Switch to & control any of four HDMI 2.0 computers while monitoring the other three connections on a single display. Supports 4K@60Hz input/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.
- Switch one of the four attached computers to a shared USB keyboard and mouse for operation.
- Supports input/output resolutions up to Ultra-HD 4Kx2K (3840x2160 and 4096x2160 @24/30/60Hz YUV 4:4:4) in all display modes.
 - Independent video in to video out resolution.
- HDMI features supported:
 - **HDMI 2.0**

•

- Up to 36-bit color for input and 24-bit for output
- RGB, YUV 4:4:4, YCbCr 4:4:4, YCbCr 4:2:2 •
- LPCM audio
- Bandwidth up to 600 MHz (18 Gbps)
- HDCP 2.2 and 1.4 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. 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, keyboard commands, on screen display (OSD), front panel buttons, or optional IR remote.
- Built-in 2-port USB hub switch devices between connected computers.
 - In Full Screen mode, USB touch screen monitors can be used to control the connected active computer.
- Compliant with USB 2.0 (high-speed and low/full speed) standards.
- 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.
- 1RU rackmount kit and cable management shelf included.



SPLITMUX-USB4K18GB-4 (Front & Back)



- Built-In USB KVM switch and 2-port USB hub
- Quad, picture-in-picture (PiP), full screen, and custom display modes with 4K 60Hz resolution
- **18Gbps bandwidth**
- HDMI 2.0 input & output

The SPLITMUX® 4K 18Gbps HDMI Quad Screen Splitter/Multiviewer with Built-In USB KVM Switch allows video from four different HDMI 2.0 Ultra-HD 4Kx2K 60Hz computers to be simultaneously displayed on a single monitor. Additionally, it can switch one of the four attached computers to a shared keyboard and mouse for operation and to two additional USB devices. It is capable of displaying the HDMI 2.0 video signals in quad, PiP, full, or custom mode.



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330.562.1999 Worldwide fax

Switch to & control any of four HDMI 2.0 computers while monitoring the other three connections on a single display. Supports 4K@60Hz input/output resolutions.

Specifications

Hosts

- Four female HDMI connectors.
- Four female USB Type B connectors.
- Supports video input resolutions up to Ultra-HD 4Kx2K (3840x2160 and 4096x2160 @24/30/60Hz YUV 4:4:4).
- Supports HDCP 2.2/1.4
- Supports USB-enabled computers with HDMI video.
 - Boots PCs, SUNs, and MACs simultaneously.
 - Also supports HDMI video-only devices, such as DVD/Blu-ray players, satellite receivers and HDTV tuners.
- Multiplatform support: Windows 7/8/10/11, Windows Server 2008/2012/2016/2019/2022, Solaris, Linux, FreeBSD, and MAC OS 10/11.

Monitor

- One female HDMI connector.
- Supports output resolutions up to Ultra-HD 4Kx2K (3840x2160 and 4096x2160 @24/30/60Hz YUV 4:4:4) in all display modes.
- HDMI-embedded audio switching (four-channel stereo mixing).
- HDCP 2.2/1.4 compliant.
- Latency:
 - 50mS at 60Hz
 - 60mS at 50Hz
 - 100mS at 30Hz
 - 120mS at 25Hz
 - 125mS at 24Hz

Devices

- Two female USB Type A connectors for keyboard and mouse.
 - Keyboard and mouse are hot-pluggable.
- Two female USB Type A connectors for USB peripheral devices (touch screen monitor, printers, scanners, security cameras, flash drives, etc.)
 - Connect any type of USB device fully transparent USB connectors.
 - Switch USB 2.0 devices between connected computers.
 - In Full Screen mode, USB touch screen monitors can be used to control the connected active computer.
- Provides support for high-speed (480 Mbps), full-speed (12 Mbps), or low-speed (1.5 Mbps) USB devices.

Protocols

- HTTP, HTTPS
- TCP/IP, DHCP, UDP, ARP
- IPV4
- Supports HTTP REST API to configure SPLITMUX-4K18GB-4 with response in JSON format.

Power

- Input: 100 to 240 VAC at 50 or 60Hz via country-specific AC adapter.
- Output: 12V, 8.3A
- Power consumption: 55W (max)

Dimensions

WxDxH:

- Without supplied rackmount kit: 7.85x6.96x1.75 in (199x177x44mm)
- With supplied rackmount kit: 19x6.96x1.75 in (483x177x44mm)
 Can be mounted so that the front panel buttons are facing the front or back of the rack.
- Includes cable management tray.
- Adds 3" 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: 5 to 90% non-condensing RH.

