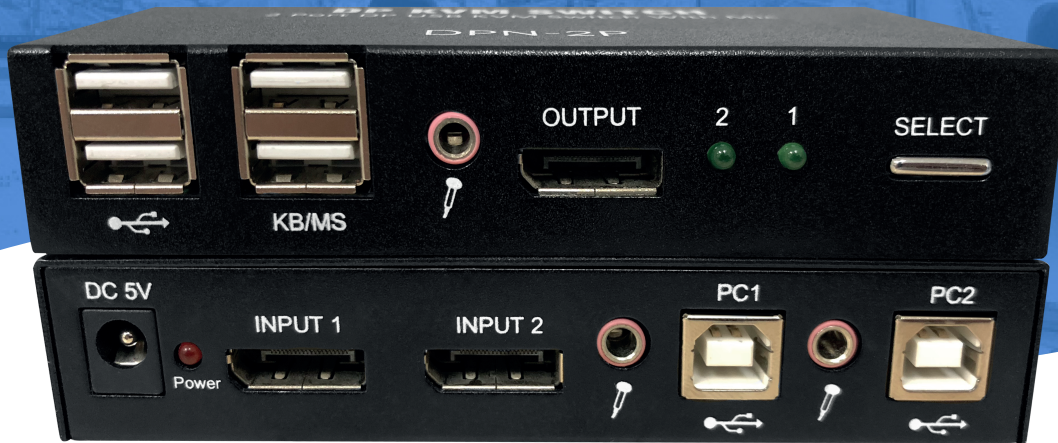


# DPN-2P

2-PORT DISPLAYPORT USB KVM SWITCH WITH MIC AUDIO AND USB 2.0 SUPPORT



ACCESS & CONTROL UP TO 2 COMPUTERS FROM A SINGLE WORKSTATION

## INSTALLATION MANUAL



Designed and Manufactured in the USA

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# WHAT'S IN THE BOX?

PART NO.	QTY	DESCRIPTION
DPN-2P	1	2-Port DisplayPort USB KVM Switch with Mic Audio and USB 2.0 Support
PS12VD2A	1	Power Adapter
	1	Quick Start Guide

Brackets for mounting this device in a standard 19" rack may be optionally ordered from Smart-AVI.



FIGURE 2-1



FIGURE 2-2

# INTRODUCTION

The DPN-2P is a dedicated multi-platform KVM switch capable of managing up to 2 different computers with a DisplayPort monitor and one USB keyboard & mouse.

The USB emulation technology utilized by the DPN-2P enables immediate hotkey source switching through a remote USB keyboard and mouse. The DPN-2P uses DisplayPort connectors providing high resolutions of up to 4K (3840x2160 @ 60Hz) with zero pixel loss from TMDS signal correction.

## SOURCE SWITCHING MADE EASY

The DPN-2P provides a simplified management approach for up to 2 computers with DisplayPort, Microphone, and USB 2.0 outputs. This dynamic KVM console can be controlled remotely from easily accessible keyboard hotkeys as well as directly through the console's easy to read front panel.

## FULL USB KEYBOARD AND MOUSE EMULATION

The USB keyboard and mouse emulation utilized by the DPN-2P provides accurate and quick source switching by means of keyboard hotkeys. The DPN-2P imitates the presence of a keyboard and mouse for every attached computer through a USB cable. This is essential to switch without interruptions as it avoids computers freezing or going into sleep mode when they don't detect a keyboard or mouse connection.

# FEATURES

- Zero pixel loss with TMDS signal correction
- Supports all USB 2.0 Devices
- Control Sun, Mac or PC computers from a common KVM console
- Compatible with all major software including Windows, Linux, Mac OS, Sun OS, Unix
- Rack mountable in a standard 19 inch rack (with optional rack brackets)
- Microphone Support
- Hot-key commands for quick channel selection
- Complete keyboard emulation for error free booting
- Top quality 4K (3840x2160 @60 Hz)

# APPLICATIONS

The main function of the DPN-2P is to centralize the access of up to two computers that support DisplayPort displays in a single workstation. Not only does it function as a KVM console, but it also supports USB 2.0 functionality. This allows users at the console to access USB devices that would otherwise be unavailable when using conventional KVM Switches. For example, it allows the use of a flash memory drive or camera without having to plug them directly into the remote computer. The DPN-2P is the ideal solution for medical, industrial, studio and defense applications where it is not practical or safe to have multiple CPU's in the vicinity of the workstation.

