K4vu
Keyboard, video and mouse switch
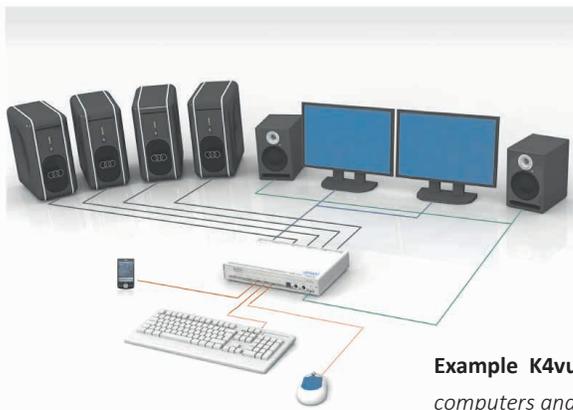
Datasheet

MOUSE POINT®

The Amulet Hotkey K4vu is a multi-platform keyboard, video, mouse and audio switch. It allows up to four computers to be controlled from a single keyboard, mouse and monitor(s). It is designed for use in any mission critical application where reliability and security are paramount.

The K4vu supports dual video head sources on each of its four channels. Video signals can be analog or digital (see note). The K4vu video switching system manages all monitor EDID (data channel) information, ensuring that attached computers always have accurate data about monitors connected to the K4vu video outputs. With outstanding video quality at all resolutions, the K4vu is perfect for digital media applications.

Any combination of USB, PS/2 and legacy Sun format computers can be connected to the K4vu. Users can switch channels using mouse clicks, keyboard shortcuts, the optional K4 controller, or the intuitive Mouse Point® system. The K4vu also provides intelligent management of screen savers.

The K4vu is specifically designed to enhance system security by preventing channel cross-talk or key-stroke recording. Unlike cheaper less reliable switches, the K4vu firmware can be upgraded at any time (remote scheduled updates are supported), ensuring you always have the latest features and best performance. If you need a totally reliable, secure keyboard, video and mouse switch for a mission critical application, the Amulet Hotkey K4vu is the only safe option.

Key features

- Supports digital or analog video sources, including single head and dual head sources
- Digital video display support- up to 1920 x 1200 (dual monitors) @ 60 Hz CVT-RB
- Audio switching or mixing
- Support for 5 button mouse and wheel mouse
- Hot-plug port for USB 1.1 compliant device
- Multi-color front panel LED status indicators

Channel changing

- Via keyboard, mouse or optional K4 Controller
- Via Mouse Point®- automatic channel changing

Easy configuration and maintenance

- Supports any combination of USB, PS/2 and legacy Sun® computers, with continuous device
- Flash programmable; remote scheduled firmware updates via USB link
- Compatible with Amulet Hotkey keyboards and PC-over-IP® products
- Configured by DIP switches
- Secure architecture
- Tempest level B secure versions available

Note: The K4vu does not convert analog or digital video formats into the other. Video signals are switched 'as is', so the monitor(s) attached to the K4vu must be able to display the required formats.

Example K4vu deployment. *Four attached computers and dual video heads.*

AMULET HOTKEY
solutions you can bank on

K4vu front panel

K4vu rear panel

Towards greener computing

K4vu Datasheet 3.3 June 2015

www.amulethotkey.com

Sharing one computer between two K4vu switches

You can connect two switches to allow two users to control a single shared computer. Only one user can control the shared computer at any time. To take control, a user simply switches channels as normal. The computer remains assigned to that user until they relinquish control. A user relinquishes control of the shared computer automatically when they stop using it and the detects no further mouse or keyboard activity.
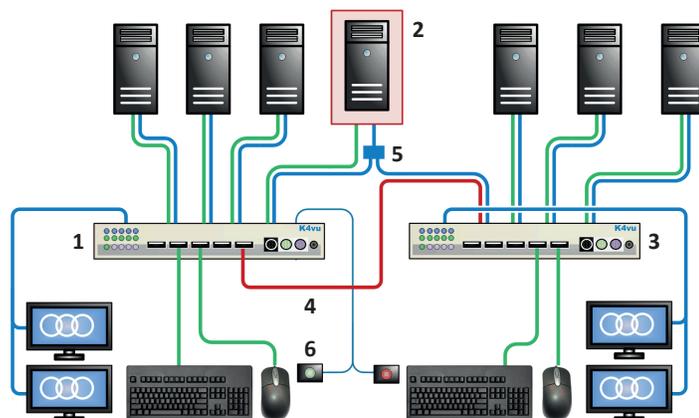
*A channel on the master K4vu (**1**) connects to the shared computer (**2**). A channel on the secondary K4vu (**3**) connects via a USB link (**4**) to the master K4vu and enables sharing mode. Video signals from the shared computer (**5**) are split to both the master and secondary K4vu units. The green indicator LED (**6**) shows that the user connected to the master K4vu currently has control of the shared computer.*

Cascading multiple K4vu switches

You can cascade two or more K4vu switches to increase the number of computers that you can control with a single keyboard and mouse. For example, you can daisy-chain a secondary to a master with a USB cable, allowing you to control up to 7 computers.

Further information: *For details about all K4vu features, including setup details for channel sharing and cascading, see the K4vu Manual, available for download on the Amulet Hotkey website.*

Power supply	12V DC5 3.333A external power brick
Power consumption	(Switch only) Less than 40W
Video input	4 x DMS-59 connectors
Video input display support	Analog: 2048 x 1536 maximum (dual monitors) @ 60 Hz Digital: 1920 x 1200 maximum (dual monitors) @ 60 Hz CVT-RB
Channel input	Keyboard & mouse: 4 x 6-pin Mini-DIN socket USB: 4 x USB type B Audio: 4 x 3.5 mm Stereo audio socke
PS/2 keyboard	6-pin Mini-DIN socket *Note: PS/2 mouse socket is inactive in currrent K4vu*
Front panel USB	4 x Type A
Audio output	1 x 3.5 mm stereo audio socket, line level
Hot-plug port	1 x USB type A USB 1.1 support
Feature connector	1 x 9-pin Mini-Din socket
Flash program	Via USB or D9 socket
Unit weight	Unit: 1.4 Kg (3.0 lbs) Shipping: 3.0 Kg (6.5 lbs)
Compliance	Conforms to relevant parts of EN55024, EN55022 and FCC Part 15b TEMPEST level B versions available by special arrangement.