INSTALLATION AND OPERATIONS MANUAL
LIMITED WARRANTY

Rose Electronics® warrants the Vista DVI Plus to be in good working order for one year from the date of purchase from Rose Electronics or an authorized dealer. Should this product fail to be in good working order at any time during this one-year warranty period, Rose Electronics will, at its option, repair or replace the Unit as set forth below. Repair parts and replacement units will be either reconditioned or new. All replaced parts become the property of Rose Electronics. This limited warranty does not include service to repair damage to the Unit resulting from accident, disaster, abuse, or unauthorized modification of the Unit, including static discharge and power surges.

Limited Warranty service may be obtained by delivering this unit during the one-year warranty period to Rose Electronics or an authorized repair center providing a proof of purchase date. If this Unit is delivered by mail, you agree to insure the Unit or assume the risk of loss or damage in transit, to prepay shipping charges to the warranty service location, and to use the original shipping container or its equivalent. You must call for a return authorization number first. Under no circumstances will a unit be accepted without a return authorization number. Contact an authorized repair center or Rose Electronics for further information.

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NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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DECLARATION of CONFORMITY

ACCORDING TO COUNCIL DIRECTIVE 93/68/EEC
Electromagnetic Compatibility Directive 89/336/EEC

This equipment is in conformity with the protection requirements of the following Council Directives:
The Declaration of Conformity is based upon compliance of the product with the following harmonized standards:
EN55022:

Radio Frequency Energy
All interface cables used with this equipment must be shielded in order to maintain compliance with radio frequency energy emission regulations and ensure a suitably high level of immunity to electromagnetic disturbances.

European EMC directive 89/336/EEC
This equipment has been tested and found to comply with the limits for a class A computing device in accordance with the specifications in the European standard EN55022. These limits are designed to provide reasonable protection against harmful interference. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions may cause harmful interference to radio or television reception. However, there is no guarantee that harmful interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment on and off, the user is encouraged to correct the interference with one or more of the following measures: (a) Reorient or relocate the receiving antenna. (b) Increase the separation between the equipment and the receiver. (c) Connect the equipment to an outlet on a circuit different from that to which the receiver is connected. (d) Consult the supplier or an experienced radio/TV technician for help.

FCC Compliance Statement (United States)
This equipment generates, uses, and can radiate radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer’s instructions, may cause interference to radio communication. It has been tested and found to comply with the limits for a class A computing device in accordance with the specifications in Subpart J of part 15 of FCC rules, which are designed to provide reasonable protection against such interference when the equipment is operated in a commercial environment. Operation of this equipment in a residential area may cause interference, in which case the user, at his own expense, will be required to take whatever measures may be necessary to correct the interference. Changes or modifications not expressly approved by the manufacturer could void the user’s authority to operate the equipment.

Canadian Department of Communications RFI statement
This equipment does not exceed the class A limits for radio noise emissions from digital apparatus set out in the radio interference regulations of the Canadian Department of Communications.

Le présent appareil numérique n’émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le règlement sur le brouillage radioélectriques publié par le ministère des Communications du Canada.
# TABLE of CONTENTS

<table>
<thead>
<tr>
<th>Contents</th>
<th>Page #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disclaimer</td>
<td>1</td>
</tr>
<tr>
<td>System Introduction</td>
<td>1</td>
</tr>
<tr>
<td>Features</td>
<td>1</td>
</tr>
<tr>
<td>Package Contents</td>
<td>2</td>
</tr>
<tr>
<td>Models</td>
<td>2</td>
</tr>
<tr>
<td>Installation</td>
<td>4</td>
</tr>
<tr>
<td>1- User Console Connections</td>
<td>4</td>
</tr>
<tr>
<td>2- Connecting the USB peripherals to the unit</td>
<td>4</td>
</tr>
<tr>
<td>3- Connecting the Computers to the unit</td>
<td>5</td>
</tr>
<tr>
<td>4- Applying power</td>
<td>5</td>
</tr>
<tr>
<td>System Operation</td>
<td>6</td>
</tr>
<tr>
<td>Selecting / switching to a computer</td>
<td>6</td>
</tr>
<tr>
<td>1- Front panel controls</td>
<td>6</td>
</tr>
<tr>
<td>2- HotKey switching</td>
<td>7</td>
</tr>
<tr>
<td>3- Using mouse button presses to select a computer channel</td>
<td>7</td>
</tr>
<tr>
<td>4- Serial command to the “Option” port</td>
<td>8</td>
</tr>
<tr>
<td>Configuration mode</td>
<td>9</td>
</tr>
<tr>
<td>Managing EDID video display information</td>
<td>10</td>
</tr>
<tr>
<td>Auto scanning</td>
<td>11</td>
</tr>
<tr>
<td>Installing / synchronizing multiple units</td>
<td>11</td>
</tr>
<tr>
<td>OSD – Configuration menus</td>
<td>11</td>
</tr>
<tr>
<td>Functions</td>
<td>12</td>
</tr>
<tr>
<td>Global Preferences</td>
<td>12</td>
</tr>
<tr>
<td>Mouse Switching</td>
<td>12</td>
</tr>
<tr>
<td>OSD Color</td>
<td>12</td>
</tr>
<tr>
<td>Default Mode</td>
<td>13</td>
</tr>
<tr>
<td>Reminder Banner</td>
<td>13</td>
</tr>
<tr>
<td>Autoscan Mode</td>
<td>13</td>
</tr>
<tr>
<td>Autoscan Period</td>
<td>13</td>
</tr>
<tr>
<td>OSD Dwell Period</td>
<td>13</td>
</tr>
<tr>
<td>Setup Options</td>
<td>14</td>
</tr>
<tr>
<td>Language</td>
<td>14</td>
</tr>
<tr>
<td>Hotkeys</td>
<td>14</td>
</tr>
<tr>
<td>Default Channel</td>
<td>14</td>
</tr>
<tr>
<td>Edit Computer List</td>
<td>15</td>
</tr>
<tr>
<td>EDID Options</td>
<td>15</td>
</tr>
<tr>
<td>EDID Source</td>
<td>15</td>
</tr>
<tr>
<td>EDID Refresh</td>
<td>15</td>
</tr>
<tr>
<td>Service</td>
<td>16</td>
</tr>
<tr>
<td>Technical Support</td>
<td>16</td>
</tr>
</tbody>
</table>

