

# Low-Cost HDMI Dual Screen Splitter/Multiviewer

## SPLITMUX®

Display real-time 1080p video from two HDMI/DVI sources simultaneously on a single display

- Dual, Picture in Picture, and Full Screen display modes.
- Supported resolutions:
  - Inputs: HTDV resolutions to 1080p and computer resolutions to 1920x1200.
  - Output: 1080p, 1080i, 720p, 1024x768, 1360x768.
- Independent video in to video out resolution.
- HDMI features supported:
  - Inputs: 24-, 30-, and 36-bit xvYCC, sRGB, and YCbCr.
  - Outputs: 24- and 30-bit sRGB.
  - Audio inputs: two-channel non-mixing stereo with PCM2, 5.1, 7.1 channels, Dolby 5.1, and DTS 5.1 audio
  - Audio output: two-channel non-mixing stereo with PCM2
  - Bandwidth up to 225 MHz (6.75 Gbps).
    - ◆ Inputs: 2.25 Gbps
    - ◆ Output: 2.0625 Gbps
- Fluid real-time video performance with 60 frames per second (fps).
  - Accepts video sources with different frame rates, and will display the images correctly.
- Switch audio independently of video from connected HDMI sources in Dual mode.
- Any DVI source or display can be connected by using the DVI-HD-xx-MM cable (not included).
  - Use DVIA-HD-CNVTR-LC or DVI-HD-CNVTR DVI + Audio to HDMI Converters to pass and independently switch audio signals to the multiviewer.
- Use the front panel buttons to locally change ports, select a display mode, or change resolutions.
  - Built-in default EDID table.



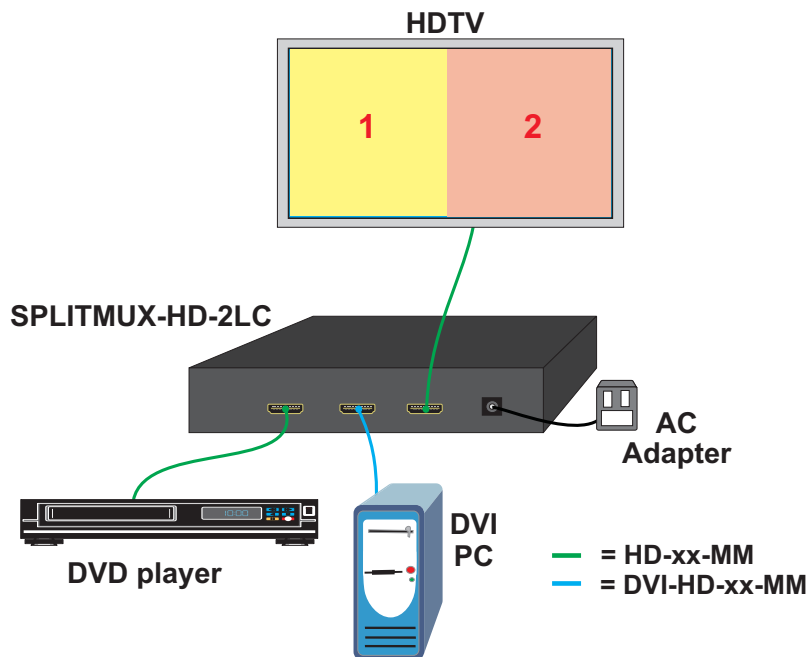
SPLITMUX-HD-2LC (Front & Back)

- **HDMI & DVI**
- **HDTV resolutions to 1080p**
- **Dual, Picture in Picture & Full Screen modes**

The SPLITMUX® Low-Cost HDMI Dual Screen Splitter/Multiviewer allows you to simultaneously display real-time HDMI/DVI video from two different sources on a single monitor. It is capable of displaying the video sources in dual, PiP or full screen mode.

**Note: this device does not support HDCP.**

### Configuration and Cable Illustration



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## Specifications

### Inputs

- Two female HDMI connectors.
- Supports digital HDMI devices, such as DVD/Blu-ray players, satellite receivers, and HDTV tuners.
- Audio inputs: two-channel non-mixing stereo with PCM2, 5.1, 7.1 channels, Dolby 5.1, and DTS 5.1 audio.
- A DVI source can be connected by using the DVI-HD-xx-MM cable (not included). The cable does not pass audio to the multiviewer.
  - Use a video + audio to HDMI video converter to pass embedded HDMI audio into the multiviewer (see Compatible NTI Products below).

### Outputs

- One female HDMI connector for local display.
- Output resolutions: 1080p, 1080i, 720p, 1024x768, 1360x768.
- Audio output: two-channel non-mixing stereo with PCM2
- A DVI display can be connected by using the DVI-HD-xx-MM cable (not included). The cable does not pass audio to the display.
  - Use a video + audio to HDMI video converter to pass embedded HDMI audio into the multiviewer (see Compatible NTI Products below).

### Power

- 100 to 240 VAC at 50 or 60 Hz via AC adapter.
- Power consumption: 10W.

### Dimensions

- WxDxH (in): 5.51x2.76x0.98 (140x70x25 mm)

### Environmental

- Operating temperature: 32 to 104°F (0 to 40°C).
- Storage temperature: -4 to 140°F (-20 to 60°C).
- Operating and storage relative humidity: 20 to 90% non-condensing RH.

**Note: This device does not support HDCP.**

### Regulatory Approvals

- CE, FCC, RoHS

### Package Includes

- One HDMI multiviewer
- One power supply
- Wall mount brackets with screws
- User manual

### Compatible NTI Products

- Combine NTI's multiviewers and video converters for cost-effective display configurations.
  - DVI-D to HDMI Single Link Interface Cable (DVI-HD-xx-MM).
    - ◆ The cable does not pass audio to the multiviewer.
  - HDMI Quad Screen Multiviewer (SPLITMUX-HD-4RT)
  - DVI + Stereo Audio to HDMI Converter (DVIA-HD-CNVTR-LC)
  - DVI + Digital Audio to HDMI Converter (DVI-HD-CNVTR)
  - Composite Video + Audio to HDMI Converter (CVA-HD-LC)
  - VGA + Audio to HDMI Converter Cable (VGAA-HD-ULC)
  - VGA/Component Video/HDMI Scaler/Converter (PCHD-HDMI-SCALER).

## Display Modes

### Dual Mode

- In dual mode, the screen is split into two fields of equal size displaying the entire contents of two different video sources side-by-side.
  - Dual Mode A: The original images are displayed with half of their original width and stretched vertically to fill entire display.
  - Dual Mode B: The original images retain their aspect ratio.
    - ◆ Black bands will appear above and below the input images when aspect ratio is retained.
- Fluid, real-time video performance with 60 frames per second (fps).

### Full Screen Mode

- In full screen mode, one of the two video sources is displayed in full screen size and maximum resolution.

### Picture in Picture (PIP) Mode

- In PIP mode, the full screen display of one of the two video sources is accompanied by one small image (thumbnail) of the other video source on one corner of the screen, allowing simultaneous monitoring.
  - The location of the thumbnail image can be chosen by selecting the "position" button.
  - The size of thumbnail image is selectable.
    - ◆ Size 1: 19.6% of monitor size
    - ◆ Size 2: 23.3% of monitor size
    - ◆ Size 3: 30% of monitor size
  - If there is no video source connected to the thumbnail, its screen will remain black.