TruLink™
2-Port VGA USB 2.0/PS2 KVM Switch

Model: 35554

Operation Manual

Version 1.0

Operation Manual

TruLink™2-Port VGA USB 2.0/PS2 KVM Switch

Connects two computers to one USB or PS2 keyboard, mouse, and VGA monitor
Model: 35554

Thank you for purchasing the TruLink 2-Port VGA USB 2.0/PS2 KVM Switch. **We recommend that you read this manual thoroughly and retain for future reference.**

Function:

This KVM Switch offers a quick and easy way to eliminate clutter from your desktop. It can control two computers with just one keyboard, mouse, and VGA monitor. Connect the switch to your computers via USB and VGA by using the included cables. The three downstream USB 2.0 ports can be used to share USB peripherals and your USB mouse and keyboard. Or, connect your keyboard and mouse by using the PS2 ports and use all three downstream USB 2.0 ports for peripherals. Three types of switching (push button, hot keys, and on-screen-display) enable switch operation in the most effective way for your application.

Package Contents:

- TruLink 2-Port VGA USB 2.0/PS2 KVM Switch
- CD with Operation Manual and On-Screen-Display (OSD) Utility
- Two sets of 1.8M VGA/USB Combo Cables
- 5V 2A DC Power Supply
- Printed Operation Manual

Table of Contents

Features

- **Controls two PCs with one PS2 or USB keyboard, one PS2 or USB mouse, and one monitor**
- **Supports Windows 98/98SE/2000/Me/XP/VISTA, Linux Kernel 2.3 or later, Mac OS9/OSX, Sun Micro Solaris 8 (SUN BLADE 100)**
- **Built-in three port USB 2.0 hub**
- **Supports three types of switching: hardware push button, hot keys on PS2 keyboard, and On-Screen-Display (OSD) utility software (for Windows)**
- **OSD utility indicates:**
     -Power status of connected computer(s)
     -Active host computer
- **Supports VGA resolutions up to 2048x1536.**
- **Plug and play compatible**
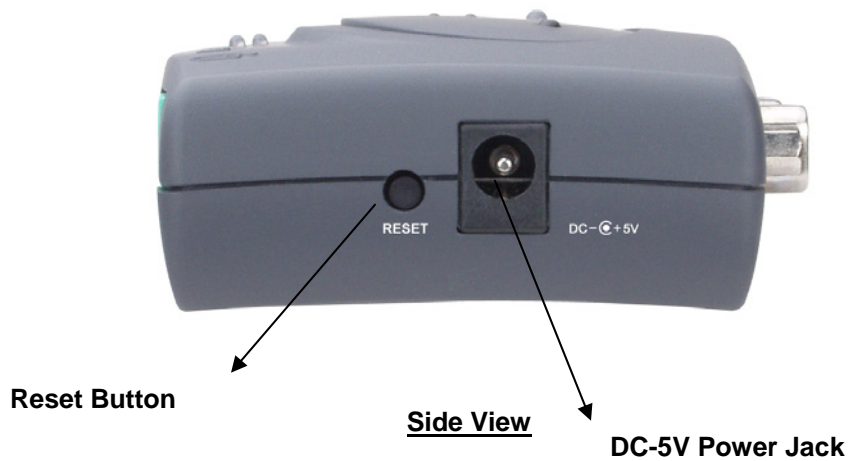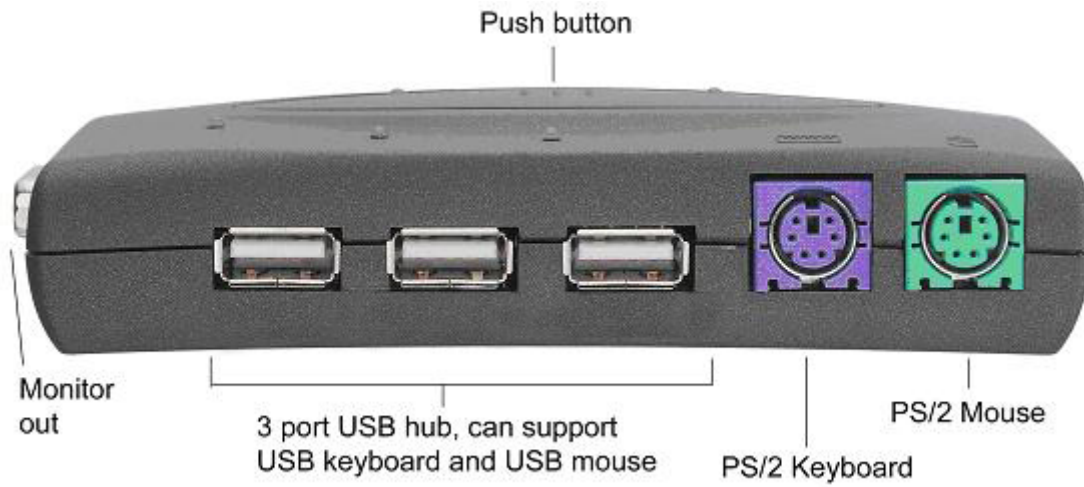
Connecting the TruLink KVM

1. Connect the USB cable "A" end to the computer's USB port, and the "B" end to the PC1 USB upstream port on the KVM.

2. Connect the male end of the VGA cable to the VGA port on the computer and the female end of the VGA cable to the PC1 monitor IN port on the KVM.