## Figures

| Figure 1. Front panel controls                                       | 6      |

## Tables

| Table 1. Serial Cable                                               | 8      |
| Table 2. Configuration menu options                                 | 10     |

## Appendices

| Appendix A – Specifications                                          | 18     |
| Appendix B – Default Video Modes                                     | 19     |
INTRODUCTION

Disclaimer

While every precaution has been taken in the preparation of this manual, the manufacturer assumes no responsibility for errors or omissions. Neither does the manufacturer assume any liability for damages resulting from the use of the information contained herein. The manufacturer reserves the right to change the specifications, functions, or circuitry of the product without notice.

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System Introduction

Thank you for choosing Rose Electronics® Vista DVI Plus for your DVI video distribution applications. The Vista DVI Plus features full dual link DVI video or high definition analogue video. The advanced emulation technology of the Vista DVI Plus allows USB HID devices to be truly emulated to each computer, even specialty keyboards and mice. This technology enables instantaneous and reliable hotkey switching.

The Vista DVI Plus also features two independent switchable USB 2.0 ports and an audio port. These ports can be switched to different computers.

Switching is accomplished using local keyboard hotkey sequences, the front panel controls, serial commands, or using a 3 button mouse. With these switching options you can quickly reassign the connected peripherals to any of the connected computers.

Features

- Full dual link DVI video support
- Available models:
  - 1x4 dual-link DVI-I
  - 1x8 dual-link DVI-I
- Resolutions up to 2560 x 1600
- Select a computer using the front panel switches, hotkeys, or the mouse buttons
- Switch dual link digital video up to 300 Mpixels/sec
- Front panel indicator shows the currently active channel, which peripherals are switched to the active channel, keyboard and mouse activity, OSD status, upgrade mode, and power (Indicators vary depending on model)
- Digital or analogue video support
  (Analogue requires a DVI to VGA adapter)
- Supports a wide range of USB 2.0 peripherals
  (HID and Transparent devices)
- All models feature remote serial switching
- The 1x8 model includes an OSD for easy configuration and port switching
- RS232 serial port for upgrades to the units firmware and for synchronizing two or more Vista DVI Plus units so multiple computers/video screens can be switched and accessed
- Flash upgradeable
**Package Contents**

- Vista DVI Plus unit as ordered
- Flash cable (Optional for the 1x4 model)
- Power adapter + power cord
- Rackmount brackets (Optional for the 1x4 model)
- Documentation CD

**Models**

The Vista DVI Plus is available in 2 different configurations. All models operate the same and computers and peripherals are switched in the same manor.

**User Console Connections:**
- Video In – 1x4 – DVI-I
- 1x8 – DVI-I
- Video Out – 1x4 – DVI-I
- 1x8 – DVI-D / HD15
- Keyboard – USB Type A
- Mouse – USB Type A
- USB 2.0 – Type A (2)
- Audio – 3.5mm stereo jack
- Options – RS232 / DB9

1x8 unit also has VGA video user port

**Computer Connections:**
- Video – DVI-I Dual-Link
- USB 2.0 – Type B
- Audio - 3.5mm stereo jack
LED display

The front panel display indicates which computer port is selected and which peripherals (KVM, Speakers, USB1 or USB2) are switched to the current computer. The two push buttons (Computer and Mode) are used to switch to a computer (Computer) and select which peripherals (Mode) to switch to the selected computer. There are 6 different mode configurations to choose from. Each time the mode button is pressed a different combination of peripherals to switch is selected. The below table shows the different combinations.

