



# User Manual

## *Desktop KVM switch series*

VGA Series :	AD-V21L/ AD-V41L
DVI Series :	AD-D21L/ AD-D41L
HDMI Series :	AD-H21L/ AD-H41L
Display Port Series :	AD-DP21L/ AD-DP41L
Multi-Channel HDMI Series :	AD-H22L/ AD-H42L
Multi-Channel Display Port Series :	AD-DP22L/ AD-DP42L
Pro series (USB 3.0) Series :	AD-H21PL/ AD-H41PL
	AD-H22PL / AD-H42PL

Version : 22.1.3



## NOTE

### US Federal Communications Commission Interference Statement

This product has been tested and found to comply with rules in Section 15 of the FCC Rules Class B (Class B) digital device and FCC specifications. These specifications are intended to be used in a commercial environment, to protect them from harmful interference, and to provide effective protection. This equipment generates and radiates electromagnetic waves and, if not installed and used in accordance with the instructions in this manual, may cause interference to radio communications equipment. However, there is no guarantee that interference will not occur in a particular installation. If the device is turned on or off causing interference from radio and television reception, users should try the following to reduce interference.

- Change direction and move the receiving antenna.
- Increase the distance between the device and the receiver.
- Connect the device to the circuit exit (the interface to which the receiver is not connected).
- Please ask your dealer and an experienced radio / TV technician for help.

**FCC warning:** Any changes or modifications made to the device by the responsible party will result in the user losing the authority to operate the device.

**CE warning:** This product is B Class products. In a domestic environment, this product may cause radio interference, and the user may be required to take appropriate precautions.



### RoHS

This product is RoHS compliant.



# User considerations

The manufacturer has the right to modify and change the information, documents and specifications contained in the manual without prior notice. The manufacturer does not warrant, express, imply or statutorily declare its contents or specifically disclaims its merchantability and fitness for a particular purpose.

Any of the manufacturer's software described in this manual that is sold and licensed. If the software program is found to be defective after purchase, the purchaser (and non-manufacturer, its distributor or its purchaser) will be responsible for all necessary services, repairs and any accidental or consequential damages caused by the software.

The manufacturer is not responsible for any unauthorized adjustments to the radio and / or television interference caused by this equipment, and the user must correct the interference.

If the operating voltage setting is not correctly selected before operation, the manufacturer will not be liable for any damage caused.

**Be sure to confirm that the voltage is set correctly before use. This product does not have a power supply. If the power supply is required in a special environment, the customer can configure it according to the product power interface (power supply socket specification 5.5mm\*2.1mm) and the power socket printing parameters.**

**Product model description:**

<b>Model</b>	<b>Configuration instructions</b>
AD-V21L	2 groups of controlled interface VGA+ audio +MIC+USB (keyboard, mouse, USB flash drive, printer, etc.), a set of local control interface, a front USB interface, support hotkey switching and panel button switching control.
AD-V41L	4 groups of controlled interface VGA + audio + MIC + USB (keyboard, mouse, U disk, printer, etc.), a set of local control interface, a front USB interface, support hotkey switching and panel button switching control.
AD-D21L	2 groups of controlled interface DVI + audio + MIC + USB (keyboard, mouse, U disk, printer, etc.), a set of local control interface, a front USB interface, support hotkey switching and panel button switching control.
AD-D41L	4 groups of controlled interface DVI + audio + MIC + USB (keyboard, mouse, U disk, printer, etc.), a set of local console interface, a front USB interface, support hotkey switching and panel button switching control.
AD-H21L	2 groups of controlled interface HDMI + audio + MIC + USB (keyboard, mouse, U disk, printer, etc.), a set of local control interface, a front USB interface, support hotkey switching and panel button switching control.
AD-H41L	4 groups of controlled interface HDMI + audio + MIC + USB (keyboard, mouse, U disk, printer, etc.), a set of local console interface, a front USB interface, support hotkey switching and panel button switching control.
AD-DP21L	2 groups of controlled interface DP+ audio +MIC+USB (keyboard, mouse, USB flash drive, printer, etc.), a set of local control interface, a front USB interface, support hotkey switching and panel button switching control.
AD-DP41L	4 groups of controlled interface DP+ audio +MIC+USB (keyboard, mouse, USB flash drive, printer, etc.), a set of local control interface, a front USB interface, support hotkey switching and panel button switching control.
AD-H22L	2 groups of controlled interface HDMI*2 +audio + MIC + USB (keyboard, mouse, U disk, printer, etc.), a set of local control terminal interfaces, a front USB interface, support hot key switching and panel button switching control.
AD-H42L	4 groups of controlled interface HDMI*2+audio+MIC+USB (keyboard, mouse, U disk, printer, etc.), a set of local control terminal interfaces, a front USB interface, support hot key switching and panel button switching control.
AD-DP22L	2 groups of controlled interface DP*2+audio+MIC+USB (keyboard, mouse, U disk, printer, etc.), a set of local control terminal interfaces, a front USB interface, support hot key switching and panel button switching control.
AD-DP42L	4 groups of controlled interface DP*2+audio+MIC+USB (keyboard, mouse, U disk, printer, etc.), a set of local control terminal interfaces, a front USB interface, support hot key switching and panel button switching control.
AD-H21PL	2 sets of controlled terminal interface HDMI + audio + MIC + USB (keyboard, mouse, U disk, printer, etc.), one set of local control terminal interface, one front USB interface, 2 front USB3.0 interfaces, support hotkey switching and panel keys switch control.