3. Repeat steps 1 and 2 for the second computer, using the PC2 USB port and PC2 monitor IN port on the KVM.

4. Connect the VGA cable from the monitor to the monitor output port on the KVM.

5. Connect a PS2 keyboard and mouse to the PS2 ports on the KVM or a USB keyboard and mouse to the USB 2.0 hub on the KVM.

6. Turn on the computers and make sure that the USB port is enabled and working properly.

Window 98/SE installation:

For Window 98 and 98/SE system users, installation is a different from above. After the hardware installed, please follow up these steps to install the KVM switch:

1. Remove PS/2 mouse and Keyboard devices from the TruLink KVM and plug them into the PC

2. Turn ON the PC

3. Use the TruLink KVM push buttons to switch to the target PC with the Windows 98/SE system

4. Follow the Driver installation instructions in the operating instructions section

5. Remove PS/2 mouse and keyboard from PC and plug into the TruLink KVM

Diagram of connections:

Push button

Monitor out

3 port USB hub, can support USB keyboard and USB mouse

PS/2 Keyboard

PS/2 Mouse

PC 1
USB

PC 1
Monitor IN

PC 2
Monitor IN

PC 2
USB

RESET

DC—⊙+5V

Reset Button

Side View

DC-5V Power Jack

LED Indicators

Host Indicators (RED)

ON: Host PC is available and active.
Flash: Indicates which Host PC is selected but not powered on

HUB Switch with PC1/PC2 Indicators (GREEN)

**Hub Switch with PC1 ON (Green)**: All USB 2.0 downstream ports are connected to PC1
Hub Switch with PC2 ON (Green): All USB 2.0 downstream ports are connected to PC2

Auto-Switch/Auto-Scan Indicator (GREEN)

ON: Auto-Switch mode is active. The USB hub will switch with PC switching.
OFF: Auto-Switch mode is inactive. The USB hub switch is independent from PC and can be controlled by hot key.
Flash: Auto-Scan mode is active.

PC2 HOST (RED)

PC1 HOST (RED)

HUB switch with PC1(Green)

Auto-Switch/ Auto-Scan (Green)   **HUB switch with PC2 (Green)**
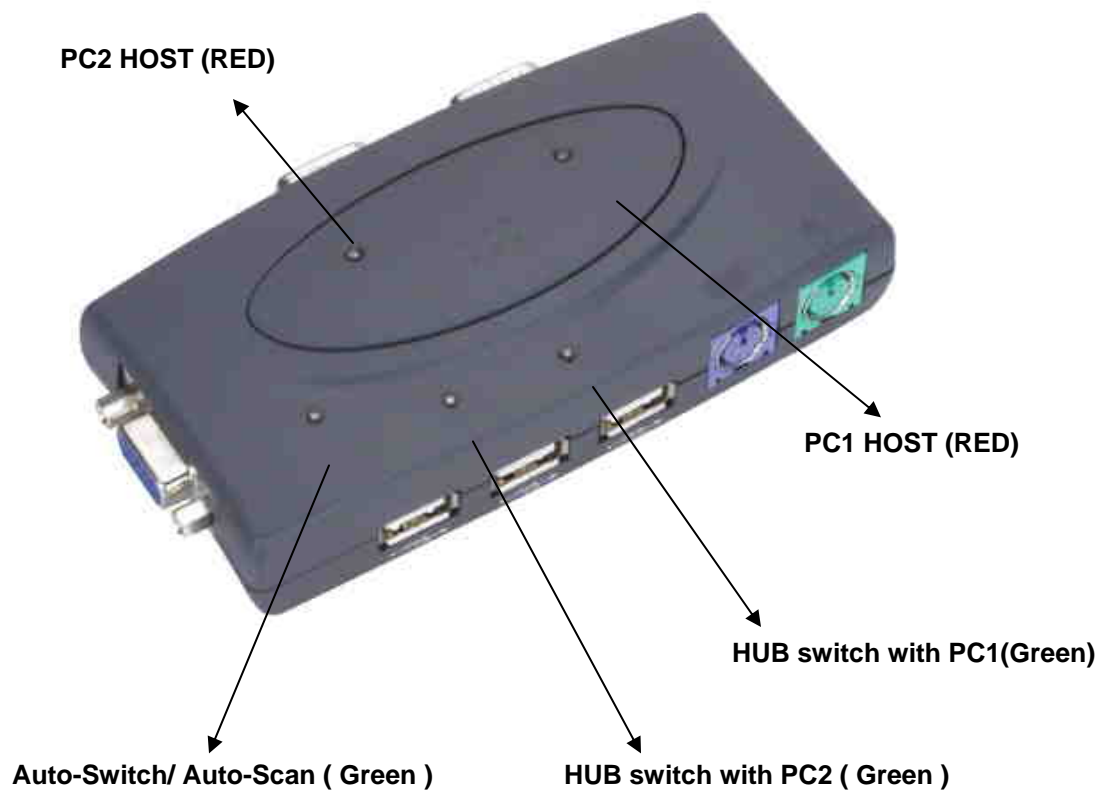
Operating the TruLink KVM:

Driver/Software installation:
No driver is needed for the following operating systems:
        a.   Windows ME/2000/XP
        b.   MAC OS9/OSX
        c.   Linux Kernel 2.3 or above
        d.   Sun Micro Solaris 8 or above

Windows 98/98SE:
After you connect the TruLink KVM Switch to your PC, Win 98 will automatically detect the device and prompt for the driver installation. Please proceed with the installation of the driver by following the instructions from **Step A-H**. Please have your Windows 98 CD ready.

