

TECHNICAL SPECIFICATIONS

VIDEO	
Format	HDMI 1.4
Maximum Pixel Clock	300 MHz
Input Interface	(4) HDMI 19-pin (female)
Output Interface	HDMI 19-pin (female)
Max Resolution	4Kx2K (3840x2160 @30Hz), 1080P @ 60Hz, and 1080P 3D @60Hz
DDC	5 volts p-p (TTL)
Input Equalization	Automatic
Input Cable Length	Up to 20 ft.
Output Cable Length	Up to 20 ft.
Bandwidth Frequency	10.2 Gbps

USB	
Signal Type	USB 2.0, 1.1, and 1.0 w/ internal hub
Input Interface	(4) USB Type B (female)
Output Interface	(2) USB Type A (female) for keyboard and mouse only (2) USB Type A (female) for USB 2.0

CONTROL	
Front Panel	Tactile Switch
RS-232	Via Control @ 9600 bps
Hotkeys	Via Keyboard
Emulation	Keyboard and mouse only

OTHER	
Power	External 100-240 VAC/ 5VDC4A @20W
Dimensions	1.71" H x 6.34" D x 12.5" W
Weight	3.5 lbs.
Approvals	UL, CE, ROHS Compliant
Operating Temp.	32-131 °F (0-55 °C)
Storage Temp.	-4-185 °F (-20-85 °C)
Humidity	Up to 95%

WHAT'S IN THE BOX

PART NO.	QTY	DESCRIPTION
HDN-4Plus-S	1	4-Port 4K Ultra HD HDMI and USB 2.0 Switch. Includes: [HDN-4Plus & (PS5VDC4A)]
User Manual	1	



Designed and Manufactured in the USA

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SMART AUDIO VIDEO INNOVATION

HDNET-4Plus

4-Port HDMI KVM Switch with 4K Ultra HD and USB 2.0 Sharing



Access and Control Four 4K Ultra HD Computers Using Only One USB Keyboard, USB Mouse and HDMI Monitor with Full Emulation

USER MANUAL

INTRODUCTION

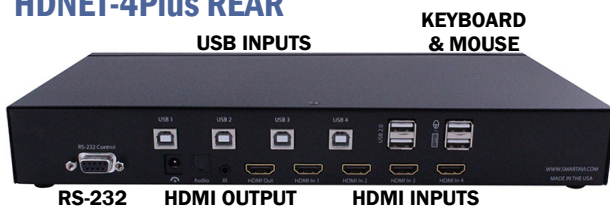
HDNet-4Plus is a dedicated multi-platform KVM switch capable of managing up to four different computers through a single HDMI monitor, USB keyboard & mouse, and USB 2.0 devices. This is the first KVM switch on the market that features support for 4K Ultra HD (3840x2160 @30Hz) works stations. The device also features SmartPreview technology, which enables simultaneous picture-in-picture monitoring of the other sources connected to the switch.

In addition, the HDNet-4Plus features USB keyboard and mouse emulation for faster and reliable switching through the use of hotkey sequence commands. It is also RS-232 compliant, capable of being controlled remotely via third-party software.

FEATURES

- Switches four Ultra HD sources to one Ultra HD display
- Supports resolutions up to 4K Ultra HD (3820x2160 @30Hz), including 1080p (@60Hz) full HD
- Uses HDMI 1.4 ports
- Supports all USB 2.0 Devices (Flash drives, Printers, Cameras, Scanners, etc.)
- Supports USB keyboard and mouse emulation
- Offers *SmartPreview* picture-in-picture technology
- Front panel tactile switch with LED display for local control
- S/PDIF digital audio output
- RS-232 control for additional control
- Special Hotkey keyboard sequence to switch independent simultaneous device selection: Flexibility is key to the HDNet-4Plus

HDNET-4Plus REAR



CONNECTING THE HDNET-4Plus

1. Ensure that power is disconnected from the HDNet-4Plus.
2. Connect the HDMI cables and USB cables (male-A to male-B) from the computers to the respective ports on the HDNet-4Plus.
3. Optionally connect RS-232 for control functions.
4. Connect the USB keyboard and mouse on the two USB ports on the right (close to the RS-232 port). **Note:** The two USB ports on the right are dedicated for keyboard and mouse emulation only. The two on the left are for other USB peripherals (flash drives, printers, etc.)
5. Optionally connect speakers into the S/PDIF port located to the right of the power connector.
6. Connect the display monitor to the *HDMI OUT* connector on the HDNet-4Plus.
7. Power on the HDNet-4Plus.

CONTROLLING THE HDNET-4Plus

Front Panel Control

To switch ports using the front panel, press the *UP* button to navigate up and *DOWN* button for down.

RS-232 Control

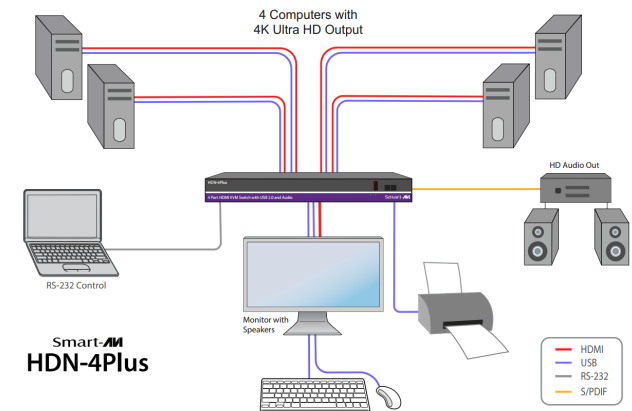
Use a male-to-female serial cable to connect a computer to the RS-232 port of the HDNet-4Plus. Use terminal client software such as the **HyperTerminal** to connect to the HDNet-4Plus. Make sure to use the standard communication mode of 9600 bps, 8, N, 1. This port can also be used for software upgrade. Please refer to online manual for more details.

Hotkey Commands

The Hotkey command is a keyboard sequence used to trigger an action on the HDNet-4Plus through the use of the keyboard connected on the USB port of the HDNet-4Plus. To activate the hotkey sequence, press the **CTRL** key twice and then enter the desired hotkey commands.

COMMANDS	HOTKEYS	RS-232 CONTROL
Switch all devices (KVM, USB 2.0, and Audio)	[CTRL] [CTRL] m [port #] [ENTER]	// m [port #]<CR>
Switch KVM only	[CTRL] [CTRL] c [port #] [ENTER]	// c [port #]<CR>
SmartPreview	[CTRL] [CTRL] p [ENTER]	// p
Query	N/A	// q

APPLICATION DIAGRAM



EDID LEARNING

The HDNet-4Plus features plug-and-play EDID, making the switch easy to implement in virtually any scenario. As soon as a user plugs in a monitor, the switch automatically learns and copies the EDID to all of the ports. The plug-and-play EDID helps make switching hassle free and simple.