

# Owner's Manual

## DisplayPort v1.2 to HDMI Multi-Stream Transport (MST) Hub

Models: B156-002-HDMI, B156-004-HD

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## Product Features

- Display the same image on both monitors, extend the desktop across them, or display in video wall mode where both monitors are combined to display as one, enlarged monitor.\*
- DisplayPort v1.2 compliant\*
- Supports 4K x 2K Ultra High Definition (UHD) video resolutions up to 3840 x 2160 (24 and 30 Hz) – see System Requirements
- Supports up to 48-bit Deep Color (16 bits per channel)
- Supports DTS-HD, Dolby True HD and 7.1 channel surround sound audio
- Supports HDCP, EDID and DDC
- Locate a monitor up to 35 ft. from the hub
- Comes with mounting hardware that allows the unit to be wall-mounted, rackmounted or pole mounted
- Compliant with the Federal Trade Agreements Act (TAA) for GSA Schedule purchases

\* *Backward compatible with most DisplayPort 1.1a 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.*

## System Requirements

- A computer with a DisplayPort v1.2 compatible Graphics Card. Backward compatible with most DisplayPort 1.1a 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.
- Maximum supported video resolutions and number of monitors will be dependent upon your graphics card. Check the specifications of your graphics card to determine its capabilities.
- The B156-002-HDMI will allow for video resolutions up to 3840 x 2160 (4K) to be displayed on each monitor, whereas the B156-004-HD only supports video resolutions up to 1920 x 1080 (1080p) on each port. When using the B156-004-HD to display all four monitors in video wall mode, expanded video resolutions are supported, such as 3840 x 2160 in a 2X2 monitor configuration, or 7680 x 1080 in a 4X1 monitor configuration.
- A monitor with a HDMI port.

## Package Contents

- B156-002-HDMI or B156-004-HD
- Mounting Hardware
- External Power Supply (Input: 100-240V, 50/60 Hz, 0.5A; Output: 5V, 2A)
- Owner's Manual

### Optional Accessories:

- P568-Series High Speed HDMI Cables
- P580-Series DisplayPort Cables
- P583-Series Mini DisplayPort to DisplayPort Cables

## Mounting Instructions

The B156-002-HDMI and B156-004-HD come with mounting hardware that allow them to be mounted in a variety of ways. The following images show the different ways the included mounting brackets can be attached for different mounting methods.

**Note:** The images below show a B140-1A0, but the mounting hardware installation is the same for the B156-002-HDMI and B156-004-HD.

### Wall-mount



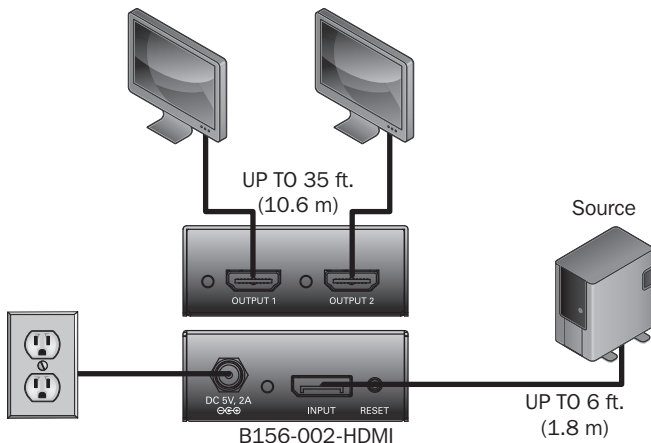
19" Rackmount



Pole Mount



## Installation Instructions



### Notes:

1. Prior to installation, make sure that your graphics driver is up-to-date by installing the latest driver available.
2. DisplayPort hub is backward compatible with most DisplayPort 1.1a 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.
3. The diagram above shows a B156-002-HDMI installation. The B156-004-HD installation will be the same, except for the number of output ports.

- 1** Make sure the DisplayPort source is powered off.
- 2** Connect the source to the input port on the hub using a P580-Series DisplayPort cable (or a P583-Series Mini DisplayPort to DisplayPort Cable).

**Note:** It is recommended that the distance between the source and hub be no greater than 6 ft. (1.8 m). Distances up to 16 ft. (5 m) may be achievable, but are not guaranteed.

