

# 2/4-Port USB Console KVM Switch w/ USB Hub and Hotkey Control

Hotkey  
Supported

USB Hub



*User's manual*



## 2/4-Port KVM Switch

MODEL		Video Interface							Audio	Power Type	
2-Port	4-Port	VGA-M	VGA-F	DVI	DVI-DL	HDMI	DisplayPort	Mini DisplayPort		2-Port	4-Port
KAG-112	KAG-114	•								5V	9~12V
KAG-F112	KAG-F114		•							5V	9~12V
KAAG-112	KAAG-114	•							•	9~12V	9~12V
KAAG-F112	KAAG-F114		•						•	9~12V	9~12V
DAG-112	DAG-114			•						5V	9~12V
DAAG-112	DAAG-114			•					•	9~12V	9~12V
DAKG-112	DAKG-114				•				•	9~12V	9~12V
MAG-112	MAG-114					•				5V	9~12V
MAAG-112	MAAG-114					•			•	9~12V	9~12V
PAG-112	PAG-114						•			5V	9~12V
PAAG-112	PAAG-114						•		•	9~12V	9~12V
PPAG-112	PPAG-114							•	•	9~12V	9~12V

## Dual-View 2/4-Port KVM Switch

MODEL		Video Interface							Audio	Power Type	
2-Port	4-Port	VGA-M	VGA-F	DVI	DVI-DL	HDMI	DisplayPort	2-Port		4-Port	
KADG-122	KADG-124	•							•	9~12V	
KADG-F122	KADG-F124		•						•	9~12V	
DADG-122	DADG-124			•					•	9~12V	
DAKG-122	DAKG-124				•				•	9~12V	
MADG-122	MADG-124					•			•	9~12V	
PADG-122	PADG-124						•		•	9~12V	
PADD-122	PADD-124			•				•	•	9~12V	
PADM-122	PADM-124					•	•		•	9~12V	
DADK-122	DADK-124	•		•					•	9~12V	
DADK-F122	DADK-F124		•	•					•	9~12V	
MADK-122	MADK-124	•				•			•	9~12V	
MADK-F122	MADK-F124		•			•			•	9~12V	
PADK-122	PADK-124	•					•		•	9~12V	
PADK-F122	PADK-F124		•				•		•	9~12V	

Rextron Technology, Inc.  
 FFP-ZG5800-400  
 Printed in Taiwan

---

# Table of Content

<b>Introduction</b> .....	1
Overview.....	1
Features.....	1
Package Contents.....	1
<b>System Requirements</b> .....	2
Console side.....	2
Computer side.....	2
Cables.....	2
<b>Installation</b> .....	3
PC BIOS Notice.....	3
Console Connection.....	3
Computer Connection.....	7
<b>Operations</b> .....	10
Front Panel.....	10
Hotkey Commands.....	12
<b>Rack Mount Kit</b> .....	15
<b>Appendices</b> .....	16
Specifications.....	16
Troubleshooting.....	26



Please read this manual thoroughly and follow the **Installation** procedures to prevent any damage to the KVM switch or any connecting device.

- *The final specifications are the actual product based.*
- *Features and functions may be added or changed since the manual was written. Please visit our website to download the latest version of manual for reference.*
- *To prevent damages to your installation, it is important that all devices are properly grounded.*



RoHS

# **Introduction**

## **Overview**

The AcroGear series, fully compatible with USB specification, are the combination of USB KVM (keyboard/video/mouse) switch and USB peripherals sharing device. You can easily operate up to 4 PCs, G3/G4 Macs, or Mac Pros respectively from a single set of USB keyboard, USB mouse, and monitor saving your space, time, equipment and money. Its peripheral sharing function enables you to share more USB peripherals among all computers. The “FUNC” button for adjusting the video signal strength. Yet, most of the AcroGear series support audio function (Speaker + MIC). Users can switch among 2/4 media sources and enjoy the output on one single / dual display(s) and one set of speakers + MIC.

Installation is as easy as connecting USB A-B cables between computers and the AcroGear series. Computer selecting is as easy as pressing the front panel button. The built-in USB hub ensures smooth switching from one computer to the other. It simply reduces redundant cables and encourages a neat and tidy working environment.

## **Features**

- Support USB Console
- Support high video resolution up to UXGA (1600 x 1200) / Full HD (1920 x 1080) / WUXGA (1920 x 1200) and WQXGA (2560 x 1600) for certain models
- 2/4 computers share up to 4 different USB peripherals (KB + MS + USB Devices)
- Unique Tracking System enables the USB (or Audio) devices to operate independently
- Front panel pushbuttons and hotkey functions for easy computer selection
- Rear panel FUNC button for easily adjusting the video signal strength (Available for certain models)
- Support keyboard and mouse plug-n-play
- Buzzer sound for computer switching confirmation
- Activate Auto Scan by front buttons pressing (Available for 4-Port Type)
- Selectable Scan Time interval
- Support the VGA-M, VGA-F, DVI, DVI-DL, HDMI, DisplayPort and Mini DisplayPort monitor (depends on models)
- No software required
- Support Windows/Mac Multimedia function key.
- Compatible with most of the popular screen resolution to XGA, SXGA, UXGA, WSXGA ....Full HD, WUXGA system

## **Package Contents**

- KVM Switch x 1
- Power Adapter with necessary AC Cord x 1
- OR
- Plug-in Power Adapter x 1
- User's Manual x 1
- Foot Pad x 1

# ----- **System Requirements**

## **Console side**

- One / Two monitors (depends on models)
- One USB Keyboard
- One USB mouse
- Microphone and speaker (optional for audio featured models)

## **Computer side**

- USB-enabled computer

## **Cables**

Each computer must be connected to the unit by

- One Video cable for monitor device as shown below



VGA



DVI/ DVI-DL



HDMI



DP / Mini DP

One USB cable for operation as shown below



USB A-B

Optional Audio cable for audio featured models



Audio

- Or Premium KVM Cable with USB (or USB + Audio) combination for easy installation



Video+ USB



Video+ USB+ Audio

## ----- **Installation**

- Prior to the installation, please power off all devices that will be connected to this system.
- Ensure that all devices you will connect are properly grounded.
- Place cables away from fluorescent lights, air conditioners, and machines that are likely to generate electrical noise.

