

iPGARD DMN-DP-P 4 Port SH Secure DP KVM with CAC Port **User Manual**

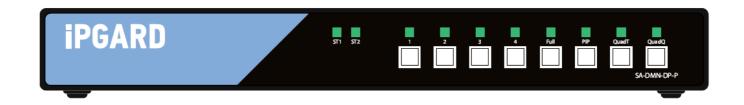
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iPGARD DMN-DP-P 4 Port SH Secure DP KVM with CAC Port



Product Information

The product is a versatile electronic device designed for various uses. It features a compact design and offers a

wide range of functionality.

Key Features:

- · Compact and portable
- · Versatile functionality
- · Easy to use
- Durable construction
- Long-lasting battery

Specifications:

Model: 450Model: 451

• Weight: 6788 grams

· Power: 9V

• Dimensions: 499mm x 411mm x 311mm

Product Usage Instructions

- 1. Ensure that the product is fully charged before initial use.
- 2. Connect the device to a power source using the provided cable.
- 3. Press the power button (marked with symbol 0) to turn on the device.
- 4. Refer to the user manual for specific instructions on each function.
- 5. To navigate through different settings, use the buttons labeled with numbers 1, 2, and 3.
- 6. For additional features, refer to the buttons labeled with symbols '@', '!', and '#-'.
- 7. Use the buttons marked with letters 'A' and 'B' for specific functions mentioned in the manual.
- 8. To reset the device, press and hold the button labeled '(AB' for a few seconds.
- 9. To power off the device, press and hold the power button (0) until it shuts down.
- 10. Keep the device in a safe place when not in use to prevent damage.

SA-DMN-DP.P

4-port Secure DisplayPort KVM Switch with Audio, CAC Support and Preview Screen

TECHNICAL SPECIFICATIONS

VIDEO	
Format	DisplayPort
Host Interface	(4) DisplayPort
User Console Interface	(2) DisplayPort
Resolution	Up to 4K (3840x2160 @ 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. USB 2.0 for CAC connection.
Input Interface	(4) USB Type B
Output Intenfore	(2) USB Type-A for keyboard and mouse connection only
Output Interface	(1) USB Type-A for CAC connection
AUDIO	
Input Interface	(4) Connector Stereo 3.5mm Female
Output Interface	(1) Connector Stereo 3.5mm Female
POWER	
Power Requirements	12V DC, 2A (minimum) power adapter with center-pin positive polarity. Quad head models require a 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	
Emulation	USB 1.1 and USB 2.0 Compatible
Control	Front Panel Buttons

WHAT'S IN THE BOX?

SA-DMN-DP-P	4-Port SH Secure Pro DP KVM w/audio, CAC and Preview Screen
PS12VDC3A	12V DC 3A (minimum) power adapter with center-pin positive polarity
User Manual	

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 Channel 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.



Figure 4-1: SA-DMN-DP-P Front panel



Figure 4-2: SA-DMN-DP-P Rear panel

INSTALLATION

SYSTEM REQUIREMENTS

- 1. iPGARD 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 KVM are listed in the following table:

Console Port	Authorized Devices
Keyboard	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, KVM/KM extender;
Audio out	Analog amplified speakers, Analog headphones, Digital audio appliance.
Mouse/Pointing Device	Any wired mouse or trackball without internal USB hub or composite device functions, Touch-screen, Multi-touch or digitizer, KVM/KM extender.
User Authentication Device	Smart-card reader, PIV/CAC reader, Token or Biometric reader*

INSTALLATION

Single-Head Units:

- 1. Ensure that power is turned off or disconnected from the unit and the computers.
- 2. Use a DVI cable to connect the DVI output port from each computer to the corresponding DVI- 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 DVI-I OUT console port of the unit using a DVI cable.
- 6. Connect a USB keyboard and mouse in the two USB console ports. Optionally connect stereo speakers to the AUDIO OUT port of the unit.
- 7. Optionally connect CAC (COMMON ACCESS CARD, SMART CARD READER) to the CAC port in the user console interface.
- 8. Finally, power on the KVM 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 4 computers to the 4 port KVM.

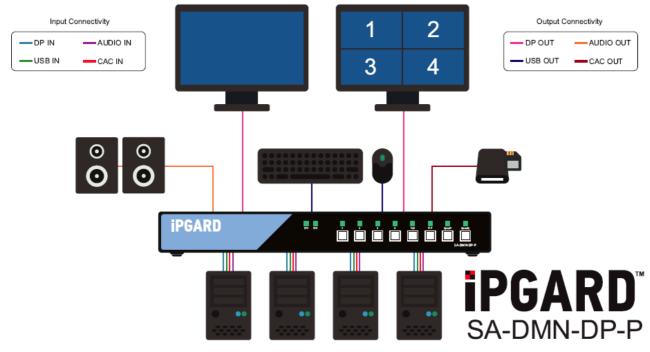


Figure 6-1: SA-DMN-DP-P

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.