<table>
<thead>
<tr>
<th>Mode Key Press</th>
<th>KVM</th>
<th>SPK</th>
<th>USB1</th>
<th>USB2</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>Switch all peripherals to the selected computer</td>
</tr>
<tr>
<td>2</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>Switch keyboard, monitor, mouse, and speakers</td>
</tr>
<tr>
<td>3</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>Switch only keyboard, monitor, and mouse</td>
</tr>
<tr>
<td>4</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>Switch only the speakers</td>
</tr>
<tr>
<td>5</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>Switch only USB1</td>
</tr>
<tr>
<td>6</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>Switch only USB2</td>
</tr>
</tbody>
</table>

● = Connected or connect to the selected computer
● = Not connected to the selected computer

The bottom row of indicators on the 8 port model are:
- KB – Keyboard data being received
- MS – Mouse data being received
- OSD – ON-screen display is active
- UPG – Unit is in the upgrade mode
- LCK – Not used
- PWR – Power input indicator
Installation

Installation of the Vista DVI Plus unit consists of:

1. Connecting the User console equipment to the unit
2. Connecting the USB peripherals to the unit
3. Connecting the Computers to the unit
4. Applying power to all equipment

The following installation instructions are a guide to properly connecting all of the equipment to the Vista DVI Plus unit. No special order is required but it is recommended that power to the equipment and to the Vista DVI Plus unit be applied after all connections have been made.

NOTE: The 1x4 and 1x8 models install and operate in the same manner.

1- User Console Connections

* Connect a set of stereo speakers to the audio input jack if needed
* Connect the USB keyboard and USB mouse to the corresponding USB ports on the rear panel.
* Connect a video monitor to the DVI-I female connector on the rear panel or VGA connector (8 port model).

If you need to extend the monitor past the 16’ max DVI cable length, Rose Electronics’ CrystalView DVI products can extend the distance up to 450’ over CATx cable or up to 33,000’ over fiber cabling.

2- Connecting the USB peripherals to the unit

* Connect up to 2 supported USB peripherals to the USB 2.0 switched ports labeled USB 1 and USB 2.
* These USB ports provide enumerated (transparent) switching.
3- Connecting the Computers to the unit

Up to 4 single head computers can be connected to the Vista DVI Plus unit. (8 single head computers on the 1 x 8 model)
Connect each computer’s DVI video output to the corresponding DVI-I connector on the Vista DVI Plus rear panel using a DVI MM video cable.

Using a USB type A/B cable, connect each USB type B port on the Vista DVI Plus unit to the corresponding USB type A connector on each computer.
A stereo 3.5mm audio cable is used to connect each computer’s audio output to the audio input port on the Vista DVI Plus unit’s rear panel.

4- Applying power

Each unit is supplied with a 110-240 VAC 50/60Hz power adapter that supplies a +5 VDC, 4A, 20 watts to the Vista DVI Plus unit. There is no on/off power switch on the unit. Operation begins as soon as power is supplied to the unit.

1- Connect the power adapter output connector to the +5V power jack on the rear panel of the unit.
2- Connect the power cable to the IEC connector on the power adapter.
3- Connect the power cable to the main power supply source

Both the power adapter and the unit generate heat when in operation. Please provide adequate air circulation to assure the ambient temperature does not exceed 104°F (40° C).
System Operation

Selecting / switching to a computer

There are four ways to switch to a computer:
1- Using the front panel controls
2- Using hotkeys
3- Using mouse button presses
4- Serial command to the “Option” port

1- Front panel controls

The front panel controls (Figure 1) consist of two buttons, “Computer” and “Mode”, and a LED display showing which peripherals are connected to the selected computer. To select a given computer and switch the computer’s DVI video to the display monitor, press the “Computer” button. Each time the “Computer” button is press the unit sequences to the next sequential computer number and the video from that computer is displayed on the user console monitor.

![Figure 1. Front panel controls](image)

The “Mode” button shows / selects which peripherals are connected to the selected computer. Each time the mode button is pressed, different peripherals are selected to switch to the selected computer. The table below shows the peripheral selections available.

<table>
<thead>
<tr>
<th>Mode Key Press</th>
<th>KVM</th>
<th>SPK</th>
<th>USB1</th>
<th>USB2</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>Switch all peripherals to the select computer</td>
</tr>
<tr>
<td>2</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>Switch keyboard, monitor, mouse, and speakers</td>
</tr>
<tr>
<td>3</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>Switch only keyboard, monitor, and mouse</td>
</tr>
<tr>
<td>4</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>Switch only the speakers</td>
</tr>
<tr>
<td>5</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>Switch only USB1</td>
</tr>
<tr>
<td>6</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>Switch only USB2</td>
</tr>
</tbody>
</table>

= Connected or connect to the selected computer
= Not connected to the selected computer

Example: Switch USB2 only to computer #2
- Press the “Computer” button until “2” displays (Computer #2 selected)
- Press the “Mode” button until an indicator displays just under USB2 and no other indicators are displayed.
- Press “Computer” to assign USB2 to computer #2.