Step A

A. Click "Next" to Continue

Step B

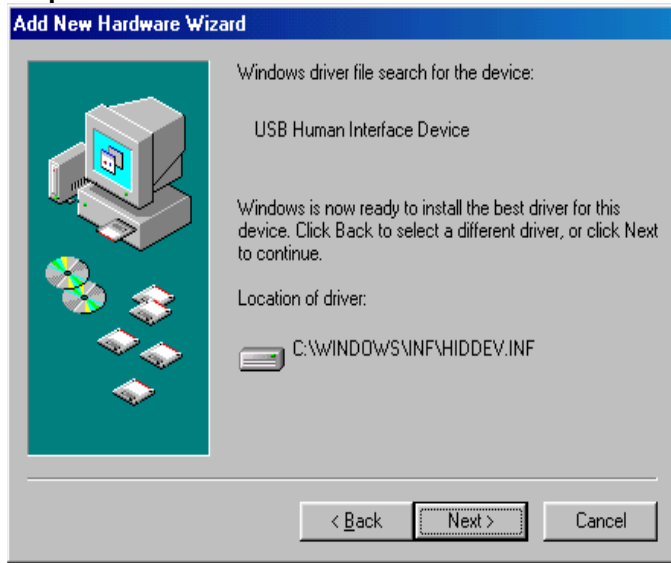B. Click "Next" to initiate the search for the best driver for your device.

4

Step C

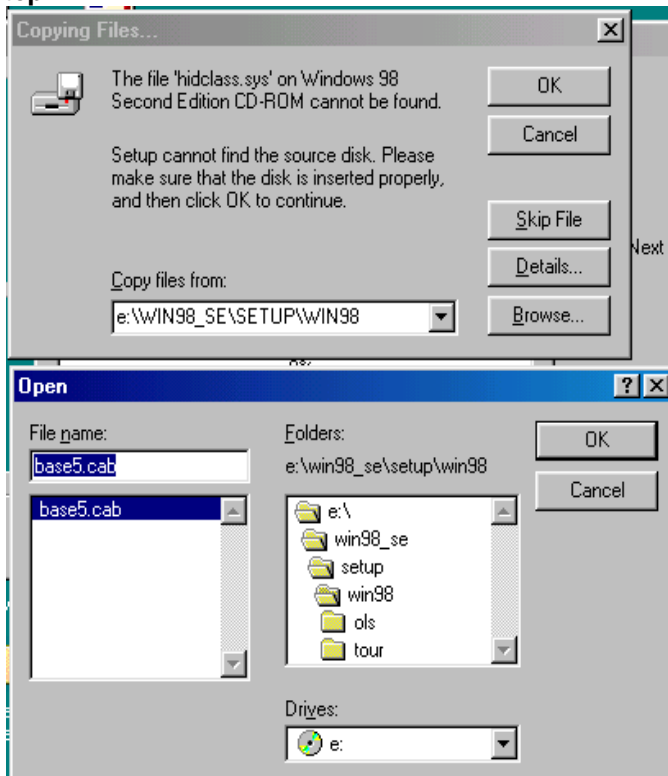C. Click "Next" to start and search.

Step D

D. Click "OK" to continue

5
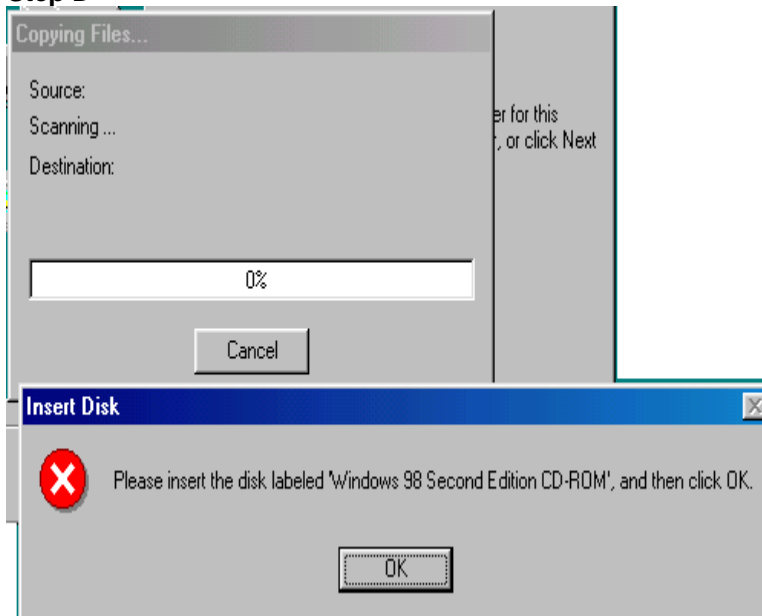
Step E
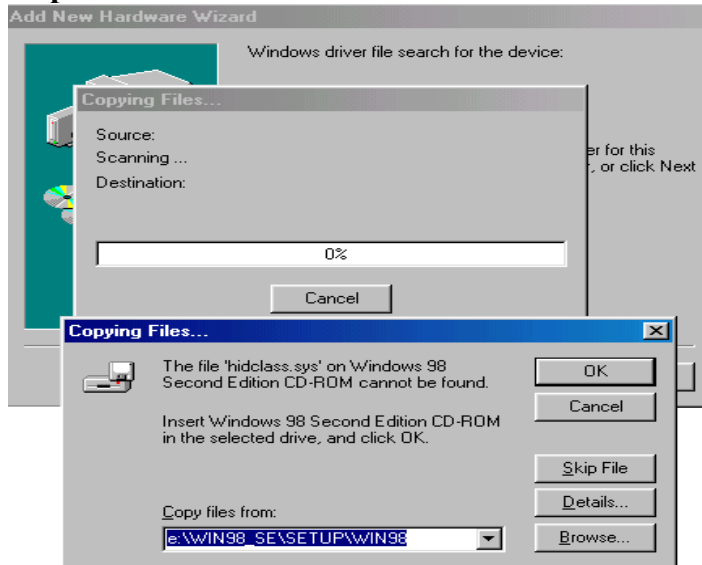

