in the Installation section of this manual.

6. What type of cabling are you using? Inferior cabling can result in poor performance, so it is important that you use cables that can support the video resolution you are trying to obtain.

7. Test your cables to ensure they are working properly. For example, connect your DisplayPort cables between a source and monitor that you know works to see if the cable is functioning.

Regulatory Compliance

Disclaimer

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CE Certification

This equipment complies with the requirements relating to electromagnetic compatibility.
It has been manufactured under the scope of RoHS compliance.

FCC Compliance Statement

This equipment generates and uses radio frequency and may cause interference to radio and television reception if not installed and used properly. This equipment has been tested and found to comply with the limits of 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.

You are cautioned that changes or modification not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

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

WEEE (Waste of Electrical and Electronic Equipment), Recycling of Electronic Products

In 2006 the European Union introduced regulations (WEEE) for the collection and recycling of all waste electrical and electronic equipment. It is no longer allowable to simply throw away electrical and electronic equipment. Instead, these products must enter the recycling process.

Each individual EU member state has implemented the WEEE regulations into national law in slightly different ways. Please follow your national law when you want to dispose or any electrical or electronic products. More details can be obtained from your national WEEE recycling agency.