

Vista KM III

1×4, 1×8 KM Switch • No video • USB2.0 • Audio

Installation and Operation Manual



LIMITED WARRANTY

Rose Electronics® warrants the Vista KM III 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.

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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, circuitry of the product, and manual content at any time without notice.

The manufacturer cannot accept liability for damages due to misuse of the product or other circumstances outside the manufacturer's control. The manufacturer will not be responsible for any loss, damage, or injury arising directly or indirectly from the use of this product. (See limited warranty.)

System Introduction

Thank you for choosing the Vista KM III, USB Keyboard/Mouse Switch. It is the result of Rose Electronics commitment to providing state-of-the-art solutions for today's demanding workplace. The Vista KM III is a dedicated USB KM (Keyboard and Mouse) switch capable of selecting and switching up to 8 different computers through USB keyboard & mouse commands. With monitors directly connected to each PC/Server, the Vista KM III enables a single USB keyboard and mouse to connect to and control all connected PC/Servers.

Stereo analog audio output (4-port unit only) and USB 2.0 devices can be shared between the computers.

The switch can be connected to PC's supporting single-head, dual-head and quad-head monitors, thus increasing the versatility of the product in managing multi-head video installations. Switching computers can be controlled using keyboard hotkeys or RS-232 commands, as well as through the unit's front panel push buttons.

USB keyboard and mouse emulation provides quick PC source switching by means of keyboard hotkey sequences. The Vista KM III imitates the presence of a keyboard and mouse to every attached computer through its USB connection, even when the computers are not currently selected.

The Vista KM III is particularly suited to control desk and NOC applications where space constraints are a major consideration, and where the user needs a quick and easy way to switch between multiple connected PC/Servers.

Features

- Manage up to eight connected computers
- Dedicated processors for USB keyboard and mouse emulation
- Supports independent switching for USB 2.0 devices
- Full keyboard and mouse emulation for rapid switching
- Switch PC's by using front-panel buttons, hotkeys and RS-232 control the mouse movement
- 8-port unit comes with a front panel LED for selected channel display
- 4-port unit also switches audio
- No software or drivers required for easy implementation, including multi-head use

Package Contents

The package contents consist of the following:

- The Vista KM III unit as ordered
- External power supply unit and country-specific power cable
- Manual

Additional cables that are required, but are not included in the package:

- USB cables, A to B
- Audio cables (4-port model)
- RS232 (DB9M) serial cable for serial port operation

Additional cables are usually ordered separately. If the package contents are not correct, contact Rose Electronics or your reseller so the problem can be quickly resolved.

MODELS

Vista KM III Models

The Vista KM III comes in two models as shown below.

4-Port Model - Front View



Figure 1. Vista KM III Front View

The front panel has 4 x Station LED's and 2 control buttons – *Status 1 and Status 2*.

4-Port Model - Rear View



Figure 2. KM-4USB- III Rear Panel

The rear panel of the Vista KM III has 4 x USB-B type connectors and Audio connectors for signals to and from the computers. There are 2 x USB-A connectors for USB Keyboard and USB Mouse, and 2 x USB-A type connectors for USB2.0 devices.

The RS232 control port has a DB9F connector.

The other ports on the back panel are as follows

- 1 x DVI-D OUT Connect a DVI Monitor
- 2 x USB KB/MS Connect a USB Keyboard/Mouse
- 2 x USB 2.0 Connect any USB2.0 peripheral for sharing between computers
- 1 x DB9F RS232 Serial control interface port
- 1 x 3.5mm Audio Out Audio port for speaker connection
- 1 x 5VDC Power connector for 5V PSU

8-Port Model - Front View



Figure 3. Vista KM III Front View

The front panel has 2 x Channel Select buttons, a 7-segment LED display and Status/Power LED indicators.

