User Instructions For
The USB- 802 Series "MegaSwitch"™
Keyboard, Mouse, Audio and Multiple Video Switches

Congratulations on your purchase of a VETRA USB MegaSwitch! This quality product is designed and built by us in the USA and is backed by a VETRA Three-year Warranty and unlimited free technical support. We invite your comments, please email us at sales@vetra.com or call us at the numbers given at the end.

INTRODUCTION

The USB-802 "MegaSwitch"™ Keyboard, Mouse, Audio and Multiple Video Switches are full function, Integrated Switches with keyboard control (hot-key) selection, switching keyboard, mouse, and video. Models are also available for switching audio and multiple video outputs. The "MegaSwitch" allows one Workstation comprised of a USB Keyboard, USB Mouse, and VGA Monitor(s) to control and work with up to two PC's. All models come with the VIP-210 power supply.

The "MegaSwitch" system consists of the following components:

1. One - Switch Unit;
2. One – Power Supply.

Note: The "MegaSwitch does not come with USB, Audio, or Video extension cables. They may be ordered from Vetra separately.

INSTALLATION

Before connecting PC's to the Switch, make sure that the Switch is powered by its Power Supply!
The PC's may be powered or not when you connect them to the Switch.
Keyboard, mouse and video monitor may be connected to the Switch at any time.
Do not power down the Switch while any PC is connected to the Switch!

There are three main steps to connect the Switch:

1. Connect PC's to Switch unit:

USB
Connect any available USB input on the PC's to the Switch using USB A-B cables. Connect PC #1's USB port to the backpanel connector of the Switch marked "PC1". Connect PC's #2 USB port to the back panel connector of the Switch marked "PC2". It is not necessary to have both PC's connected for the Switch to operate.

Video
Connect the Video outputs of the PC's to the Switch using 15 pin HDD15 male/female extension cables. Connect PC #1's video output to the backpanel connector of the Switch marked "TO PC1 MON". Connect PC's #2 video output to the back panel connector of the Switch marked "TO PC2 MON".

For the V2, V3, and V4 series MegaSwitch:

Connect PC #1's Monitor A video output to the back panel connector of the Switch marked "PC1 MON A" and connect PC#1's Monitor B video output to the back panel connector of the Switch marked "PC1 MON B". Repeat for PC #2.

For V3 and V4 series of MegaSwitch connect PC#1's Monitors C and D video outputs to the back panel connectors of the Switch marked "PC 1 MON C" and "PC1 MON D". Repeat this step for PC #2.

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Audio (Audio models only)
Connect the Microphone inputs of the PC's to the Switch using a stereo cable male/male with 3.5 mm plugs at connectors marked "TO PC1 MIC ". Connect PC #2 audio output to the appropriate backpanel connector of the Switch marked "TO PC2 MIC". Connect the speaker outputs of the PC's to the Switch also using a stereo cable male/male with 3.5 mm plugs at connectors marked "TO PC1 SPKR". Connect PC #2, speaker outputs to the appropriate backpanel connector of the Switch marked "TO PC2 SPKR".

2. Connect a Workstation to the Switch:

NOTE: The USB keyboard and mouse can be connected to either of the two USB input connectors.

a) Keyboard Connect the keyboard to one of the two USB Type A connectors on the back panel of the Switch marked "USB IN" and for the Touchscreen model "KEYBOARD".

b) Mouse Connect the mouse to the other USB Type A connector on the back panel of the Switch marked "USB IN" and for the Touchscreen model "MOUSE".

c) VGA Monitor Connect the VGA monitor to the 15-pin HDD connector on the back panel of the Switch marked "MONITOR IN".

For the V2, V3, and V4 series MegaSwitch:

Connect Video Monitor A to the 15-pin HDD connector on the back panel of the Switch marked "MON A IN". Repeat for Monitors B, C, and D, as needed.

d) Audio models only Connect the microphone to the connector on the Switch marked "AUDIO INPUTS MIC IN" and connect to the speakers to the connector marked "AUDIO INPUTS SPKR IN".

e) Hub Support The Switch supports one level of hub at its USB Type A inputs, marked "USB IN". You have the option to connect devices to the Switch directly or via a hub. You can connect a hub, either an external hub or one built into a device, such as a keyboard, to either or both of the two USB Type A inputs. Devices can be connected either to a hub or directly to the Switch. The total number of active devices is limited to two. If more than two devices are connected, the additional devices will not be recognized by the Switch. In such a case, if the excess devices are unplugged, the remaining two devices will become operational.

NOTE: It is not necessary to have both a keyboard and a mouse connected for the Switch to operate. It will operate with just one device, or two devices of the same type, such as two keyboards or two mice.