AD-H41PL	4 sets of controlled terminal interfaces HDMI + audio + MIC + USB (keyboard, mouse, U disk, printer, etc.), one set of local control terminal interfaces, one front USB interface, 2 front USB3.0 interfaces, support hotkey switching And panel keys switch control.
AD-H22PL	2 sets of controlled terminal interface HDMI*4+audio+MIC+USB (keyboard, mouse, U disk, printer, etc.), one set of local control terminal interface, one front USB interface, 2 front USB3.0 interfaces, support Hot key switch and panel key switch control.
AD-H42PL	4 groups of controlled terminal interfaces HDMI*8 + audio + MIC + USB (keyboard, mouse, U disk, printer, etc.), a group of local control terminal interfaces, one front USB interface, 2 front USB3.0 interfaces, support Hot key switch and panel key switch control.

### Package Contents:

The multi-computer KVM switch package includes the following:

- 1pcs KVM switch
- 2 sets of custom KVM connection cables (for KVM 2 ports) or
- 4 sets of custom KVM connection cables (for KVM 4 ports)
- 1 user manual (or CD)

Check that all parts are in place and that they are not damaged in transit. If you encounter problems, please contact your dealer.

To prevent damage to the machine or equipment connected to the machine, please read this manual carefully and follow the instructions for installation and operation.

\* Since the publication of this manual, there may be new product features. Please visit our website to download the latest version of the user manual.

# Contents

- [About this manual](#)
- [Common language description](#)
- [Chapter One](#)
- [Introduction](#)
  - [Product description](#)
  - [Product Features](#)
    - [Operating system](#)
  - [Component](#)
    - [Front view](#)
    - [Rear view](#)
- [Chapter two](#)
- [Hardware installation](#)
  - [Cable connection and installation](#)
- [Chapter Three](#)
- [Basic operation](#)
  - [Overview](#)
    - [Manual switching method](#)
    - [Keyboard combination hotkey switching method](#)
  - [Power off and restart](#)
- [Chapter Four](#)
- [Keyboard port operation](#)
  - [Overview](#)
  - [Hotkey combination](#)
- [Appendix](#)
  - [Safety Instructions](#)
- [Product specification](#)
- [Warranty conditions](#)

# About manual

This User Manual will assist you in the effective use of product features, including the installation, setup, and operation of your equipment. You can find out what is included in this manual from the following:

**Chapter One: Introduction** – This chapter describes the rack-mounted KVM device system, including its functions, features, and benefits, and describes and describes its front and rear panel components.