E. Click "Next" to continue

Step F

F. Please specify the location of the Windows source disk and Click "OK" to continue. You may use "Browse" to locate the driver.
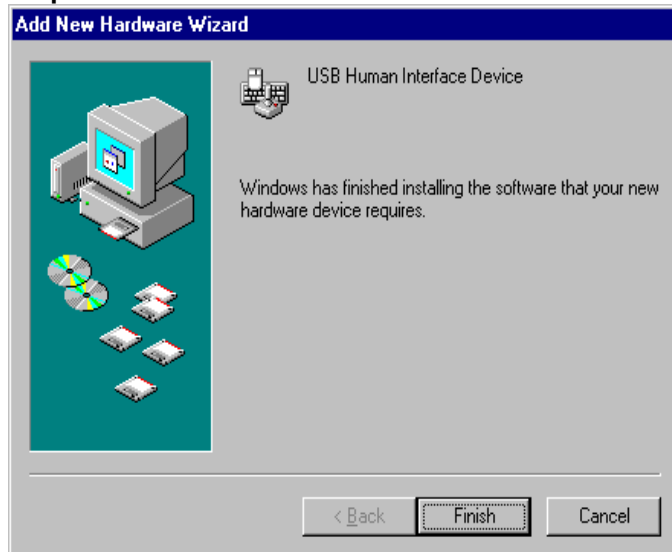(Ref Figure F)

*Note: Your hidclass.sys file might be located in a different directory from the figure above.

6

Step G

Add New Hardware Wizard

Windows driver file search for the device:

Copying Files...

Source:
Scanning ...
Destination:

`0%`

Cancel

Copying Files... ✖

The file 'hidclass.sys' on Windows 98
Second Edition CD-ROM cannot be found.

Insert Windows 98 Second Edition CD-ROM
in the selected drive, and click OK.

Copy files from:

`e:\WIN98_SE\SETUP\WIN98` ▼

OK
Cancel
Skip File
Details...
Browse...

G. Click "OK" to continue

Step H

Add New Hardware Wizard

USB Human Interface Device

Windows has finished installing the software that your new
hardware device requires.

< Back   Finish   Cancel

H. Click "Finish", Windows has
finished installing the USB
Human Interface Device driver
for the keyboard & mouse.

7

On-Screen-Display (OSD) utility software installation for windows

Place the enclosed CD into your CD-ROM drive. The AutoManual screen will automatically pop up on your monitor. Click the "Install OSD utility" button to proceed. If the AutoManual screen does not present, use the file explorer to choose the CDROM driver, and execute the AutoManual.exe.
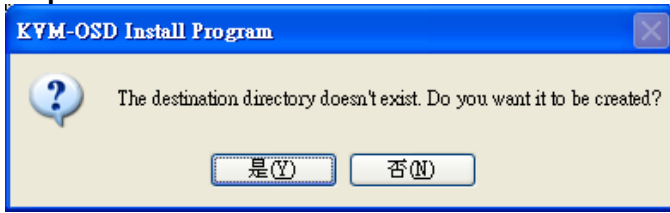
Step A

Click "Next" to continue the installation
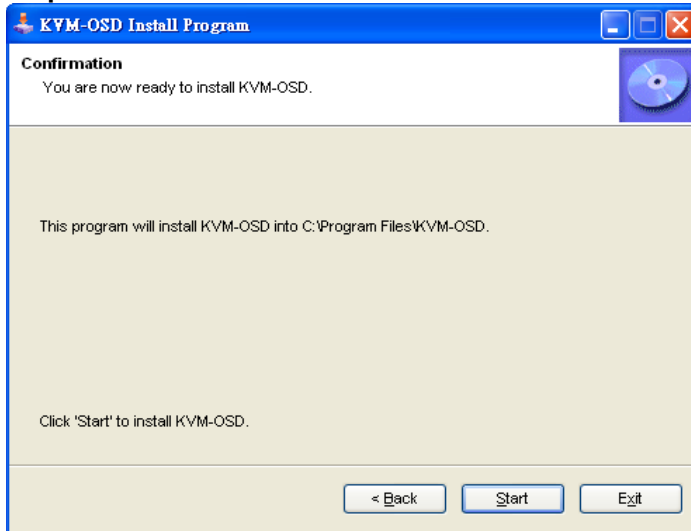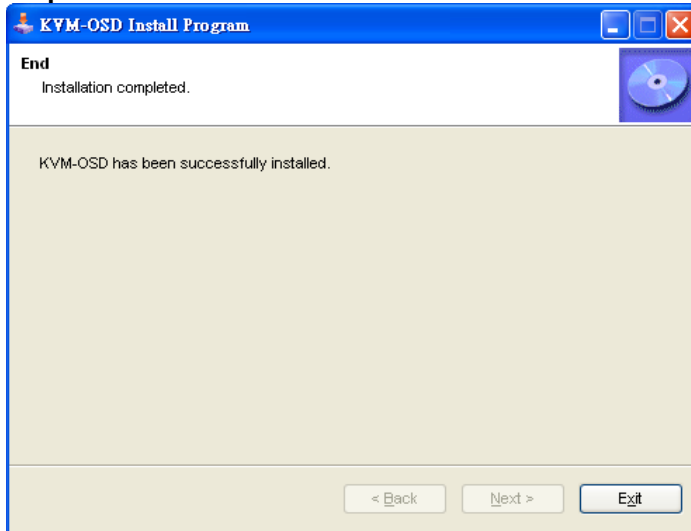
Step B