NOTE: If an indicator flashes, the selected peripheral is currently switched to another computer channel.
2- HotKey switching

The User Console USB keyboard can be used to issue Hotkey commands to the Vista DVI Plus unit. These hotkey commands can quickly switch the keyboard, monitor, mouse, speakers, and the USB peripherals to any computer channel. The default hotkey is the Ctrl + Alt key pressed simultaneously. If the default hotkey setting conflicts with other software or hardware, it can be easily changed to one of seven choices or hotkey switching can be disabled. (See the Configuration Mode section for information on changing the hotkey)

To switch to a given channel, press and hold the Ctrl and Alt key, then press the channel number.

- Ctrl + Alt + 1 Selects channel 1
- Ctrl + Alt + 2 Selects channel 2
- Ctrl + Alt + 3 Selects channel 3
- Ctrl + Alt + 4 Selects channel 4
- Ctrl + Alt + 0 Disconnects/isolates the user console from all channels
- Ctrl + Alt + Tab Selects the next channel (See note) (1x4 model, 1-4 + 0 / 1x8 model, 1-8 + 0)

Note: The next channel that is selected when you press the Ctrl + Alt + Tab depends upon the setting that has been entered in the configuration mode; all or active ports.

To switch selective peripherals to a given channel:
1- Press and hold Ctrl and Alt key
2- Press and release the command key (A, K, S, or U)
   - [A] switch all peripherals
   - [K] switch only the keyboard, monitor, and mouse
   - [S] switch only the speakers
   - [U] switch only USB1 and USB2
3- Press and release the channel number 1-4 or 1-8 to switch the peripheral choice
4- Release the Ctrl and Alt keys

Example: To switch all peripherals to channel 2, press and hold the Ctrl and Alt keys, press and release the A key, press and release the 2 key, release the Ctrl and Alt keys.

Note: When entering numeric values, use the numeric keys above the keyboard to enter the values. Do not use the keypad to enter numbers.

3- Using mouse button presses to select a computer channel

To select a computer channel using the mouse buttons;
1- Press and hold down the middle scroll wheel button
2- Click the left mouse button to increment the channel number or
   Click the right mouse button to decrement the channel number

When the correct channel is reached, release the middle scroll wheel button

The next channel that is selected when you press the left or right mouse button depends upon the setting that has been entered in the configuration mode; all or active ports. The peripherals switched using the mouse switch method depends upon the switching mode currently set using the front panel button.
4- Serial command to the “Option” port

To switch channels using serial commands to the “Option” port, connect a serial cable from a computer’s serial port to the “Option” port on the Vista DVI Plus unit. The serial cable is usually an 8p8c connector on one end and a DB9F connector on the other end. The “Option” port on the Vista DVI Plus uses a 10p10c socket. This socket will accommodate a 10p10c and an 8p8c connector.

**Serial cable pin-out**

<table>
<thead>
<tr>
<th>Vista DVI Option port 10p10c</th>
<th>Computer Serial port DB9M</th>
</tr>
</thead>
<tbody>
<tr>
<td>RXD</td>
<td>TXD</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>GND</td>
<td>GND</td>
</tr>
<tr>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td>4</td>
<td>10p10c cable DB9F</td>
</tr>
<tr>
<td>5</td>
<td>GND</td>
</tr>
</tbody>
</table>

Set the serial port parameters to:
Baud rate – 1200
Data bits – 8
Stop bits – 1
Parity - None

<table>
<thead>
<tr>
<th>ASCII Character</th>
<th>Hex</th>
<th>Decimal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select channel 1:</td>
<td>1</td>
<td>0x31</td>
</tr>
<tr>
<td>Select channel 2:</td>
<td>2</td>
<td>0x32</td>
</tr>
<tr>
<td>Select channel 3:</td>
<td>3</td>
<td>0x33</td>
</tr>
<tr>
<td>Select channel 4:</td>
<td>4</td>
<td>0x34</td>
</tr>
<tr>
<td>Select channel 5:</td>
<td>5</td>
<td>0x35</td>
</tr>
<tr>
<td>Select channel 6:</td>
<td>6</td>
<td>0x36</td>
</tr>
<tr>
<td>Select channel 7:</td>
<td>7</td>
<td>0x37</td>
</tr>
<tr>
<td>Select channel 8:</td>
<td>8</td>
<td>0x38</td>
</tr>
</tbody>
</table>

Table 1. Serial Cable

With the proper serial cable connected from a computer and the Vista DVI Plus, start your computer’s serial communication program (HyperTerminal, TeraTerm, etc). Set the serial port parameters as designated in Table 1.

**NOTE:** The 1x4 unit uses an 8p8c to DB9 cable;
The 1x8 unit uses a straight through DB9 to DB9 cable.

To select a channel, enter the below code.
If entering ASCII characters from an attached computer’s keyboard, use the numeric keys above the keyboard, not the keypad.
Configuration mode

When you enter the configuration mode, each menu mode offers several settings that can be used to customize the actions of the Vista DVI Plus unit.