8-Port Model - Rear View

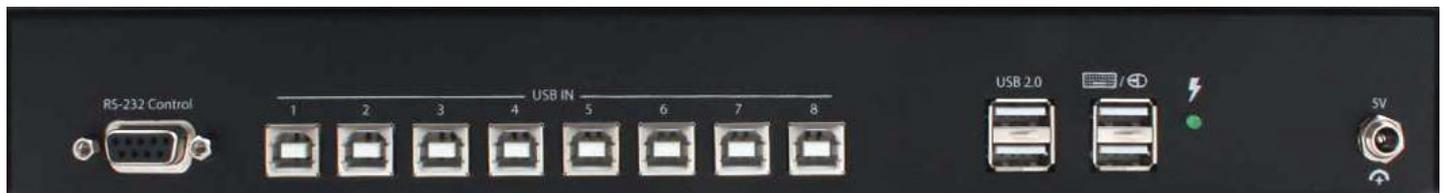


Figure 4. Vista KM III Rear Panel

The rear panel of the Vista KM III has 8 x USB-B type connectors for signals to and from the computers. There are 2 x USB-A connectors for USB Keyboard and USB Mouse, and 2 x USB-A type connectors for USB2.0 devices.

The RS232 control port has a DB9F connector.

INSTALLATION AND OPERATION

Installation

Installation of the Vista KM III is very simple. The steps to do so are outlined below.

1. Ensure that power is disconnected from Vista KM III.
2. Connect the USB cables (male-A to male-B), from the computers to the respective ports on the Vista KM III.
3. Optionally connect RS-232 for control functions.
4. Connect USB keyboard and mouse to the two USB ports labeled “KB/MS”.
5. Optionally connect USB peripherals (flash drives, printers, etc.) to the USB ports labeled “USB 2.0”.
6. Connect speakers to the Audio Out port. (4-port model only)
7. Apply power to the Vista KM III.

Two sample installation diagrams are shown below.

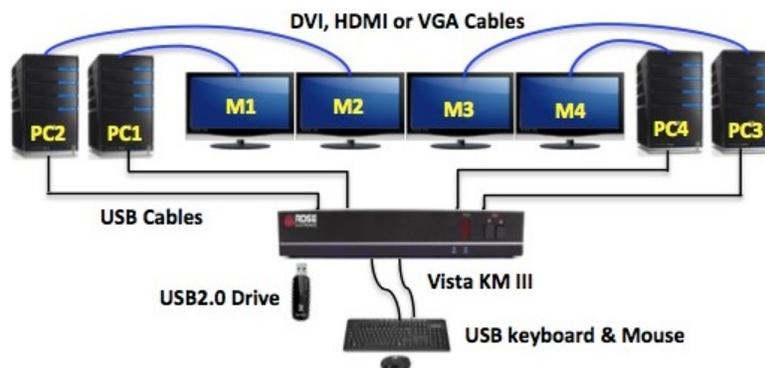


Figure 5. Vista KM III Single-Head Installation

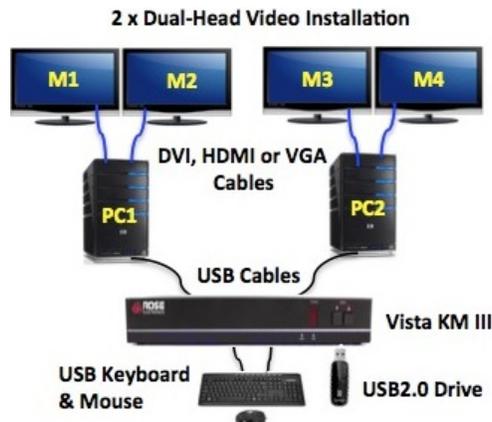


Figure 6. Vista KM III Dual-Head Installation

Note:

It is not advisable to use native USB cable lengths greater than 10 ft (3 m), as longer cables may result in intermittent USB keyboard/mouse performance.

Vista KM III Operation

This section deals with the use of the front panel buttons, and using RS-232 and hotkey commands.