B. Click "Next" to continue

Step C

KVM-OSD Install Program

? The destination directory doesn't exist. Do you want it to be created?

是(Y)   否(N)
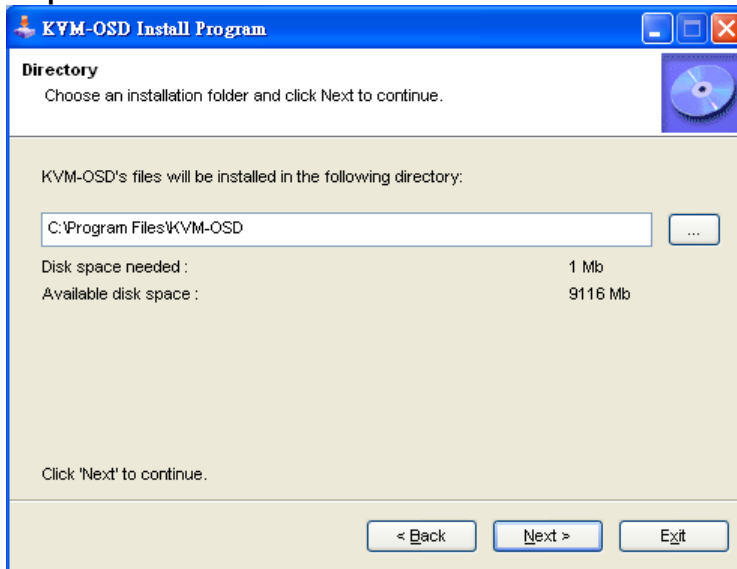
C. Click "Yes" to continue

Step D

KVM-OSD Install Program

Confirmation
You are now ready to install KVM-OSD.

This program will install KVM-OSD into C:\Program Files\KVM-OSD.

Click 'Start' to install KVM-OSD.

< Back   Start   Exit

D. Click "Start" to continue

Step E

KVM-OSD Install Program

End
Installation completed.

KVM-OSD has been successfully installed.

< Back   Next >   Exit

E. Click "Exit"

Using the OSD Program

Activating the OSD program

- Click: Start Menu \Program \KVM-OSD\KVM-OSD
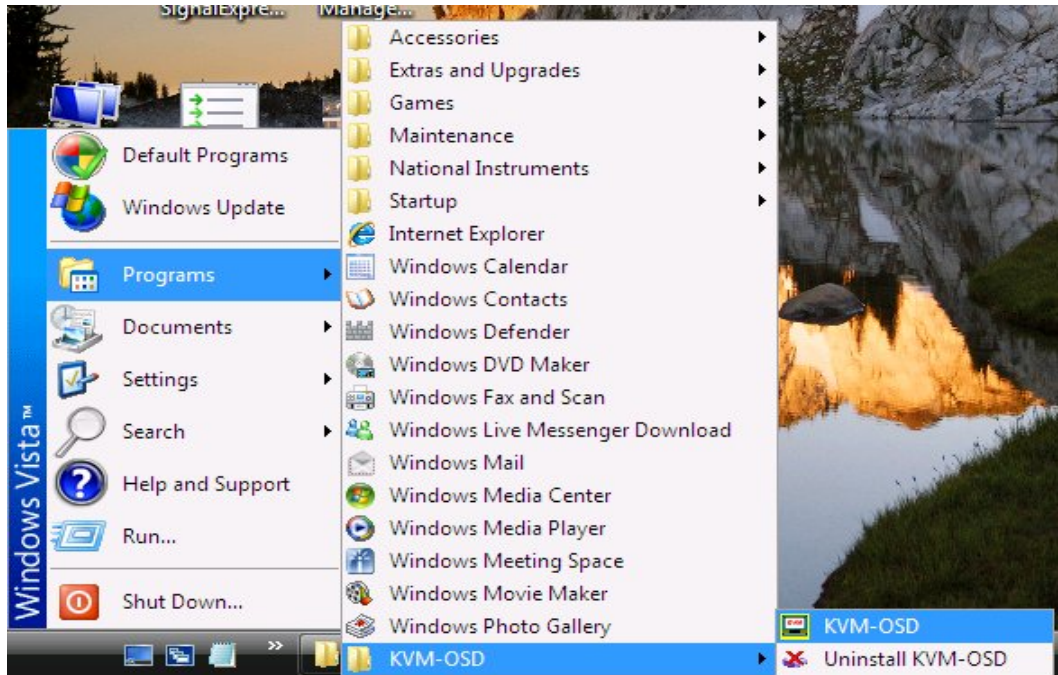
- OSD will start

Interpreting the OSD window

The OSD indicates the status of the connections, host PC and the USB device.