### **PC BIOS Notice**

*The following BIOS setup changes are necessary for PC users and **not** necessary for Mac users:*

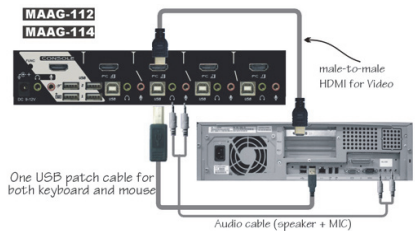
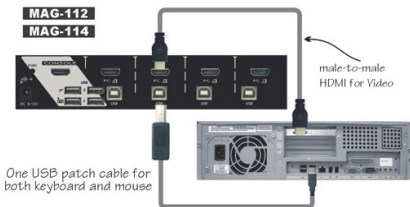
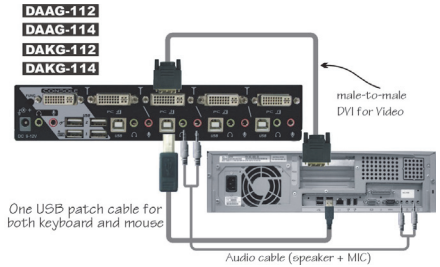
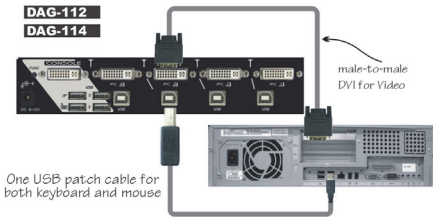
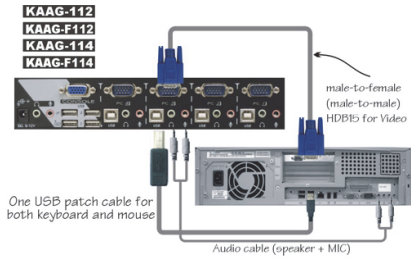
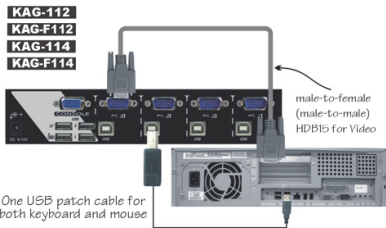
1. In STANDARD CMOS, set HALT ON ERROR to ALL BUT KEYBOARD.
2. In PNP AND PCI SETUP, set PNP OS INSTALLED to YES and set USB IRQ to ENABLED.

**Note:** The AcroGear series are applicable for switching USB keyboard and USB mouse from one computer to the other. If you plan to share other peripherals such as a CCD camera, printer or scanner, it is required to shut down the driver of the computer before switching to another computer. Because port switching is equivalent to unplugging the USB cable from one computer and plugging it to another one, some USB drivers check attached USB peripherals all the time and do not support plug-n-play function.

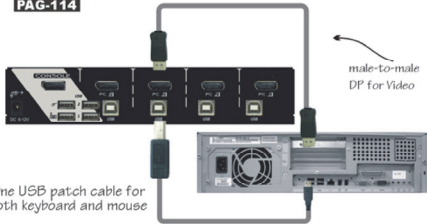
### **Console Connection**

1. Plug a monitor into the Console's Video port; plug a USB keyboard and a USB mouse into the corresponding USB ports on the Console.
2. For the model with standard audio feature, plug a set of audio jack from the speaker and microphone to the Console's speaker port and microphone port respectively.
3. Plug USB peripherals into the port USB 1 and/or USB 2 on the Console side if needed

## 2/4-Port KVM Switch



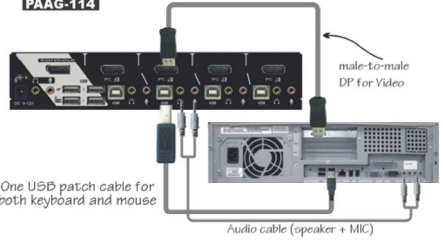
**PAG-112**  
**PAG-114**



One USB patch cable for both keyboard and mouse

male-to-male DP for Video

**PAAG-112**  
**PAAG-114**

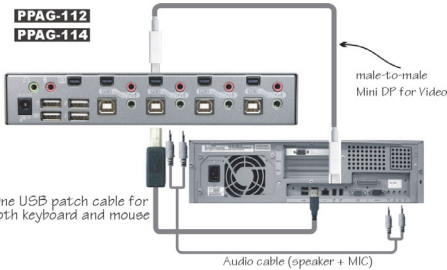


One USB patch cable for both keyboard and mouse

male-to-male DP for Video

Audio cable (speaker + MIC)

**PPAG-112**  
**PPAG-114**



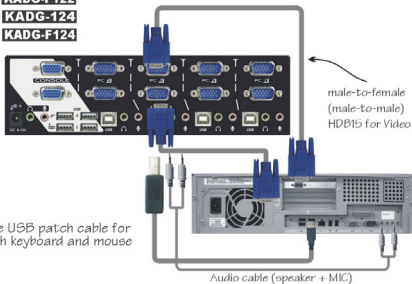
One USB patch cable for both keyboard and mouse

male-to-male Mini DP for Video

Audio cable (speaker + MIC)

## Dual-View 2/4-Port KVM Switch

**KADG-122**  
**KADG-F122**  
**KADG-124**  
**KADG-F124**

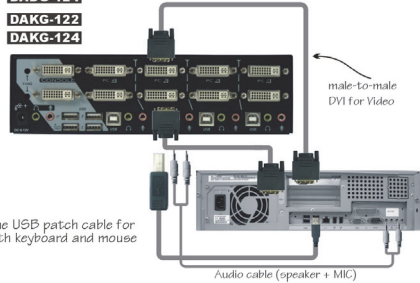


One USB patch cable for both keyboard and mouse

male-to-female (male-to-male) HDB15 for Video

Audio cable (speaker + MIC)

**DADG-122**  
**DADG-124**  
**DAKG-122**  
**DAKG-124**



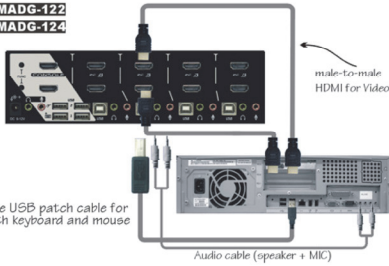
One USB patch cable for both keyboard and mouse

male-to-male DVI for Video

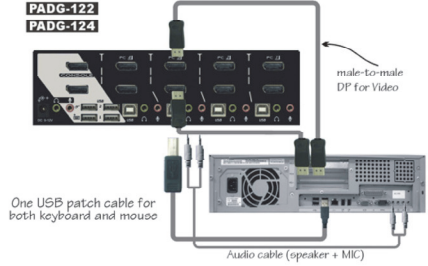
Audio cable (speaker + MIC)



