UNINTERRUPTED
USB, KEYBOARD & MOUSE
EMULATION

DVN-16Pro

16-Port DVI-D KVM Switch with USB 2.0 Sharing

Access and Control 16 Computers Using Only One USB keyboard,
USB Mouse and DVI-D Monitor

MADE IN THE USA

(((HDCP))) MEMBER OF GROUP

HD ready 1080p

Smart-AVI
SMART AUDIO VIDEO INNOVATION

OVERVIEW

DVN-16Pro is a dedicated multi-platform KVM switch capable of managing up to 16 different computers through a single DVI-D monitor, USB keyboard & mouse, a single set of speakers and USB 2.0 device sharing. USB emulation technology utilized by DVN-16Pro enables immediate hotkey source switching through a remote USB keyboard and mouse. DVN-16Pro provides high resolutions of up to 1920x1200 with zero pixel loss from TMDS signal correction.

FEATURES

- Supports Mac, PC, Linux and Sun Mac OS, Sun OS, Unix
- Supports High Resolution 1920x1200 60Hz WUXGA
- Uses universal DVI Single Link connectors
- 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
- Flash upgradeable firmware
- Front panel keys for selecting users and channels manually

- Supports USB keyboard and mouse
- Balanced stereo audio output
- Front panel tactile switch with LCD display for local control
- Full IR and RS-232 control for remote control
- Optional TCP/IP control
- Hot-key commands for quick channel selection.
- Independent (asynchronous) switching of KVM and peripheral USB/audio ports. Users can listen to audio from one computer while working on the other or scan a document and save in another computer.
- Complete keyboard emulation for error free booting
- Superior video quality - 1920 x 1200 @ 60 Hz

SOURCE SWITCHING MADE EASY

The DVN-16Pro provides a simplified management approach up to 16 computers with DVI-D, audio, and USB 2.0 outputs. This dynamic KVM console can be controlled remotely from easily accessible keyboard hotkeys or RS-232 communication channel commands, as well as directly through the console's easy to read front panel.

EDID LEARNING & PROGRAMMING

Detection of DDC signals for all attached devices is effortless with DVN-16Pro due to its EDID learning and programming. This is vital in optimizing the resolution of the selected graphics card to properly display on the remote monitor. Furthermore, the DDC learning feature continues to replicate the right EDID for the computer to enable the display card to effectively work when unused ports are not selected.
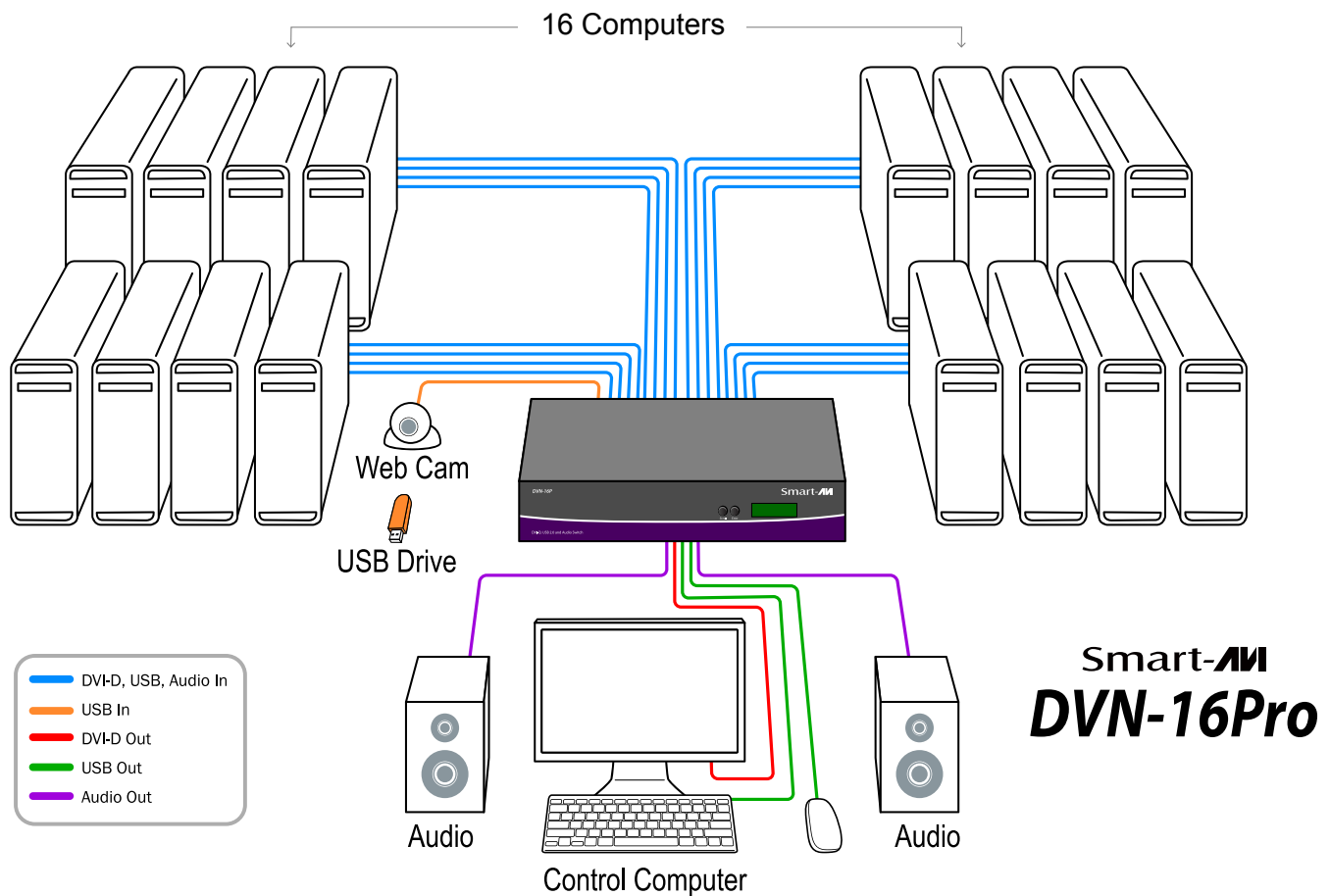
FULL USB KEYBOARD AND MOUSE EMULATION

The USB keyboard and mouse emulation utilized by DVN-16Pro provides accurate and quick source switching by means of keyboard hotkeys. DVN-16Pro imitates the presence of a keyboard and mouse for every attached computer through its USB cable. This is essential as it simulates the existence of the keyboard and mouse to all the computers when switching out of circuit.

