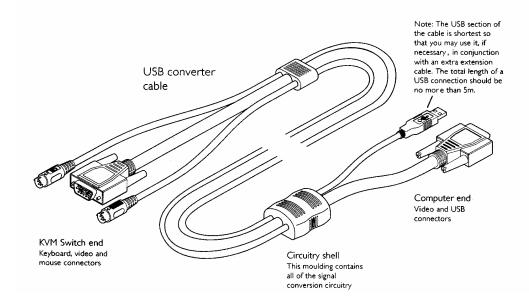
# **USB Converter Cable plus VGA**

EHN428-0006 USB to PS/2 Convertor Cable plus VGA 2m USB to PS/2 Convertor Cable plus VGA 5m USB to PS/2 Convertor Cable plus VGA 10m USB to PS/2 Convertor Cable plus VGA 10m

# Your USB Converter Package

In addition to this brief guide, your package should contain the converter cabl e:



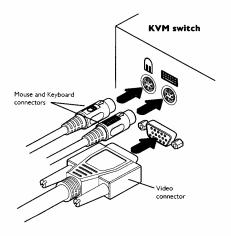
# Connecting your USB converter cable

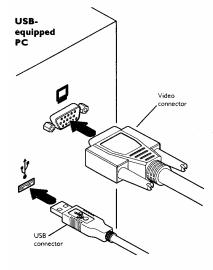
Your USB converter cable is primarily designed for use with a USB-equipped computer and a traditional Keyboard, Video and Mouse (KVM) switch unit.

Note: It is technically possible to connect your PS/2-style keyboard, PS/2-style mouse and monitor directly to the converter cable. However, you would first need to purchase separate gender changers for the PS/2 keyboard and mouse connectors and possibly one also for the video connector.

#### To connect your USB converter cable

- I If possible, switch of your computer(s) and KVM switch.
- 2 At the end of the converter cable that has three plugs, connect the keyboard, mouse and video plugs to the relevant sockets on your KVM switch.





- 3 At the other end of the converter cable (with two plugs), connect the video and USB plugs to the relevant sockets on your computer.
- 4 Switch on your computer(s) and KVM switch, and operate in the usual manner.

Note: If you are connecting to a Sun computer then it is necessary to report a keyboard country code to the system before correct operation may occur. Please see the section 'Flash upgrades and country code changes' for more information.

Your USB converter cable emulates the presence of a keyboard and mouse (via the USB connector) to the computer at all times. This means that there will be no delay in response when switching to this channel.

#### Connector/port icons & colours

Monitor (video)			Dark blue
Keyboard	::::::		Purple
Mouse		or	Mid green
USB	$\Psi$		Black

#### Important information

For use in dry, oil free indoor environments only

Your USB converter cable contains no user-serviceable parts.

For connection only to the following standard computer system and KVM switch connectors: PS/2 style keyboard and mouse, SVGA analogue video connections and USB ports.

# Software upgrades and keyboard emulations

Your USB converter cable can be upgraded to take advantage of feature improvements and operation changes that may become available in the future. Additionally, it can also be made to emulate particular USB keyboard styles so that extra keys may be reported. When used with Sun® workstations, the converter cable can also be induced to report a country code to the host computer.

The necessary upgrade and keyboard files are made available within the Software Updates section of the Black Box website - **www.blackbox.com**. Full instructions for performing an upgrade/keyboard emulation are included with the files from the website.

#### Keypress equivalents

The tables below provide equivalent keypresses on a standard PC (PS/2-style) keyboard that emulate special keys found on Apple®, Microsoft® or Sun® keyboards. Note: To use the Sun® equivalents you must first download the relevant files from the Software Updates section of the Black Box website (www.blackbox.com).

PS/2 keyboard	Apple keyboard	PS/2 keyboard	Sun keyboard
Left Ctrl	Left Control	Right-[Ctrl] [F1]	Stop
Left Win Start (38)	Left Command (🖒)	Right-[Ctrl] [F2]	Again
Left Alt	Left Option (alt)	Right-[Ctrl] [F3]	Props
Right Alt or Alt Graph	Right Option (alt)	Right-[Ctrl] [F4]	Undo
Right Win Start ( 🚻 )	Right Command (🖒)	Right-[Ctrl] [F5]	Front
Right Ctrl	Right Control	Right-[Ctrl] [F6]	Сору
Windows Application key	No equivalent	Right-[Ctrl] [F7]	Open
No equivalent	On / off key	Right-[Ctrl] [F8]	Paste
		Right-[Ctrl] [F9]	Find
		Right-[Ctrl] [F10]	Cut
		Right-[Ctrl] [1]	Mute
		Right-[Ctrl] [2]	Volume -
		Right-[Ctrl] [3]	Volume +
* Certain PS/2 keyboards have a power key which will be mapped to perform the same function for a Sun system.		Right-[Ctrl] [4]	Power*
		Right-[Ctrl] [H]	Help

### **Regulatory Information**

European EMC directive 89/336/EEC

This equipment has been tested and found to comply with the limits for a class B 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 the cable is shortest so 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 statement

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 communications. It has been tested and found to comply with the limits for a Class A computing device in accordance with the specifications in Subpart I of part I 5 of FCC rules, which are designed to provide reasonable protection 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.



Customer Support Information:

FREE tech support 24 hours a day, 7 days a week: Call 724-746-5500 or fax 724-746-0746
Mailing address: Black Box Corporation, 1000 Park Dr., Lawrence, PA 15055-1018
World-Wide Web: www.blackbox.com • E-mail: info@blackbox.com
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