**Chapter Two: Hardware installation** – This section explains how to install this product.

**Chapter Three: Basic operation** – Explain the basic operational concept.

**Chapter Four: Keyboard Port Operation** - Describes the keyboard's hotkey combination operations and settings.

**Appendix** – Mainly provide specifications and other technical information about the relevant KVM switch.

## Common terms:

### Symbol Indicates the text information that should be entered

**【】** The keys that need to be entered are indicated in parentheses. For example, [ Enter ] Indicates that the Enter key is pressed. For keys that need to be entered at the same time, they are placed in the same parenthesis, and the keys are connected by a plus sign. For example: [ Ctrl ]

1. The number indicates the actual sequence number of the operation steps.
- ◆ A diamond symbol indicates that information is provided for reference, but is not related to the operational steps.
  - ◆ The origin symbol indicates the classification sub-item information, regardless of the operation steps.

## Product information

To find out more about our KVM product information and how to use it more efficiently, you can go to our website or contact an authorized reseller for more contact information.

# Chapter I

## Introduction

### Product description

As a KVM switch, The KVM switch allows users to access from a single console station with keyboard, mouse, and VGA, DVI, HDMI, DP display to access 2/4 computers.

As a USB hub, it allows each computer (one computer at a time) to access the connected peripherals. KVM Switch installation is quick and easy, just plug the cable into the correct port. No software settings are required, no installation procedures and no compatibility issues.

Desktop compact design, metal casing, easy to install and place to provide a variety of video interface options, to provide users with a variety of fast switching options for audio, video, USB devices, saving desktop space, is a multimedia application such as SOHO office Ideal.

### Product Features

- 2/4 port USB2.0/USB3.0 multiple video series KVM switch
- Single USB port controls 2 or 4 sets of computers and peripherals USB
- Built-in USB3.0 or USB2.0 hub, compatible with USB protocol specification
- The maximum supported resolution of VGA video is 1920\*1080@60HZ (1080P )
- DVI video dual channel support resolution is 2560x1440 @60HZ ( 2K )
- HDMI video maximum support resolution is 4K@30fp or 60fp (P version)
- DP video maximum support resolution is 4K@60fp
- Provide keyboard hotkey switching shortcut function and device panel button for manual selection
- Support multiple platforms for various operating systems
- BIOS level hardware connection, no need to install drivers and control software
- The front panel of the device has an extended USB interface, which is convenient for users to connect peripheral devices such as a USB keyboard, computer mouse, USB flash drive or USB printer.
- Provide a variety of hotkey selection and setting functions, so that users can set their own hotkeys according to the situation.



- Automatically scans the connected computer.

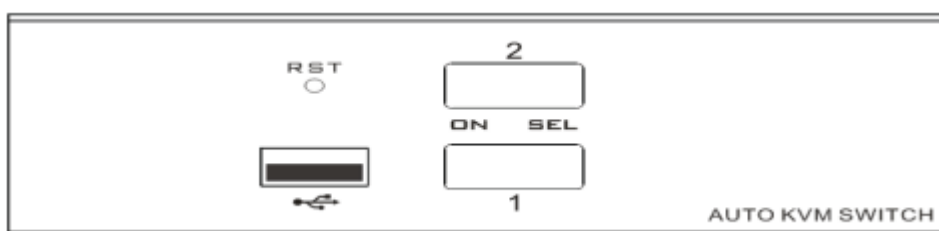
## Operating system

- ◆ Operating systems supported by remote users' computers include Windows XP and above
- ◆ The operating systems supported by the server connected to the switch are shown in the following table:

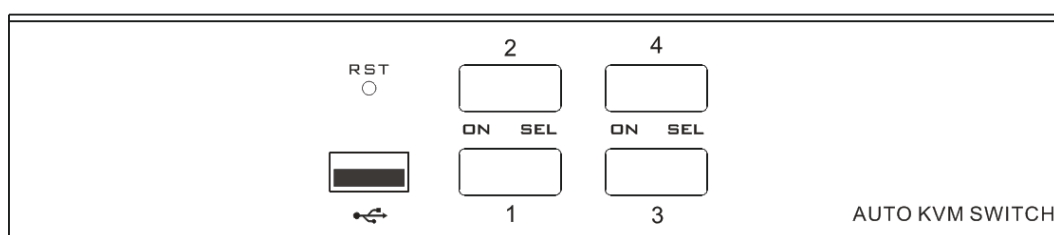
Operating system		Version
Windows		Windows 2000/XP/2003/200 8 /Vista/7/10
Linux	RedHat	9.0 or higher
	SuSE	10/11.1 or higher
	Debian	3.1/4.0
	Ubuntu	7.04/7.10
UNIX	AIX	4.3 or higher
	FreeBSD	5.5 or higher
	Sun Solaris	8 or higher
Mac		OS 9.0 to 10.6 (Snow Leopard)
Novell	Netware	6.0 or higher

## Components front view

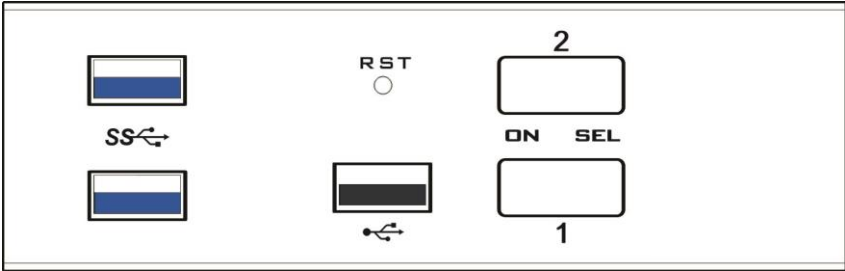
AD-V21L / AD-D21L / AD-DP21L/ AD-DP22L / AD-H21L / AD-H22L



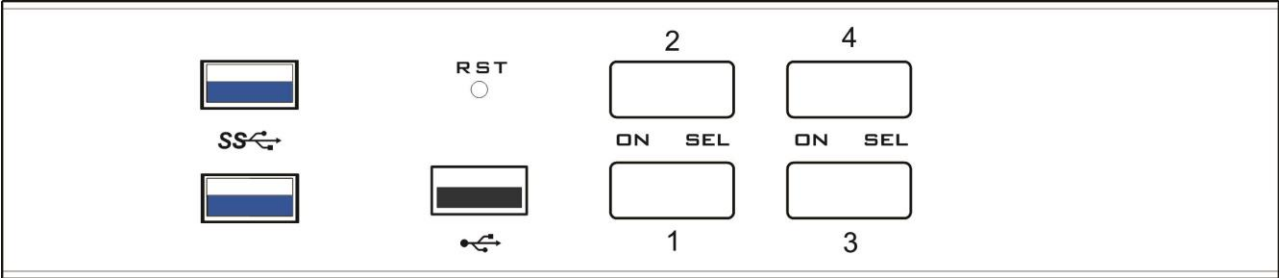
AD-V41L/AD-D41L/AD-DP41L/AD-DP42L/AD-H41L/AD-H42L