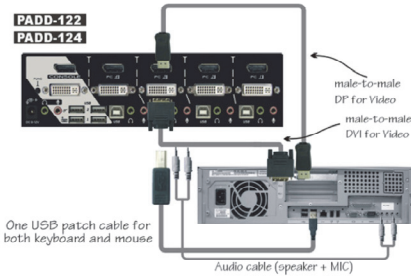
**MADG-122**  
**MADG-124**



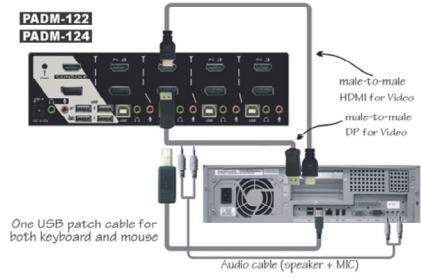
**PADG-122**  
**PADG-124**



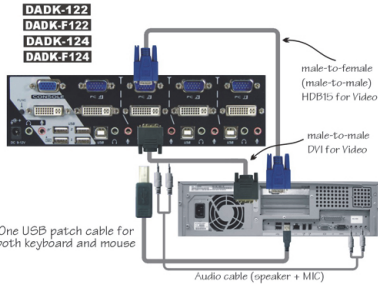
**PADD-122**  
**PADD-124**



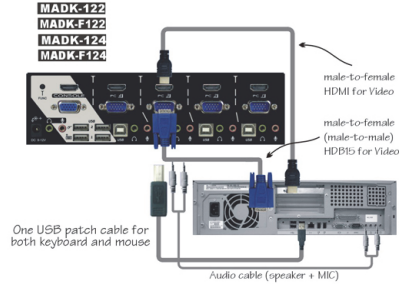
**PADM-122**  
**PADM-124**



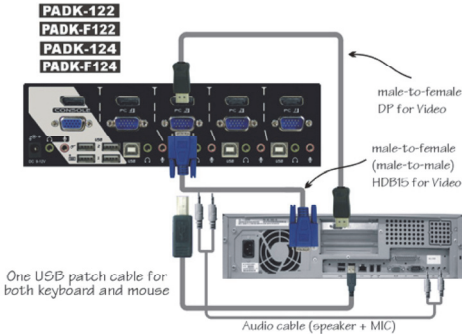
**DADK-122**  
**DADK-F122**  
**DADK-124**  
**DADK-F124**



**MADK-122**  
**MADK-F122**  
**MADK-124**  
**MADK-F124**



**PADK-122**  
**PADK-F122**  
**PADK-124**  
**PADK-F124**



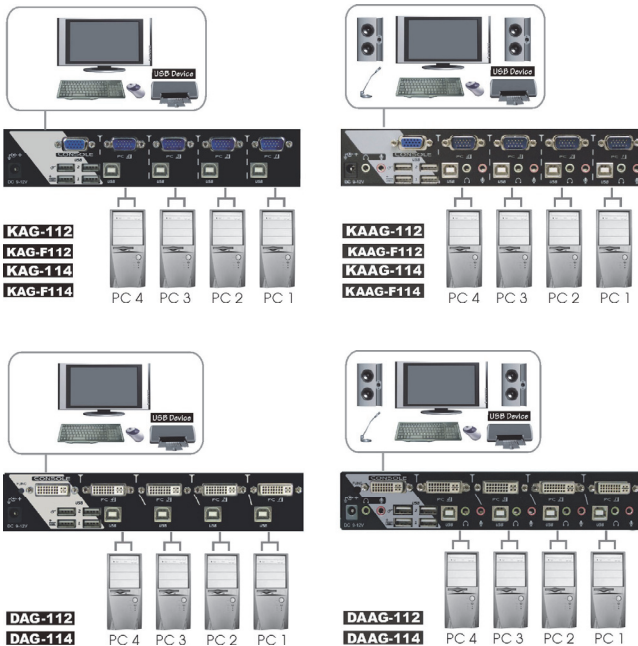
# Computer Connection

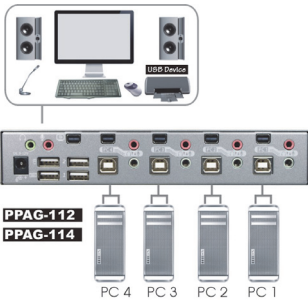
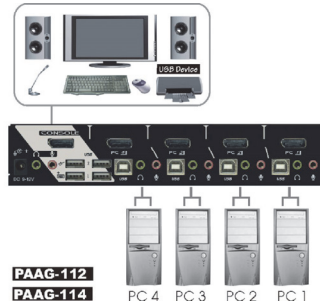
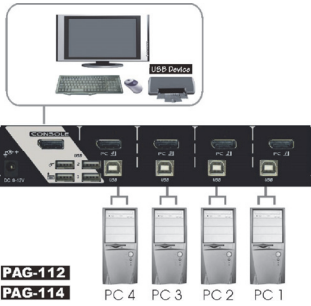
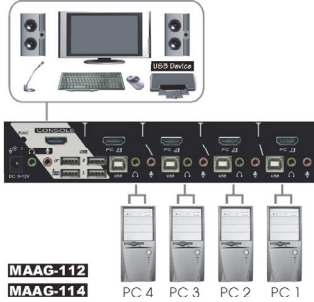
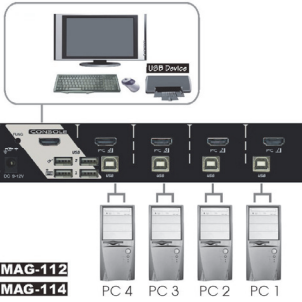
1. Use a male-to-male/ female video cable (depends on models) to connect both video ports on the computer and the unit's **PC** side.
2. Use a USB A-B Cable to connect the unit's **USB** port (B connector, square connector) and the USB port on the corresponding computer (A connector, flat connector).
3. For the model support audio feature, use a set of audio cable to connect the speaker port and microphone port between the computer side of the unit and the corresponding computer.

