ADVANCED 2/4/8-PORT DISPLAYPORT SECURE KVM SWITCH

MODELS:

- KVS4-1002V  2-Port SH Secure Pro DP KVM w/audio, NO CAC
- KVS4-2002V  2-Port DH Secure Pro DP KVM w/audio, NO CAC
- KVS4-2002VX 2-Port DH Secure Pro DP KVM w/audio and CAC
- KVS4-1004V  4-Port SH Secure Pro DP KVM w/audio, NO CAC
- KVS4-2004V  4-Port DH Secure Pro DP KVM w/audio, NO CAC
- KVS4-2004VX 4-Port DH Secure Pro DP KVM w/audio and CAC
- KVS4-4004VX 4-Port QH Secure Pro DP KVM w/audio and CAC
- KVS4-1008V  8-Port SH Secure Pro DP KVM w/audio, NO CAC
- KVS4-1008VX 8-Port SH Secure Pro DP KVM w/audio and CAC
- KVS4-2008VX 8-Port DH Secure Pro DP KVM w/audio and CAC
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## TECHNICAL SPECIFICATIONS

### VIDEO

<table>
<thead>
<tr>
<th>Format</th>
<th>DisplayPort</th>
</tr>
</thead>
<tbody>
<tr>
<td>Host Interface</td>
<td></td>
</tr>
<tr>
<td>KVS4-1002V</td>
<td>(2) DisplayPort 20-pin (female)</td>
</tr>
<tr>
<td>KVS4-2002V / KVS4-2002VX / KVS4-1004V</td>
<td>(4) DisplayPort 20-pin (female)</td>
</tr>
<tr>
<td>KVS4-2004V / KVS4-2004VX / KVS4-1008V / KVS4-1008VX</td>
<td>(8) DisplayPort 20-pin (female)</td>
</tr>
<tr>
<td>KVS4-4004VX / KVS4-2008VX</td>
<td>(16) DisplayPort 20-pin (female)</td>
</tr>
<tr>
<td>User Console Interface</td>
<td></td>
</tr>
<tr>
<td>KVS4-1002V / KVS4-1004V / KVS4-1008V / KVS4-1008VX</td>
<td>(1) DisplayPort 20-pin (female)</td>
</tr>
<tr>
<td>KVS4-2002V / KVS4-2002VX / KVS4-2004V / KVS4-2004VX / KVS4-2008V / KVS4-2008VX</td>
<td>(2) DisplayPort 20-pin (female)</td>
</tr>
<tr>
<td>KVS4-4004VX</td>
<td>(4) DisplayPort 20-pin (female)</td>
</tr>
<tr>
<td>Max Resolution</td>
<td>3840x2160 @ 30Hz</td>
</tr>
<tr>
<td>DDC</td>
<td>5 volts p-p (TTL)</td>
</tr>
<tr>
<td>Input Equalization</td>
<td>Automatic</td>
</tr>
<tr>
<td>Input Cable Length</td>
<td>Up to 20 ft.</td>
</tr>
<tr>
<td>Output Cable Length</td>
<td>Up to 20 ft.</td>
</tr>
</tbody>
</table>

### USB

<table>
<thead>
<tr>
<th>Signal Type</th>
<th>USB 1.1 and 1.0 Keyboard and Mouse only. USB 2.0 for CAC connection (Only in models with CAC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type B</td>
<td>KVS4-1002V / KVS4-2002V (2) USB Type B</td>
</tr>
<tr>
<td></td>
<td>KVS4-2002VX / KVS4-1004V / KVS4-2004V (4) USB Type B</td>
</tr>
<tr>
<td></td>
<td>KVS4-2004VX / KVS4-4004VX / KVS4-1008V (8) USB Type B</td>
</tr>
<tr>
<td></td>
<td>KVS4-1008VX / KVS4-2008VX (16) USB Type B</td>
</tr>
<tr>
<td>User Console Interface</td>
<td>(2) USB Type-A for keyboard and mouse connection only</td>
</tr>
<tr>
<td></td>
<td>(1) USB Type-A for CAC connection (only in models with CAC)</td>
</tr>
</tbody>
</table>