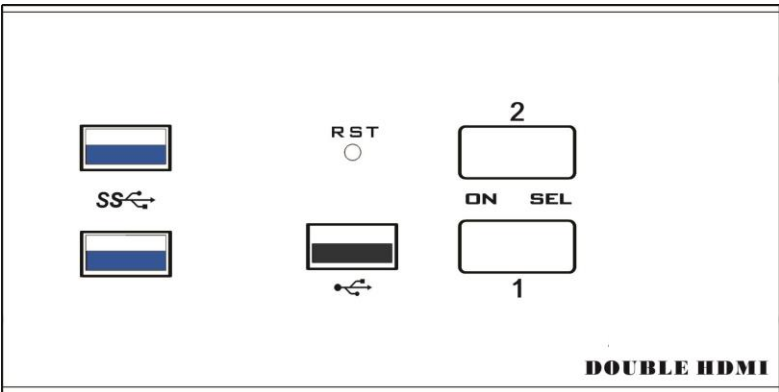
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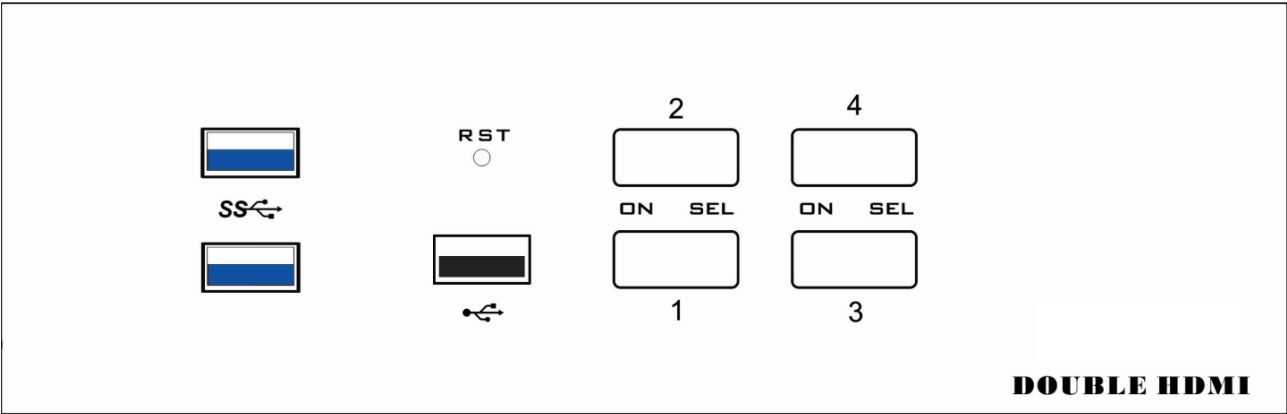
AD-H41PL