## Installation Instructions

- 3 Connect the included external power supply to the hub, and plug it into a Tripp Lite Surge Suppressor, Power Distribution Unit (PDU), or Uninterruptible Power Supply (UPS). The Green Power LED on the hub will illuminate to indicate the unit is receiving power.
- 4 Connect a monitor to the Output 1 port on the hub using a P568-Series HDMI Cable.

**Note:** When displaying video resolutions up to 1920 x 1080 @ 60 Hz, the distance between the hub and monitor must not exceed 35 ft. (10.6 m). When displaying video resolutions higher than 1920 x 1080 and up to 4K x 2K UHD (3840 x 2160), the distance between the hub and monitor must not exceed 6 ft. (1.8 m).

- 5 Repeat step 4 to connect a monitor to each additional port on the hub.
- 6 Turn on the power to the source and connected monitors. The Orange port LEDs will illuminate to indicate that a signal is being received and video will appear on the connected monitors.
- 7 Use your video card's display settings screen to make adjustments to the way video is displayed on the connected monitors.

**Note:** DisplayPort hub is backward compatible with most DisplayPort 1.1a 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.

## 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 1.1a 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.

## Troubleshooting

- 2** Press the reset button on the hub to reset the signal being sent to the connected displays.
- 3** Is the included external power supply 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.
- 4** Was the power to the DisplayPort source turned off prior to installation? If not, restart your computer.
- 5** What resolution are you trying to reach? The B156-002-HDMI will allow for video resolutions up to 3840 x 2160 (4K) to be displayed on each monitor, whereas the B156-004-HD only supports video resolutions up to 1920 x 1080 (1080p) on each port. When using the B156-004-HD to display all four monitors in video wall mode, expanded video resolutions are supported, such as 3840 x 2160 in a 2X2 monitor configuration, or 7680 x 1080 in a 4X1 monitor configuration. Maximum supported video resolutions and number of monitors will be dependent upon your graphics card, so check its specifications to determine its capabilities. If you are not able to get an acceptable image, try lowering your computer's video resolution or adjusting the refresh rate.
- 6** What length of cables are you using? The maximum cable lengths that can be used between the source and the hub, and between the hub and the monitors, is called out in the Installation Instructions section of this manual.
- 7** 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. It is recommended that you use the Tripp Lite cables shown in the Optional Accessories listing in this manual, as they have been tested to work with the B156-Series Hubs.
- 8** 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.

# Warranty & Product Registration

## 1-Year Limited Warranty

TRIPP LITE warrants its products to be free from defects in materials and workmanship for a period of one (1) year from the date of initial purchase. TRIPP LITE's obligation under this warranty is limited to repairing or replacing (at its sole option) any such defective products. To obtain service under this warranty, you must obtain a Returned Material Authorization (RMA) number from TRIPP LITE or an authorized TRIPP LITE service center. Products must be returned to TRIPP LITE or an authorized TRIPP LITE service center with transportation charges prepaid and must be accompanied by a brief description of the problem encountered and proof of date and place of purchase. This warranty does not apply to equipment which has been damaged by accident, negligence or misapplication or has been altered or modified in any way.

EXCEPT AS PROVIDED HEREIN, TRIPP LITE MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Some states do not permit limitation or exclusion of implied warranties; therefore, the aforesaid limitation(s) or exclusion(s) may not apply to the purchaser.

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## PRODUCT REGISTRATION

Visit [www.triplite.com/warranty](http://www.triplite.com/warranty) today to register your new Tripp Lite product. You'll be automatically entered into a drawing for a chance to win a FREE Tripp Lite product!\*

\* No purchase necessary. Void where prohibited. Some restrictions apply. See website for details.

## FCC Notice, Class B

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.

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.

Any changes or modifications to this equipment not expressly approved by Tripp Lite could void the user's authority to operate this equipment.

## WEEE Compliance Information for Tripp Lite Customers and Recyclers (European Union)



Under the Waste Electrical and Electronic Equipment (WEEE) Directive and implementing regulations, when customers buy new electrical and electronic equipment from Tripp Lite they are entitled to:

- Send old equipment for recycling on a one-for-one, like-for-like basis (this varies depending on the country)
- Send the new equipment back for recycling when this ultimately becomes waste

## WARNING

Use of this equipment in life support applications where failure of this equipment can reasonably be expected to cause the failure of the life support equipment or to significantly affect its safety or effectiveness is not recommended. Do not use this equipment in the presence of a flammable anesthetic mixture with air, oxygen or nitrous oxide.

Tripp Lite follows a policy of continuous improvement. Product specifications are subject to change without notice.



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