Port connection status and active host status buttons

Hide Button

Close Button

Host PC status
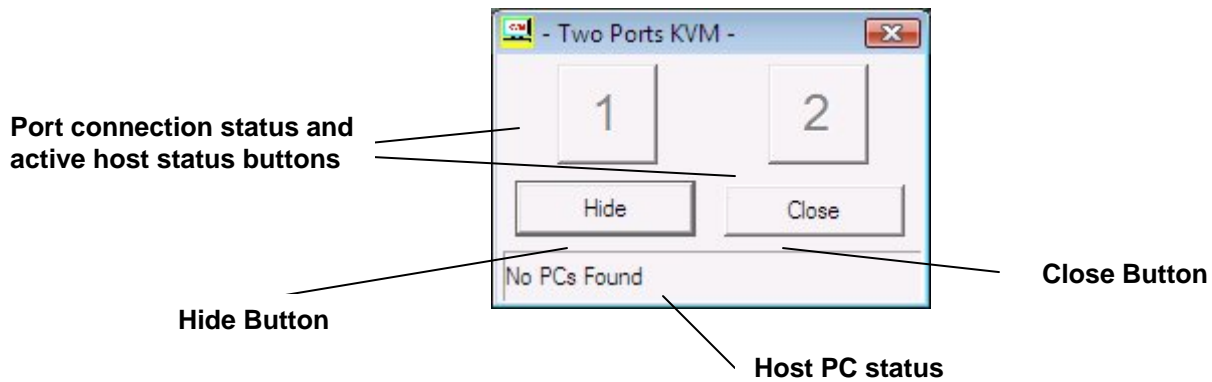
There are four different statuses:

**A.** "No PC Found" indicates no PCs are connected to the TruLink KVM or that connected PCs are off.
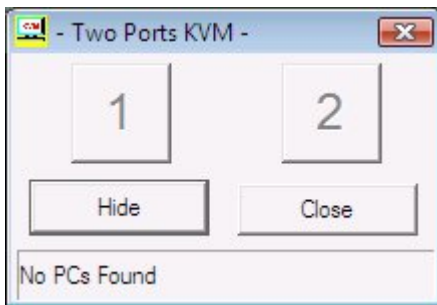
B. "PC 1 On" indicates the first port has a PC connected to it, the PC is on and the active host. The second port either has NO PC connected to it, or the PC is connected, but not on.

C. "PC 2 On" indicates the second port has a PC connected to it, the PC is on and the active host. The first port either has NO PC connected to it, or the PC is connected, but not on.

D. Both ports have PCs connected and on. The red letter and larger numeral indicates the second port is the active host. The green letter and smaller numeral indicates that the first port is NOT the active host, but is available for connection.
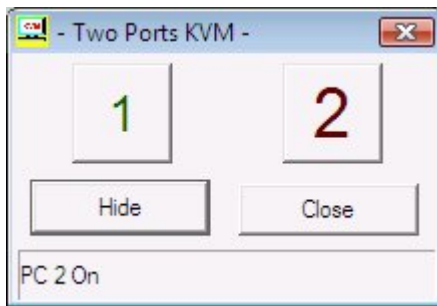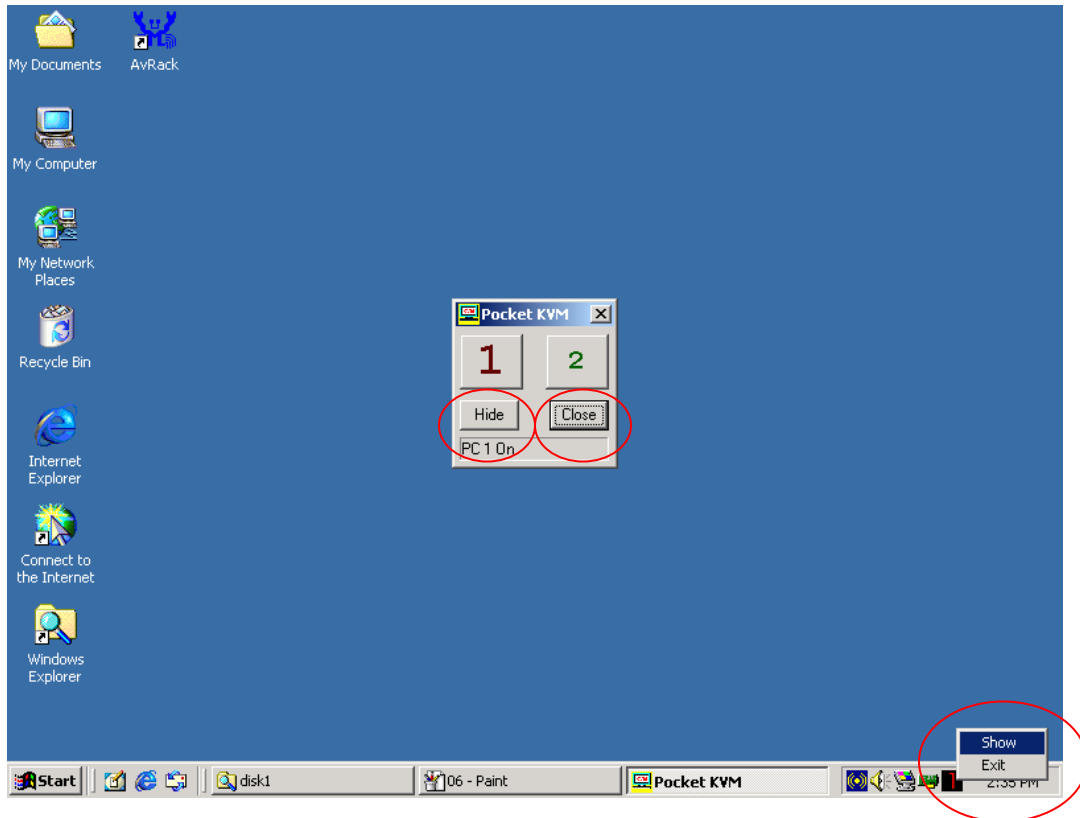

