



- ▶ Consolidate access and control of 4 Ultra-HD computers using a single HDMI monitor and USB keyboard/mouse.
- ▶ Supports 4K Ultra-HD video resolutions up to 3840×2160@30Hz
- ▶ Supports USB2.0 devices, USB keyboard/mouse.
- ▶ Access and control the switch via USB keyboard and mouse hotkeys, RS232 serial port or optional TCP/IP.
- ▶ Full USB keyboard and mouse emulation

## Features and Benefits

- Supports 1080p, 1080p 3D and 4K Ultra-HD, 36-bit color (3840×2160) @30Hz
- HDMI 1.4 (with audio) and HDCP compliant.
- Fully supported with Mac, PC, Linux, Sun Mac OS, Sun OS and Unix
- Supports USB2.0 devices, and USB-HID keyboard/mouse
- HDMI audio support, LPCM7.1, Dolby True HD, Dolby Digital Plus and DTS-HD Master Audio
- Access and control the switch via front panel (2 x 20) LCD and push buttons, keyboard hot-keys, RS-232 serial or optional TCP/IP (using TCP/IP over serial)
- Serial control interface via the DB9 serial port using the Rose RCS-4RS/D9 4-port remote control switch
- EDID learning and programming for all ports
- Zero-pixel loss with TMDS signal correction
- Independent switching and operation of the KVM station and USB2.0 ports
- Complete keyboard emulation for error free booting of connected PC's and servers

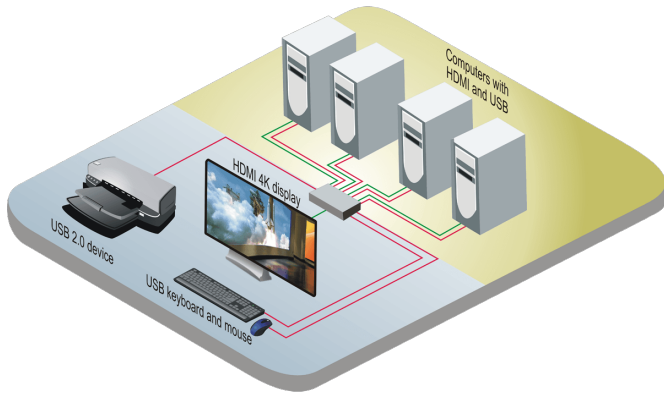
## Product Overview

The Vista HDMI 4K is a 4-port HDMI KVM Switch with 4K Ultra-HD video support and USB2.0 sharing.

This dedicated multiplatform KVM switch is capable of managing four computers using a single HDMI high-resolution monitor with USB keyboard and mouse control. Management of the switch can be controlled through the front panel (2 x 20) LCD display with push-buttons, via keyboard hotkeys or RS-232 serial port commands. Considerable cost savings can be realized by consolidating the user control into a single monitor, keyboard and mouse workstation, with host USB2.0 support and HDCP compliance.

The Vista HDMI 4K features plug-and-play EDID, making the switch easy to implement in virtually any application. Upon power-up, the switch automatically learns and copies the display EDID to all ports. The plug-and-play EDID helps make switching hassle free and simple

## Typical Application



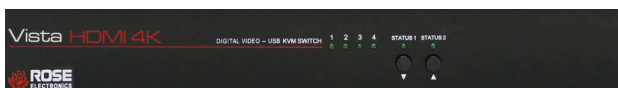
**Applications** The increasing use of Ultra-HD PC's and servers requires a KVM switching solution that maintains the high-quality video resolution and ensures there is no USB keyboard or mouse delay when switching between connected servers.

The Vista HDMI 4K can be used for high quality HD video solutions in medical imaging, industrial production, broadcasting and editing suites and defense modeling applications.

PC's and video servers are increasingly equipped with 4K Ultra-HD video cards that have four times the resolution of standard 1080p video.

The Vista HDMI 4K will support ultra-high video resolutions including 3D video with embedded HDMI digital audio signals.

Common switching applications	
Medical Imaging	Control Rooms
Broadcast Studios	A/V Presentations
Dealing Rooms	Modeling and simulation
Airport Control Systems	Resort Displays
Industrial Systems	Police and Defense



Vista HDMI 4K front panel



Vista HDMI 4K rear panel

## Vista HDMI 4K Operation

**Source Switching Made Easy.** Connect a single HDMI and USB cable from each Ultra-HD computer to the Vista HDMI 4K, then connect your HDMI workstation and USB2.0 devices to the switch. It's that easy. No complicated configuration, and no software required.

