

HDMI Quad Screen Splitter/Multiviewer

SPLITMUX®

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

- Quad, Picture in Picture, Full Screen, and Custom display modes.
 - Custom Display Mode: **the size, position and selection of any or all windows are customizable.**
 - ♦ 2- and 3-source viewing is possible with this method.
- Independent video in to video out resolution.
 - Supports HDTV resolutions up to 1080p and computer resolutions to 1920x1200.
- HDMI features supported:
 - Inputs: 24-, 30-, and 36-bit xvYCC, sRGB, and YCbCr.
 - Outputs: 24- and 30-bit sRGB.
 - Four-channel non-mixing or one-channel mixing stereo with 16-, 20-, or 24-bit uncompressed PCM audio.
 - Bandwidth up to 165 MHz (2.0625 Gbps).
- HDCP compliant.
- Fluid, real-time video performance with 60 frames per second (fps) in all four quadrants.
- Switch audio independently of video from connected HDMI sources.
- 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.
- Control the multiviewer through Ethernet, RS232 serial port, on screen display (OSD), front panel buttons, or IR remote.
- Cascade multiviewers to display video from up to 16 video sources on one screen.
 - Each unit in the cascade must be configured and controlled individually.
- Backup and restore multiviewer configurations.
- Select default EDID or copy EDID from output monitor.
 - Supported output resolutions can be selected or set to auto detect.
- Available options: desktop unit, 1RU rackmount unit, dual side-by-side rackmount units in 1RU.
 - Rackmount units can be mounted so that the front panel buttons are facing the front or back of the rack.
 - Rackmount units include cable management shelf.

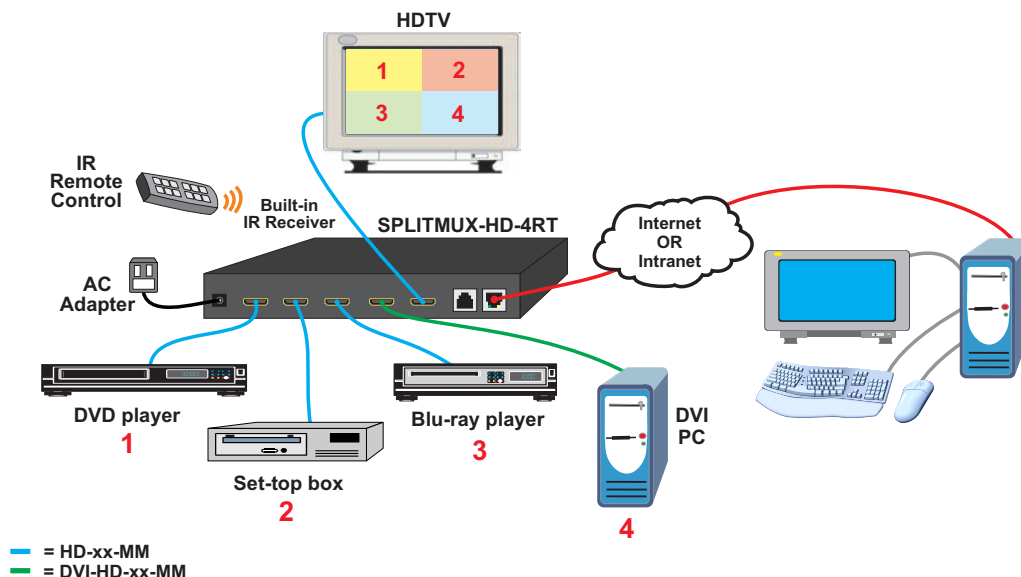


SPLITMUX-HD-4RT (Front & Back)

- **HDMI & DVI**
- **HDTV resolutions to 1080p and computer resolutions to 1920x1200.**
- **Quad, Picture in Picture, Full Screen, and Custom Display Modes.**
- **The size, position & selection of any or all windows are customizable.**

The SPLITMUX® HDMI Quad Screen Multiviewer allows you to simultaneously display HDMI/DVI video from up to four different sources on a single monitor. Each of the quadrants can be adjusted to any size and positioned to any location on the display.

Configuration and Cable Illustration



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Specifications

Video Input

- Four female HDMI connectors.
- Supports digital HDMI devices, such as DVD/Blu-ray players, satellite receivers and HDTV tuners.
- Multiplatform support: Windows 2000/XP/Vista/7/8, Windows Server 2000/2003/2008, Solaris, Linux, FreeBSD, and MAC OS 9/10.
- 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).

Video Output

- One female HDMI connector.
- Supports crisp and clear HDTV resolutions to 1080p and computer resolutions to 1920x1200.
- HDMI-embedded audio switching (four-channel stereo, non-mixing or one-channel stereo, mixing).
- 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).

