

TECHNICAL SPECIFICATIONS

VIDEO	
Format	DVI-D Single Link
Maximum Pixel Clock	165 MHz
Input Interface	(16) DVI-D 29-pin (female)
Output Interface	(1) DVI-D 29-pin (female)
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	(16) 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	(16) USB Type B (female)
Output Interface	(2) USB Type A (female) for keyboard and mouse emulation; (2) for USB 2.0 Transparent

CONTROL	
Front Panel	Tactile Switch
RS-232	Via Control @ 115200 bps
Hotkeys	Via Keyboard
IR	Optional

TECHNICAL SPECIFICATIONS

OTHER	
Power	External 100-240 VAC/ 5VDC4A @20W
Dimensions	17" W x 3.5" H x 6.75" D
Weight	10 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%
Emulation	Keyboard and Mouse

WHAT'S IN THE BOX

PART NO.	QTY	DESCRIPTION
DVN-16PROS	1	DVNET-16Pro, 16x1 DVI-D, USB 2.0, Audio Switch
Power Supply	1	PS5VDC4A
User Manual	1	



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SMART AUDIO VIDEO INNOVATION

DVNET-16Pro

**16-PORT DVI-D, USB AND
KVM SWITCH WITH KEY-
BOARD/MOUSE EMULATION**



**Control 16 Computers (PC, Mac, or
Linux) on one Display Up To 20 Feet
Away with Keyboard/Mouse Emulation,
Stereo Audio and USB 2.0**

USER MANUAL

INTRODUCTION

The DVNET-16Pro is a cross-platform switch capable of sharing a DVI-D monitor, stereo speakers, and USB 2.0 devices between 16 computers. It is RS-232 and infrared compliant, capable of being controlled remotely via third-party software.

FEATURES

- Compatible with Windows, Mac and Linux Operating Systems
- Supports up to 1920x1200 digital video resolution
- Uses universal DVI single-link connectors
- Supports all USB 2.0 Devices (Flash drives, Printers, Cameras, Scanners, etc.)
- Supports USB keyboard and mouse emulation
- Balanced stereo audio output
- Front panel tactile switch with LCD display for local control
- Full IR and RS-232 control for remote control
- Special Hotkey keyboard sequence to switch independent simultaneous device selection: Flexibility is key to the DVNET-16Pro

DDC LEARNING

The DVNET-16P is fully capable of “learning” and remembering what type of display monitor is connected to the unit. Programming the DDC (Display Data Channel) is accomplished using the two buttons located on the front panel.

To enter Learning Mode, simply press both the Scroll and Enter buttons at the same time until the display reads “Menu”. By then pressing the Scroll button, you may cycle through the following DDC learning modes.

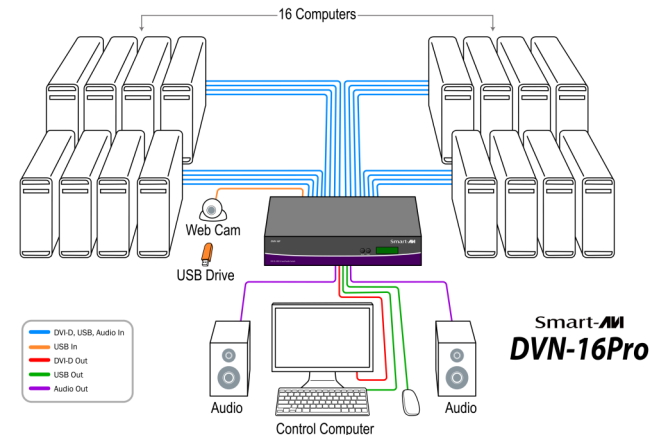
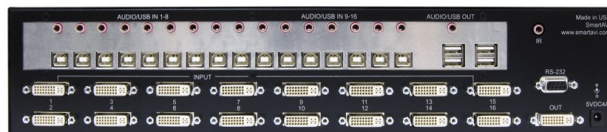
Learn PC: For PC computers; display up to 1920x1200.

Learn Mac: For Mac computers; display up to 1920x1200.

Learn Screen: To learn the type of display monitor connected to the “OUT” port.

***To select a mode, press the Enter button*

INSTALLATION DIAGRAM



CONNECTING THE DVNET-16Pro

1. Ensure that power is disconnected from DVNET-16Pro.
2. Connect the DVI cables, USB cables (male-A to male-B), and audio cables from the computers to the respective ports on the DVNET-16Pro.
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 2 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.)

5. Connect the speakers into the Audio Out port located above the USB ports.
6. Connect the display monitor the OUT DVI connector on the DVNET-16Pro.
7. Power on the DVNET-16Pro.

CONTROLLING THE DVNET-16Pro

Front Panel Control

To switch ports using the front panel, press either the *Enter* button to navigate up and *Scroll* button for down. **DDC learning** is also done through the front panel buttons.

RS-232 Control

To switch ports using an RS-232 connection, use a male-to-female serial cable to connect a computer to the RS-232 port of the DVNET-16Pro. Use terminal client software such as the **HyperTerminal** to connect to the DVNET-16Pro. Make sure to use the standard communication mode of 115200 bps, 8, N, 1.

Hotkey Commands

The Hotkey command is a keyboard sequence used to trigger an action on the DVNET-16Pro through the use of the keyboard connected on the USB port of the DVNET-16Pro. 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 #][ENTER]'
Switch KVM only	[CTRL], [CTRL], c , [port #], [ENTER]	'//c[port #][ENTER]'
Switch audio only	[CTRL], [CTRL], a , [port #], [ENTER]	'//a[port #][ENTER]'
Reset DVNET-16Pro	[CTRL], [CTRL], r , [ENTER]	'//r[ENTER]'