

4K HDMI Quad Screen Splitter/Multiviewer

SPLITMUX®

Display real-time video from four HDMI sources simultaneously on a single display – supports 4Kx2K, 1080p, and 2560x1600 output resolutions

- 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.
 - ♦ Maintain input aspect ratio if desired-no stretching necessary.
 - ♦ Layer display windows and adjust transparency of each video source display.
- Supported resolutions:
 - Inputs: 2K resolution 2048x1080, HDTV resolutions to 1080p and computer resolutions to 1920x1200.
 - Output:
 - ♦ Quad and Full mode: Ultra-HD 4Kx2K resolutions to 3840x2160 (60Hz) and 4096x2160 (60Hz), 2K resolution 2048x1080, HDTV resolutions to 1080p, and computer resolutions to 2560x1600.
 - ♦ PiP and Custom mode: 2K resolution 2048x1080, HDTV resolutions to 1080p and computer resolutions to 1920x1200.
 - 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.
 - Four-channel mixing stereo with 16-, 20-, or 24-bit uncompressed PCM audio.
 - Bandwidth up to 594 MHz
 - ♦ Inputs: 2.25 Gbps
 - ♦ Output: 5.94 Gbps
- HDCP compliant.
- Fluid, real-time video performance with up to 60 frames per second (fps) in all four quadrants.
- Zoom, pan, and crop the image from any source to focus on key areas.
- Switch audio independently of video from connected HDMI sources (e.g. source 1 and source 2 video are active while only source 3 audio is active).
 - Multiple audio sources can be simultaneously active in any display mode or preset layout.
 - Adjustable audio gain with VU level indicators for each input channel.
- A customized text label can be added for each video window to provide easy input identification (UMD).
- Control the multiviewer through Ethernet, RS232 serial port, on screen display (OSD), front panel buttons, or IR remote.
- Cascade multiviewers to display video from any number of video sources on one screen.
 - Each video source in the cascade can be controlled directly from the Web Server graphical user interface under Custom Mode Settings.
- Backup and restore multiviewer configurations.
- Supported output resolutions can be selected or set to auto detect optimal resolution from the monitor's EDID.
- 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.

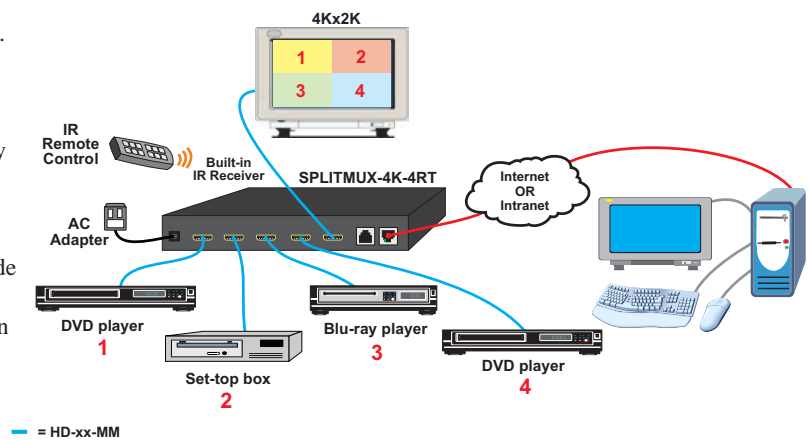


SPLITMUX-4K-4RT (Front & Back)

- **Quad & full screen display modes with 4K, 2K, 1080p, & 2560x1600 output resolutions.**
- **Picture-in-picture & custom display modes with 2K, 1080p, & 1920x1200 output resolutions.**

The SPLITMUX® 4K HDMI Quad Screen Multiviewer allows you to simultaneously display real-time video from four different sources on a single HDMI Ultra-HD 4Kx2K monitor. It is capable of displaying the video signals in quad, PiP, full, or custom mode. In quad and full screen display modes, the multiviewer supports 4K, 2K, 1080p, and 2560x1600 output resolutions. In picture-in-picture and custom display modes, it supports 2K, 1080p, and 1920x1200 output resolutions.