### AUDIO

<table>
<thead>
<tr>
<th>Input</th>
<th>(2)/(4)/(8) Connector Stereo 3.5mm Female</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output</td>
<td>(1) Connector Stereo 3.5mm Female</td>
</tr>
</tbody>
</table>

### POWER

| Power Requirements | 12V DC, 3A (minimum) power adapter with center-pin positive polarity. |

### ENVIRONMENT

| Operating Temp | 32° to 104° F (0° to 40° C) |
| Storage Temp   | -4° to 140° F (-20° to 60° C) |
| Humidity       | 0-80% RH, non-condensing |

### CERTIFICATIONS

| Security Accreditation | Common Criteria Validated To NIAP; Protection Profile PSS Ver. 4.0 |

### OTHER

<table>
<thead>
<tr>
<th>Emulation</th>
<th>Keyboard, Mouse and Video</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control</td>
<td>Front Panel Buttons</td>
</tr>
</tbody>
</table>
WHAT'S IN THE BOX?

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Secure DP KVM Switch Unit</td>
<td>2/4/8-Port Dual-Head Secure DP KVM</td>
</tr>
<tr>
<td>BX-1203000</td>
<td>Desktop power supply 100-240V, 12VDC 3A</td>
</tr>
<tr>
<td>User Manual</td>
<td></td>
</tr>
</tbody>
</table>

SECURITY FEATURES

ANTI-TAMPER SWITCHES
Each model is equipped with internal Anti-Tamper switches, which sense attempts to open the device enclosure. Once the system identifies such an attempt, all the front panel LED's will flash rapidly and the unit will become useless by shutting off connection with all attached PCs and peripherals disabling any functionality.

TAMPER-EVIDENT SEAL
The enclosure of the unit is protected with a tamper-evident seal to provide a visual evidence if the unit has been opened.

PROTECTED FIRMWARE
The controller of the unit has a special protection feature that prevents reprogramming or reading the firmware.

HIGH ISOLATION ON USB CHANNELS
Opto-isolators are used in the unit to keep USB data paths electrically isolated from each other, providing high isolation and preventing data leakage between ports.

SECURE EDID EMULATION
The unit prevents unwanted and unsecure data to be transmitted through the DDC lines by means of secure EDID learning and emulation.

SELF-TEST
A self-test is performed each times the KVM is powered on as part of its boot-up sequence. If the KVM starts up correctly and is functional, the self-test has passed. However, if all Front Panel LED's are on and not flashing, the power up self-test has failed and all functions are disabled. Check if any of the front panel port selection buttons are jammed. In this case, release the jammed button and recycle the power.

Figure 4-2: KVS4-2002VX Rear panel
INSTALLATION

SYSTEM REQUIREMENTS

1. Black Box Secure PSS is compatible with standard personal/portable computers, servers or thin-clients, running operating systems such as Windows or Linux.
2. The peripheral devices that are supported by the Secure KVM Switch are listed in the following table:

<table>
<thead>
<tr>
<th>Console Port</th>
<th>Authorized Devices</th>
</tr>
</thead>
<tbody>
<tr>
<td>Keyboard</td>
<td>Wired keyboard and keypad without internal USB hub or composite device functions, unless the connected device has at least one endpoint which is a keyboard or mouse HID class.</td>
</tr>
<tr>
<td>Display</td>
<td>Display device (e.g. monitor, projector) that uses an interface that is physically and logically compatible with the TOE ports (DisplayPort).</td>
</tr>
<tr>
<td>Audio out</td>
<td>Analog amplified speakers, Analog headphones.</td>
</tr>
<tr>
<td>Mouse / Pointing Device</td>
<td>Any wired mouse or trackball without internal USB hub or composite device functions.</td>
</tr>
<tr>
<td>User Authentication Device</td>
<td>USB devices identified as user authentication (base class 0Bh, e.g. Smart-card reader, PIV/CAC reader, Token, or Biometric reader)*</td>
</tr>
</tbody>
</table>

*TOE - Models with CAC only

Table 5-1
INSTALLATION

Single-Head Units:

1. Ensure that power is turned off or disconnected from the unit and the computers.
2. Use a DisplayPort cable to connect the DisplayPort output port from each computer to the corresponding DisplayPort IN ports of the unit.
3. Use a USB cable (Type-A to Type-B) to connect a USB port on each computer to the respective USB ports of the unit.
4. Optionally connect a stereo audio cable (3.5mm to 3.5mm) to connect the audio output of the computers to the AUDIO IN ports of the unit.
5. Connect a monitor to the DisplayPort OUT console port of the unit using a DisplayPort cable.
6. Connect a USB keyboard and mouse to the two USB console ports.
7. Optionally connect stereo speakers to the AUDIO OUT port of the unit.
8. Optionally connect CAC (COMMON ACCESS CARD, SMART CARD READER) to the CAC port in the user console interface. For models with CAC.
9. Finally, power on the Secure KVM Switch by connecting a 12VDC power supply to the power connector, and then turn on all the computers.

Note: The computer connected to port 1 will always be selected by default after power up.
Note: You can connect up to 2 computers to the 2 port Secure KVM Switch, up to 4 computers to the 4 port Secure KVM Switch and up to 8 computers to the 8 port Secure KVM Switch.

IMPORTANT WARNINGS - FOR SECURITY REASONS:

- This product does not support wireless devices. Do not attempt to use a wireless keyboard or a wireless mouse with this product.
- This product does not support keyboards with integrated USB hubs or USB ports. Only use standard (HID) USB keyboards with this device.
- This product does not support microphone audio input or line input. Do not connect any microphones or headsets with microphones to this device.
- Connection of authentication devices (CAC) with external power sources is prohibited.
INSTALLATION (Continued)

Multi-Head Units:
1. Ensure that power is turned off or disconnected from the unit and the computers.
2. Use DisplayPort cables to connect the DisplayPort output ports of each computer to the corresponding DP IN ports of the unit. For example, if using KVS4-4004VX the four DisplayPort ports of one computer must all be connected to one channel.

![Figure 7-1: KVS4-4004VX](image1)
The DP IN connectors that belong to the same channel are arranged vertically.

3. Use a USB cable (Type-A to Type-B) to connect a USB port on each computer to the respective USB ports of the unit.
4. Optionally connect a stereo audio cable (3.5mm on both ends) to connect the audio output of the computer to the AUDIO IN ports of the unit.
5. Connect the monitors to the DP OUT console ports of the unit using DP cables.

![Figure 7-2: KVS4-4004VX](image2)
The DP ports on one row will be switched to the DP OUT of the same row.

6. Connect a USB keyboard and mouse in the two USB console ports.
7. Optionally connect stereo speakers to the AUDIO OUT port of the unit.
8. Optionally connect CAC (smart card reader) to the CAC port in the user console interface.
9. Power on the Secure KVM Switch by connecting a 12VDC power supply to the power connector, and then turn on all the computers.

**Note:** The computer connected to port 1 will always be selected by default after power up.
INSTALLATION (Continued)

Figure 8-1: KVS4-4004VX

Figure 8-2: KVS4-2002VX
INSTALLATION (Continued)

EDID Learn:

Factory default video EDID is set to HP (1080P max resolution) to allow initial operation with most of the DP display brands. For security reasons, EDID learn of most DP displays' brands can be achieved only by Authenticated Administrator.

Use the following steps to properly set up your EDID learning:

1. Ensure power is disconnected or turned off from both the unit and the computer.
2. Using a USB cable (Type-A to Type-B), connect the PC to the Secure KVM Switch host's K/M Port 1.
3. Connect a USB keyboard & mouse to the two USB console ports.
5. Connect a DP display to the Secure KVM Switch console's DP output port.
6. Power up the PC and the Secure KVM Switch.
7. Download the Administration and Security Management Tool to your PC from this link: https://www.blackbox.com/NIAP3/documentation

Initiate the session using the following steps in the Administration and Security Management Tool:

1. Type “alt alt c n f g” on your keyboard
2. The mouse connected to the Secure KVM Switch will stop functioning and you will be prompted to “Enter credential id”
3. Login in as the administrator by entering the default username “admin”, and pressing Enter.
4. Enter the default password “1 2 3 4 5” and press Enter.
5. Seven options will appear in a numerical menu: select option 6 and press Enter.
6. A menu will appear prompting you to Select Mode; instead, type “local” and press Enter.