4-Port Switch

Display Topology Selection

After connecting all devices to the Vista KM III, a display topology configuration and display mode must be chosen. By default, the Vista KM III is configured to single-head display mode and a topology with 4 screens arranged horizontally starting with port 1 on the left-hand side. The monitor installation setup must match one of Vista KM III's predefined display topology configurations. (*See the next section*)

The Display Topology can be selected through keyboard hotkey commands or through RS-232 control. If one or more of the input computers have multiple displays then the multi-head display mode must be selected. Otherwise, select the single-head display mode. Please refer to the Commands / Hotkeys table for the commands to select single or multi-head mode

COMMANDS	HOTKEYS	RS232 CONTROL
Single-head display mode	Ctrl + Ctrl + k + s	//ks
Multi-head display mode	Ctrl + Ctrl + k + m	//km

Table 1. 4-Port Switch Single-head or dual-head selection

Display Topology Configuration

The Vista KM III has a configurable display topology that can be easily activated through keyboard hotkeys or through RS-232 commands. No software or drivers required for configuring the display topology.

4 Displays – horizontal configuration

Hotkey Command: Ctrl + Ctrl + h + 4 + <CR>

RS-232 Command: //h4 <CR>



3 Displays – horizontal configuration

Hotkey Command: Ctrl + Ctrl + h + 3 + <CR>

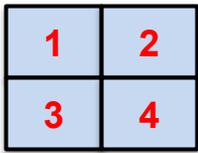
RS-232 Command: //h3 <CR>



4 Displays – quad-screen configuration

Hotkey Command: Ctrl + Ctrl + h + 2 + <CR>

RS-232 Command: //h2 <CR>



4 Displays – vertical configuration

Hotkey Command: Ctrl + Ctrl + h + 1 + <CR>

RS-232 Command: //h1 <CR>



Each of the numbered cells shown above represents a monitor display or multiple displays from a computer.

Notes:

- The Smart Mouse function can only be used in single-head display mode.
- Multi-head display mode switching must be used if any of the four computers have multiple displays.

Single-Head Mode KM Switching

When each PC has a single monitor connected (i.e., single-head operation), and when the monitors are positioned adjacent to each other, then Smart Mouse technology enables seamless switching between the connected PC's by moving the mouse cursor from one monitor to another. This feature only works in single-head display mode.

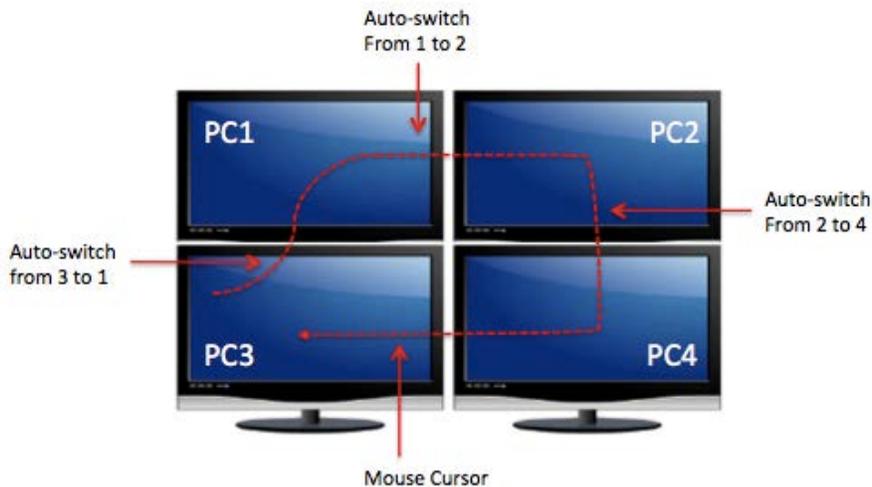


Figure 6. Vista KM III Single-Head Mode Switching

Multi-Head Mode KM Switching

When using a multi-head display system and a 2-button wheel mouse, then the Mouse Gesture technology enables switching between computers through the use of simple mouse clicks and mouse movement gestures. No device driver is required. Simply press the scroll wheel twice and then move the mouse in the direction of the computer you want to switch to. This feature only works in multi-head display mode.