**Flexible Control.** The easiest method of switching between host computers is to use keyboard "hot-keys". Alternatively, the switch can be controlled using the front panel LCD and buttons, or accessed via RS-232 serial port protocol, or via optional TCP-IP control. If your user workstation needs to be located up to 330ft (100 meters) from the switch, use our low-cost HDMI/USB extender to separate the host computers from the user environment.

**Flexible Sharing.** The USB2.0 ports operate simultaneously and independently from the USB keyboard and mouse ports, enabling connection of your USB2.0 devices to one or more computers, while simultaneously operating a different computer via the USB keyboard and mouse.

**Full USB Keyboard/Mouse Emulation.** The Vista HDMI 4K continuously simulates the connection of a USB keyboard and mouse to each connected computer, so that keyboard and mouse control is uninterrupted when switching between different computers.

**Hotkey Commands.** The hotkey commands are triggered through the use of the keyboard connected to the USB-HID port of the switch. To activate, simply press the CTRL key twice and then enter the desired hotkey commands.

**RS-232 Control.** Use a straight-through serial cable to control the Vista HDMI 4K using serial commands, up to 50ft (15 meters) from the switch. The push-button Rose Remote Control Switch is the ideal product for this application.

## Part numbers

<b>KVM-4THD/4K</b>	Vista HDMI 4K, 4 Port KVM Switch, HDMI+USB2.0, 2K/4K
<b>CAB-HDMIMM006</b>	HDMI M/M 6ft (2.0m) cable
<b>CAB-HDMIMM010</b>	HDMI M/M 10ft (3.0m) cable
<b>CAB-USBAB006</b>	USB-AB 6ft (2.0m) cable
<b>CAB-USBAB010</b>	USB-AB 10ft (3.0m) cable
<b>RCS-4RS/D9/SW</b>	Accessory: 4-port push button DB9 Serial Control Switch
<b>RM-FR19</b>	19" Rackmount Shelf

## Specifications

<b>Dimensions (W x D x H)</b>	12.75 x 5.75 x 2.0-inch 324 x 146 x 50 mm
<b>Weight</b>	3.5lb (1.6Kg)
<b>Power</b>	100-240VAC, 5V/2A, 20W
<b>Input Connectors</b>	4 x HDMI (female) 1.4 4 x USB-B Type 4 x 3.5mm stereo audio jack 1 x RS-232 (DB9F)
<b>Output Connectors</b>	1 x HDMI 1.4 (female) 2 x USB-A (Keyboard and mouse) 2 x USB-A USB2.0 1 x 3.5mm stereo audio jack
<b>Video Format</b>	HDMI 1.4
<b>Video Resolution</b>	1080p @60Hz and 1080p 3D at 60Hz, Up to 4K 3840 x 2160 @30Hz
<b>Input Equalization</b>	Automatic
<b>Pixel Clock Speed</b>	300MHz
<b>Bandwidth Freq.</b>	10.2Gbps
<b>USB</b>	2 x USB-A Type (HID) 2-port USB2.0 internal hub, USB-A Type
<b>USB Input</b>	4 USB-B Type
<b>Video Input and Output cable length</b>	Up to 20ft (6.0m) each side
<b>Switch Control</b>	2 x 20 character LCD screen with source selection buttons RS-232 DB9(F) Keyboard
<b>Emulation</b>	Keyboard and mouse
<b>Serial</b>	RS-232, DB9(F), 9600bps
<b>Supported Devices</b>	PC's, Mac, Sun
<b>Supported OS</b>	Windows, Linux, Mac OS, Sun OS, Unix
<b>Audio</b>	Frequency response: 20Hz ~ 20KHz Nominal Level: 0 to 1.0V Common Mode: Rejection @60dB
<b>Ethernet Support</b>	Optional via Serial/TCP-IP link
<b>Operating Temp</b>	23°F to 95°F (-5 °C to 35 °C)
<b>Storage Temp</b>	-4°F to 185°F (-20 °C to 85 °C)
<b>Rel. Humidity</b>	5-90% non-condensing
<b>Product Approvals</b>	UL, CE, RoHS

## Other products from Rose



Vista DP  
1x4 DisplayPort KVM switch



MultiVideo HDMI  
1x4 Multi-head HDMI KVM switch



Vista KM III  
1x4 HDMI KM switch (no video)



CrystalView HDMI 4K60  
HDMI extender over CATx cabling

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