To enter the configuration mode, press and hold the front panel “Computer” button for approximately five (5) seconds.

1. After 5 seconds, the display will show a bracket symbol ‘ [ ‘
2. Using the user console keyboard enter the Menu Mode Selection Letter. The display will show the selected letter. (e.g. H)
   (See table 2)
3. Enter the required Mode Selection Number:
   The display will show the selected number (e.g. 6)
4. Press Enter on the keyboard to accept the setting and return to the main menu section. The display will show the bracket symbol “[ “
5. Return to step 2 to make another configuration change or
   Press the “E” key and then press Enter to exit and save the changes.

Menu Mode Selection

<table>
<thead>
<tr>
<th>Letter / Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Functions Menu</strong></td>
<td>(System Functions)</td>
</tr>
<tr>
<td>F 1 Enter</td>
<td>Show current firmware version</td>
</tr>
<tr>
<td>F 2 Enter</td>
<td>Refresh EDID information from the connected video display</td>
</tr>
<tr>
<td>F 8 Enter</td>
<td>Reset configuration to factory defaults</td>
</tr>
<tr>
<td><strong>Hotkey Menu</strong></td>
<td>(Change hotkey from default setting to)</td>
</tr>
<tr>
<td>H 1 Enter</td>
<td>Ctrl + Alt (Default setting)</td>
</tr>
<tr>
<td>H 2 Enter</td>
<td>Ctrl + Shift</td>
</tr>
<tr>
<td>H 3 Enter</td>
<td>Alt + Shift</td>
</tr>
<tr>
<td>H 4 Enter</td>
<td>Right Alt</td>
</tr>
<tr>
<td>H 5 Enter</td>
<td>Alt</td>
</tr>
<tr>
<td>H 6 Enter</td>
<td>Left Ctrl + Alt</td>
</tr>
<tr>
<td>H 7 Enter</td>
<td>Right Ctrl + Alt</td>
</tr>
<tr>
<td>H 8 Enter</td>
<td>Disable hotkeys</td>
</tr>
<tr>
<td><strong>Switch Menu</strong></td>
<td>(Defines which peripherals are switch)</td>
</tr>
<tr>
<td>S 1 Enter</td>
<td>All</td>
</tr>
<tr>
<td>S 2 Enter</td>
<td>KVM + Speaker</td>
</tr>
<tr>
<td>S 3 Enter</td>
<td>KVM only</td>
</tr>
<tr>
<td>S 4 Enter</td>
<td>Speaker only</td>
</tr>
<tr>
<td>S 5 Enter</td>
<td>USB 1 only</td>
</tr>
<tr>
<td>S 6 Enter</td>
<td>USB 2 only</td>
</tr>
<tr>
<td><strong>Auto-scan Time</strong></td>
<td>(Defines the auto-scan time delay)</td>
</tr>
<tr>
<td>T 1 Enter</td>
<td>Disable auto-scan</td>
</tr>
<tr>
<td>T 2 Enter</td>
<td>2 seconds</td>
</tr>
<tr>
<td>T 3 Enter</td>
<td>5 seconds</td>
</tr>
<tr>
<td>T 4 Enter</td>
<td>7 seconds</td>
</tr>
<tr>
<td>T 5 Enter</td>
<td>15 seconds</td>
</tr>
<tr>
<td>T 6 Enter</td>
<td>30 seconds</td>
</tr>
<tr>
<td>T 7 Enter</td>
<td>1 minute</td>
</tr>
<tr>
<td>T 8 Enter</td>
<td>5 minutes</td>
</tr>
</tbody>
</table>

(Continued)
User Preference (User defined preferences)
U 1 Enter Enable mouse switching
U 2 Enter Disable mouse switching
U 7 Enter Cycle all port (when using ‘Hotkey + Tab’ or ‘Auto-scan’)
U 8 Enter Cycle only active ports (when using ‘Hotkey + Tab’ or ‘Auto-scan’)

Table 2. Configuration menu options

Pressing the Esc key will exit from an option choice and return to the main menu ( [ ]).

Note: Using the front panel will switch USB 1 or USB 2 to a computer.
Using the Hotkeys will switch both USB 1 and USB2 (Ctrl + Alt + U) to a computer.

Examples:

You need to change the Hotkey from the default Ctrl + Alt to Ctrl + Shift because it conflicts with a KVM switch’s Hotkey.

1. Press the “Computer” button on the front panel for approximately 5 seconds.
   (Observe the front panel display. When it displays a bracket [ the unit is ready for inputs to the configuration menu)
2. Using the user console keyboard, press the ‘H’ key then the 2 key then enter.
   (the hotkey is changed to Ctrl + shift)
3. Press the ‘E’ key then ‘Enter’ to exit and save the changes.
   The hotkey default is now set to ‘Ctrl + Shift’.