**NOTE:** Users may use premium KVM Cable with USB (or USB+ Audio) combination for easy installation

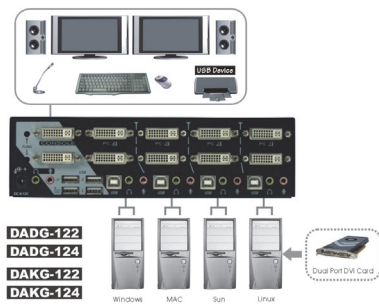
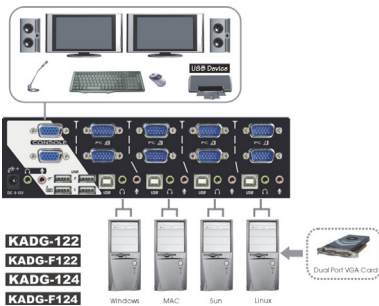
4. Plug the power adaptor from an appropriate DC power source to the switch power port

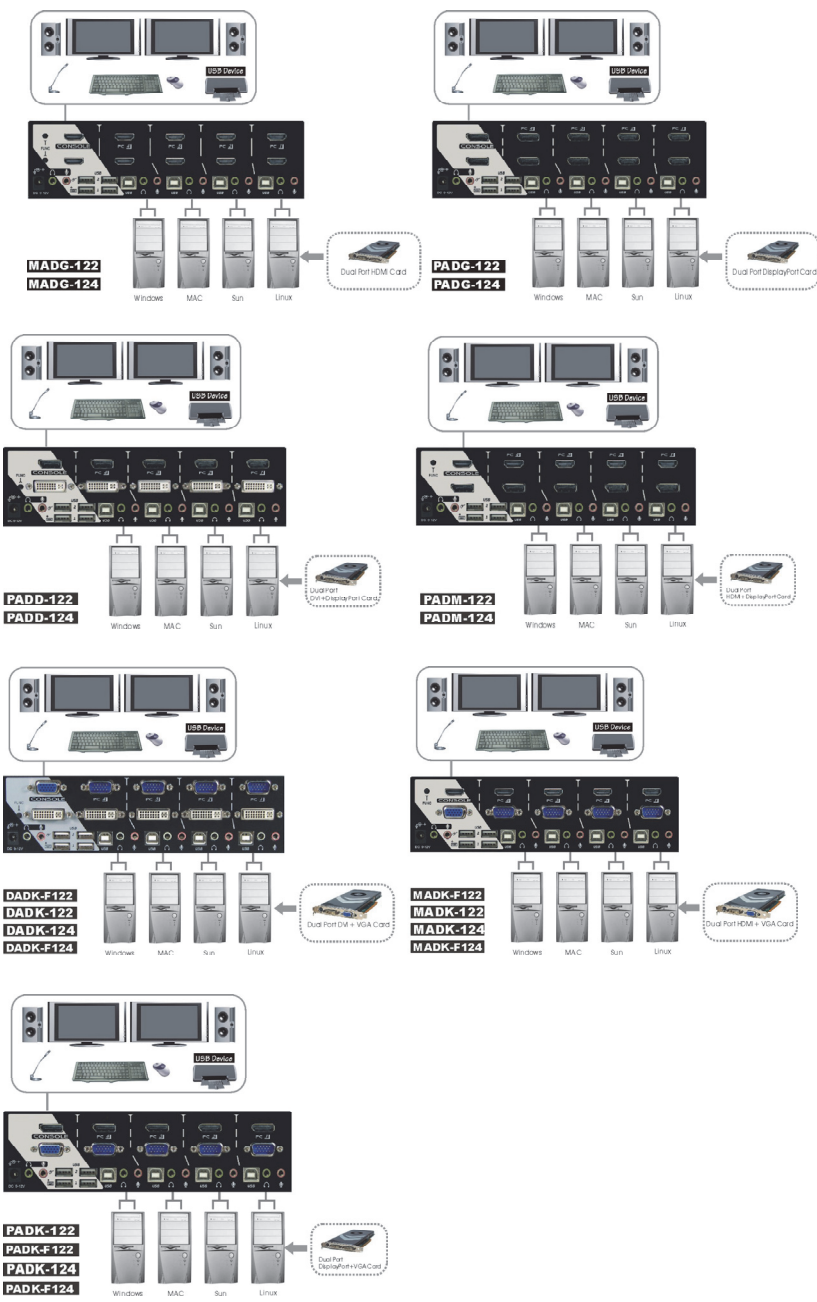
## 2/4-Port KVM Switch





## Dual-View 2/4-Port KVM Switch





## ----- **Operations**

### **Front Panel**

#### ***LED Indicators***

The LED turns green when the connected computer is powered-on. Its corresponding LED illuminated red when a connected computer is currently selected.

#### ***Pushbuttons***

For four computer ports models, each button on the front panel associates with a connected computer for selection.

For two computer ports models, a button on the front panel for switching between the two connected computers.

#### ***Auto Scan***

The system automatically scans through the power-on computers in sequence with a fixed interval (see *Scan Time* below).

To activate *Auto Scan*, press down front panel push buttons "3" and "4" simultaneously. The port LED flashes during *Auto Scan*. *Auto Scan* is effective for active computers only. To exit the *Auto Scan* mode, just tap any one of the pushbuttons. (4-Port Type only)

#### ***Scan Time***

Four options available for users to set the duration of Scan Time, it Includes 3, 8, 15 and 30 seconds.

To change the *Scan Time*, press both front panel buttons "1" and "2" simultaneously. The unit responds with beep(s) 1, 2, 3 or 4 times for *Scan Time* of 3, 8, 15 or 30 seconds respectively. (4-Port Type only)

Note: *Scan Time is set to 3 seconds as default after blackout or reboot.*

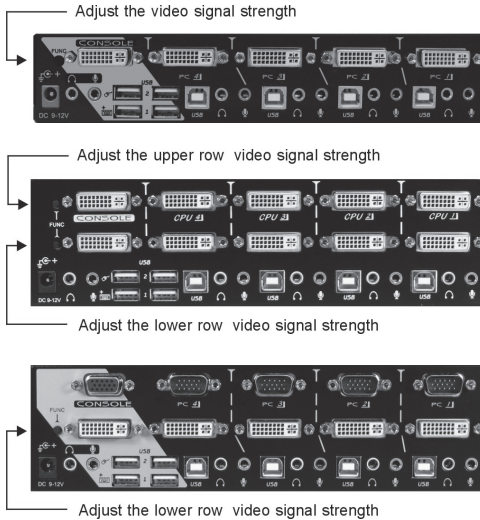
**NOTE:** If users encounter no screen display in computer connection

1. Make sure the device cables are correctly and firmly attached
2. Set your Display device's input source as VGA/ DVI/ HDMI/ DP (depends on models)
3. Check the PC BIOS configuration about the video output setting
4. Connect your computer to the Display DIRECTLY to check if the video signal gets through

**NOTE :** For the (Mini) DisplayPort model, "Port Switching" requires more time for Video Signal communication. Please wait about 3~4 seconds before switching to the next channel.

**NOTE:** For the (Mini) DisplayPort model, make sure it works properly after the DP monitor connected directly to the DP source without video converter in between.