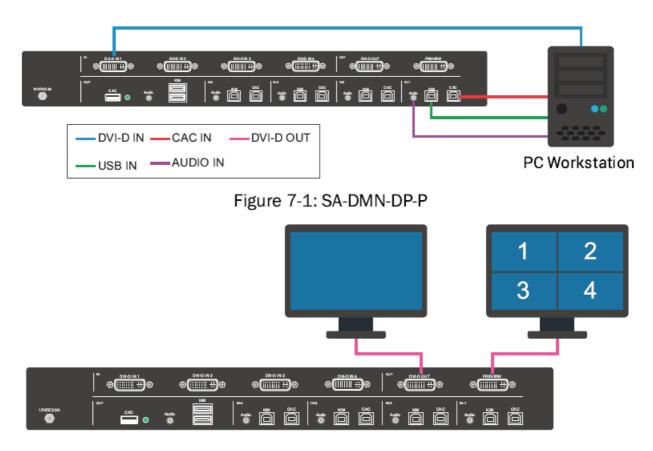


Figure 7-2: SA-DMN-DP-P

EDID Learn:

- The monitors must be connected to the video output connectors located on the console at the back of the KVM during the EDID learn process.
- There are one way to get the EDID on the SA-DMN-4S-P.

Note: Only the display connected to the "PREVIEW" connector can get its local EDID.

Through the buttons of the front panel:

Hold down Button #1 and Button #8 at the same time for about 5 seconds and then let go. The entire top row of LEDs will blink while waiting for any of the following three commands for EDID:

- Hold Button #1 and let go after both the top and bottom rows of LEDs are blinking. This will load the onboard EDID FHX2300 to the "DVI OUT" display.
- Hold Button #2 and let go after both the top and bottom rows of LEDs are blinking. This will load the onboard EDID H213H to the "DVI OUT" display.
- Hold Button #3 and let go after both the top and bottom rows of LEDs are blinking. This will get and load the local EDID of the monitor connected to the "PREVIEW" connector

CAC (COMMON ACCESS CARD, SMART CARD READER) INSTALLATION

The following steps are intended for the system administrator or IT manager only. If you have the optional CAC ports there will be 4 ports on a 4 host ports KVM. 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 KVM. 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 KVM 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 KVM 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 KVM 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.

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 KVM. Only one peripheral can be registered and only the registered peripheral will operate with the KVM. By default, when no peripheral is registered, the KVM will operate with any Smart Card Reader. Configure the CAC Port via User Menu Ontions

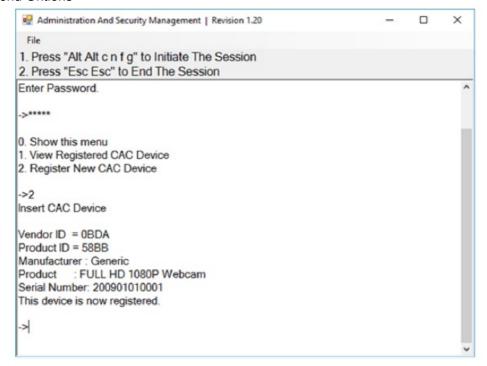


Figure 8-1 User Menu

- 1. Open the Administration and Security Management Program.
- 2. Using the keyboard, press the Alt key twice and type "cnfg".

- 3. At this stage the mouse connected to the KVM 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 KVM and wait until the KVM is reading the new peripheral information.
- 8. The KVM 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 KVM 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: http://ipgard.com/documentation/

To view or dump the Event Log:

- 1. Open the Administration and Security Management Program
- 2. Using the keyboard, press the Alt key twice and type "enfg".
- 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 9-1)

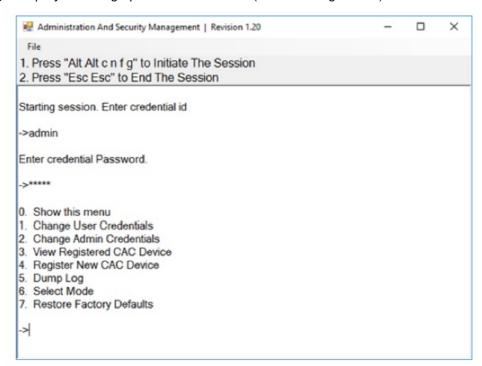


Figure 9-1

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 KVM to their original state CAC port registration will be removed KVM 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 9-1)

See Administration and Security Management Tool Guidance for detailed information.