Managing EDID video display information

Whenever a Vista DVI Plus unit is powered on (or when the refresh EDID option is selected from the configuration menu), it will interrogate the connected monitor(s) to determine whether EDID (Extended Display Identification Data) information is available. If EDID information is available, it will be copied and used; otherwise a default set of data, stored within the Vista DVI Plus, will be substituted.

The Vista DVI Plus units use our EDID Emulation feature to ensure that the collected EDID information (up to two pages) is correctly supplied to every connected computer.

The EDID information can be refreshed without power cycling the Vista DVI Plus unit.

Enter the configuration menu (Press computer button for 5 seconds)
Press the F key, then the 2 key, then enter key.
Press E then Enter
Auto scanning

The auto-scan feature switches between the connected computers, in sequence, at a pre-defined rate. (See Table 2, Auto-scan Time T x)

There are two scanning mode options, cycle all ports and cycle only the active ports. The auto-scan mode option is set in the User Preference, U 7 or U 8 section (See Table 2).

When option U 8 is selected (Cycle only active ports) when you use the mouse button or the hotkeys + tab to change channels, only channels that have an active computer connected will display, un-active channels will be skipped.

To start the auto-scan mode, using the user console keyboard, press Ctrl + Alt + X. Scanning will start at the pre-defined rate (T x) and all or only active channels will be displayed depending on the User Preference setting (U 7 or U 8).

To stop the auto-scanning, press the “COMPUTER” button on the front panel or select a specific channel using the hotkey + channel number.

Installing / synchronizing multiple units

If your system requires video from a dual head PC, the Vista DVI Plus unit can be connected to a second unit to handle the second video. The main unit is connected to the second unit using a serial synchronization cable. See Attachment “C” for installation and operation instructions.

OSD – Configuration menus

The Vista DVI Plus 1 x 8 model has an OSD configuration menu that enables you to configure several settings. To access the configuration menu, simultaneously press the Ctrl + Alt + M key, then press the F1 key for “More menus”.

![Configuration Menu](attachment:configuration_menu.png)

<table>
<thead>
<tr>
<th>Functions</th>
<th>Setup Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reset to Factory Defaults</td>
<td>Language</td>
</tr>
<tr>
<td>Global Preferences</td>
<td>Hotkeys</td>
</tr>
<tr>
<td>Mouse Switching</td>
<td>Default Channel</td>
</tr>
<tr>
<td>OSD Color</td>
<td>Edit Computer List</td>
</tr>
<tr>
<td>Default Mode</td>
<td>EDID Options</td>
</tr>
<tr>
<td>Reminder Banner</td>
<td>EDID Source</td>
</tr>
<tr>
<td>Autoscan Mode</td>
<td>EDID Refresh</td>
</tr>
<tr>
<td>Autoscan period</td>
<td></td>
</tr>
<tr>
<td>OSD Dwell Time</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Functions

Selecting “Functions” from the main menu will display the Functions screen. From this screen you can reset the Vista DVI Plus unit to the original factory defaults.

WARNING: This function will clear all stored computer names.

The F7 key must be pressed to confirm the reset to factory default action. A confirmation message will display when the unit is reset.

Global Preferences

Selecting “Global Preferences” from the main menu will enable several settings that configure various operations.

Use the up / down arrow keys to select the option and press enter.

Below describes each selection:

Mouse Switching

Selection: Enabled, Disabled
Mouse Type: Three button or IntelliMouse

Select “Mouse Switching” from the menu and “ENABLE” the option. You can then switch computer ports by pressing the center button or the wheel and left mouse button together. Each press causes the unit to switch to the next available port.

NOTE: When “Mouse Switching” is ENABLED, the center button or the wheel mouse button is not available for use by computer applications. If you require these buttons to be active for your applications, DISABLE mouse switching.

OSD Color

Selection: SCHEME 1, SCHEME 2, SCHEME 3, SCHEME 4

Select OSD Color and press the space bar to toggle between the four available color schemes. This setting also applies to the color or the reminder banner.
Default Mode:
Selection: ALL, KVM + SPK, KVM ONLY, SPK ONLY, USB1 ONLY, USB2 ONLY
Selects which peripheral switching mode to set as the standard mode. On screen menu or front panel switching only. Mouse or hotkey switching switches both KVM and speakers.

Reminder Banner
Settings: ALWAYS, AFTER OSD, NEVER
A pop up window will momentarily display the current connected computer following a change to the selected computer or when exiting the on screen menu. Use the OSD Dwell time to set the banner display time.

Autoscan Mode
Settings: SCAN LIST, ALL PCs, ACTIVE PCs
This setting determines which computers will be selected during the autoscan mode. If “SCAN LIST” is selected, only the computers that have been checked (x) on the Edit computer list.
If “ALL PCs” is selected, all computer ports will be scanned, including those that have no connected computer.
If “ACTIVE PCs” is selected, only computer ports that have an active computer connected will be displayed.
The “Autoscan Period” setting determines how long each computer is viewed before switching to the next one.