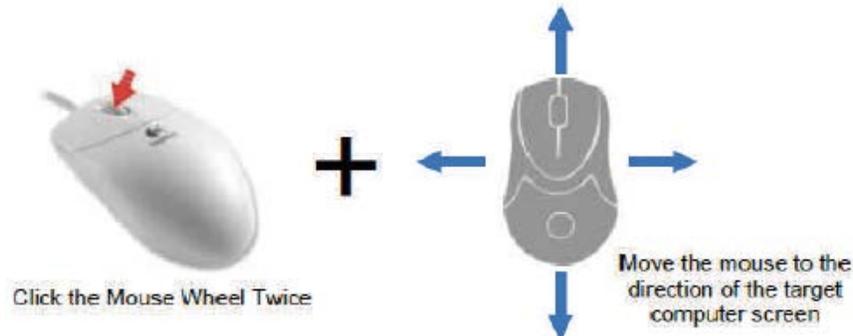


Figure 7. Vista KM III Multi-Head Mode Switching

Front Panel Buttons

As mentioned earlier, the front panel has a 2 control buttons – *Status 1 (Down arrow)* and *Status 2 (Up arrow)* and 4 LED's. Press the Up button to increase the port number and the Down button to decrease the port number. The selected PC port will be displayed on one of the four LED's.

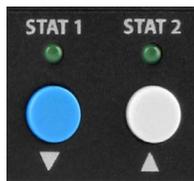


Figure 8. Vista KM III Front Panel Buttons

Hotkey Commands

Hotkey keyboard commands are used to trigger an action on the Vista KM III through the use of the keyboard connected on the USB-HID port of the switch. To activate the hotkey sequence, press the CTRL key twice and then enter the desired hotkey commands (see Table 2 below).

RS-232 Commands

The Vista KM III may also be controlled via RS-232 commands. This feature requires that the controlling computer has an RS-232 card or control port. Otherwise, a USB to RS-232 adapter may be used. The Vista KM III comes with a DB9(F) serial communications port.

Use a serial cable to connect the computer to the RS-232 port of the Vista KM III. Use terminal client software such as HyperTerminal or TerraTerm to connect to the Vista KM III. Make sure to use the standard communication mode of [9600bps, 8, N, 1, No Flow Control]. This port can also be used for firmware upgrade (see Table 2 below).

COMMANDS	HOTKEYS	RS232 CONTROL
Switch keyboard, mouse, audio and USB	Ctrl + Ctrl + m + Port# + <CR>	//m[port#]<CR>
Switch audio only	Ctrl + Ctrl + a + Port# + <CR>	//a[port#]<CR>
Switch keyboard, mouse and audio to next channel (USB unchanged)	Ctrl + Ctrl + ↑	
Switch keyboard, mouse and audio to previous channel (USB unchanged)	Ctrl + Ctrl + ↓	
Switch USB2.0 only (no keyboard, mouse, audio)	Ctrl + Ctrl + u + Port# + <CR>	//u<CR>
Switch USB1.1 only (no keyboard, mouse, audio)	Ctrl + Ctrl + c + Port# + <CR>	//c<CR>
Reset to factory default	Ctrl + Ctrl + f	//f
Software reset	Ctrl + Ctrl + r	//r
Single-head video display mode	Ctrl + Ctrl + k + s	//ks
Multi-head video display mode	Ctrl + Ctrl + k + m	//km
Display topology (multiple rows)	Ctrl + Ctrl + h(1-4) + <CR>	//h(1-4)<CR>
Limit input ports (one row only)	Ctrl + Ctrl + w(1-4) + <CR>	//w(1-4)<CR>
Cursor rolling (roll mouse past display borders, Up, Down, Left, Right)	Ctrl + Ctrl + o(0-OFF) or (1-ON) + <CR>	//o(0-OFF) or (1-ON) <CR>