3. Connect the Power Supply to the Video Switch:

The Video Switch is powered by an external wall plug-in supply the VIP-210 (+5Vdc 1A reg. 110 – 240 Vac 50 – 60 Hz). First plug the power output plug of this external supply into the mating jack on the backpanel of the Video Switch marked "+5VDC IN", and only then plug the supply into a suitable AC power source. Since the Video Switch has no separate power on/off switch, it is recommended that the power supply be connected to an AC power source that has a power on/off switch.

OPERATION

1. Power Up Sequence:

Before making any connections to the PC's, connect the external power supply to the Power Jack of the Switch, marked "+5VDC IN", on the back panel of the Switch. Keyboard, mouse and monitor(s) may be connected to the Switch at any time.

2. PC Selection:

a) Keyboard "Hot Key" Selection (available on all models): To select an active PC, first hold down the Scroll Lock Key, then press and release a top row keyboard key 1or 2. The number keys must be released before the Scroll Lock key. Switching takes place on the release of the Scroll Lock Key. When selection of a PC is completed, the appropriate green "SEL" indicator on the front panel of the switch lights up.

b) PC Selection from Front Panel:

1) "Next PC" Selection (available on Standard model only): To select another PC, press the "NEXT PC" pushbutton located on the front panel of the MegaSwitch. Selection will cycle 1-2 and back to 1.

2) Front Panel PC Selection (available on -DE models only): To select another PC, press the "PC SELECTION" pushbutton for the number of the desired PC.

SPECIFICATIONS

Mechanical Dimensions

Model #	Height	Width	Depth	Weight
USB-802-KM	3.38" (8.59 cm)	6.06" (15.39 cm)	6.32" (16.05 cm)	1 lb. 1 oz.
USB-802-KMV	3.38" (8.59 cm)	6.06" (15.39 cm)	6.32" (16.05 cm)	1 lb. 4 oz.
USB-802-KM-DE	3.38" (8.59 cm)	6.06" (15.39 cm)	6.32" (16.05 cm)	1 lb. 4 oz.
USB-802-KMV-DE	3.38" (8.59 cm)	6.06" (15.39 cm)	6.32" (16.05 cm)	1 lb. 7 oz.
USB-802-KMV2	3.38" (8.59 cm)	6.06" (15.39 cm)	6.32" (16.05 cm)	1 lb. 7 oz.
USB-802-KMAV2	3.38" (8.59 cm)	6.06" (15.39 cm)	6.32" (16.05 cm)	1 lb. 13 oz.
USB-802-KMV3	3.38" (8.59 cm)	6.06" (15.39 cm)	6.32" (16.05 cm)	1 lb. 10 oz.
USB-802-KMAV3	4.04" (10.26 cm)	6.06" (15.39 cm)	6.32" (16.05 cm)	2 lb.
USB-802-KMV4	4.04" (10.26 cm)	6.06" (15.39 cm)	6.32" (16.05 cm)	1 lb. 13 oz.
USB-802-KMV2-DE	3.38" (8.59 cm)	6.06" (15.39 cm)	6.32" (16.05 cm)	1 lb. 10 oz.
USB-802-KMAV2-DE	3.38" (8.59 cm)	6.06" (15.39 cm)	6.32" (16.05 cm)	2 lb.
USB-802-KMV3-DE	3.38" (8.59 cm)	6.06" (15.39 cm)	6.32" (16.05 cm)	1 lb. 13 oz.
USB-802-KMAV3-DE	4.04" (10.26 cm)	6.06" (15.39 cm)	6.32" (16.05 cm)	2 lb. 3 oz.
USB-802-KMV4-DE	4.04" (10.26 cm)	6.06" (15.39 cm)	6.32" (16.05 cm)	2 lb.

Environmental	Operating Temp:	5 to 104 deg. F (-15 - 40 deg. C)
	Storage Temp:	-4 to 122 deg. F (-20 - 50 deg. C)
Supported Hardware	Computer:	with USB port(s)
	Video Monitors:	VGA, SVGA
	Maximum Resolution:	up to 1600 x 1200 to 75 Hz
	Peripherals:	USB-compliant keyboards and mice

FEDERAL COMMUNICATIONS COMMISSION

This equipment has been tested and found to comply with the limits of 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 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 the user's own expense.

CE

This equipment has been tested and found to conform to the directives and standards for a Class A Information Technology Equipment type and for the Commercial Light Industrial equipment class.

The Vetra USB-802-KVM series of the MegaSwitch uses Technology covered by US Patent 7,246,189

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