TECHNICAL SPECIFICATIONS

VIDEO	
Format	HDMI 1.4
Maximum Pixel Clock	300 MHz
Input Interface	(8) 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

OTHER	
Power	External 100-240 VAC/ 5VDC4A @20W
Dimensions	1.75" H x 6.25" D x 14.75" W
Weight	3.5 lbs.
Approvals	UL, CE, ROHS Compliant
Operating Temp.	23 to 95 °F (-5 to 35 °C)
Storage Temp.	-4 to 185 °F (-20 to 85 °C)
Humidity	5 to 95%RH (No Condensation)

USB	
Signal Type	USB 2.0, 1.1, and 1.0 w/ internal hub
Input Interface	(8) 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

WHAT'S IN THE BOX

PART NO.	QTY	DESCRIPTION
HDN-8P-S	1	8-Port 4K Ultra HD HDMI and USB 2.0 Switch. Includes: [HDN-8P & (PS5VDC4A)]
User Manual	1	

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

Designed and Manufactured in the USA

Smart-AVI
SMART AUDIO VIDEO INNOVATION

HDN-8P

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

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

800.AVI.2131

Tel: (818) 503-6200 Fax: (818) 503-6208
11651 Vanowen St. North Hollywood, CA 91605
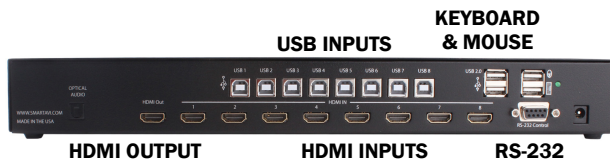
SmartAVI.com

USER MANUAL

INTRODUCTION

HDN-8P is a dedicated multi-platform KVM switch capable of managing up to eight 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.

In addition, the HDN-8P 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 eight 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
- 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 HDN-8P

CONNECTING THE HDN-8P

1. Ensure that power is disconnected from the HDN-8P.
2. Connect the HDMI cables and USB cables (male-A to male-B) from the computers to the respective ports on the HDN-8P.
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 HDN-8P.
7. Power on the HDN-8P.

CONTROLLING THE HDN-8P

Front Panel Control
To switch ports using the front panel, press the *UP* button to navigate up and *DOWN* button for down.
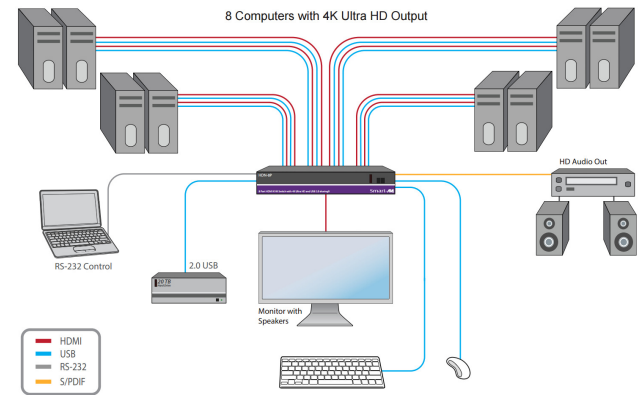
RS-232 Control
Use a male-to-female serial cable to connect a computer to the RS-232 port of the HDN-8P. Use terminal client software such as the **HyperTerminal** to connect to the HDN-8P. Make sure to use the standard communication mode of 9600 bps, 8, N, 1. This port can also be used for software 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 HDN-8P through the use of the keyboard connected on the USB port of the HDN-8P. To activate the hotkey sequence, press the **CTRL** key twice and then enter the desired hotkey commands.

APPLICATION DIAGRAM

8 Computers with 4K Ultra HD Output

EDID LEARNING

The HDN-8P 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 unit automatically learns and copies the EDID to all of the ports. The plug-and-play EDID helps make switching hassle free and simple.

HDN-8P REAR

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>
Query (to request current port # selected)	[CTRL] [CTRL] q	//q