## Adjust the Video (DVI) Signal (availability depends on the model)



To optimize the video signal strength corresponding to the length or quality of Video cable, the user can adjust the signal by pressing "FUNC" button (availability depends on the model), which followed by few more button pressings. (4-Port Type only)

**Step 1.** Press button "FUNC" three times, the LED "POWER" will start to flash once per second.  
**Step 2.**

- Press pushbutton "1" once or twice to adjust the equalization of video strength for the selected input port, which followed by one beep (normal) or two beeps (enhance) respectively.

or

- Press pushbutton "3" once or twice to adjust the output current of selected port, which followed by one beep (normal) or two beeps (enhance) respectively.

or

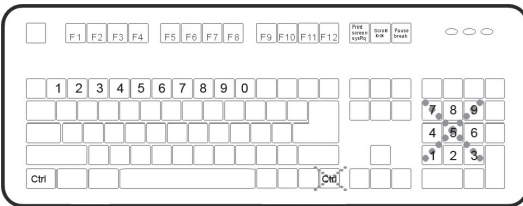
- Press pushbutton "4" once, twice, triple, or quadruple to adjust the output amplification of selected port, which followed by one beep (no pre-emphasis), two beeps (low pre-emphasis), three beeps (medium pre-emphasis), or four beeps (high pre-emphasis).

**Step 3.** Once the setting is finished, press "FUNC" button once to exit the setting.

# Hotkey Commands

A Hotkey command is a short keyboard sequence for selecting a computer, activating computer scan, etc. KVM Switch interprets keystrokes for hotkeys all the time. A hotkey sequence starts with two left **Ctrl** keystrokes ( successively in 0.2 seconds ) followed by one or two more keystrokes. A built-in buzzer generates a high-pitch beep for correct hotkey command; otherwise, one low-pitch beep generates for error and the bad key sequence will not be forwarded to the selected computer.

**NOTE:** Press and hold **Left Shift** and press **Num Lock** twice, then release **Shift** followed by pressing left **Ctrl** once, which will enable / disable the hotkey function.



- To select a computer:

(Example: Selects the computer at port 1.)

Press **Left Ctrl** + Press **Left Ctrl** + Press **1**

(Example: Selects the computer at port 2.)

Press **Left Ctrl** + Press **Left Ctrl** + Press **2**

**NOTE:** Do not use the keypad on the right of the keyboard.

- To start *Auto Scan*:

Press **Left Ctrl** + Press **Left Ctrl** + Press **F1**

To abort the *Auto Scan* mode, press the **left Ctrl** key twice. When *Auto Scan* detects any keyboard or mouse activity, it suspends the scanning till the activity stops; it then resumes with the next computer in sequence. The length of the *Auto Scan* interval (*Scan Rate*) is adjustable; see below.

- *Manual Scan* allows users to manually switch back and forth between power-on computers.

Press **Left Ctrl** + Press **Left Ctrl** + Press **F2**

To select the previous or the next computer, press **↑** or **↓** in sequence.

To abort the *Manual Scan*, press any other key.

- To adjust *Scan Rate*, set the duration of scan time before switching to the next computer:

Press **Left Ctrl** + Press **Left Ctrl** + Press **F3**

The KVM Switch generates 1 to 4 beeps indicating duration of scan time for **3**, **8**, **15** and **30** seconds respectively.

- *Audio Stick*

There are two options for *Audio Stick*: **ON** and **OFF**. When set to '**ON**', audio selection follows computer selection. When set to '**OFF**', audio selection stops following computer selection. It is useful if you want to listen to a particular computer's audio signal while operating other computers.

Press *Left* **Ctrl** + Press *Left* **Ctrl** + Press **F5**

The KVM switch beeps once or twice corresponding to **OFF** and **ON** respectively.

Enforce the audio signal following with the selected computer by pressing the following hotkey

Press *Left* **Ctrl** + Press *Left* **Ctrl** + Press **A**

- *USB-Port Rule*

There are two options for setting the rule of USB 1 and USB 2 on the Console side: When set to '**ON**', USB-Port selection follows computer selection. When set to '**OFF**', USB-Port selection stops following computer selection.

**USB port setting for 2-Port Type:**

Pressing the hotkey below to turn ON/OFF both the USB 1 and USB2 ports Rule

Press *Left* **Ctrl** + Press *Left* **Ctrl** + Press **F7**

**USB port setting for 4-Port Type:**

**USB 1:** Pressing the hotkey below to turn ON/OFF the USB-Port Rule

Press *Left* **Ctrl** + Press *Left* **Ctrl** + Press **F7**

**USB 2:** Pressing the hotkey below to turn ON/OFF the USB-Port Rule

Press *Left* **Ctrl** + Press *Left* **Ctrl** + Press **F8**

Enforce the USB following the selected computer by pressing the following hotkey (applicable for both 2-Port Type and 4-Port Type)

Press *Left* **Ctrl** + Press *Left* **Ctrl** + Press **U**

**NOTE:** Please make sure that linking procedure of USB device has been accomplished before switching to the next computer.



## Alternative Hotkey Commands

In addition to the *Left* **Ctrl** + *Left* **Ctrl** hotkeys, there are two alternative hotkey sequences available.

1. For the following operations, users may press **Scroll Lock** twice instead of pressing *Left* **Ctrl** twice.

- To select a computer:

Press **Scroll Lock** + Press **Scroll Lock** + Press **1**

(Example: Select the computer at port 1.)

Press **Scroll Lock** + Press **Scroll Lock** + Press **2**

(Example: Select the computer at port 2.)

**NOTE: Do not use the keypad on the right of the keyboard.**

2. For those keyboards do not have or support **Scroll Lock**, please press and HOLD the *Left* **Shift** and press **Num Lock** twice instead of pressing *Left* **Ctrl** twice.

- To select a computer:

Hold *Left* **Shift** + Press **Num Lock** + Press **Num Lock** then release **shift** + Press **1**

(Example: Select the computer at port 1.)

