

TECHNICAL SPECIFICATIONS

VIDEO	
Format	HDMI 1.4
Maximum Pixel Clock	300 MHz
Input Interface	(8) HDMI 19-pin (female)
Output Interface	(1) 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 with 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
CONTROL	
Front Panel	Buttons
RS-232	DB9 Female, 9600 bps, N, 8 1, No flow control
Hotkeys	Via Keyboard
OTHER	
Emulation	Keyboard and mouse
Power Adapter	5VDC4A
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)

WHAT'S IN THE BOX

PART NO.	QTY	DESCRIPTION
HDN-8P-S	1	8-Port 4K Ultra HD HDMI and USB 2.0 Switch
PS5VDC4A	1	Power Supply
BRK-HDN-8P	2	Rack Mount Brackets
	1	Quick Start Guide

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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

Quick Start Guide

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. This KVM switch features support for 4K Ultra HD (3840x2160 @30Hz) resolution and USB 2.0 devices. In addition, the HDN-8P features USB keyboard and mouse emulation for faster and reliable switching through the use of Front Panel buttons and hotkey sequence commands. It is also RS-232 compliant and capable of being controlled remotely via third-party software.

CONTROLLING THE HDN-8P

Front Panel Control

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

RS-232 Control

Connect a computer to the RS-232 port of the HDN-8P. Use terminal client software such as the PuTTY to connect to the HDN-8P. Make sure to use the communication mode of 9600 bps, 8, N, 1, No flow control. This port can also be used for software upgrade.

Hotkey Commands

A 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.

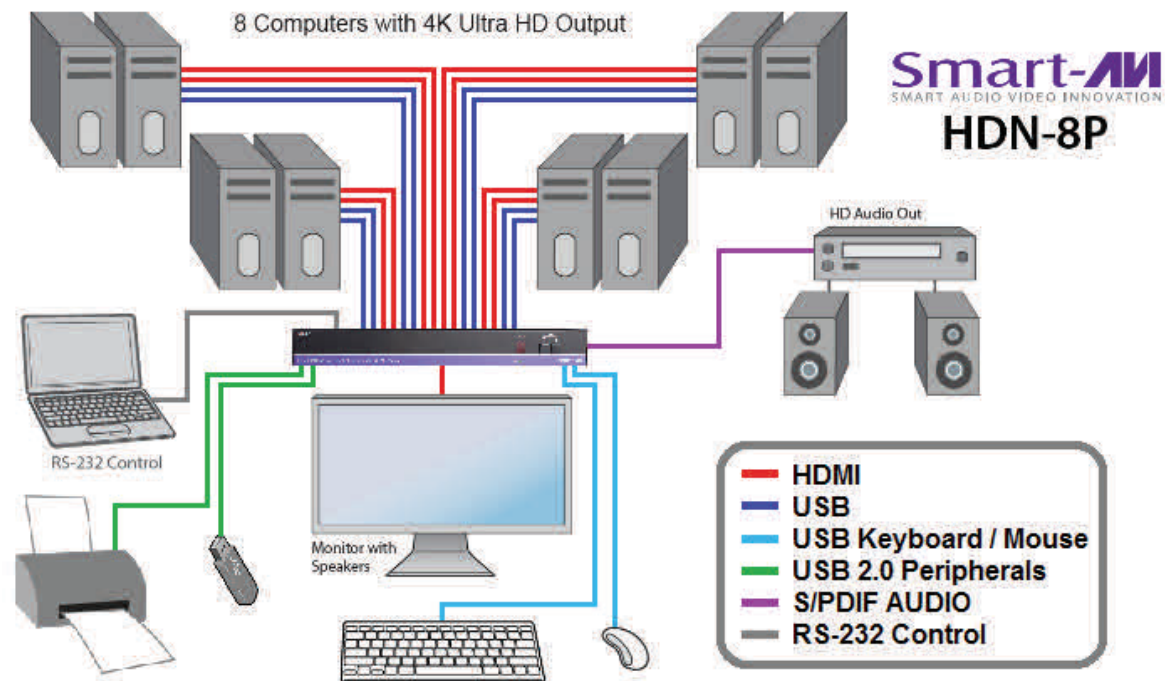
EDID LEARNING

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.



CONNECTING PRODUCT

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 to the two USB ports with keyboard and mouse symbols.
5. Optionally connect speakers to the S/PDIF Optical Audio port.
6. Optionally connect up to 2 USB peripheral devices such as printers or flash drives.
7. Connect the display monitor to the HDMI OUT connector on the HDN-8P.
8. Power on the HDN-8P.



COMMANDS	HOTKEYS	RS-232 CONTROL
Switch all devices (KVM, USB 2.0, and Audio)	[CTRL] [CTRL] m [port #] [ENTER]	//m [port #] [ENTER]
Switch KVM only	[CTRL] [CTRL] c [port #] [ENTER]	//c [port #] [ENTER]
Switch USB 2.0 only	[CTRL] [CTRL] u [port #] [ENTER]	//u [port #] [ENTER]
EDID Learning	[CTRL] [CTRL] e [ENTER]	//e [ENTER]
Select Next Port Up	[CTRL] [CTRL] ↑	n/a
Select Next Port Down	[CTRL] [CTRL] ↓	n/a
Query	[CTRL] [CTRL] q	//q
Reset	[CTRL] [CTRL] r	//r