The Administration and Security Management Tool will now automatically learn and store the display's EDID, then the device will reset and reboot. At the end of the boot-up, ensure all computers are connected to the Secure KVM Switch through each port to verify that all are properly presenting video on the connected display.

For additional assistance or information, please refer to the Black Box Secure KVM Switch EDID Configuration Guide available at ftp://ftp.blackbox.com/Secure%20KVM%20Switches/
The following steps are intended for the system administrator and operators (users).

If you have the optional CAC ports there will be 2 ports on a 2 host ports Secure KVM Switch and 4 ports on a 4 host ports Secure KVM Switch. CAC connection to the computer requires a USB cable connection separate from the keyboard and mouse. This allows the CAC to be connected independently from the keyboard and mouse. It also allows the user to select whether CAC for a certain computer is supported or not.

1. Ensure that power is turned off or disconnected from the unit and the computer.
2. Use a USB cable (Type-A to Type-B) to connect a USB port on a computer to its respective CAC USB ports on the Secure KVM Switch. Do not connect the USB cable if CAC functionality is not needed for that computer.
3. Connect a CAC (smart card reader) to the CAC port in the user console interface.
4. Power on the Secure KVM Switch by connecting a 12VDC power supply to the power connector, and then turn on all the computers.
5. To disable CAC for any channel (all CAC ports are enabled as default), use the front panel buttons to switch the Secure KVM Switch to the channel whose CAC mode you wish to change. Once the channel is selected, the button LED for this specific channel should be on (CAC port enabled). Press and hold the button for 3 seconds until the button LED turns off. The CAC port is now disabled for this channel.
6. To enable CAC for any channel, use the front panel buttons to switch the Secure KVM Switch to the channel whose CAC mode you wish to change. Once the channel is selected, the button LED for this specific channel should be off (CAC port disabled). Press and hold the button for 3 seconds until the button LED turns on. The CAC port is now enabled for this channel. An active session on a computer is terminated upon removal of the CAC device.

7. **Note:** The open session will be immediately terminated upon the removal of the registered CAC device.

### CAC PORT CONFIGURATION

The following steps are intended for the system administrator and operators (users).

**Note:** Only one computer connected to port 1 is required for this operation.

CAC port Configuration is an optional feature, allowing registration of any USB peripheral to operate with the Secure KVM Switch. Only one peripheral can be registered and only the registered peripheral will operate with the Secure KVM Switch. By default, when no peripheral is registered, the Secure KVM Switch will operate with any Smart Card Reader.

Configure the CAC Port via User Menu Options

1. Open the Administration and Security Management Program.
2. Using the keyboard, press the Alt key twice and type “cfg”.
3. At this stage the mouse connected to the Secure KVM/KM Switch will stop functioning.
4. Enter the default username “user” and press Enter.
5. Enter the default password “12345” and press Enter.
6. Select option 2 from the menu on your screen and press Enter.
7. Connect the peripheral device to be registered to the CAC USB port in the console side of the Secure KVM/KM Switch and wait until the Secure KVM/KM Switch is reading the new peripheral information.
8. The Secure KVM/KM Switch will list the information of the connected peripheral on the screen and buzz 3 times when registration is completed.
AUDITING: Dumping the Event Log via User Menu Options

The following steps are intended for the system administrator.

Note: Only one computer connected to port 1 is required for this operation

The Event Log is a detailed report of critical activities stored in the Secure KVM Switch or Secure KVM Switch memory. A comprehensive feature list and guidance for Administration and Security Management Tools can be found in the Administrator's Guide available for download from: https://www.blackbox.com/NIAP3/documentation

1. Open the Administration and Security Management Program
2. Using the keyboard, press the Alt key twice and type “cnfg”.
3. Enter the default admin name “admin” and press Enter.
4. Enter the default password “12345” and press Enter.
5. Request a Log Dump by selecting option 5 in the menu. (Shown in Figure 12-1)

* See Administration and Security Management Tool Guidance for detailed information.

