# TECHNICAL SPECIFICATION

| VIDEO | |
|---|---|
| Format | DVI-D Single Link, DVI 1.0 |
| Maximum Pixel Clock | 165 MHz |
| Input Interface | (4) DVI-D 29-pin |
| Output Interface | (1) DVI-D 29-pin |
| Resolution | Up to 1920 x 1200 @60Hz |
| DDC | 5 volts p-p (TTL) |
| Input Equalization | Automatic |
| Input Cable Length | Up to 20 ft |
| Output Cable Length | Up to 20 ft |
| **AUDIO** | |
| Input Interface | (4) 3.5 mm Stereo Audio |
| Output Interface | (1) 3.5 mm Stereo Audio |
| Impedance | 600 Ohm |
| Frequency Response | 20 Hz to 20 kHz |
| Nominal Level | 0-1.0 V |
| Common Mode | Rejection at 60 dB |
| **USB** | |
| Signal Type | USB 2.0, 1.1, and 1.0 w/ internal hub |
| Input Interface | (4) USB Type B |
| Output Interface | (2) USB 1.1 Type A for KVM Devices; (2) USB 2.0 Type A Transparent |
| **CONTROL** | |
| Front Panel | Tactile Switch, with Seven Segment Display |
| RS-232 | Via Control @ 115200, N, 8, 1, No Flow Control |
| Hot Keys | Via Keyboard |
| **OTHER** | |
| Power | External 100-240 VAC/ 5VDC4A |
| Dimensions | 12.63"W x 5.75"D x 1.875"H |
| Weight | 3.2 lbs |
| Approvals | UL, CE, ROHS Compliant |
| Operating Temp. | 0-55 °C (32-131 °F) |
| Storage Temp. | -20-85 °C (-4-185 °F) |
| Humidity | Up to 95% |
| Emulation | Keyboard and Mouse |

## WHAT'S IN THE BOX

| PART NO. | Q-TY | DESCRIPTION |
|---|---|---|
| DVN-4PRO-S | 1 | 4x1 DVI-D, USB 2.0, Audio Switch |
| PS5VDC4A | 1 | PS5VD4A Power Supply |
| Quick Start Guide | 1 | |

## NOTICE

DESIGNED AND MADE IN THE USA

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# Smart-AVI
SMART AUDIO VIDEO INNOVATION

# DVN-4PRO

4-Port DVI-D KVM Switch with USB 2.0 and Audio



**ACCESS AND CONTROL 4 COMPUTERS USING ONLY ONE USB KEYBOARD, USB MOUSE AND DVI-D MONITOR**

# Quick Start Guide

# SYSTEM CONTROL

There are three ways to control the DVN-4PRO: Keyboard HotKeys, RS-232 Serial Commands, and Front Panel Buttons.
The settings for the serial connection are as follows:
Baud rate: **115200**; Data Bits: **8**; Parity: **None**; Stop Bits: **1**; Flow Control: **None**.

The following commands can be used:

| Command | HotKey | RS-232 |
|---|---|---|
| All USB, audio, video | `[CTRL][CTRL]`<br>`[port#][ENTER]` | `//m[port#]`<br>`[ENTER]` |
| Audio Only | `[CTRL][CTRL]`<br>`a[port#][ENTER]` | `//a[port#]`<br>`[ENTER]` |
| KM Only | `[CTRL][CTRL]`<br>`c[port#][ENTER]` | `//c[port#]`<br>`[ENTER]` |
| USB Only | `[CTRL][CTRL]`<br>`u[port#][ENTER]` | `//u[port#]`<br>`[ENTER]` |
| Learn EDID | `[CTRL][CTRL]`<br>`e[ENTER]` | `//e[ENTER]` |
| Trigger Hotplug | `[CTRL][CTRL]`<br>`h[ENTER]` | `//h[ENTER]` |
| Reset Software | `[CTRL][CTRL]r` | `//r[ENTER]` |
| Factory Defaults | `[CTRL][CTRL]f` | `//f[ENTER]` |
| Same as front panel ◀ M1 button | `[HK][HK]↑` | `N/A` |
| Same as front panel M2 ▶ button | `[HK][HK]↓` | `N/A` |
| Get Port Status | `N/A` | `//??[ENTER]` |