LED's BEHAVIOR

User Console Interface – Display LED:

#	Status	Description
1	Off	Monitor is not connected
2	On	Monitor is connected
3	Flashing	EDID problem - Learn EDID to fix the problem

User Console Interface – CAC LED:

#	Status	Description
1	Off	CAC is not connected
2	On	Authorized and functional CAC is connected
3	Flashing	Non-CAC peripheral is connected

Front Panel – Port Selection LED's:

#	Status	Description
1	Off	Non-selected port
2	On	Selected port
3	Flashing	EDID learn in process

Front Panel - CAC Selection LED's:

#	Status	Description
1	Off	CAC port is disabled or non-selected port
2	On	CAC port is enabled
3	Flashing	EDID learn in process

Front Panel - Port and CAC Selection LED's:

#	Status	Description
1		Connected peripheral to keyboard or mouse console ports is rejected

IMPORTANT!

If all the Front Panel LED's are flashing and the buzzer is beeping, the KVM has been TAMPERED with and all functions are permanently disabled. Please contact iPGARD technical support at I support@iPGARD.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 iPGARD technical support at support@iPGARD.com.

FRONT PANEL CONTROL

To switch to an input port, simply push the desired input button on the front-panel of the KVM. If an input port is selected, the LED of that port will turn on.

PREVIEW SELECTION

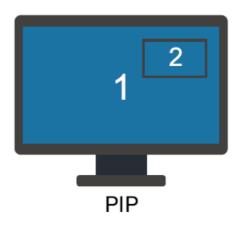
To switch display modes, press the desired preview mode button on the front control panel.

Full Screen Mode



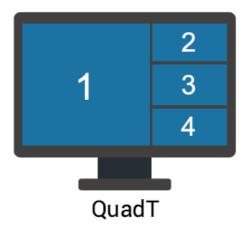
In the Full Screen mode, one of the four video sources is displayed in full screen size at maximum resolution. Keyboard and mouse operations are not affected. Pressing the Full screen mode preview button on the front panel of the KVM will rotate the video input source/channel.

PIP Mode



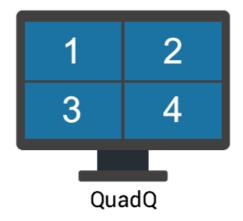
PIP mode is fixed is size and position, the full screen displays one of the four video sources, and a smaller image (thumbnail) containing another video source on the right-hand margin of the screen allows for simultaneous monitoring. Pressing the PIP screen mode preview button on the front panel of the KVM will rotate the full screen and thumbnail video input sources/channels.

QuadT Mode



In QuadT mode, the full screen displays one of the four video sources, and is accompanied by three smaller images (thumbnails) containing the other video sources on the right-hand margin of the screen, allowing simultaneous monitoring. Pressing the Quad screen mode preview button on the front panel of the KVM will rotate the full screen and thumbnails preview locations and sources.

QuadQ Mode



In QuadQ-mode, the screen is split into four fields of equal size with the four selected video sources or computers being displayed in each of these fields.the four computer are always in the same order. The user can not change the position or the size of the window.

SYSTEM OPERATION

Front Panel Control

To switch to an input port, simply push the desired input button on the front-panel of the KVM. If an input port is selected, the LED of that port will turn on.

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.

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 KVM.

· 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.

TECHNICAL SUPPORT

• For product inquiries, warranty questions, or technical questions, please contact info@iPGARD.com.

LIMITED WARRANTY STATEMENT

Extent of limited warranty iPGARD, Inc. warrants to the end-user customers that the iPGARD product specified above will be free from defects in materials and workmanship for the duration of 1 year, which duration begins on the date of purchase by the customer. Customer is responsible for maintaining proof of date of purchase. iPGARD limited warranty covers only those defects which arise as a result of normal use of the product, and do not apply to any:

- Improper or inadequate maintenance or modifications
- · Operations outside product specifications
- Mechanical abuse and exposure to severe conditions

If iPGARD receives, during applicable warranty period, a notice of defect, iPGARD will at its discretion replace or repair defective product. If iPGARD is unable to replace or repair defective product covered by the iPGARD warranty within reasonable period of time, iPGARD shall refund the cost of the product. iPGARD shall have no obligation to repair, replace or refund unit until customer returns defective product to iPGARD. Any replacement product could be new or like new, provided that it has functionality at least equal to that of the product being replaced.

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

Limitations of warranty

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

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 iPGARD 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.

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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Toll Free: (888) 994-7427

Phone: (702) 800-0005 Fax: (702) 441-5590 2

455 W Cheyenne Ave, Suite 112 Las Vegas, NV 89032

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Advanced 4-Port DisplayPort Secure KVM Switch with Preview Screen

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iPGARD DMN-DP-P 4 Port SH Secure DP KVM with CAC Port [pdf] User Manual DMN-DP-P 4 Port SH Secure DP KVM with CAC Port, DMN-DP-P, 4 Port SH Secure DP KVM with CAC Port, DP KVM with CAC Port, CAC Port

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