



# IPGARD SA-DVN-16S-P 16 Port DVI-I Secure KVM Switch User Manual

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## IPGARD SA-DVN-16S-P 16 Port DVI-I Secure KVM Switch



## TECHNICAL SPECIFICATIONS

|                        |                                                                          |
|------------------------|--------------------------------------------------------------------------|
| VIDEO                  |                                                                          |
| Host Interface         | (4) DVI-I 29-pin F                                                       |
| User Console Interface | (2) DVI-I 29-pin F                                                       |
| Max Resolution         | 2560 x 1600 @ 60Hz;<br>3840 x 2160 @ 30Hz                                |
| DDC                    | 5 volts p-p (TTL)                                                        |
| Input Equalization     | Automatic                                                                |
| Input Cable Length     | Up to 20 ft.                                                             |
| Output Cable Length    | Up to 20 ft.                                                             |
| USB                    |                                                                          |
| Signal Type            | USB 1.1 and 1.0 Keyboard and Mouse only.<br>USB 2.0 for CAC connection.  |
| USB Connectors         | (4) USB Type B                                                           |
| User Console Interface | (2) USB Type A for keyboard/mouse connections;<br>(1) USB Type A for CAC |
| AUDIO                  |                                                                          |
| Input                  | (2) Connector stereo 3.5 mm female                                       |
| Output                 | (1) Connector stereo 3.5 mm female                                       |
| POWER                  |                                                                          |
| Power Requirements     | 12V DC, 3A 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                  |                                                                          |
| Emulation              | Keyboard, mouse, and video                                               |
| User Controls          | Front-panel buttons                                                      |

## WHAT'S IN THE BOX

| PART NO.    | QTY | DESCRIPTION                                                |
|-------------|-----|------------------------------------------------------------|
| SA-DVN-2D-P | 1   | 2-Port DH Secure DVI-I KVM with Audio and CAC Support      |
| PS12VDC3A   | 1   | 12VDC, 3A power adapter with center-pin positive polarity. |
|             | 1   | Quick Start Guide                                          |

## NOTICE

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A full manual can be downloaded from [www.ipgard.com/documentation/](http://www.ipgard.com/documentation/)

## EDID LEARN

The KVM switch is designed to learn a connected monitor's EDID upon power up. In the event of connecting a new monitor to the KVM a power recycle is required. The KVM switch will indicate the unit's EDID learn process is active by flashing the front panel's LEDs in sequential order. Starting with the LED above button "1" on the front panel, each LED will flash green for approximately 10 seconds upon beginning the EDID learn. Once all the LEDs stop flashing, the LEDs will cycle and the EDID learn will be complete. If the KVM switch has more than one video board (such as dual-head and quad-head models), then the unit will continue to learn the EDIDs of the connected monitors and indicate the progress of the process by flashing the next port selection green and blue push-button LEDs respectively. A monitor must be connected to the video output port located in the console space at the back of the KVM switch during the EDID learn process. If the read EDID from the connected monitor is identical to the current stored EDID in the KVM switch, then the EDID learn function will be skipped.

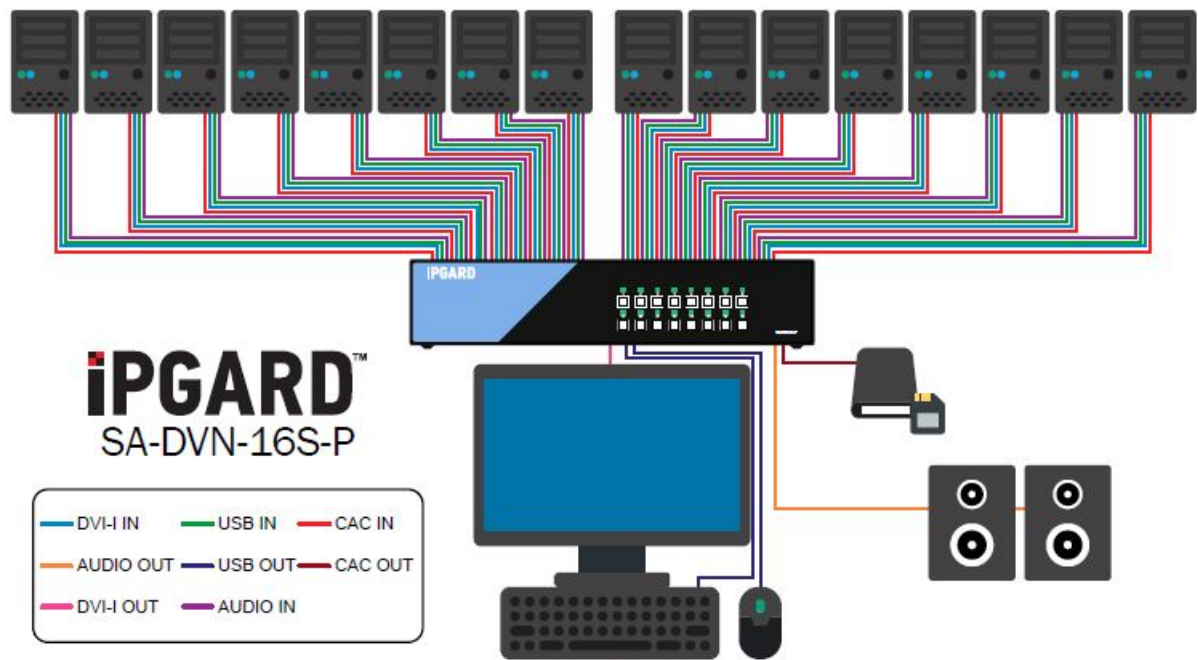
## HARDWARE INSTALLATION

1. Ensure that power is turned off or disconnected from the unit and the computers.
2. Use DVI-I cables to connect the DVI-I output ports from each computer to the corresponding DVI- I 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, for CAC models, connect a CAC (Common Access Card, Smart Card Reader) to the CAC port in the user console interface.
5. Optionally, connect a stereo audio cable (3.5 mm to 3.5 mm) to connect the audio output of the computer(s) to the audio in ports of the unit.
6. Connect monitor(s) to the DVI-I out console port of the unit using DVI-I cable(s).
7. connect a USB keyboard and mouse in the two USB console ports.
8. Optionally, connect stereo speakers to the audio out port of the unit.

9. Finally, power on the secure KVM switch by connecting a 12-VDC power supply to the power connector, and then turn on all the computers.

**Note:** You can connect two monitors to the dual-head KVM switch. The computer connected to port 1 will always be selected by default after power up.

**Note:** You can connect up to 2 computer to the 2 port KVM.



A full Manual can be downloaded from [www.ipgard.com/documentation/](http://www.ipgard.com/documentation/)

**Documents / Resources**

|  |                                                                                                                                                                                                                                              |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <a href="#">IPGARD SA-DVN-16S-P 16 Port DVI-I Secure KVM Switch</a> [pdf] User Manual<br>SA-DVN-16S-P, 16 Port DVI-I Secure KVM Switch, SA-DVN-16S-P 16 Port DVI-I Secure KVM Switch, DVI-I Secure KVM Switch, Secure KVM Switch, KVM Switch |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**References**

- [Home | IPGARD](#)
- [Documentation | IPGARD](#)