- Server Collocation
- Digital Signage
- Education
- Airports
- Control Rooms
- Audio/Visual Presentations
- Shopping Centers
- Hotels/Resorts

## VIDEO

Format	DisplayPort 1.2
Maximum Pixel Clock	165 MHz
Input Interface	(2) DisplayPort
Output Interface	(1) DisplayPort
Resolution	Up to 4K (3840x2160 @60Hz)
Input Equalization	Automatic
Input Cable Length	Up to 20 ft.
Output Cable Length	Up to 20 ft.
Data Rate	1.65 Gbps

## AUDIO

Input Interface	(2) 3.5 mm Mic Audio
Output Interface	(1) 3.5 mm Mic Audio
Impedance	600 Ohm
Frequency Responce	20 Hz to 20 kHz
Nominal Level	0-1.0 V
Common Mode	Rejection at 60 dB

## USB

Signal Type	USB 2.0
Input Interface	(2) USB Type B (female)
Output Interface	(2) USB 1.1 Type A (female) for keyboard and mouse (2) USB 2.0 Type A Transparent

## CONTROL

Front Panel	Buttons, Select/Switch between Video & Audio sources and view the current selected channel
Hot Keys	Via Keyboard

## OTHER

Power Adapter	External 100-240 VAC/5VDC2A
Dimensions	2" H x 6 " D x 12.75" W
Weight	1.75 lbs
Operating Temperature	+23 to +95°F (-5 to +35°C)
Storage Temperature	-4 to 185°F (-20 to 85°C)
Humidity	Up to 90% (No Condensation)
Emulation	Keyboard and mouse only

# HARDWARE INSTALLATION

1. Ensure that power is disconnected from the DPN-2P.
2. Connect the DisplayPort cables, USB cables (male-A to male-B) from the computers to the respective input ports on the DPN-2P.
3. Optionally connect Audio cables (3.5 mm jack) from the computers to the input port on the DPN-2P.
4. Connect the USB keyboard and mouse to the two USB ports marked for them on the right.
5. Connect the DisplayPort monitor to the OUT connectors on the DPN-2P.
6. Optionally Connect a microphone to the out jack on the DPN-2P.
7. Optionally Connect up to 2 USB devices to the DPN-2P.
8. Power on the DPN-2P.

**NOTE:** The 2 USB ports on the right are dedicated for keyboard and mouse emulation. The 2 on the left are for other USB peripherals (flash drives, printers, etc.).

