What's in the Box?

PART NO.	QTY	DESCRIPTION
DV-SW16S	1	DVI-D 16x1 Switch
Power Supply	1	PS5VDC4A
User Manual	1	

Technical Specifications

VIDEO	
Format	DVI-D Single Line
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.
OTHER	
Control	RS-232, IR, and Front Panel
Power	External 5VDC4A
Dimensions	17"W x 1.75"H x 6"D
Weight	5 lbs.
Approvals	UL, CE, ROHS Compliant

DV-SW16 Front

DV-SW16 Rear

NOTICE

For more information, visit www.smartavi.com.

Installation Manual

DV-SW16
16-Port Cross-platform DVI-D with RS-232 and IR Control

Display Content From 16 Computers, PC or Mac on one Display Up To 20 Feet Away

www.smartavi.com

Introduction

The DV-SW16 is a cross-platform DVI-D switch capable of sharing one DVI-D Monitor between sixteen computers, PC or Mac. View sixteen computers equipped with DVI-D on a single screen, saving money and desktop space.

Features

- Supports Mac, PC, Linux and Sun DVI-D
- Supports High Resolution 1920x1200 60 Hz WUXGA
- Uses universal DVI Single Link connectors
- Zero pixel loss with TMDS signal correction
- Output DVI up to 20 feet
- Front panel switch with LED indicator
- Saves space on your desktop

Applications

- Home Theater Integration
- Digital Signage Deployment
- Information Kiosks/Displays
- Film/Recording Studios

In the medical or industrial field, where it may not be practical (or safe) to have one or more CPUs in the general vicinity, SmartAVI's DVI Switch Series is the perfect solution, allowing for either PC or Mac signals to be extended from computer to monitor (20 feet from computer to DVI Switch, and then 20 feet from DVI Switch to remote monitor/display point).

Another practical use for one of our DVI Switch would be for media recording studios, where soundproofing and space issues come into play. Using a DVI Switch eliminates the inherent "hum" of a powered CPU and gives you the freedom of using your keyboard, mouse and monitor without having to find room for the computer itself in the same workspace.

Product - Installation Diagram

PC

20 ft. over DVI-D

DV-SW16

Mac

Installation

1. Turn off all computers and the display.
2. Connect the DVI extension cables (not included) to the computers and to the "IN" ports on the DV-SW16.
3. Connect the display to the "OUT" connector on the DV-SW16.
4. Connect the power cord and power on the DV-SW16.
5. Power on the computers and the display.
6. Use the front panel buttons, an RS-232 connection or infrared remote control to select the desired input port.

Switching Between Ports

There are three ways to switch between inputs on the DV-SW16: via the front panel buttons, RS-232 connection or IR remote control.

Front Panel Control
To switch ports using the front panel, press either the up or down button to cycle through the available ports. The selected port number will be indicated on the LED display.

RS-232 Control
To switch ports using an RS-232 connection, use a male-to-female serial cable to connect a computer to the DV-SW16's RS-232 port. Use Hyperterminal to connect to the DV-SW16, making sure to use the standard communication mode of 9600bps, 8, N, 1.
To switch ports, use the standard "//M" command prompt.
To select the "IN 1" port, send "//M1 [ENTER]"
To select the "IN 2" port, send "//M2 [ENTER]" etc.

IR Control
To switch ports using an infrared remote control (optional accessory), connect an IR-EYE (optional accessory) to the DV-SW16 box and the unit will auto-detect the infrared connection. Once the connection is made, you may use the IR remote to cycle through the available ports.

DDC Learning

The DV-SW16 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 depress both buttons at once until the display reads **"L"**. By then pressing the Down/Left button, you may cycle through the following DDC learning modes:

"P" indicates Personal Computer Mode and automatically selects the standard display characteristics of a PC display, which typically works for any PC/Display combination.

"A" indicates Apple Mode and selects the best display mode to accommodate a Mac.

"S" indicates Screen Mode, which replicates the type of device connected to the "IN 1" port.