Table 2. Hotkey and RS232 Control Commands

Limit Input Ports Configuration

Hotkey Commands: Ctrl, Ctrl w (n) commands (allows one row only):

RS-232 Commands: //w (n)

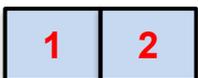
w4 <CR> All 4 ports are selectable



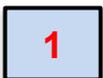
w3 <CR> Port 4 is not selectable



w2 <CR> Ports 3 and 4 are not selectable



w1 <CR> Ports 2 - 4 are not selectable



Independent USB2.0 Switching

The USB 2.0 Hub on the Vista KM III may be used for USB 2.0 devices such as printers, web cams, flash drives, and other USB2.0 devices. Devices plugged in to the Vista KM III's USB 2.0 hub may be switched independently from keyboard and mouse user control via hotkey or RS-232 commands:

Hotkey Command: Ctrl + Ctrl + u + port# + <CR>

RS-232 Command: //u [port #] <CR>

Note:

- Switching using the Smart Mouse or Mouse Gesture commands mouse switching will not switch USB 2.0 devices.
- You can copy files to a flash drive on a computer using the USB 2.0 hub while controlling another target computer.

8-Port Switch

Initial Setup

After connecting all devices to the Vista KM III, a display topology configuration and display mode must be chosen. By default, Vista KM III is configured to single-head mode and a topology with all 8 monitors arranged horizontally starting with port 1 on the left-hand side.

1. The monitor's installation setup must match one of Vista KM III's predefined display topology configuration. This can be selected through keyboard hotkey commands or through RS-232 serial port. Please refer to the "Display Topology Configuration" below for the available display topologies.
2. If one or more of the input computers have multiple monitors, multi-head display mode must be selected.
3. Otherwise, select single-head mode. Please refer to the table below for the relevant commands:

COMMANDS	HOTKEYS	RS232 CONTROL
Single-head display mode	Ctrl + Ctrl + k + s	//ks
Multi-head display mode	Ctrl + Ctrl + k + m	//km

Table 3. 8-Port Switch Single-head or dual-head selection

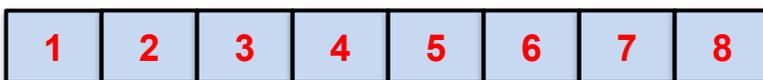
Display Topology Configuration

The Vista KM III has a configurable display topology that can be easily activated through keyboard hotkeys or through RS-232 commands. No software or drivers required for configuring the display topology.

8 Displays – horizontal configuration

Hotkey Command: Ctrl + Ctrl + h + 8 + <CR>

RS-232 Command: //h8 <CR>



8 Displays – horizontal configuration, 2 rows

Hotkey Command: Ctrl + Ctrl + h + 4 + <CR>

RS-232 Command: //h4 <CR>

1	2	3	4
5	6	7	8

8 Displays – two columns

Hotkey Command: Ctrl + Ctrl + h + 2 + <CR>

RS-232 Command: //h2 <CR>

1	2
3	4
5	6
7	8

8 Displays – vertical configuration

Hotkey Command: Ctrl + Ctrl + h + 1 + <CR>

RS-232 Command: //h1 <CR>

1
2
3
4
5
6
7
8

Note:

If one or more of the eight computers have multiple displays, multi-head display mode switching must be used.

Single-Head Mode KM Switching

When each PC has a single monitor connected (i.e., single-head operation), and when the monitors are positioned adjacent to each other, then Smart Mouse technology enables seamless switching between the connected PC's by moving the mouse cursor from one monitor to another. This feature only works in single-head display mode.