REAL-WORLD APPLICATIONS

The DVN-16Pro has a broad range of applications, but the main function of this KVM switch is to centralize the access of several computers into one comprehensive PC. Not only does it function as a KVM console, it also supports USB 2.0 sharing functionality. This allows a user at the console to use USB devices that would otherwise be unavailable with conventional KVM devices. For example, it allows a user to use a flash memory drive or camera without having to plug it directly into the remote computer. DVN-16Pro is a perfect solution for the medical or industrial field, where it may not be practical or safe to have one or more CPUs in the general vicinity.

- Server Collocation
- Digital Signage
- Education
- Airports
- Dealer Rooms

- Control Rooms
- Audio/Visual Presentations
- Shopping Centers
- Hotels/Resorts
- KVM Switches

16 Computers

Web Cam

USB Drive

	DVI-D, USB, Audio In
	USB In
	DVI-D Out
	USB Out
	Audio Out

Smart-AVI
DVN-16Pro

Audio

Control Computer

Audio

FLEXIBLE CONTROL

RS-232: Any external device or program supporting RS-232 can control the DVN-16Pro. The DVN-16Pro uses a very simple protocol, that enables easy integration with other devices.

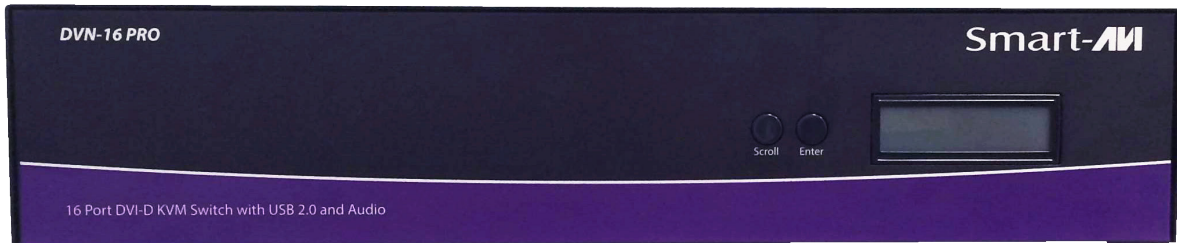USB/KEYBOARD: Hot keys enable the user to switch and control all the different functions of the KVM system.

IR: Infrared remote control enables integration and control of the KVM switch.

TCP/IP: SMTCP-2 is a SmartAVI optional TCP/IP converter that enables users to switch and control the DVN-16Pro control from anywhere in the world using a LAN or WAN connection.
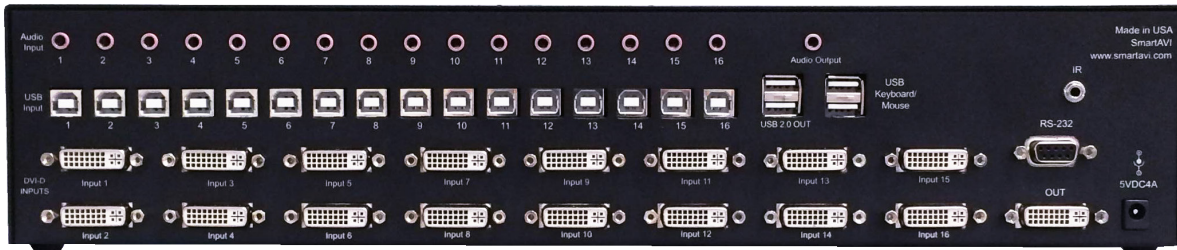
FLEXIBLE SHARING

INDEPENDENT SIMULTANEOUS DEVICE SELECTION: Flexibility is key with the DVN-16Pro. It enables control of connected computers through independent switching of KVM and peripheral USB and audio ports. Users can listen to audio from one computer while accessing the hard drive of another and scanning a document from another. DVN-16Pro maintains the ability to switch all connected devices to any one of the computer sources as with any other KVM switch.

DVN-16Pro Front

DVN-16Pro Rear

VIDEO	
Format	DVI-D Single Link, DVI 1.0
Maximum Pixel Clock	165 MHz
Input Interface	(16) 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.
Data Rate	1.65 Gbps per color

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
Output Interface	(2) USB 1.1 Type A for KVM Devices
	(2) USB 2.0 Type A Transparent

CONTROL	
Front Panel	Tactile Switch, Display: LCD 2 x 20 Character
RS-232	Via Control @ 115200 bps
Hot Keys	Via Keyboard

OTHER	
Power	External 100-240 VAC/ 5VDC4A @ 20W
Dimensions	16.9" W x 3.5" H x 7" D
Weight	5.1 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

ORDERING INFORMATION	
Part No.	**Description**
DVN-16ProS	DVNET-16Pro, 16x1 DVI-D, USB 2.0, Audio Switch. Includes: [DVN-16Pro & (PS5VDC4A)]
RMT-2	Optional Remote Control with IR-EYE

Designed and Manufactured in the USA