Protocols

- HTTP, HTTPS
- TCP/IP, DHCP, UDP, ARP
- IPV4

Power

- 110 to 220 VAC at 50 or 60Hz via country-specific AC adapter.
- Power consumption: 10W

Dimensions

- SPLITMUX-HD-4RT (desktop)
 - WxDxH (in): 7.35x4.98x1.09 (187x126x28 mm)
- SPLITMUX-HD-4RT-R (1RU rackmount) and SPLITMUX-HD-4RT-2R (1RU dual side-by-side rackmount)
 - WxDxH (in):
 - ♦ Without rackmount kit: 7.35x4.98x1.75 (187x126x45 mm)
 - ♦ With rackmount kit: 19x4.98x1.75 (483x126x45 mm) (excludes cable tray)
 - Can be mounted so that the front panel buttons are facing the front or back of the rack.
 - Includes cable management tray.
 - ♦ Adds 3.37" to the depth.

Environmental

- Operating temperature: 32 to 122°F (0 to 50°C).
- Storage temperature: -22 to 140°F (-30 to 60°C).
- Operating and storage relative humidity: 17 to 90% non-condensing RH.

Regulatory Approval

- CE, RoHS.

Compatible NTI Products

- Combine NTI's video converters for multiple video sources and display signals
 - DVI-D to HDMI Single Link Interface Cable (DVI-HD-xx-MM).
 - ♦ The cable does not pass audio to the multiviewer.
 - 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

Quad Mode

- In quad mode, the screen is split into four fields of equal size each displaying the entire contents of four different video sources.
 - Fluid, real-time video performance with 60 frames per second (fps) in all four quadrants.
- Borders can be set for each image input.
- Aspect ratio can be maintained for all outputs.

Full Screen Mode

- In full screen mode, one of the four video sources is displayed in full screen size and maximum resolution.
- Scan feature: cycle through four different sources at set intervals.

Picture in Picture (PIP) Mode

- In PIP mode, the full screen display of one of the four video sources is accompanied by one, two, or three small images (thumbnails) of the three other video sources on the right hand margin of the screen allowing simultaneous monitoring.
- Size, position and selection of the thumbnails are customizable.
- Scan feature: cycle through four different sources at set intervals for the larger image.
- Borders can be set for each image input.
- Aspect ratio can be maintained for all outputs.

Custom Mode

- In Custom mode, each video source is displayed in its own separate, detached window.
- Size, position and selection of the windows are customizable.
- 2- and 3-source viewing is possible with this method.
- Presets of the window positioning can be saved.
- Borders can be set for each image input.

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Control Methods

Front Panel Interface

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

Ethernet Control

- Configuration can be done over the Internet/LAN via Web page or Telnet.
- Supports Internet Explorer 6.0 or higher, Firefox 2.0 or higher, Opera 9.0, Google Chrome, Safari 4.0 or higher for MAC and PC.
- Configure and control the settings for the system, network, input, output, and modes.
- Female RJ45 connector.
- 10/100 BaseT Ethernet interface.
 - **Web Server**
 - ♦ Security is ensured by password and user configurable timeout.
 - ♦ Up to 16 users can access the web page at one time.
 - ♦ The user with administrative privileges can access the following pages:
 - System page: allows configuration of unit, serial port, and OSD settings.
 - Network pages: configure IP and server settings.
 - Inputs page: allows configuration of the four video inputs.
 - Output page: configure the video and audio output parameters.
 - Modes page: allows selection and configuration of the output display mode.
 - User Config page: add, configure, and view all users.
 - Firmware page: update firmware for the SPLITMUX.
 - **Telnet**
 - ♦ Security is ensured by password.
 - ♦ Menu commands are similar to RS232 commands.
 - ♦ The telnet server listens on port 2000.
 - Port 2000 is for an operator telnet session.

On Screen Display (OSD)

- Select display modes and computers with On Screen Display (OSD).
- Use the front panel buttons to operate the OSD.
- OSD controls for configuration and control of the system, network, input, output, and display modes.
- Access to OSD Mode can be limited by an administrator-assigned PIN number.

RS232

- Configuration and control can be done through the serial port.
 - Female RJ45 connector.
- Control the multiviewer using the Text Menu via RS232.
- Selectable baud rate: 1200 to 115,200 bps.
 - Baud rate is set via the front panel interface, serial command, OSD, or web interface.

Infrared Remote Control

- Routes video and audio signals together or independently.
- A single IR remote can control up to 15 units (individual or cascaded).
 - Use the “sys” button on the remote followed by the user-configured address of the unit to switch between the units controlled.
- Transmitter can be up to 30 feet (9.1 meters) away.
- Power: two AAA batteries (included).

HDMI Quad Screen Splitter/Multiviewer	
NTI Part #	Supported Features
SPLITMUX-HD-4RT	HDMI Quad Screen Multiviewer, Desktop
SPLITMUX-HD-4RT-R	HDMI Quad Screen Multiviewer, 1RU Dual Side-by-Side
SPLITMUX-HD-4RT-2R	HDMI Quad Screen Multiviewer, 1RU Dual Side-by-Side Rackmount