

## Display video from four computers simultaneously on a single LCD/plasma monitor

- Quad, Picture in Picture, Full Screen, Dual, Fade Through Black, and Win display modes.
  - Win Mode is available on SPLITMUX-DVI-4RT only.
- Independent video in to video out resolution.
- Supports video resolution up to 1900x1200.
- Accepts analog and digital video signals simultaneously.
- Connect analog and digital sources to the splitter, and display images on a digital or analog monitor.
- Supports digital DVI and analog VGA.
- HDCP compliant (SPLITMUX-DVI-4RT only).
- Fluid, real-time video performance with 60 frames per second (fps) in all four quadrants (SPLITMUX-DVI-4RT only).
  - In quad mode for SPLITMUX-DVI-4, the output frame rate will be 1/6th the input refresh rate.
    - ♦ E.g. If the input refresh rate is 60 fps, the output will be 10 fps in quad mode.
- Rotate the screen display at different angles – 0°, 90°, 180° & 270° (SPLITMUX-DVI-4RT only).
- Control multiple PCs displayed on a split screen with a single keyboard/mouse - no switching required (SPLITMUX-DVI-4RT only).
- Switch audio independently of video from HDMI sources connected to the DVI-I port (SPLITMUX-DVI-4RT only).
  - Transmit audio and video over a single cable with the DVI-HDMI-xx-MM male DVI-D to male HDMI cable.
- Touch Screen support – operate connected computers via USB touch screen monitor.
- Control the multiviewer through the front panel interface, keyboard/mouse commands, on screen display (OSD), or RS232.
- Cascade SPLITMUX Quad Screen Splitters to display video from up to 16 video sources on one screen.
- LED indicators on switch show which port is active.
- Built-in 4-port USB hub – switch devices between connected computers.
- Compliant with USB 2.0 (high-speed and low/full speed) standards.
- Connect BNC/RCA composite video devices, such as a security camera, using NTI's BNCSV-VGA-CNVTR BNC to VGA converter.
- Supports KVM over IP extenders to control the Quad Screen Splitter remotely in quad mode or PiP mode.

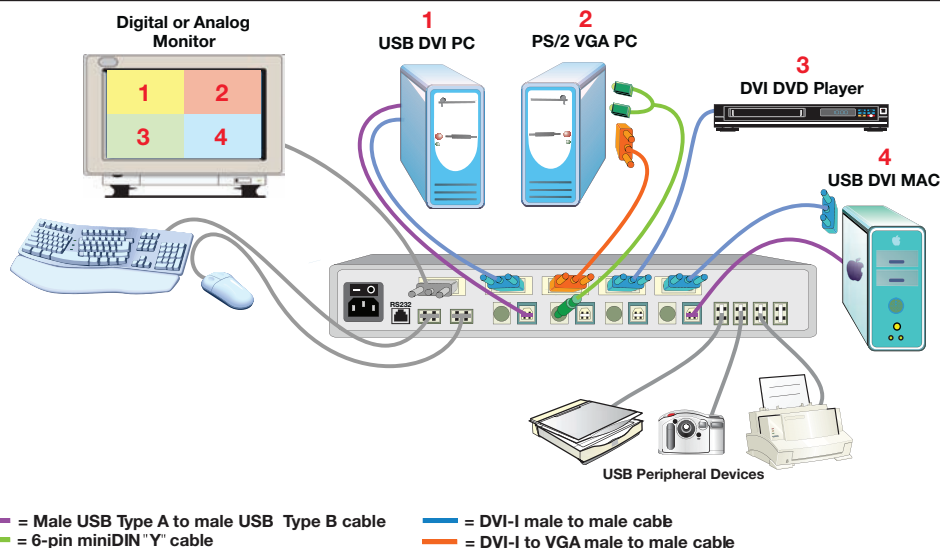


**SPLITMUX-DVI-4 (Front & Back)**

The SPLITMUX® DVI/VGA Quad Screen Multiviewer allows you to simultaneously display video from four different computers on a single monitor. Additionally, it can switch one of the four attached computers to a shared keyboard and mouse for operation and to four additional USB devices.

- **VGA & DVI**
- **USB & PS/2**
- **Touch screen support**
- **Built-In 4-port USB Hub**

### Configuration and Cable Illustration



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## Specifications

### Hosts

- Four female DVI-I connectors.
- Four female USB Type B connectors.
- Four female 6-pin miniDIN connectors.
- Supports USB and PS/2 computers.
  - Boots PCs SUNs and MACs simultaneously.
- Multiplatform support: Windows 2000/XP/Vista/7, Windows Server 2000/2003/2008, Solaris, Linux, FreeBSD, and MAC OS 9/10.
- Supports digital DVI devices, such as DVD players, satellite receivers and HDTV tuners.
- Any VGA computer can be connected by using a DVI-I to VGA cable (included).