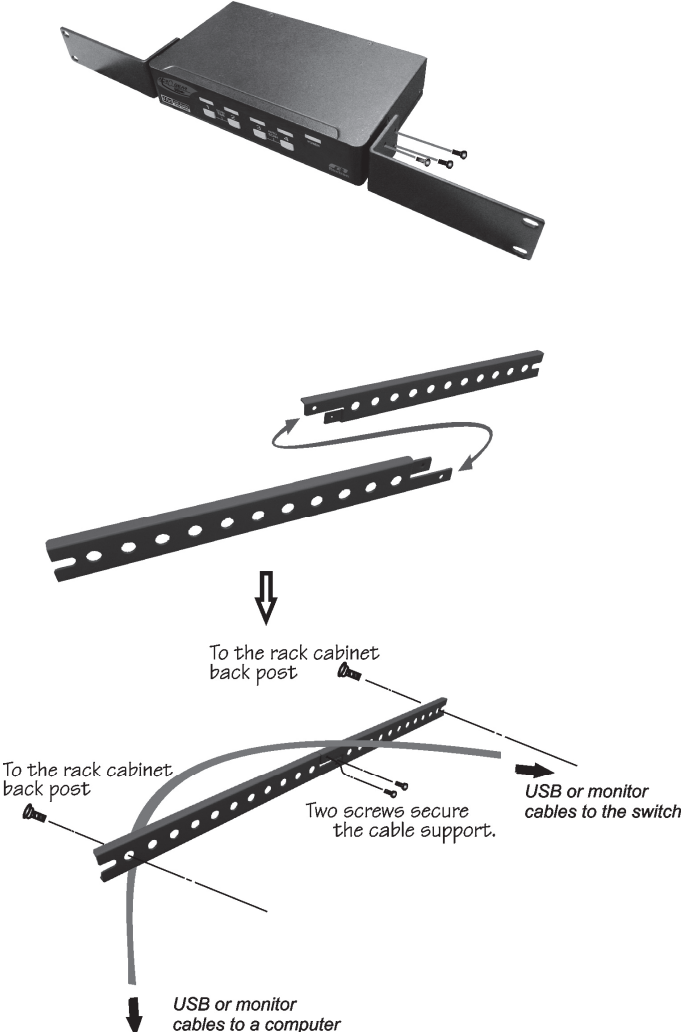
Hold *Left* **Shift** + Press **Num Lock** + Press **Num Lock** then release **shift** + Press **2**

(Example: Select the computer at port 2.)

**NOTE: Do not use the keypad on the right of the keyboard.**

**----- Rack Mount Kit** for 4-Port Type only

The figure below shows how to attach optional mounting brackets and cable support (RMK04) the unit for standard 19-inch rack cabinet.



## ----- Appendices

### • Specifications

#### 2/4-Port KVM Switch

Specification		KAG-112	KAAG-112	KAG-114	KAAG-114
		KAG-F112	KAAG-F112	KAG-F114	KAAG-F114
Console Port		1			
Computer Port		2		4	
Front panel pushbutton		1		4	
FUNC button		N/A			
Hot plug-and-play		Yes			
Automatic scan time interval		3, 8, 15, 30 seconds			
Cable Length (Max)		3M(10ft) for USB			
Computer ON-LINE LED		2		4	
Computer Selected LED		2		4	
Console Interface	USB Port	3	4	4	4
	Keyboard	USB			
	Mouse	USB			
	Monitor	----- HDB15-M HDB15-F			
	Audio Jack (Speaker+MIC)	N/A	1Set	N/A	1Set
Computer Interface	Keyboard	USB 2.0			
	Mouse	USB 2.0			
	Monitor	----- HDB15-M HDB15-F			
	Audio Jack (Speaker+MIC)	N/A	2 Sets	N/A	4 Sets
Hot Key		Yes			
OSD		No			
Resolution (Max.)		UXGA (1600 x 1200), WUXGA (1920 x 1200), Full HD (1920 x 1080p)			
DDC2B Support		Yes			
Dimension H x W x D (mm)		40 x 125 x 70	40 x 160 x 100	44 x 220 x 130	
(in.)		1.6 x 4.9 x 2.8	1.6 x 6.3 x 3.9	1.7 x 8.7 x 5.1	

## 2/4-Port KVM Switch

Specification		DAG-112	DAAG-112	DAG-114	DAAG-114
Console Port		1			
Computer Port		2		4	
Front panel pushbutton		1		4	
FUNC button		N/A		1	
Hot plug-and-play		Yes			
Automatic scan time interval		3, 8, 15, 30 seconds			
Cable Length (Max)		3M(10ft) for USB			
Computer ON-LINE LED		2		4	
Computer Selected LED		2		4	
Console Interface	USB Port	3	4	4	4
	Keyboard	USB			
	Mouse	USB			
	Monitor	DVI			
	Audio Jack (Speaker+MIC)	N/A	1 Set	N/A	1 Set
Computer Interface	Keyboard	USB 2.0			
	Mouse	USB 2.0			
	Monitor	DVI			
	Audio Jack (Speaker+MIC)	N/A	2 Sets	N/A	4 Sets
Hot Key		Yes			
OSD		No			
Resolution (Max.)		UXGA (1600 x 1200), WUXGA (1920 x 1200), Full HD (1920 x 1080p)			
DDC2B Support		Yes			
Dimension H x W x D (mm) (in.)		40 x 125 x 70 1.6 x 4.9 x 2.8	40 x 160 x 100 1.6 x 6.3 x 3.9	44 x 220 x 130 1.7 x 8.7 x 5.1	

## 2/4-Port KVM Switch

Specification		DAKG-112	DAKG-114
Console Port		1	1
Computer Port		2	4
Front panel pushbutton		1	4
FUNC button		N/A	1
Hot plug-and-play		Yes	
Automatic scan time interval		3, 8, 15, 30 seconds	
Cable Length (Max)		3M(10ft) for USB	
Computer ON-LINE LED		2	4
Computer Selected LED		2	4
Console Interface	USB Port	4	4
	Keyboard	USB	
	Mouse	USB	
	Monitor	DVI / DVI-DL	
	Audio Jack (Speaker+MIC)	1 Set	1 Set
Computer Interface	Keyboard	USB2.0	
	Mouse	USB2.0	
	Monitor	DVI / DVI-DL	
	Audio Jack (Speaker+MIC)	2 Sets	4 Sets
Hot Key		Yes	
OSD		No	No
Resolution (Max.)		UXGA (1600 x 1200), WUXGA (1920 x 1200), Full HD (1920 x 1080p) WQXGA (2560 x 1600)	
DDC2B Support		Yes	
Dimension H x W x D (mm) (in.)		40 x 160 x 100 1.6 x 6.3 x 3.9	44 x 220 x 130 1.7 x 8.7 x 5.1

## 2/4-Port KVM Switch

Specification		MAG-112	MAAG-112	MAG-114	MAAG-114
		PAG-112	PAAG-112	PAG-114	PAAG-114
Console Port		1			
Computer Port		2		4	
Front panel pushbutton		1		4	
FUNC button		N/A		1 ----- N/A	
Hot plug-and-play		Yes			
Automatic scan time interval		3, 8, 15, 30 seconds			
Cable Length (Max)		3M(10ft) for USB			
Computer ON-LINE LED		2		4	
Computer Selected LED		2		4	
Console Interface	USB Port	3	4	4	
	Keyboard	USB			
	Mouse	USB			
	Monitor	----- HDMI DisplayPort			
	Audio Jack (Speaker+MIC)	N/A	1 Set	N/A	1 Set
Computer Interface	Keyboard	USB2.0			
	Mouse	USB2.0			
	Monitor	----- HDMI x 2 DisplayPort x 2		----- HDMI x 4 DisplayPort x 4	
	Audio Jack (Speaker+MIC)	N/A	2 Sets	N/A	4 Sets
Hot Key		Yes			
OSD		No			
Resolution (Max.)		UXGA (1600 x 1200), WUXGA (1920 x 1200), Full HD (1920 x 1080p) WQXGA (2560 x 1600) for DP models			
DDC2B Support		Yes			
Dimension H x W x D (mm) (in.)		40 x 125 x 70 1.6 x 4.9 x 2.8	40 x 160 x 100 1.6 x 6.3 x 3.9	44 x 220 x 130 1.7 x 8.7 x 5.1	

