

MultiViewer KVM switch



Real Time Multiviewer & Quad KVM Switch

The MultiViewer KVM switch simultaneously displays four analog or digital computers and video sources on a single screen in real time and with fluid video performance at full refresh rates without frame dropping. Each input video can be resized and repositioned anywhere on the display. Computer sources can be controlled with just one keyboard and mouse or by touch screen. Additionally, the transparent high-speed USB 2.0 matrix allows switching of USB devices like printers, memory sticks or fingerprint readers to all computers. HDMI-Audio with 7.1 surround sound is also supported. The implementation of HDCP ensures full compliance with a complete range of multimedia computers, video players, displays and projectors.

Fluid video performance, DVI & VGA, HDMI, HDCP

The MultiViewer KVM switch can process analog and digital video signals via DVI-I ports (HDMI by adapter) as both input and output. Various video modes up to 1920 x 1200, including HDTV resolutions with HDCP encryption, are supported in any combination as input and output. Each video source can be freely resized and repositioned anywhere on the display. The MultiViewer KVM switch features fluid video performance in real time without frame dropping, allowing for perfect display of movies and animated content. When scaling videos up and down, the highly sophisticated 6-symbol interpolation filter guarantees brilliant image quality and sharp readability of text. The 30 bit RGB video engine ensures extremely precise rendering of colors as required in broadcasting.

Display modes: Quad, PiP, Full, Win, Image Rotation

In Win mode, all video sources can freely be resized and independently repositioned anywhere on the display, just like windows. They can overlap each other with transparent appearance. Resizing and repositioning is done by mouse or touch screen. Four customized Win modes can be saved for quick activation e. g. via front buttons 1-4.

In Quad mode, the screen is divided into four equally-sized areas. Each field displays the entire screen content of a video source or computer. When the PiP (Picture in Picture) function is activated, up to all three other video sources are displayed on the right-hand side of the full-screen image as thumbnails, allowing them to be monitored simultaneously. Size, position and selection of these thumbnails can be adjusted. In **Full mode**, a single source is displayed at full resolution and the entire content is fully visible. For vertically mounted displays, like it is often required in digital signage applications, it is possible to rotate each input image. To display more than four sources simultaneously on a single screen, the MultiViewer KVM switch can be cascaded.

Transparent USB 2.0 matrix

The MultiViewer KVM switch features a transparent, high-speed USB 2.0 matrix to switch USB devices like finger print readers, memory sticks, and webcams to computers connected. The switching can be performed automatically with the active channel, or manually with and without warning. For example, a single finger print reader can be used to log in on all computers connected. Data can be copied from one computer connected to V-Switch quad XP to the other without being networked – just via memory stick connected to one of the four USB 2.0 ports on the rear panel of the MultiViewer KVM switch.

PS/2 & USB, Audio

Computers with PS/2 and USB keyboard and mouse can be connected to the MultiViewer KVM switch. In addition, it supports 7.1 surround sound via HDMI input. Audio signal is output via HDMI, S/PDIF (TOSLINK and RCA), or 2-channel analog stereo jack. The analog output is galvanically isolated to eliminate noise and humming induced by ground-loops. The volume can be controlled via the on-screen display (OSD) or with the audio keys on multimedia keyboards.

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Quad mode



PiP mode



Win mode

Operation

There are six different ways of switching video channels and display modes: front panel buttons, configurable keyboard shortcuts (hotkeys), mouse (hotmouse function), external device configuration program, serial control devices via DCP-XML protocol, and various models of USB touch screens. To operate the MultiViewer KVM switch, neither PC driver software nor a control computer is required.

Serial control, remote access, touch screen compatibility

MultiViewer KVM switch supports external serial control via DCP-XML protocol. Combined with KVM-over-IP extenders, the MultiViewer KVM switch enables location-independent remote control of the attached KVM devices. The MultiViewer KVM switch is compatible with many USB touch screen models. While showing all sources simultaneously on the screen, they can be controlled with the touch of a finger.

Scope of supply

4 x connection cable set 2m
1 x console cable + converter USB-PS/2
1 x update cable, CD with manual

Technical data	
Casing:	Stainless steel, powder coated, dimensions: 436 x 234 x 44 mm (W x D x H), color: black (RAL 9005)
Computer ports:	4 x DVI-I (analog & digital), 4 x PS/2, 4 x USB, HDMI by adapter
Console ports:	1 x DVI-I, 2 x USB for keyboard and mouse or touch screen, HDMI by adapter
USB 2.0 ports:	4 x USB for transparent USB 2.0 devices (USB 1.1 down compatible)
Audio ports:	Input: HDMI via 4 x DVI-I ports Output: 1 x S/PDIF optical & electrical, 1 x analog stereo jack, or via HDMI at 1x DVI-I port (7.1 surround sound supported)
Serial ports:	1 x USB, 1 x RJ/45 (RS232) (for updates or remote control))
Input and output resolution:	Up to 1920 x 1200 @ 60 (DVI & VGA), HDTV modes supported up to 1920 x 1080 @ 60 Hz, progressive (non-interlaced) with reduced blanking interval
Color depth:	30 bit ultra high color resolution (DVI & VGA)
Filter:	6-symbol interpolation filter for brilliant image quality and sharp readability of text
Touch screen compatibility:	Various USB touch screen models supported: details available upon request
EDID adjustment:	EDID at each input port customizable
Supported keyboard layouts:	German, English, Spanish, French, Italian, Japanese
OSD languages:	German, English, Spanish
Power supply:	Internal AC adapter, 100-240V, 50/60 Hz
Power consumption:	Max. 25 watts (0 watt in OFF state)
Operating temperature:	5° C bis 45° C
Storage temperature:	-10° C bis 60° C
Relative humidity:	5 to 85% non-condensing
Weight:	2,9 kg
Certificates:	CE, FCC, RoHS compliant