Configuration and Cable Illustration



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Specifications

Video Input

- Four female HDMI connectors.
- Supports HDMI devices, such as DVD/Blu-ray players, satellite receivers and HDTV tuners.
- Multiplatform support: Windows 2000/XP/Vista/7/8/10, Windows Server 2000/2003/2008/2012, Solaris, Linux, FreeBSD, and MAC OS 9/10.
- Supported video input resolutions:
 - 2K Cinema (2048x1080 @ 60Hz)
 - HDTV resolutions to 1080p
 - Computer resolutions to 1920x1200.
- Supports HDCP 1.2.

Video Output

- One female HDMI connector for display.
 - Compatible with 21:9 UltraWide monitors.
- Supported video output resolutions:
 - Quad and Full mode
 - ♦ Ultra-HD 4Kx2K resolutions (3840x2160 @ 60Hz, 4096x2160 @ 60Hz)
 - ♦ 2K Cinema (2048x1080 @ 60Hz)
 - ♦ HDTV resolutions to 1080p
 - ♦ Computer resolutions to 2560x1600
 - PiP and Custom mode
 - ♦ 2K Cinema (2048x1080 @ 60Hz)
 - ♦ HDTV resolutions to 1080p
 - ♦ Computer resolutions to 1920x1200.
- HDMI-embedded audio switching (four-channel stereo mixing).
- Supports HDCP 2.2
- Chroma sampling: 4:4:4 RGB.
- Latency:
 - 50mS at 60Hz
 - 60mS at 50Hz
 - 100mS at 30Hz
 - 120mS at 25Hz
 - 125mS at 24Hz

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: 20W

Dimensions

- SPLITMUX-4K-4RT (desktop)
 - WxDxH (in): 7.35x4.98x1.09 (187x126x28 mm)
- SPLITMUX-4K-4RT-R (1RU rackmount) and SPLITMUX-4K-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°F to 113°F (0°C to 45°C).
- Storage temperature: -22°F to 140°F (-30°C to 60°C).
- Operating and storage relative humidity: 17 to 90% non-condensing RH.

Regulatory Approval

- CE, RoHS.
- TAA compliant

Warranty

- Two years

Compatible NTI Products

- Combine NTI's extenders, switches, splitters and cables for complex applications.
 - 4K HDMI Extender (ST-C64K-300)
 - ♦ SPLITMUX-4K-4RT and ST-C64K-300 will work together at resolutions up to 3840x2160 @ 30Hz.
- 4K HDMI Active Optical Cable (HD4K-FO-xxM-MM)
 - SPLITMUX-4K-4RT and HD4K-FO-xxM-MM will work together at resolutions up to 3840x2160 @ 30Hz on the output.

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 up to 60 frames per second (fps) in all four quadrants.
- Supported video output resolutions:
 - Ultra-HD 4Kx2K resolutions (3840x2160 @ 60Hz, 4096x2160 @ 60Hz)
 - 2K Cinema (2048x1080 @ 60Hz)
 - HDTV resolutions to 1080p
 - Computer resolutions to 2560x1600

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.
- Supported video output resolutions:
 - 2K Cinema (2048x1080 @ 60Hz)
 - HDTV resolutions to 1080p
 - Computer resolutions to 1920x1200

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Display Modes (continued)

Full Screen Mode

- In full screen mode, one of the four video sources is displayed in full screen size and maximum resolution.
- Supported video output resolutions:
 - Ultra-HD 4Kx2K resolutions (3840x2160 @ 60Hz, 4096x2160 @ 60Hz)
 - 2K Cinema (2048x1080 @ 60Hz)
 - HDTV resolutions to 1080p
 - Computer resolutions to 2560x1600

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.
- Presets of the window positioning can be saved.
- Supported video output resolutions:
 - 2K Cinema (2048x1080 @ 60Hz)
 - HDTV resolutions to 1080p
 - Computer resolutions to 1920x1200
- Configure up to 10 preset layouts that can be switched live at any time.

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.
 - Use NTI's Discovery Tool on a PC or MAC with Java Runtime Environment (version 6 or higher) installed to detect the IP address of a SPLITMUX unit.
 - **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

- Sold Separately
- Routes video and audio signals together or independently.
- Transmitter can be up to 30 feet (9.1 meters) away.
- Power: two AAA batteries (included).

Keyboard/Mouse (Coming Soon)

- Use hotkey commands or hotmouse commands to select display mode and to select port.

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