Switching the active host using the OSD program

Using the mouse, simply click on the button of the port that you want as the active host. The program will automatically switch the active host and the numbers on the button will change accordingly.
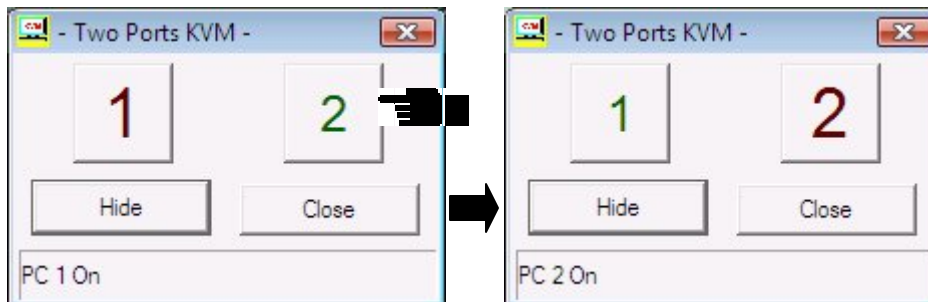
Hiding and closing the OSD program

- When you click the "Hide" button, OSD program window will hide in the Taskbar.
- When you click the "Close" button, OSD program will exit.
- If OSD program is hidden in Taskbar, you can right click on the taskbar icon to show or close the program.

Manual Switch by push button

1.1 HOST selection
You can switch to the next available active PC by pushing the switch button on the TruLink KVM Switch

Activating the Auto Switch Function
You can activate Auto Switch Function by pushing the switch button for three seconds. The USB hub will switch with the Host when the Auto Switch Function is enabled.

13

Hot Key Switch (PS/2 keyboards only, not available for USB keyboards)

**[Scroll], [Scroll], [1]
or**

[Scroll], [Scroll], [2]
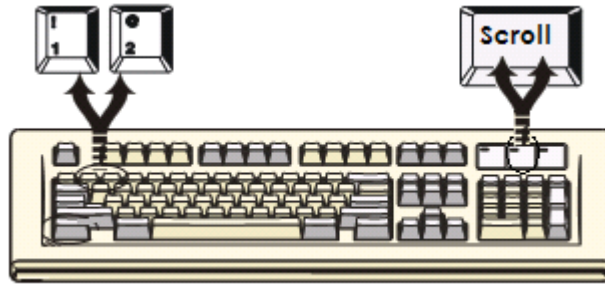
Switch to PC1: Scroll Lock
+ Scroll Lock + [1]
Switch to PC2: Scroll Lock + Scroll Lock + [2]
Switch to upper host: Scroll Lock + Scroll Lock + ↑
Switch to next host: Scroll Lock + Scroll Lock + ↓
Auto Switch: Scroll Lock + Scroll Lock + [H]

 Note: When using the two-step Hot Key sequences, the keys must be pressed within 3 seconds; otherwise the Hot Key action will be canceled. After pressing the Scroll key twice, the Scroll LED will start blinking and wait for the Step 2 hotkey, after pressing any key or over 3 seconds, the keyboard LED will switch back to the original status.

On-Screen-Display (OSD) Switch (Windows only)

Activate the OSD and click the port number on the OSD. The active host will change to the indicated port.

Auto-Scan Function

Activate Autoscan
Press Scroll + Scroll + [S] to activate AutoScan Mode.

Disable Autoscan
Press any key excluding number keys [1], [2], [3] and [4] to turn off the AutoScan Mode. The KVM will switch back to the original Host.

When you activate the Auto-Scan mode, the USB KVM Switch alternates between the two PCs and displays them on the monitor. Each PC can be displayed at 5, 10, 15, or 20 seconds:

Auto-Scan Interval

[n] *(Available only when Auto-Scan function is ON)

You can change the Auto-Scan interval by pressing the appropriate number key or the number pad keys.

n	Scan Interval
[1]	5 sec.
[2]	10 sec.
[3]	15 sec.
[4]	20sec.

Sun Micro System Function Key Emulation:

There are 16 special functions on the Sun Micro system keyboard, the TruLink KVM can emulate these function keys via the PS/2 keyboard (it won't work on USB keyboards). Below is the mapping table for these functions. To activate emulation on the PS/2 keyboard, you have to press the LEFT Window KEY first (this key is usually is located between the left [Ctrl] and left [Alt]), then choose the second as required.