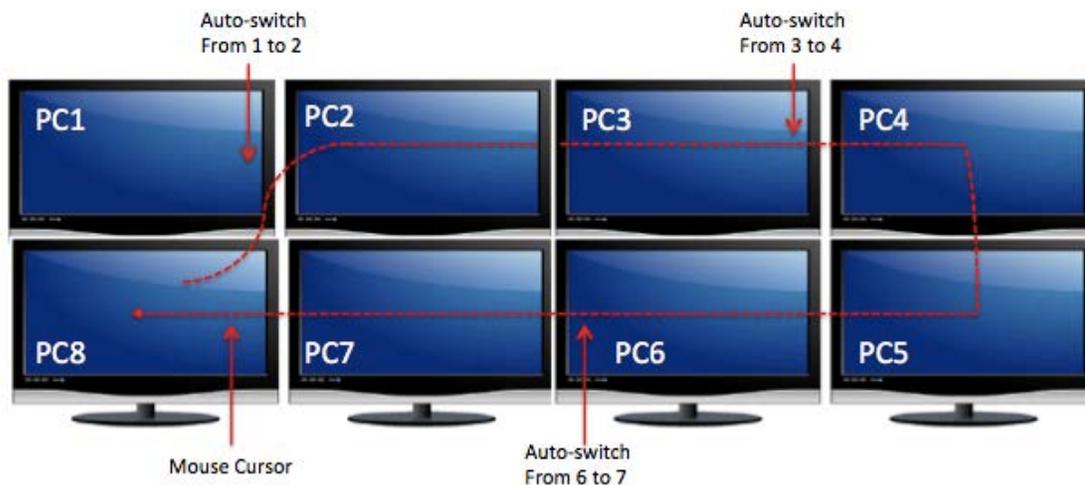


Figure 9. Vista KM III Single-Head Mode Switching (8 monitors)

Multi-Head Mode KM Switching

When using a multi-head display system and a 2-button wheel mouse, then the Mouse Gesture technology enables switching between computers through the use of simple mouse clicks and mouse movement gestures. No device driver is required. Simply press the scroll wheel twice and then move the mouse in the direction of the computer you want to switch to. This feature only works for both single-head and multi-head display mode.

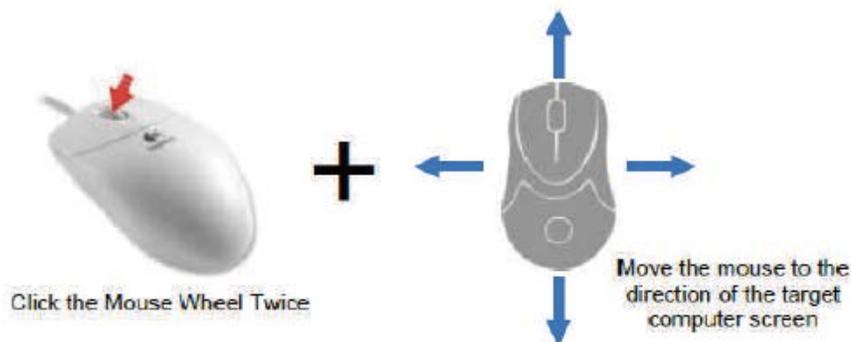


Figure 10. Vista KM III Multi-Head Mode Switching (8 monitors)

Front Panel Buttons

The front panel has a 2 control buttons – *Select 1 (Down arrow)* and *Select 2 (Up arrow)* and 1 *Station LCD display panel*. Press the Up button to increase the port number and the Down button to decrease the port number. The selected PC port will be displayed on the Station LCD screen.

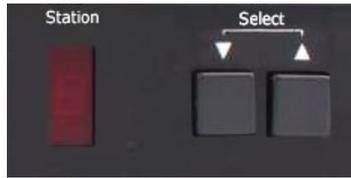


Figure 11. Vista KM III Front Panel Buttons

Hotkey Commands

The Hotkey command is a keyboard sequence used to trigger an action on the Vista KM III through the use of the keyboard connected on the USB port of the Vista KM III. To activate the hotkey sequence, press the CTRL key twice and then enter the desired hotkey commands.