## 2/4-Port KVM Switch

Specification		PPAG-112	PPAG-114
Console Port		1	
Computer Port		2	4
Front panel pushbutton		1	4
FUNC button		N/A	N/A
Hot plug-and-play		Yes	
Automatic scan time interval		3, 8, 15, 30 seconds	
Cable Length (Max)		3M(10ft) for USB	
Computer ON-LINE LED		2	4
Computer Selected LED		2	4
Console Interface	USB Port	4	4
	Keyboard	USB	
	Mouse	USB	
	Monitor	Mini DisplayPort	
	Audio Jack (Speaker+MIC)	1 Set	1 Set
Computer Interface	Keyboard	USB2.0	
	Mouse	USB2.0	
	Monitor	Mini DisplayPort x 2	Mini DisplayPort x 4
	Audio Jack (Speaker+MIC)	2 Sets	4 Sets
Hot Key		Yes	
OSD		No	
Resolution (Max.)		UXGA (1600 x 1200), WUXGA (1920 x 1200), Full HD (1920 x 1080p) WQXGA (2560 x 1600) for DP models	
DDC2B Support		Yes	
Dimension H x W x D (mm)		34 x 192 x 119	
(in.)		1.3 x 7.6 x 4.7	

## Dual-View 2/4-Port KVM Switch

Specification		KADG-122	DADG-122	KADG-124	DADG-124
		KADG-F122		KADG-F124	
Console Port		1			
Computer Port		2		4	
Front panel pushbutton		1		4	
FUNC button		N/A			2
Hot plug-and-play		Yes			
Automatic scan time interval		3, 8, 15, 30 seconds			
Cable Length (Max)		3M(10ft) for USB			
Computer ON-LINE LED		2		4	
Computer Selected LED		2		4	
Console Interface	USB Port	4			
	Keyboard	USB			
	Mouse	USB			
	Dual Monitor	HDB15-M HDB15-F	DVI	HDB15-M HDB15-F	DVI
	Audio Jack (Speaker+MIC)	1Set			
Computer Interface	Keyboard	USB 2.0			
	Mouse	USB 2.0			
	Dual Monitor	HDB15-M HDB15-F	DVI	HDB15-M HDB15-F	DVI
	Audio Jack (Speaker+MIC)	2 Sets		4 Sets	
Hot Key		Yes			
OSD		No			
Resolution (Max.)		UXGA (1600 x 1200), WUXGA (1920 x 1200), Full HD (1920 x 1080p)			
DDC2B Support		Yes			
Dimension H x W x D (mm)		60 x 160 x 100		60 x 220 x 130	
(in.)		2.4 x 6.3 x 3.9		2.4 x 8.7 x 5.1	



## Dual-View 2/4-Port KVM Switch

Specification		DAKG-122	DAKG-124
Console Port		1	1
Computer Port		2	4
Front panel pushbutton		1	4
FUNC button		N/A	1
Hot plug-and-play		Yes	
Automatic scan time interval		3, 8, 15, 30 seconds	
Cable Length (Max)		3M(10ft) for USB	
Computer ON-LINE LED		2	4
Computer Selected LED		2	4
Console Interface	USB Port	4	4
	Keyboard	USB	
	Mouse	USB	
	Dual Monitor	DVI / DVI-DL	
	Audio Jack (Speaker+MIC)	1Set	1Set
Computer Interface	Keyboard	USB2.0	
	Mouse	USB2.0	
	Dual Monitor	DVI / DVI-DL	
	Audio Jack (Speaker+MIC)	2 Sets	4 Sets
Hot Key		Yes	
OSD		No	
Resolution (Max.)		UXGA (1600 x 1200), WUXGA (1920 x 1200), Full HD (1920 x 1080p) WQXGA (2560 x 1600)	
DDC2B Support		Yes	
Dimension H x W x D (mm) (in.)		60 x 160 x 100 2.4 x 6.3 x 3.9	60 x 220 x 130 2.4 x 8.7 x 5.1

## Dual-View 2/4-Port KVM Switch

Specification		MADG-122	PADD-122	MADG-124	PADD-124
		PADG-122	PADM-122	PADG-124	PADM-124
Console Port		1			
Computer Port		2		4	
Front panel pushbutton		1		4	
FUNC button		N/A		----- 2 N/A	1
Hot plug-and-play		Yes			
Automatic scan time interval		3, 8, 15, 30 seconds			
Cable Length (Max)		3M(10ft) for USB			
Computer ON-LINE LED		2		4	
Computer Selected LED		2		4	
Console Interface	USB Port	4			
	Keyboard	USB			
	Mouse	USB			
	Dual Monitor	----- HDMI DisplayPort	DisplayPort + DVI DisplayPort + HDMI	----- HDMI DisplayPort	DisplayPort + DVI DisplayPort + HDMI
	Audio Jack (Speaker+MIC)	1Set			
Computer Interface	Keyboard	USB 2.0			
	Mouse	USB 2.0			
	Dual Monitor	----- HDMI DisplayPort	DisplayPort + DVI DisplayPort + HDMI	----- HDMI DisplayPort	DisplayPort + DVI DisplayPort + HDMI
	Audio Jack (Speaker+MIC)	2 Sets		4 Sets	
Hot Key		Yes			
OSD		No			
Resolution (Max.)		UXGA (1600 x 1200), WUXGA (1920 x 1200), Full HD (1920 x 1080p) WQXGA (2560 x 1600) for DP models			
DDC2B Support		Yes			
Dimension H x W x D (mm)		60 x 160 x 100		60 x 220 x 130	
(in.)		2.4 x 6.3 x 3.9		2.4 x 8.7 x 5.1	