Autoscan Period
Settings: 2, 5, 7, 15, 30SECONDS / 1, 5 MINUTES, DISABLED
Sets the view duration during the autoscan session. Autoscan can also be disabled by selecting “DISABLED”

OSD Dwell Period
Settings: 1, 2, 3, 5 SECONDS
After a successful computer change or exiting from the on screen menu, the Vista DVI Plus unit will display a confirmation message for the number of seconds selected with this option.
Setup Options

The Setup Option menu allows you to define the language used for the on-screen menus and the keyboard layout.

**Language**
Settings: **ENGLISH, FRENCH, GERMAN, SWEDISH**
Specifies the language for the on-screen menu and keyboard layout.

**Hotkeys**
Settings: `CTRL+ALT`, `CTRL+SHIFT`, `ALT+SHIFT`, `ALT GR`, `L+R ALT`, `L CTRL + ALT`, `R CTRL + ALT`
This menu allows you to change the default hotkey setting (Ctrl + Alt keys) to one of seven choices. The hotkeys plus certain keyboard command keys perform different functions. See the "Hotkeys" section.

**Default Channel**
Settings: **OSD, Channel 1,2,3,4,5,6,7,8**
This option determines whether the OSD is displayed when the unit is first powered on or a channel (1-8) is switched to and displayed.
Edit Computer List

The edit computer list allows you to change, insert or remove entries in the list. You can edit each entries name, change the channel number and include or exclude the channel from the autoscan feature.

| Computer 01 | 01 | x |
| Computer 02 | 02 | x |
| Computer 03 | 03 | x |
| Computer 04 | 04 | x |
| Computer 05 | 05 | x |
| Computer 06 | 06 | x |
| Computer 07 | 07 | x |
| Computer 08 | 08 | x |

Ins-Add Del-Delete
Enter-Edit X-Autoscan
F1-Select F3-Find
Esc-Quit

1. Highlight the computer name and press enter. Press the backspace key to delete the name characters and enter the new computer name (up to 16 characters).
2. Press return to move to the computer channel. Change or enter the channel address of the computer and press enter.
3. While the entry is highlighted, press the x key to add/remove the right side “x” marker. This determines whether the computer is included or not when the autoscan is selected.

EDID Options

This option allows you to change the settings related to how the EDID information is obtained.

EDID Source

Settings: AUTO, DVI, VGA
“AUTO” setting first checks the DVI port on the user console. If no EDID data are available, moves to the VGA port. If no EDID data is available at the VGA port, Vista DVI Plus uses its internal default EDID values. DVI and VGA selections interrogate only those selected ports.

EDID Refresh

Settings: AT START, DISABLED
START – Reads EDID information from the user console monitor at power up.
DISABLED – Existing EDID data is used, no new EDID information is obtained from the user console monitor.
Service

This Unit does not contain any internal user-serviceable parts. In the event a Unit needs repair or maintenance, you must first obtain a Return Authorization (RA) number from Rose Electronics or an authorized repair center. This Return Authorization number must appear on the outside of the shipping container.

See Limited Warranty for more information.

When returning a Unit, it should be double-packed in the original container or equivalent, insured and shipped to:

Rose Electronics
Attn: RA__________
10707 Stancliff Road
Houston, Texas 77099 USA

Technical Support

If you are experiencing problems, or need assistance in setting up, configuring, or operating your Vista DVI Plus, consult the appropriate sections of this manual. If, however, you require additional information or assistance, please contact the Rose Electronics Technical Support Department at:

Phone: (281) 933-7673
E-Mail: TechSupport@rose.com
Web: www.rose.com

Technical Support hours are from: 8:00 am to 6:00 pm CST (USA), Monday through Friday.

Please report any malfunctions in the operation of this Unit or any discrepancies in this manual to the Rose Electronics Technical Support Department.
The Vista DVI Plus has been tested for conformance to safety regulations and requirements, and has been certified for international use. Like all electronic equipment, the Vista DVI Plus should be used with care. To protect yourself from possible injury and to minimize the risk of damage to the Unit, read and follow these safety instructions.

- Follow all instructions and warnings marked on this Unit.
- Except where explained in this manual, do not attempt to service this unit yourself.
- Do not use this unit near water.
- Assure that the placement of this unit is on a stable surface or rack mounted.
- Provide proper ventilation and air circulation.
- Keep power cord and connection cables clear of obstructions that might cause damage to them.
- Use only power cords, power adapter and connection cables designed for this Unit.
- Use only a grounded (three-wire) electrical outlet.
- Use only the power adapter provided with the unit.
- Keep objects that might damage this Unit and liquids that may spill, clear from this Unit. Liquids and foreign objects might come in contact with voltage points that could create a risk of fire or electrical shock.
- Operate this Unit only when the cover is in place.
- Do not use liquid or aerosol cleaners to clean this Unit. Always unplug this Unit from its electrical outlet before cleaning.
- Unplug this Unit from the electrical outlet and refer servicing to a qualified service center if any of the following conditions occur:
  - The power cord or connection cables are damaged or frayed.
  - The Unit has been exposed to any liquids.
  - The Unit does not operate normally when all operating instructions have been followed.
  - The Unit has been dropped or the case has been damaged.
  - The Unit exhibits a distinct change in performance, indicating a need for service.