RS-232 Control

The Vista KM III may also be controlled via RS-232 commands. This feature requires that the controlling computer has a RS-232 card or control port. Otherwise, a USB to RS-232 adapter may be used. The Vista KM III comes with a DB9(F) serial communications port.

Use a male-to-female serial cable to connect a computer to the RS-232 port of the Vista KM III. Use terminal client software such as the HyperTerminal or TeraTerm to connect to the Vista KM III. Make sure to use the standard communication mode of [9600bps, 8, N, 1, No Flow Control].

This port can also be used for software upgrade (see *table below*).

COMMANDS	HOTKEYS	RS232 CONTROL
Switch keyboard and mouse only	Ctrl + Ctrl + m + Port# + <CR>	//m [port#] <CR>
Switch to next channel (USB unchanged)	Ctrl + Ctrl + ↑	
Switch to previous channel (USB unchanged)	Ctrl + Ctrl + ↓	
Switch USB2.0 only	Ctrl + Ctrl + u + Port# + <CR>	//u <CR>
Reset to factory default	Ctrl + Ctrl + f	//f
Software reset	Ctrl + Ctrl + r	//r
Single-head video display mode	Ctrl + Ctrl + k + s	//ks
Multi-head video display mode	Ctrl + Ctrl + k + m	//km

Table 4. Vista KM III Hotkey and RS232 Control Commands

Independent USB2.0 Switching

The USB 2.0 Hub on the Vista KM III may be used for USB 2.0 devices such as printers, web cams, flash drives, and other USB2.0 devices. Devices plugged in to the Vista KM III's USB 2.0 hub may be switched independently from keyboard and mouse user control via hotkey or RS-232 commands:

Hotkey Command: Ctrl + Ctrl + u + port# + <CR>

RS-232 Command: //u [port #] <CR>

Notes:

- Switching using the Smart Mouse or Mouse Gesture commands mouse switching will not switch USB 2.0 devices.
- You can copy files to a flash drive on a computer using the USB 2.0 hub while controlling another target computer.

PRODUCT SAFETY

Safety

The Vista KM III, like all electronic equipment, 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.
- Provide proper ventilation and air circulation.
- Keep connection cables clear of obstructions that might cause damage to them.
- Use only power cords, power adapter and connection cables designed for this 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.
- Do not use liquid or aerosol cleaners to clean this Unit. Always unplug this Unit from the power source before cleaning.

Remove power from the Unit and refer servicing to a qualified service center if any of the following conditions occur:

- The 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.

SERVICE AND MAINTENANCE

Maintenance and Repair

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 product, 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.

APPENDICES

Appendix A- Specifications

Physical Specifications		
Dimensions (W x D x H)	4-Port: 9.1 x 4.75 x 1.13 (inch) (231 x 120 x 29mm) 8-Port: 12.6 x 6.6 x 1.75 (inch) (320 x 168 x 44.5mm)	
Weight	4-Port: 6.5 lbs (2.95 kg) 8-Port: 10lbs (4.5 kg)	
USB	4-Port Switch	8-Port Switch
Signal Type	USB 2.0, 1.1, 1.0 with internal hub	USB 2.0, 1.1, and 1.0 w/ internal hub
USB Ports	4x USB-B Type (female)	8 x USB-B Type (female)
User Console	2 x USB-A Type – keyboard & mouse 2 x USB-A Type – USB2.0 transparent	2 x USB-A Type – keyboard & mouse 2 x USB-A Type – USB2.0 transparent
Control Interface		
Front Panel	Tactile Switch, switches all devices	Tactile Switch, switches all devices
RS-232 Serial	Serial control at 9600bps	Serial control at 9600bps
Hotkeys	Via keyboard	Via keyboard
Mouse	Smart Mouse and Mouse Gesture	Smart Mouse and Mouse Gesture
General Specifications		
Emulation	Keyboard and Mouse	Keyboard and Mouse
Stereo Audio	(4) 3.5 mm input, (1) 3.5 mm output	Nil
Power	110-240VAC, 5V/2A, 10W	110-240VAC, 5V/2A, 10W
Operating Temperature	32-131 °F (0-55 °C)	32-131 °F (0-55 °C)
Storage Temperature	-4-185 °F (-20-85 °C)	-4-185 °F (-20-85 °C)
Humidity	Up to 95% non-condensing	Up to 95% non-condensing
Approvals	UL, CE, ROHS Compliant	UL, CE, ROHS Compliant