## Dual-View 2/4-Port KVM Switch

Specification		DADK-122	DADK-124
		DADK-F122	DADK-F124
Console Port		1	1
Computer Port		2	4
Front panel pushbutton		1	4
FUNC button		N/A	1
Hot plug-and-play		Yes	
Automatic scan time interval		3, 8, 15, 30 seconds	
Cable Length (Max)		3M(10ft) for USB	
Computer ON-LINE LED		2	4
Computer Selected LED		2	4
Console Interface	USB Port	4	
	Keyboard	USB	
	Mouse	USB	
	Dual Monitor	DVI + HDB15-M DVI + HDB15-F	DVI + HDB15-M DVI + HDB15-F
	Audio Jack (Speaker+MIC)	1 Set	
		USB	
	Mouse	USB	
	Dual Monitor	DVI + HDB15-M DVI + HDB15-F	DVI + HDB15-M DVI + HDB15-F
	Audio Jack (Speaker+MIC)	2 Sets	4 Sets
	Hot Key	Yes	
OSD	No		
Resolution (Max.)	UXGA (1600 x 1200), WUXGA (1920 x 1200), Full HD (1920 x 1080p)		
DDC2B Support	Yes		
H x W x D (mm) (in.)	57 x 160 x 100 2.2 x 6.3 x 3.9	62 x 220 x 130 2.4 x 8.7 x 5.1	

## Dual-View 2/4-Port KVM Switch

Specification		MADK-122	PADK-122	MADK-124	PADK-124
		MADK-F122	PADK-F122	MADK-F124	PADK-F124
Console Port		1			
Computer Port		2		4	
Front panel pushbutton		1		4	
FUNC button		N/A		1	N/A
Hot plug-and-play		Yes			
Automatic scan time interval		3, 8, 15, 30 seconds			
Cable Length (Max)		3M(10ft) for USB			
Computer ON-LINE LED		2		4	
Computer Selected LED		2		4	
Console Interface	USB Port	4			
	Keyboard	USB			
	Mouse	USB			
	Dual Monitor	HDMI + HDB15-M HDMI + HDB15-F	DisplayPort+HDB15-M DisplayPort+HDB15-F	HDMI + HDB15-M HDMI + HDB15-F	DisplayPort+HDB15-M DisplayPort+HDB15-F
	Audio Jack (Speaker+MIC)	1Set			
Computer Interface	Keyboard	USB			
	Mouse	USB			
	Dual Monitor	HDMI + HDB15-M HDMI + HDB15-F	DisplayPort+HDB15-M DisplayPort+HDB15-F	HDMI + HDB15-M HDMI + HDB15-F	DisplayPort+HDB15-M DisplayPort+HDB15-F
	Audio Jack (Speaker+MIC)	2 Sets		4 Sets	
Hot Key		Yes			
OSD		No			
Resolution (Max.)		UXGA (1600 x 1200), WUXGA (1920 x 1200), Full HD (1920 x 1080p) WQXGA (2560 x 1600) for DP models			
DDC2B Support		Yes			
Dimension H x W x D (mm)		60 x 160 x 100		60 x 220 x 130	
(in.)		2.4 x 6.3 x 3.9		2.4 x 8.7 x 5.1	

## • Troubleshooting

Ensure that all cables are well seated and labeled associated with each computer to avoid confusion when connected to the unit.

The unit has built-in power protection that works automatically when needed. When it works, USB communication halts and the only way to restart the unit properly is to remove all power sources (USB patch cables and power adapter), wait a few seconds, apply power sources and start again.

<b>Symptom</b>	<b>Causes</b>	<b>Solutions</b>
Keyboard or mouse does not work	<ul style="list-style-type: none"> <li>■ In Auto Scan, keyboard and mouse are not operable.</li> <li>■ Too many keyboards or mouse drivers installed.</li> </ul>	<ul style="list-style-type: none"> <li>■ Press any front button to select a computer, and then use the keyboard and mouse.</li> <li>■ Remove ALL unnecessary keyboards and mouse drivers.</li> </ul>
Newly installed USB device does not work.	<ul style="list-style-type: none"> <li>■ Improper device driver.</li> <li>■ Device consumes too much power.</li> <li>■ Device consumes too much power instantaneously.</li> <li>■ Improper device initialization.</li> <li>■ When the unit works under self-power, i.e., no power supply added, it supports max of 100mA as per USB spec.</li> </ul>	<ul style="list-style-type: none"> <li>■ Re-install device driver.</li> <li>■ The device should be self-powered, add a power adapter to the device.</li> <li>■ If the device does not provide power jack, add a power adapter with DC9~12V of less than 1A current rating to the unit.</li> <li>■ Be sure the USB cable is well seated to ensure communication.</li> <li>■ Remove all power sources to the unit by unplugging all USB A-B cables and the power adapter; then start all over again.</li> <li>■ Select the computer by pushbutton, restart the computer and try again.</li> </ul>
Computer hangs up while switching computer.	<ul style="list-style-type: none"> <li>■ Device initialization takes too much time.</li> </ul>	<ul style="list-style-type: none"> <li>■ Wait at least 5 seconds before computer switching to ensure proper USB communication.</li> <li>■ Turn off device driver (neither keyboard nor mouse) before computer switching.</li> </ul>
Auto Scan does not switch to PC automatically and the unit beeps	<ul style="list-style-type: none"> <li>■ All PCs are off or only one PC is turned on. Scan mode works for power-on computers only.</li> </ul>	<ul style="list-style-type: none"> <li>■ Turn computers on.</li> </ul>
No video signal when users plug & unplug the DVI connector or switch from port to port	<ul style="list-style-type: none"> <li>■ Some DVI video cards do not respond to the signal switch simultaneously.</li> </ul>	<ul style="list-style-type: none"> <li>■ Make sure that you have plugged a monitor to the Console's DVI port before plugging / unplugging the PC's Video connector(s).</li> <li>■ Wait few seconds.</li> </ul>
The resolution is not good.	<ul style="list-style-type: none"> <li>■ Improper video settings of the unit.</li> </ul>	<ul style="list-style-type: none"> <li>■ To adjust the optimal video signal strength corresponding to the length or quality of DVI cable, the user can press "FUNC" button combing with the other pushbuttons.</li> </ul>

## **Limited Warranty**

IN NO EVENT SHALL THE DIRECT VENDOR'S LIABILITY FOR DIRECT OR INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, LOSS OF PROFIT, LOSS OF BUSINESS, OR FINANCIAL LOSS WHICH MAY BE CAUSED BY THE USE OF THE PRODUCT EXCEEDS THE PRICE PAID FOR THE PRODUCT.

The direct vendor makes no warranty or representation, expressed or implied with respect to the contents or use of this documentation, and especially disclaims its quality, performance, merchantability, or fitness for any particular purpose.

The direct vendor also reserves the right to revise or update the product or documentation without obligation to notify any user or organization of such revisions or updates. For further information, please contact your direct vendor.

All the brand names and registered trademarks are the property of their respective owners.