



## DVI-D Video Matrix Switch

4 x 4, 8 x 8, and 16 x 16 DVI-D matrix switch models

(no-blocking, single link)

Independently display the contents of any computer on any DVI-D displays

Supports video resolutions up to 1920 x 1200

Supports DVI operation at a maximum TMDS rate of 1.65 Gb/sec

## Features and Benefits

- Independently display the contents of 4, 8, or 16 computers on 4, 8, or 16 DVI-D displays
- Provides a non-blocking, single-link DVI-D matrix switch
- Max TMDS rate of 1.65 Gb/sec
- Resolutions up to 1920 x 1200
- Unique "Learn Mode" determines the specs for any output monitor. Once learned, the monitors do not have to be connected for the computers to boot.
- Switch a video source to any output monitor using the front panel push buttons, remote OSD switching matrix software or sending serial commands to the unit
- Intuitive RS232 software control (RoseControl) makes switching, routing, and controlling the video displays quick and easy.
- Optional IR, USB, and TCP/IP control
- DVI-D video transmission distance up to: 20 feet (4 x 4), 20 feet (8 x 8), or 30 feet (16 x 16) from the computers to the unit and the same distance from the unit to the remote monitors
- Set-up multimedia presentations where information is displayed from several computers.
- Automatic receiver equalization
- The 16 x 16 is a rack-mountable chassis

## The UltraMatrix AV DVI Advantage .

The UltraMatrix AV DVI-D Matrix Switch is the perfect addition to new or existing installations that need to display 1 to 16 video sources to 1 to 16 remote DVI-D displays. Pick one video source and display it on 1, 2 or all monitors.

Easy front panel selection of the video source to displayed on each remote monitor. Just push a button and select the source, then select the destination port. The front panel display shows which computers are connected to the displays.

Selection can also be performed by using the provided RoseControl software that sends switching command to the unit. With one click on the cross-point, that computer's video is instantly switched to the selected DVI-D monitor. These commands are sent using the RoseControl software installed on a computer or laptop and connected to the RS232 port on the unit.



## Typical Application



## UltraMatrix AV DVI Matrix Switch basics

The UltraMatrix AV DVI Matrix Switch is basically a plug and play device that connects between 1 to 16 computers and 1 to 16 DVI-D monitors. Each computer's video can be switched to one or more output monitors. The switching can be performed by the front panel push buttons or by using the provided RoseControl software which sends the switching commands from a controlling computer or laptop to the RS232 port.

## Installation

Installation is a very easy and simple procedure. Connect a DVI male to male cable from each computer to the units input ports. Next, connect the DVI-D monitors to the unit directly or with a DVI male to female extension cable.

## Remote Control

The UltraMatrix AV DVI Matrix Switch can be controlled from a connected computer or laptop running RoseControl interface software. This software allows you to easily select which computer's video displays on which DVI monitor. Each of the video sources can be routed to any video output port. Route video source #1 to output #1 and source #2 to output #2, #3, #10, and #14 by simply clicking on the source-destination cross-point.

## Part Numbers

P/N	Description
UMA-04DX04D	4 x 4 DVI-D Matrix Switch
UMA-08DX08D	8 x 8 DVI-D Matrix Switch
UMA-16DX16D	16 x 16 DVI-D Matrix Switch
CAB-DVIIMM	DVI video cable

## Specifications

### Dimensions:

Model	Width (in / cm)	Depth (in / cm)	Height (in / cm)	Weight (lbs / kg)
4 x 4	12.0 /	7.0 /	1.75 /	4.05 /
	30.5	17.8	4.45	1.84
8 x 8	17.0 /	7.0 /	1.75 /	4.05 /
	43.2	17.8	4.45	1.84
16 x 16	19.0 /	7.0 /	5.25 /	10 /
	48.24	17.8	13.36	4.53

### Video:

Single link	DVI-D
Resolution	1920 x 1200
Pixel Clock	165 MHz (Max)
Video In	DVI-D

### Connectors:

DVI in	DVI-I 29 pin female
DVI out	DVI-I 29 pin female
RS232	DB9F
Power	IEC 320 or power adapter

### Controls:

Front Panel	Select / UP / Down selector buttons
Software	RoseControl software

### Power:

Adapter	100-240 VAC, 50-60 Hz, 60 Watts
---------	---------------------------------

Approvals:	CE, ROHS Compliant
------------	--------------------



4 x 4 / 8 x 8 / 16 x 16

■ Phone: 281-933-7673 ■ E-mail: sales@rose.com ■

10707 Stancliff Rd. Houston, TX 77099

Rose Electronics – Europe: +49 (0)2454 969442 Rose Electronics – Asia: +65 6324 2322

DS-UMAVDVI 2.2

© Copyright 2006 Rose Electronics. All rights reserved

 **ROSE**  
ELECTRONICS  
[WWW.ROSE.COM](http://WWW.ROSE.COM)