Appendix B- Part Numbers

Part Number	Description
Vista KM III/A1	Vista KM III, 4 Port USB 2.0 KB/MS + Audio Switch
Vista KM III	Vista KM III, 8 Port USB 2.0 KB/MS
CAB-USBAB006	USB-AB 6 ft (2 m) USB Cable
CAB-USBAB010	USB-AB 10 ft (3 m) USB Cable
CAB-SPMM006	Audio 3.5mm, 6ft (2m)
CAB-SPMM010	Audio 3.5mm, 10ft (3m)
CAB-DB9MF005	Serial RS232 cable, M/F, DB9, 5ft (1.8m)
CAB-DB9MF010	Serial RS232 cable, M/F, DB9, 10ft (2.0m)

Appendix C- Hotkey and RS-232 Commands

4-Port Switch

COMMANDS	HOTKEYS	RS232 CONTROL
Switch keyboard, mouse, audio and USB	Ctrl + Ctrl + m + Port# + <CR>	//m[port#] <CR>
Switch audio only	Ctrl + Ctrl + a + Port# + <CR>	//a[port#] <CR>
Switch keyboard, mouse and audio to next channel (USB unchanged)	Ctrl + Ctrl + ↑	
Switch keyboard, mouse and audio to previous channel (USB unchanged)	Ctrl + Ctrl + ↓	
Switch USB2.0 only (no keyboard, mouse, audio)	Ctrl + Ctrl + u + Port# + <CR>	//u <CR>
Switch USB1.1 only (no keyboard, mouse, audio)	Ctrl + Ctrl + c + Port# + <CR>	//c <CR>
Reset to factory default	Ctrl + Ctrl + f	//f
Software reset	Ctrl + Ctrl + r	//r
Single-head video display mode	Ctrl + Ctrl + k + s	//ks
Multi-head video display mode	Ctrl + Ctrl + k + m	//km
Display topology (multiple rows)	Ctrl + Ctrl + h(1-4)<CR>	//h(1-4) <CR>
Limit input ports (one row only)	Ctrl + Ctrl + w(1-4)<CR>	//w(1-4) <CR>
Cursor rolling (roll mouse past display borders, Up, Down, Left, Right)	Ctrl + Ctrl + o(0-OFF) or (1-ON) <CR>	//o(0-OFF) or (1-ON) <CR>

8-Port Switch

COMMANDS	HOTKEYS	RS232 CONTROL
Switch keyboard and mouse only	Ctrl + Ctrl + m + Port# + <CR>	//m [port#] <CR>
Switch to next channel (USB unchanged)	Ctrl + Ctrl + ↑	
Switch to previous channel (USB unchanged)	Ctrl + Ctrl + ↓	
Switch USB2.0 only	Ctrl + Ctrl + u + Port# + <CR>	//u <CR>
Reset to factory default	Ctrl + Ctrl + f	//f
Software reset	Ctrl + Ctrl + r	//r
Single-head video display mode	Ctrl + Ctrl + k + s	//ks
Multi-head video display mode	Ctrl + Ctrl + k + m	//km

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