### Monitor

- SPLITMUX-DVI-4: Supports crisp and clear VGA video resolution up to 1600x1200 and DVI video resolution up to 1900x1200.
- SPLITMUX-DVI-4RT: Supports crisp and clear VGA video resolution up to 1600x1200 and DVI video resolution up to 1900x1200.
- One female DVI-I connector.
- A VGA monitor can be connected by using a DVI-I to VGA adapter (included).
- Support for touch screens with the following controllers: Elo AccuTouch 2116, Elo IntelliTouch/SecureTouch 2701, TShare Octopus, 3M Microtouch EX II, and others.
  - For other controllers, please contact NTI technical support to determine compatibility.

### Audio (SPLITMUX-DVI-4RT only)

- Connect external speakers or headphones
  - Switch audio independently of video from HDMI sources connected to the DVI-I port.
- One 3.5mm analog stereo jack
- One RCA jack
- One TOSLINK optical audio jack

### Devices

- Two female USB Type A connectors for keyboard and mouse.
  - Compatible with most USB keyboards and mice.
  - Keyboard and mouse are hot-pluggable.
  - Supports keyboard layouts in multiple languages: English, German, French, Italian, Spanish, and Japanese.
  - Connect legacy PS/2 devices by using a USB to PS/2 converter (included).
  - USB SUN start-up keys are supported.
  - Supports MAC soft (keyboard) power-on.
- Four female USB Type A connectors for USB peripheral devices (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.
- Provides support for high-speed (480 Mbps), full-speed (12 Mbps) or low-speed (1.5 Mbps) USB devices.

### Power

- 110 or 220 VAC at 50 or 60 Hz via IEC connector. (Country-specific power supply cable included.)
- Power consumption: 40W
- Max heat dissipation:
  - SPLITMUX-DVI-4: 20W

### Dimensions

- WxDxH: 17.17x9.20x1.75 in. (439x241x45 mm)
- Rackmount kit included.

### MTBF

- 320,000 hrs.

### Environmental

- Operating temperature: 41°F to 113°F (5°C to 45°C)
- Storage temperature: 14°F to 140°F (-10°C to 60°C)
- Operating/storage relative humidity: 5 to 85% non-condensing RH.

### Regulatory Approvals

- CE, FCC, RoHS

### Warranty

- Two Years

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## 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 (SPLITMUX-DVI-4RT only).
  - In quad mode for SPLITMUX-DVI-4, the output frame rate will be 1/6th the input refresh rate.
    - ◆ E.g. If the input refresh rate is 60 fps, the output will be 10 fps in quad mode.

### Full Screen Mode

- In full screen mode, one of the four 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 four video sources is accompanied by one 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 two different sources at set intervals for the larger image.

### Dual Mode

- In dual mode, the left halves of the full screen images from two video sources are displayed side by side at full size.

### Fade Through Black

- When switching channels or display modes, the previous image fades out to black, and the next image fades in from black.
- Customizable with five speed settings, and can be enabled or disabled by the user.

### Win Mode (SPLITMUX-DVI-4RT only)

- In Win 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.
- Available on SPLITMUX-DVI-4RT only.

## Control Methods

### Front Panel Interface

- Use front panel buttons to locally change ports or to select a display mode.
- LEDs indicate currently selected port and display mode.

### Keyboard/Mouse

- Use hotkey commands or hotmouse commands to select display mode and to select ports.
- Control multiple PCs displayed on a split screen with a single keyboard/mouse – no switching required (SPLITMUX-DVI-4RT only).
  - Simply move the mouse across the split screen to the desired PC screen and activate it with a simple left mouse click.

### On Screen Display

- Select display modes and computers with On Screen Display (OSD).
- Use the front panel buttons or your keyboard to operate the OSD.
- OSD controls for hotkeys, OSD position, quad mode, PIP mode, brightness, contrast, phase, Horz- and Vert-center alignment adjustment.

### RS232

- Control the unit with DCP, XML-based protocol, via RS232 port.
- Three DCP modes – off, control, synchronize.
- Baud rate: 57600

## Cables

- Four 6.5-foot 6-pin miniDIN Y-cables included.
- Four 6.5-foot USB male Type A to male Type B cables included.
- Two 6.5-foot DVI-I male to male cables included.
- Two 6.5-foot DVI-I to VGA male to male cables included.
- USB to PS/2 adapter included.
- DVI-I male to VGA female adapter included.
- Serial update cable and adapter included.
- Use DVI-HD-xx-MM DVI-D to HDMI interface cable to connect the video source or display with integrated speakers (not included).

## BNC + S-Video to VGA Converter



**BNC+SV-VGA-CNVTR**

- Use to connect BNC/RCA composite video devices, such as security cameras, to the SPLITMUX-DVI-4 & SPLITMUX-DVI-4RT
- Output resolution: 800×600@60Hz, 800×600@75Hz, 1024×768@60Hz
- Video inputs: one female BNC, one female S-Video, and one female VGA
  - Includes a male BNC to female RCA adapter for connecting RCA composite video devices.
- Video output: one female VGA
- Supports NTSC/PAL

### DVI/VGA Quad Screen Multiviewer/Splitter

NTI Part #	Supported Features
SPLITMUX-DVI-4	Quad screen splitter w/ KVM switch
SPLITMUX-DVI-4RT	Advanced quad screen splitter w/ KVM switch & real-time video