RESET: Restore Factory Defaults

The following steps are intended for the system administrator.

Note: Only one computer connected to port 1 is required for this operation

Restore Factory Defaults will reset all settings on the Secure KVM Switch to their original state ....

Secure KVM Switch mode
CAC port registration will be removed
Secure KVM Switch settings will be reset to factory defaults

To Restore Factory Defaults via User Menu Options:
1. Open the Administration and Security Management Program
2. Using the keyboard, press the Alt key twice and type “cnfg”.
3. Enter the default admin name “admin” and press Enter.
4. Enter the default password “12345” and press Enter.
5. Select option 7 from the menu on your screen and press enter. (Menu shown in Figure 12-1)

* See Administration and Security Management Tool Guidance for detailed information.
**LED’s BEHAVIOR**

User Console Interface – Display LED:

<table>
<thead>
<tr>
<th>#</th>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Off</td>
<td>Monitor is not connected</td>
</tr>
<tr>
<td>2</td>
<td>On</td>
<td>Monitor is connected</td>
</tr>
<tr>
<td>3</td>
<td>Flashing</td>
<td>EDID problem – Learn EDID to fix the problem</td>
</tr>
</tbody>
</table>

User Console Interface – CAC LED:

<table>
<thead>
<tr>
<th>#</th>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Off</td>
<td>CAC is not connected</td>
</tr>
<tr>
<td>2</td>
<td>On</td>
<td>Authorized and functional CAC is connected</td>
</tr>
<tr>
<td>3</td>
<td>Flashing</td>
<td>Non-CAC peripheral is connected</td>
</tr>
</tbody>
</table>

Front Panel – Port Selection LED’s:

<table>
<thead>
<tr>
<th>#</th>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Off</td>
<td>Non-selected port</td>
</tr>
<tr>
<td>2</td>
<td>On</td>
<td>Selected port</td>
</tr>
<tr>
<td>3</td>
<td>Flashing</td>
<td>EDID learn in process</td>
</tr>
</tbody>
</table>

Front Panel – CAC Selection LED’s:

<table>
<thead>
<tr>
<th>#</th>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Off</td>
<td>CAC port is disabled or non-selected port</td>
</tr>
<tr>
<td>2</td>
<td>On</td>
<td>CAC port is enabled</td>
</tr>
<tr>
<td>3</td>
<td>Flashing</td>
<td>EDID learn in process</td>
</tr>
</tbody>
</table>

Front Panel - Port and CAC Selection LED’s:

<table>
<thead>
<tr>
<th>#</th>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>All Flashing</td>
<td>Connected peripheral to keyboard or mouse console ports is rejected</td>
</tr>
</tbody>
</table>

EDID Learn - Front Panel LED’s:

All LED’s are turned on for 1 second. Then:

- Port 1 LED’s will flash until the end of the process.
- Port 2 LED’s will flash until the end of the process if a second video board exists (Dual-head Secure KVM Switch)
- Port 3 LED’s will flash until the end of the process if a third video board exists (Quad-head Secure KVM Switch)
- Port 4 LED’s will flash until the end of the process if a fourth video board exists (Quad-head Secure KVM Switch)

**IMPORTANT!**

If all the Front Panel LED’s are flashing and the buzzer is beeping, the Secure KVM Switch has been TAMPERED with and all functions are permanently disabled. Please contact Black Box technical support at info@blackbox.com

If all Front Panel LED’s are on and not flashing, the POWER UP SELF TEST has failed and all functions are disabled. Check if any of the front panel port selection buttons are jammed. In this case, release the jammed button and recycle the power. If power up self test is still failing, please contact Black Box technical support at info@blackbox.com
SYSTEM OPERATION

Front Panel Control
To switch to an input port, simply push the desired input button on the front-panel of the Secure KVM Switch. If an input port is selected, the LED of that port will turn on. An open session is terminated upon switching to a different computer.

