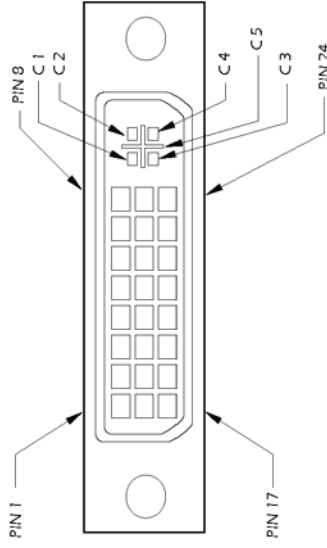


Technical Specifications

Video	
Video Amplifier Bandwidth	165 MHz
Input Video Signal	1.2 volts p-p
Input DDC Signal	5 volts p-p (TTL)
Single Link Range	1080 / 1920 x 1200
DVI Connector	DVI-I 29 pin female
Control	
Serial Controls	RS-232, DB9 female connector
Power	
Power Supply	5VDC-3A
Physical	
Dimensions	17"W x 1.75"H x 7"D
Weight	4.05 lbs.



Pin #	Signal	Pin #	Signal
1	T.M.D.S Data 2-	16	Hot Plug Detect
2	T.M.D.S Data 2+	17	T.M.D.S Data 0-
3	T.M.D.S Data 2/4 Shield	18	T.M.D.S Data 0+
4	T.M.D.S Data 4-	19	T.M.D.S Data 0/5 Shield
5	T.M.D.S Data 4+	20	T.M.D.S Data 5-
6	DDC Clock	21	T.M.D.S Data 5+
7	DDC Data	22	T.M.D.S Clock Shield
8	Analog Vert. Sync	23	T.M.D.S Clock+
9	T.M.D.S Data 1-	24	T.M.D.S Clock-
10	T.M.D.S Data 1+		
11	T.M.D.S Data 1/3 Shield	C1	Analog Red
12	T.M.D.S Data 3-	C2	Analog Green
13	T.M.D.S Data 3+	C3	Analog Blue
14	+5V Power	C4	Analog Horz Sync
15	GND	C5	Analog Ground

© Copyright 2009 SmartAVI, All Rights Reserved

Notice

The information contained in this document is subject to change without notice. SmartAVI makes no warranty of any kind with regard to this material, including but not limited to, implied warranties of merchantability and fitness for any particular purpose.

SmartAVI will not be liable for errors contained herein or for incidental or consequential damages in connection with the furnishing, performance or use of this material.

No part of this document may be photocopied, reproduced or translated into another language without prior written consent from SmartAVI.

For the complete manual, visit www.smartavi.com.

Smart-**AVI**

Smart Audio Video Innovation

User Manual

DVI Router 8x8

With Optional TCP/IP Control



Display content from any 8 computers on any 8 screens independently.

Smart-AVI****

2840 N. Naomi Ave.
Burbank, California 91504
Phone: (818) 565-0011
Facsimile: (818) 565-0020

www.smartavi.com

Introduction

SmartAVI's DVI Router 8x8 gives you the power to pull content from up to 8 separate computers and display it on up to 8 monitors individually or at the same time. As you will soon find, this dynamic hardware/software solution makes even the most "complicated" content delivery challenge a snap.

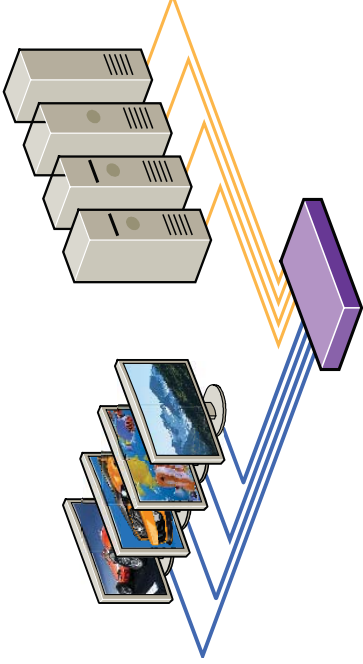
Whether you've purchased the DVI Router 8x8 for a retail, recording studio or even mass-transit location, we encourage you to broaden your vision – explore your creativity and use this dynamic piece of hardware to your fullest advantage.

This matrix switch is a powerful tool that you will now use to convey your own message to clients, guests and/or employees the way you need it and want it to be displayed.

Features

- Enriches content palette with the capability of being able to pull video, images, etc. from up to 8 separate CPUs to display on one to 8 monitors individually or at the same time.
- 8x8 non-blocking, single-link DVI matrix switch that supports HDTV resolutions up to 1920 x 1200.
- Control via front panel LCD display, RS-232, over the Internet (TCP/IP), or optional infrared remote.
- Display high-definition content up to 20 feet away from the CPUs without the use of additional extension hardware.

Installation Diagram



DVI 8x8 Router Installation Diagram

Getting Started

Hardware Installation

1. Connect a serial cable from the DVI Router 8x8 to the control computer. If you have installed the CD-ROM on a laptop, you can use a serial-to-USB adapter to make this connection.
2. Connect up to 8 computers containing your digital content to the "video in" ports of the DVI Router 8x8, using DVI male extension cables.
3. Connect up to 8 display monitors to the "video out" ports of the DVI Router 8x8, using DVI male extension cables.
4. Plug in the power cord to the DVI Router 8x8 and turn the device on.
5. Turn on all computers and monitors being used.

Controlling the DVI Router 8x8

There are multiple ways to control the DVI Router 8x8. You can operate the router via:

- Front Panel LCD Display Input Using "Learning Mode"*
- RS-232 queries
- SmartAVI's Windows®-Based Software (Included on CD-ROM)

Note: If you use Mac rather than PC, or do not wish to install the CD-ROM software, the DVI Router 8x8 hardware can be programmed and controlled without it.

- Optional IR or TCP/IP (Internet Control Possible Using SmartAVI's SMTCP Device)

Input/Output Control

By using the Input/Output Select buttons on the front panel of the DVI Router 8x8, you can select which input port goes to which output port(s) of the device. This will have your digital signage up and running quickly and easily. If the router is powered off, you will need to manually set up the input/output settings again to your specifications.

* What is Learning Mode?

SmartAVI's DVI Router 8x8 "learns" the specifications of any monitor connected to it. This gives the router the ability to emulate the monitors even if none are connected at a later time. Many control computers/routers won't power up properly (or at all) without the display monitors attached at all times. The DVI Router 8x8's capacity to learn and remember the display monitors allows you the freedom to work on your content management/scheduling without being plugged in and powered up to your entire digital signage network every time you want to make a change or work on a new presentation.

To enter learning mode, simply hold both front panel buttons down simultaneously for a moment and the "Setup Menu" will come up on the LCD screen.

By pressing the Input Select button, you can cycle through the unit's learning options. When the desired learning mode is displayed, press the Output Select button; this will execute the selected learning feature and will return the router to normal operation.



What's in the box?

Description	Qty	Part Number
DVI Router 8x8	1	DVR8X8
5VDC 3A Power	1	PS-5V3A-US