UltraView DVI

- 1×16 USB2.0 DVI KVM switch
- Independent switching of KVM, USB 2.0 and audio
- Supports resolutions up to 1920 x 1200
- Keyboard, mouse, and monitor EDID emulation
- Several options to switch locally and remotely including front panel, hotkeys, serial, IR and TCP/IP
- Stereo audio selection and switching

Features and Benefits

- Supports single-link DVI video input / output
- Input/output resolutions up to 1920×1200
- Zero-pixel loss with TMDS signal correction
- Supports all USB 2.0 devices, including flash drives, printers, cameras, and scanners
- Supports USB-HID keyboard and mouse
- All USB speeds supported
- Balanced stereo audio output
- Front panel buttons and LCD display for local manual control
- Serial RS-232 remote control
- Optional IR and TCP/IP remote control
- Hot-key commands for port switching
- Independent switching of KVM and peripheral USB 2.0 and audio ports
- USB Keyboard and mouse emulation for trouble free booting
- Computers can be up to 40 feet away from the KVM console with 20 feet on either side of the switch
- Has the capacity to detect or “learn” what type of monitor is connected to the switch and emulate it across all ports
- Flash upgradeable firmware and rack-mountable

Product Overview

The UltraView DVI is the latest addition to Rose Electronics line of KVM switches supporting digital video, USB keyboard and mouse, stereo audio, and USB 2.0 peripherals.

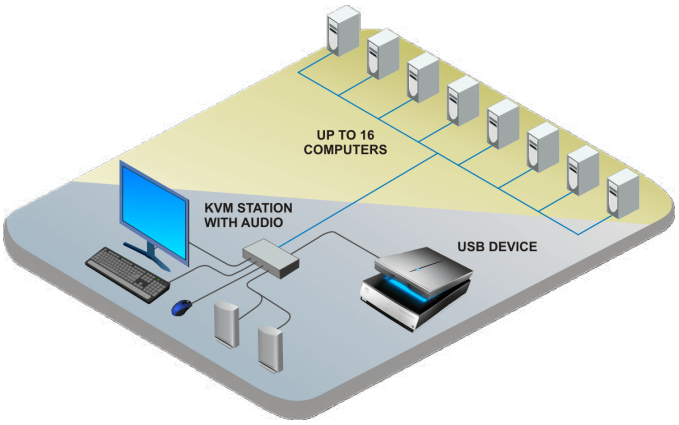
Up to sixteen computers, USB 2.0 devices and audio inputs can be connected to the switch for single user access and control. The unit switches the keyboard, video, and mouse along with audio and USB 2.0 devices. The KVM can also be switched independently of the audio and USB 2.0 peripherals. USB emulation technology enables immediate hotkey source switching using the USB keyboard and mouse.

The UltraView DVI provides switching locally from the front panel control buttons, from the keyboard hot-keys, or through the RS-232 port. The product can be remote controlled using IR or by IP access using an external serial to TCP/IP converter device.

Display EDID information supplied to computers can be one of two standard tables suitable for PC and Mac or can be acquired from an attached display. The unit then emulates the discovered EDID information and emulates it at all ports so that the computers attached at those ports will have access to it when it is booting up.

The unit is able to handle several resolutions up to 1920×1200@60Hz (WUXGA).

Typical Application



Installation Installing the UltraView DVI consists of connecting up to 16 DVI computer video sources to the video inputs along with their associated USB inputs and stereo audio outputs. Attach the user's monitor, keyboard and mouse, USB 2.0 peripherals, and stereo speakers to the console connectors. Apply power to the monitor and the switch, then apply power to the computers.

Models The UltraView DVI is available in a single 16 computer port model.

Cables Single-link DVI-D cables, 3.5mm stereo audio cables, and USB A-B cables are used to connect computers to the UltraView DVI inputs. The DVI monitor connects directly to the switch.

Keyboard and Mouse The UltraView DVI provides rapid and accurate source switching using keyboard hotkeys by emulating a keyboard and mouse for every CPU port.

Flexible Peripheral Sharing A key feature of this product is the ability to independently and simultaneously select and use different peripheral devices. For example, a user can listen to audio from one computer while accessing the hard drive of a different computer.

Operation The user console can be switched to any of the connected computers by front panel buttons, keyboard hot-keys, serial controller, optional infrared remote control, or optional TCP/IP control.

Specifications

Dimensions (W x D x H)	17" x 7.5" x 3.62" 432 x 190.5 x 92 mm
Weight	5.3 lbs (2.4 kg)
Power	100-240 VAC, 50-60Hz +5V 4A, 20W
Video resolution	Up to 1920×1200@60Hz
Video format	Single-link DVI-D (1.0), WUXGA
Video cables	Input/output up to 20ft (6.0m) each side
Max pixel clock	165MHz
Input equalization	Automatic
DDC	5 volts p-p (TTL)
USB signal type	USB2.0, USB1.1 and USB1.0
Audio	Impedance: 600 Ohm Frequency Response: 20Hz to 20kHz Nominal level: 0-1.0V Common Mode: Rejection at 60dB
Serial port	RS-232 DB9(F) at 115,200bps
Front panel	2 push buttons and 2×20 LCD display
Connectors	**Input:** DVI-D: 16×DVI-D 29-pin female USB: 16× USB Type B Audio: 16× 3.5mm stereo audio **Output:** DVI-D: 1×DVI-D 29-pin female USB: 2 USB Type A for keyboard/mouse USB: 2 USB Type A for USB2.0 devices Audio: 1× 3.5mm stereo audio **Control:** 1 x RS232 DB9 female 1 x Infrared jack Power: Barrel jack
Rackmount	Optional brackets available
Environment	Operating temp: 32°F – 131°F (0°C – 55°C) Storage temp: -4°F – 185°F (-20°C – 85°C) Rel. humidity: up to 90%, non-condensing
Approvals	UL, CE, RoHS compliant

Part numbers

UVD-1X16DVI/UA1	1×16 KVM DVI/USB/Audio Switch
CAB-DVIDMMnnn	DVI-D male to male cable, nnn = length
CAB-USBABnnn	USB type A/B cable, nnn = length
CAB-SPMMnnn	Stereo audio cable, nnn = length
CAB-D9MFnnn	Serial RS-232 cable (M/F), nnn = length
RM-FR19	19" rackmount shelf

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