Documentation reference symbol. If the product is marked with this symbol, refer to the product documentation to get more information about the product.

**WARNING**
A WARNING in the manual denotes a hazard that can cause injury or death.

**CAUTION**
A CAUTION in the manual denotes a hazard that can damage equipment.

Do not proceed beyond a WARNING or CAUTION notice until you have understood the hazardous conditions and have taken appropriate steps.

**Grounding**
There must be an un-interruptible safety earth ground from the main power source to the product's input wiring terminals, power cord, or supplied power cord set. Whenever it is likely that the protection has been impaired, disconnect the power cord until the ground has been restored.

**Servicing**
There are no user-serviceable parts inside these products. Only service-trained personnel must perform any servicing, maintenance, or repair. The user may adjust only items mentioned in this manual.
Appendix A – Specifications

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>KVM-4TDDL/A1</td>
<td>DVI-I Dual Link, USB 2.0, 1x4 KVM switch</td>
</tr>
<tr>
<td>KVM-8TDDL/A1</td>
<td>DVI-I Dual Link, USB 2.0, 1x8 KVM switch</td>
</tr>
<tr>
<td>(All models feature)</td>
<td>(Dual-Link video, USB 2.0, and Audio support)</td>
</tr>
<tr>
<td>KIT-RCSMDM005</td>
<td>Sync serial cable</td>
</tr>
<tr>
<td>RM-VDP14/19</td>
<td>Rackmount kit for 1x4 model</td>
</tr>
<tr>
<td>KIT-ACC-ATRF/4.0</td>
<td>Serial cable</td>
</tr>
</tbody>
</table>

Dimensions:

<table>
<thead>
<tr>
<th>Width</th>
<th>Depth</th>
<th>Height</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>(in / mm)</td>
<td>(in / mm)</td>
<td>(in / mm)</td>
<td>(lbs / kg)</td>
</tr>
<tr>
<td>1 x 4</td>
<td>9.2 / 233</td>
<td>4.5 / 115</td>
<td>1.75 / 44</td>
</tr>
<tr>
<td>1 x 8</td>
<td>19 / 482</td>
<td>8.5 / 215</td>
<td>1.8 / 45</td>
</tr>
</tbody>
</table>

Video:

- Dual link: DVI-I
- Resolution: 2K (2048x1080)
- WQXGA (2560 x 1600)

Connectors:

- DVI in / out: DVI-I female
- Keyboard: USB Type A
- Mouse: USB Type A
- Audio: 3.5mm Female audio jack
- USB2.0: Type A – Peripherals (2)
  - Type B – To Computer (1)
  - Power: Male barrel jack

Controls:

- Front Panel push buttons (Computer / Mode)

Power:

- Adapter: 100 – 240 VAC 50/60 Hz / +5 VDC / 2A(1x4) - 4A(1x8)

Operating Temp:

- 32°F - 104°F (0°C - 40°C)

Approvals:

- CE, FCC
Appendix B – Default Video Modes

1024 x 768p at 60Hz  Native/preferred timing
720 x 400p at 70Hz  IBM VGA
720 x 400p at 88Hz  IBM XGA2
640 x 480p at 60Hz  IBM VGA
640 x 480p at 67Hz  Apple Mac II
640 x 480p at 72Hz  VESA
640 x 480p at 75Hz  VESA
800 x 600p at 56Hz  VESA
800 x 600p at 60Hz  VESA
800 x 600p at 72Hz  VESA
800 x 600p at 75Hz  VESA
832 x 624p at 75Hz  Apple Mac II
1024 x 768i at 87Hz  IBM
1024 x 768p at 60Hz  VESA
1024 x 768p at 70Hz  VESA
1024 x 768p at 75Hz  VESA
1280 x 1024p at 75Hz  VESA
1152 x 870p at 75Hz  Apple Mac II
1600 x 1200p at 60Hz  VESA STD
1680 x 1050p at 60Hz  VESA STD
1360 x 765p at 60Hz  VESA STD
1360 x 768p at 60Hz  VESA STD
1440 x 900p at 60Hz  VESA STD
1280 x 720p at 60Hz  VESA STD
1920 x 1080p at 60Hz  VESA STD

Appendix C – Synchronizing multiple units

The Vista DVI Plus unit can be connected to another unit to switch four or eight dual video heads simultaneously. The units are connected together with a special synchronizing cable connected to the “Option” port on each unit. One video head is connected master unit and the second video head connected to the slave unit.

**NOTE:** The synchronization cable must **NOT** have the TXD pin on the Slave unit connected. If the TXD pin is connected it will cause an endless switching cycle and improper operation.

When a switching command is issued to the master unit, the same switching command is sent via the synchronization cable to the slave unit.
Server Management Solutions