

# 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: HDTV resolutions to 1080p.
  - 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
- HDCP compliant (SPLITMUX-HD-2RSLC only).
- 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.
- Available with IR and RS232 control (SPLITMUX-HD-2RSLC only).
- Built-in default EDID table.

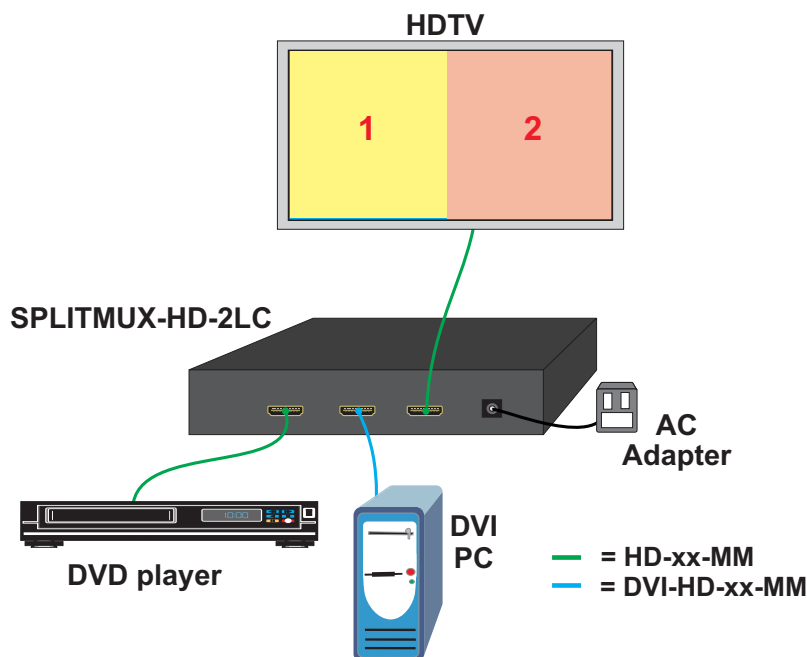


SPLITMUX-HD-2LC (Front & Back)

- **HDMI & DVI**
- **HDTV resolutions to 1080p**
- **Dual, Picture in Picture & Full Screen modes**
- **Optional IR and RS232 control**

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.

### 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.
- Supports HDTV input resolutions to 1080p.
- HDCP compliant (SPLITMUX-HD-2RSLC only).
- 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 (US AC adapters included).
  - Optional universal power plug adapters available (not included).
- Power consumption: 10W.

### Dimensions

- SPLITMUX-HD-2LC WxDxH (in): 5.51x2.76x0.98 (140x70x25 mm)
- SPLITMUX-HD-2RSLC WxDxH (in): 5.75x2.76x0.98 (146x70x25 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.

### Regulatory Approvals

- CE, FCC, RoHS

### Package Includes

- One HDMI multiviewer
- One US power supply
- Wall mount brackets with screws
- User manual
- IR remote control (SPLITMUX-HD-2RSLC only).
- One DB9 RS232 serial male-to-female cable (SPLITMUX-HD-2RSLC only).

### 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.

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## Control Methods

### Front Panel Interface

- Use front panel buttons to locally change ports, select a display mode, or change resolutions.

### RS232 (SPLITMUX-HD-2RSLC only)

- Configuration and control can be done through the serial port.
  - Female RJ45 connector.
- Control the multiviewer using the included RS232 control software.

### Infrared Remote Control (SPLITMUX-HD-2RSLC only)

- Use to change ports, select a display mode, or change resolutions.
- Power: one CR2032 battery (included).

Low-Cost HDMI Multiviewer	
NTI Part #	Supported Features
SPLITMUX-HD-2LC	Low-Cost HDMI Dual Screen Splitter/Multiviewer
SPLITMUX-HD-2RSLC	Low-Cost HDMI Dual Screen Splitter/Multiviewer with IR & RS232, HDCP compliant