# CUSTOM HOTKEY TRIGGERS

Users are able to customize the keys that trigger Hotkeys. The following keys are allowed:

```
CTRL (Left / Right), ALT, SHIFT (Left / Right),
Caps Lock, Scroll Lock, F1–F12
```

**Change HK Trigger**
`HK + HK + X + desired hotkey`

**View Current HK Trigger**
Use the RS-232 command: `//??[ENTER]`
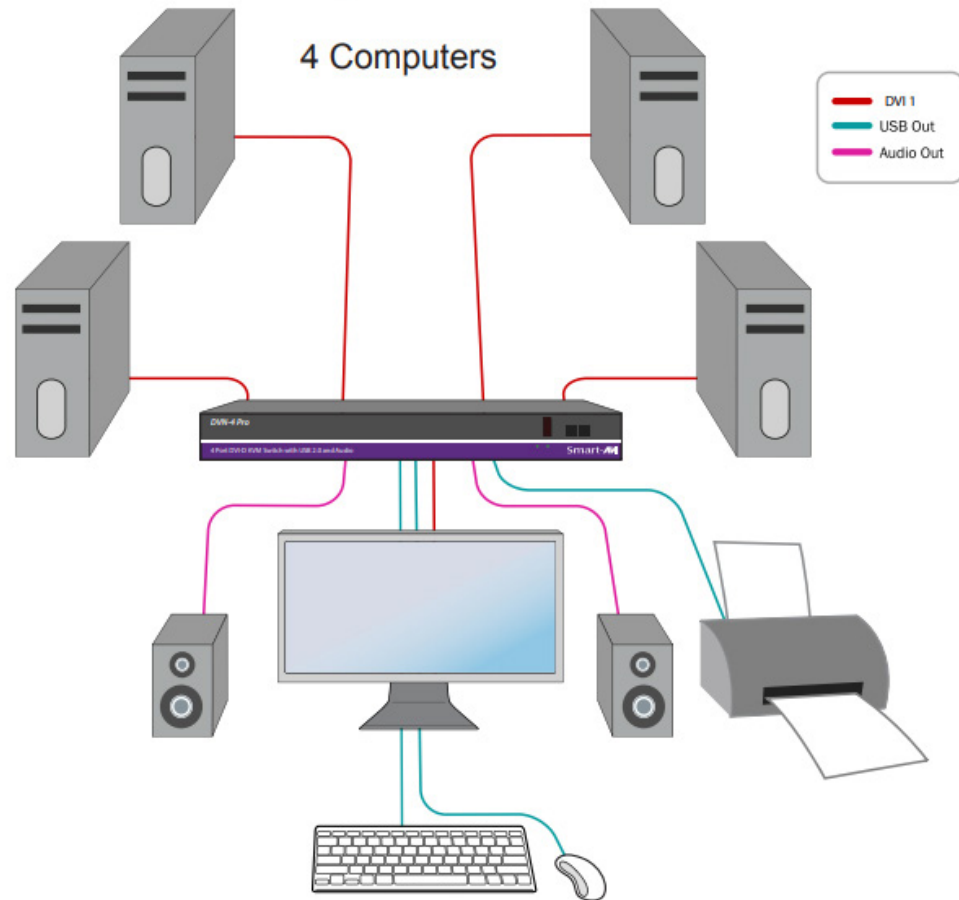
**Reset HK Trigger**
Run "Factory Defaults" command.

**Default HotKey Trigger**
`CTRL (Left)`

# HARDWARE INSTALLATION

1. Ensure that power is disconnected from DVN-4Pro.
2. Connect the DVI cables, USB cables (male-A to male-B), and audio cables from the computers to the respective ports on the DVN-4Pro.
3. Optionally connect RS-232 for control functions.
4. Connect the USB keyboard & mouse to the two USB ports labeled for keyboard & mouse.
5. Optionally connect USB peripherals to the 2 USB ports labeled USB 2.0.
6. Connect the speakers to the Audio Out port.
7. Connect the display monitor to the DVI OUT connector on the DVN-4Pro.
8. Power on the DVN-4Pro.



## DVN-4PRO FRONT



## DVN-4PRO BACK