Sun Micro System Function Key	PS/2 Keyboard
Stop	L_Win & L_Alt
Props	L_Win & L_Ctrl
Compose	L_Win & L_Shift
Front	L_Win & F1
Open	L_Win & F2
Find	L_Win & F3
Again	L_Win & F4
Undo	L_Win & F5
Copy	L_Win & F6
Paste	L_Win & F7
Cut	L_Win & F8
Help	L_Win & F11
Power	L_Win & F12

Mute	L_Win & 1
Volume Down	L_Win & 2
Volume UP	L_Win & 3

Hot key definition table

Step 1		Step2	Action
Scroll	Scroll	H	**USB hub Auto-Switch mode**
Scroll	Scroll	1	**Switches access to the computer connected to PC1**
Scroll	Scroll	2	**Switches access to the computer connected to PC2**
Scroll	Scroll	↵	**Switches to the next connected PC**
Scroll	Scroll	↑	**Switches to the upper PC**
Scroll	Scroll	↓	**Switches to the next PC**
Scroll	Scroll	Q	**Switches the USB Hub to PC1**
Scroll	Scroll	W	**Switches the USB Hub to PC2**
Scroll	Scroll	S	**Starts Autoscan Mode**
No Scroll Key Need		* 1	**Sets AutoScan time interval to 5 seconds** **(Available only when Auto-Scan function is ON)**
		* 2	**Sets AutoScan time interval to 10 seconds** **(Available only when Auto-Scan function is ON)**
		* 3	**Sets AutoScan time interval to 15 seconds** **(Available only when Auto-Scan function is ON)**
		* 4	**Sets AutoScan time interval to 20 seconds** **(Available only when Auto-Scan function is ON)**

Application Notes

1. **IMPORTANT:** Please select "Safely Remove Hardware" or "Eject" for USB devices connected to any of the 3 downstream USB ports on the TruLink KVM Switch before switching between the hosts. Switching hosts is equivalent of removing the USB devices, which may damage your USB devices or data if not removed properly by the OS.

2. The TruLink KVM normally derives its own power from host computer. When the 2-port USB KVM Switch and the USB port of computer are connected, the LED will turn red, and the keyboard and mouse can operate.

3. **Unknown Device**: If the installation process has been completed and some of the devices still don't work, please go to: Device Manager, check to see if any "Unknown device" icons appear on the screen. You may need to "Remove" and "Refresh", then start the installation process again. If after trying the above mentioned process and your device still does not work, please contact your Cables To Go technical support. **Note: If you are connected to a heavy-duty HDD / CD-ROM, 'unknown device' might occur. Please plug in the appropriate adapter for power sufficiency.

Troubleshooting:

Problem	Possible Solution
Devices don't work	1. Refer to number 3. in the Application Notes section of this operation manual
One or more of my PCs aren't responsive	1. Make sure that your VGA cables are screwed securely to the KVM terminal
Distorted Picture	1. Check your resolution on your computer and be certain it doesn't exceed the maximum resolution of the KVM.

Specifications:

	Inputs	Outputs
Interface	1. VGA Male-2 2. USB B Female-2 3. PS2 Female- 2	1. VGA Female- 1 2. USB 2.0 A Female- 3
Video resolution	2048 X 1536	
Power	5V 2A DC	
Weight	5.44lbs	
Dimensions (W x H x D)	2.25 L x 1 H x 4.75 W inches	

Cables To Go™ Three Year Warranty

At Cables To Go, we want you to be totally confident in your purchase. That is why we offer a three year warranty on this device. If you experience problems due to workmanship or material defect for the duration of this warranty, we will repair or replace this device. To request a Return Merchandise Authorization (RMA) number, contact customer service at 1-800-506-9606 or www.cablestogo.com.

Important Safety Information

! Do not plug the unit in any outlet that does not have enough current to allow the switch to function. Refer to the specifications in this manual for power level of the unit.

! Liquid:
If this unit or its corresponding power adapter has had liquid spilled on or in it, do not attempt to use the unit.
Do not attempt to use this product in an outdoor environment as elements such as rain, snow, hail, etc. can damage the product.

! In case of a storm, it is recommended that you unplug this device from the outlet.

! Avoid placing this product next to objects that produce heat such as portable heaters, space heaters, or heating ducts.

! THERE ARE NO USER SERVICEABLE PARTS
Do not attempt to open this product and expose the internal circuitry. If you feel that the product is defective, unplug the unit and refer to the warranty information section of this manual.

CablesToGo™
Service Through Every Connection

Disclaimer

Information in this document is subject to change without notice. The manufacturer does not make any representations or warranties (implied or otherwise) regarding the accuracy and completeness of this document and shall in no event be liable for any loss of profit or any other commercial damage, including but not limited to special, incidental, consequential, or other damages.

No part of this document may be reproduced or transmitted in any form by any means, electronic or mechanical, including photocopying, recording or information recording and retrieval systems without the express written permission of the manufacturer.

All brand names and product names used in this document are trademarks, or registered trademarks of their respective holders.

FCC Statement

This device generates and uses radio frequency and may cause interference to radio and television reception if not installed and used properly. This has been tested and found to comply with the limits of a Class B computing device in accordance with the specifications in Part 15 of FCC Rules. These specifications are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, which can be determined by plugging the device in and out, the user can to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the device and receiver.
- Connect the computer into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.