TROUBLESHOOTING

No Power
• Make sure that the power adapter is securely connected to the power connector of the unit.
• Check the output voltage of the power supply and make sure that the voltage value is around 12VDC.
• Replace the power supply.

Flashing LEDs in the Front Panel with clicking sound
• Reboot the unit. If the error persists then there is a malfunction or wrong input connections at the K/M ports.
• Verify both Keyboard and Mouse connections are USB 1.0 or 1.1.
• Only USB Keyboard or Mouse can be connected in the designated K/M ports.

Flashing USB LED
• Make sure that the correct peripheral device is connected to the correct port of the Secure KVM.
• Check to see that the K/M USB cable is connected to the K/M port on the back of the unit.
• Check to see that the CAC USB cable is connected to the CAC port on the back of the unit.

No Video
• Check if all the video cables are connected properly.
• Connect the computer directly to the monitor to verify that your monitor and computer are functioning properly.
• Restart the computers

Keyboard is not working
• Check if the keyboard is properly connected to the unit.
• Check if the USB cables connecting the unit and the computers are properly connected.
• Try connecting the USB on the computer to a different port.
• Make sure that the keyboard works when directly connected to the computer.
• Replace the keyboard.

Note: The NUM, CAPS, and SCROLL Lock LED indicators on the keyboard are not supposed to light up if connected to the Secure KVM Switch.

Mouse is not working
• Check if the mouse is properly connected to the unit.
• Try connecting the USB on the computer to a different port.
• Make sure that the mouse works when directly connected to the computer.
• Replace the mouse.

No Audio
• Check if all the audio cables are connected properly.
• Connect the speakers directly to the computer to verify that the speakers and the computer audio are functioning properly.
• Check the audio settings of the computer and verify that the audio output is through the speakers.

No CAC (COMMON ACCESS CARD, SMART CARD READER)
• Check if the USB cables connecting the unit and the computers are properly connected.
• Make sure the CAC port is enabled by holding down the desired channels button until it lights up.

TECHNICAL SUPPORT
For product inquiries, warranty questions, or technical questions, please contact info@blackbox.com.
FREE technical support 24 hours a day, 7 days a week: Call 877-877-2269 or fax 724-746-0746.
LIMITED WARRANTY STATEMENT

A. Extent of limited warranty

Black Box warrants to the end-user customers that the product specified above will be free from defects in materials and workmanship for the duration of 18 months, which duration begins on the date of purchase by the customer. Customer is responsible for maintaining proof of date of purchase.

Black Box limited warranty covers only those defects which arise as a result of normal use of the product, and do not apply to any:

a. Improper or inadequate maintenance or modifications
b. Operations outside product specifications
c. Mechanical abuse and exposure to severe conditions

If Black Box receives, during applicable warranty period, a notice of defect, Black Box will at its discretion replace or repair defective product. If Black Box is unable to replace or repair defective product covered by the Black Box warranty within reasonable period of time, Black Box shall refund the cost of the product.

Black Box shall have no obligation to repair, replace or refund unit until customer returns defective product to Black Box.

Any replacement product could be new or like new, provided that it has functionality at least equal to that of the product being replaced.

Black Box limited warranty is valid in any country where the covered product is distributed by Black Box.

B. Limitations of warranty

To the extent allowed by local law, neither Black Box nor its third party suppliers make any other warranty or condition of any kind whether expressed or implied with respect to the Black Box product, and specifically disclaim implied warranties or conditions of merchantability, satisfactory quality, and fitness for a particular purpose.

C. Limitations of liability

To the extent allowed by local law the remedies provided in this warranty statement are the customers sole and exclusive remedies.

To the extent allowed by local law, except for the obligations specifically set forth in this warranty statement, in no event will Black Box or its third party suppliers be liable for direct, indirect, special, incidental, or consequential damages whether based on contract, tort or any other legal theory and whether advised of the possibility of such damages.

D. Local law

To the extent that this warranty statement is inconsistent with local law, this warranty statement shall be considered modified to be consistent with such law.
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20180411

Black Box Corporation

1000 Park Drive
Lawrence, PA 15055-1018

Phone: 877-877-2269

www.blackbox.com