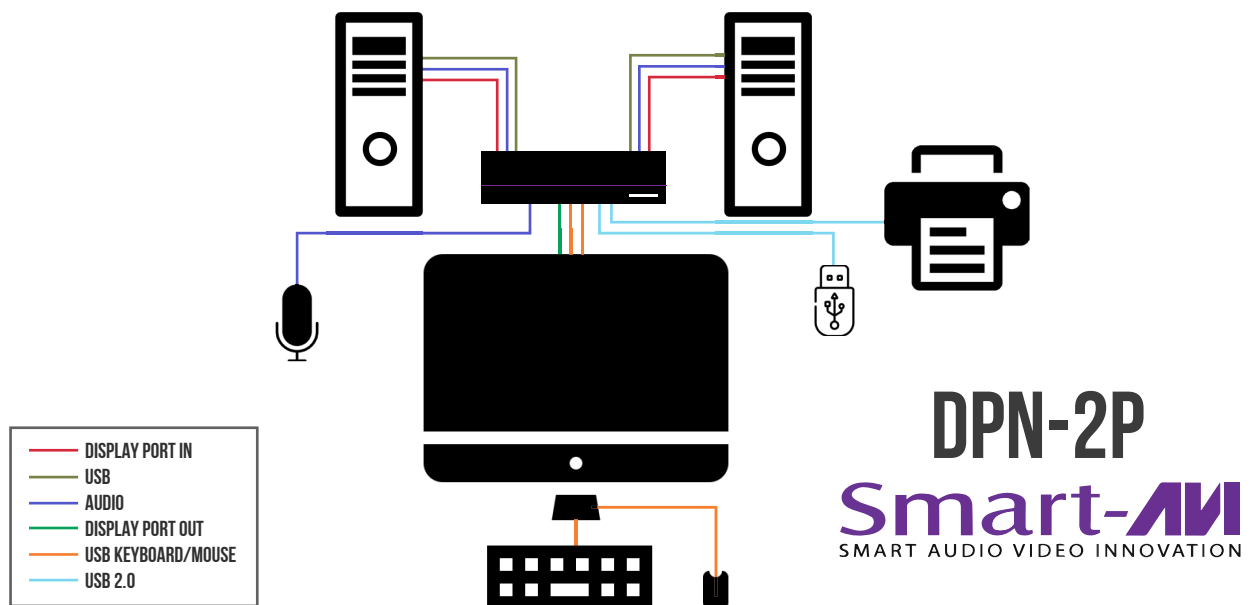


FIGURE 5-1  
DPN-2P REAR

# CONTROL

## Hotkey Commands

A Hotkey command is a keyboard sequence used to trigger an action on the DPN-2P through the use of the keyboard connected to the DPN-2P.

COMMANDS	HOTKEYS
Switch all devices (KVM, USB 2.0, AND Audio)	[CTRL] [CTRL] m [port #] [ENTER]
Switch KVM only	[CTRL] [CTRL] c [port #] [ENTER]
Switch audio only	[CTRL] [CTRL] a [port #] [ENTER]
Switch USB 2.0 only	[CTRL] [CTRL] u [port #] [ENTER]
Reset	[CTRL] [CTRL] r
Reset to Factory Defaults	[CTRL] [CTRL] f

# LIMITED WARRANTY STATEMENT

## **A. Extent of limited warranty**

Smart-AVI Technologies, Inc. warrants to the end-user customers that the Smart-AVI product specified above will be free from defects in materials and workmanship for the duration of 1 year, which duration begins on the date of purchase by the customer. Customer is responsible for maintaining proof of date of purchase. Smart-AVI limited warranty covers only those defects which arise as a result of normal use of the product, and do not apply to any:

- a. Improper or inadequate maintenance or modifications*
- b. Operations outside product specifications*
- c. Mechanical abuse and exposure to severe conditions*

If Smart-AVI receives, during applicable warranty period, a notice of defect, Smart-AVI will at its discretion replace or repair defective product. If Smart-AVI is unable to replace or repair defective product covered by the Smart-AVI warranty within reasonable period of time, Smart-AVI shall refund the cost of the product.

Smart-AVI shall have no obligation to repair, replace or refund unit until customer returns defective product to Smart-AVI.

Any replacement product could be new or like new, provided that it has functionality at least equal to that of the product being replaced.

Smart-AVI limited warranty is valid in any country where the covered product is distributed by Smart-AVI.

## **B. Limitations of warranty**

To the extent allowed by local law, neither Smart-AVI nor its third party suppliers make any other warranty or condition of any kind whether expressed or implied with respect to the Smart-AVI product, and specifically disclaim implied warranties or conditions of merchantability, satisfactory quality, and fitness for a particular purpose.

## **C. Limitations of liability**

To the extent allowed by local law the remedies provided in this warranty statement are the customers sole and exclusive remedies.

To the extent allowed by local law, except for the obligations specifically set forth in this warranty statement, in no event will Smart-AVI or its third party suppliers be liable for direct, indirect, special, incidental, or consequential damages whether based on contract, tort or any other legal theory and whether advised of the possibility of such damages.

## **D. Local law**

To the extent that this warranty statement is inconsistent with local law, this warranty statement shall be considered modified to be consistent with such law.

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