Regulatory Approval

- CE, RoHS.
- TAA compliant

Warranty

Two years

Cables

- Interface cables between the video sources/display and the multiviewer are required for proper operation.
 - Supports cable lengths to 15 feet for 4Kx2K resolutions and 50 feet for 1080p.
 - Longer cables can be used provided they have a built-in video equalizer (also known as "active HDMI cables").
- Use HD-xx-MM cable to connect an HDMI source or display.
- Use HD-ACT-xx-MM 4K HDMI Active Cables to connect an HDMI source or display up to 100 feet.
 - HD-ACT-20/25/30/40/50/60-MM supports resolutions to 4K@60Hz.
 - HD-ACT-75/100-MM supports resolutions to 4K@30Hz.
- Use DP-HD-xx-MM cables to connect a DisplayPort source up to 15 feet away from the switch.
 - Supports resolutions up to 4k@30hz 4:4:4 and 4K@60Hz 4:2:0.
- Use USB2-AB-x-5T male USB Type A to male USB Type B interface cable between the computer and multiviewer.
- Cables not included.



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Switch to & control any of four HDMI 2.0 computers while monitoring the other three connections on a single display. Supports 4K@60Hz input/output resolutions.

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.
- Borders can be set for each image input.

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.
- USB touch screen monitors can be used to control the connected active computer.

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.
- Use web server graphical user interface to configure settings for each window.
- Zoom, pan, and crop the image from any source to focus on key areas.
- Presets of the window positioning can be saved.
- Borders can be set for each image input.
- Display optional Left/Right VU level indicators for each corresponding display window.
- Configure up to 10 preset layouts that can be switched live at any time.



Quad Mode



Cascaded

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Custom Mode with Individually Configured Windows and Enabled Borders

d Windows and Enabled Borders 1.800.RGB.TECH (800.742.8324) Toll Free: US & Canada

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 also knows as "PiP windows") of the three other video sources on the right hand margin of the screen allowing simultaneous monitoring.
- Size, horizontal position, and selection of the PiP windows are customizable.
 - Vertical position is customizable only in single PiP window mode.
 - Scan mode: choose between Off, PiP Scan, or Active Scan.
 - PiP Scan: scans through the non-active channels in a single PiP window. The channel set as full screen does not change.
 - PiP scanning is not available in double or triple PiP window mode.
 - Active Scan: the full screen image and each of the three PiP windows alternate as active channels.
 - Scanning will be in the order of inputs manually selected for each of the PiP windows (PIP1, PIP2, and PIP3).
 - Available in single and triple PiP window modes.
- Borders can be set for each image input.
- Aspect ratio can be maintained for all PiP windows if desired.



Full Screen Mode



PiP Mode



Dual Screen with Custom Mode

330.562.7070

International calls

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Switch to & control any of four HDMI 2.0 computers while monitoring the other three connections on a single display. Supports 4K@60Hz input/output resolutions.

Control Methods

Ethernet Control

- Configuration can be done over the Internet/LAN via Web page or Telnet.
- Supports Microsoft Edge, 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.
 - Custom page: graphical user interface allows simple configuration of all display windows.
 - Control each video source in a cascade by double clicking on the corresponding video source window.
 - 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.

Configuration and Cable Illustration

Front Panel Interface

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

On Screen Display (OSD)

- Select display modes and computers with On Screen Display (OSD).
- Use the front panel buttons or keyboard commands 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

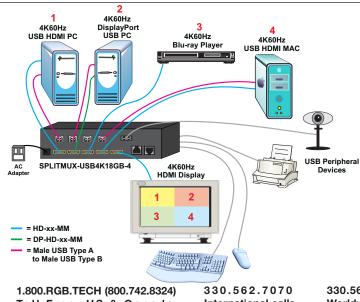
- Configuration and control can be done through the serial port.
 Female RJ45 connector.
- Control the multiviewer using the text menu via RS232.
- Selectable baud rate: 1200 to 115,200 bps.
 - Baud rate is set via the front panel interface, serial command, OSD, or web interface.

Infrared Remote Control (Optional)

- Optional control method.
 - IRT-UNV is sold separately.
- 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).

Keyboard/Mouse

Use keyboard commands to select display mode and to select port.
 Support for mouse commands coming soon.



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