AD-H22PL

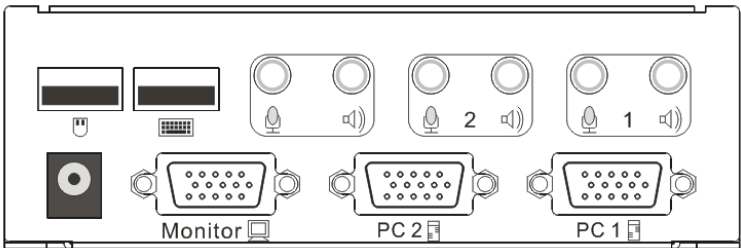


AD-H42PL

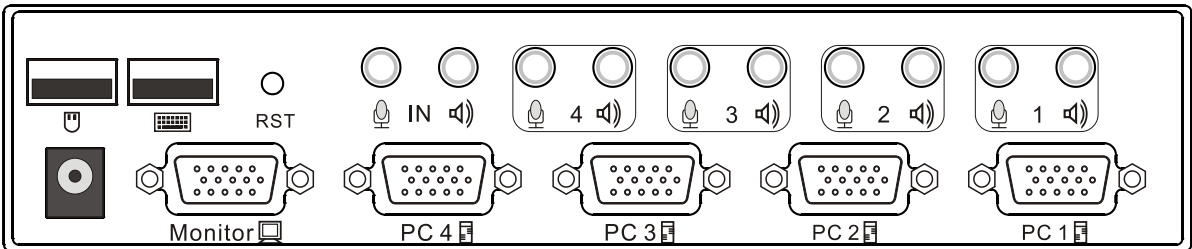


Rear view

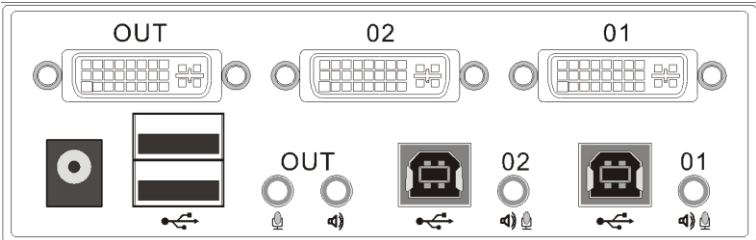
AD-V21L



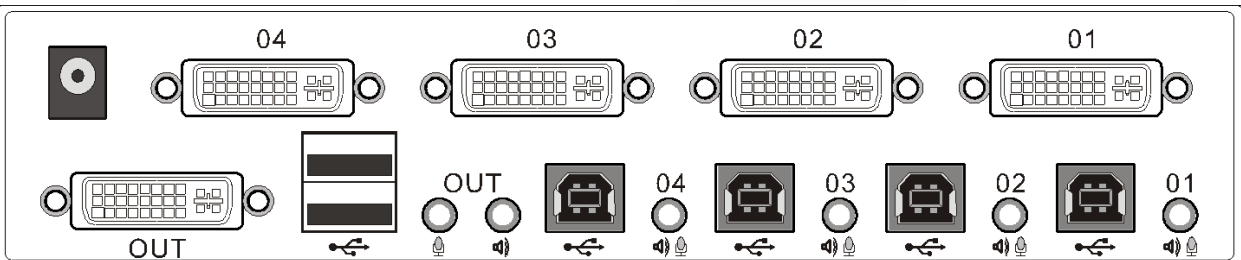
AD-H41L



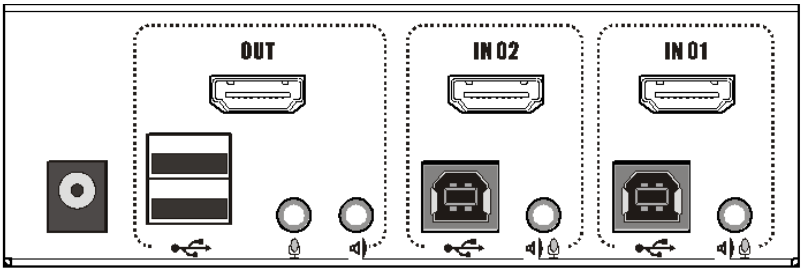
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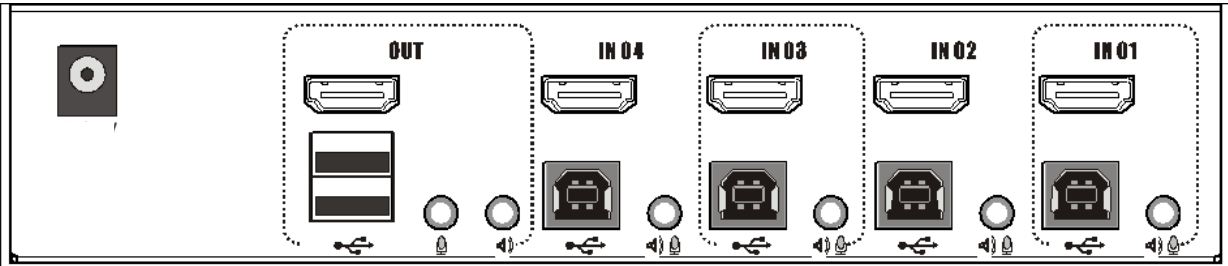
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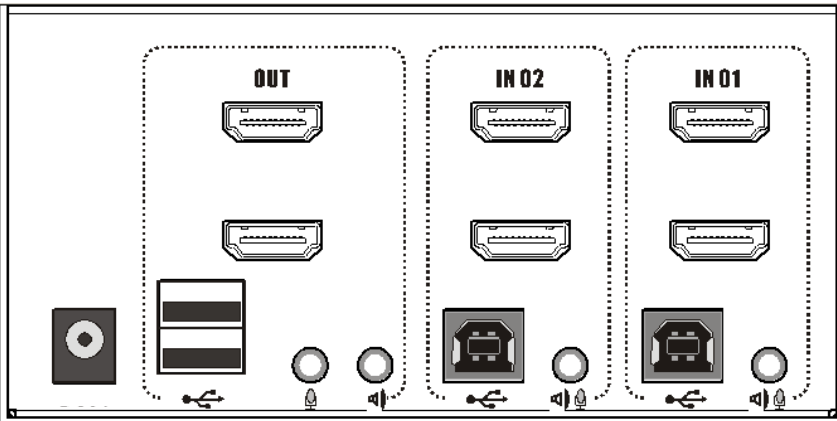
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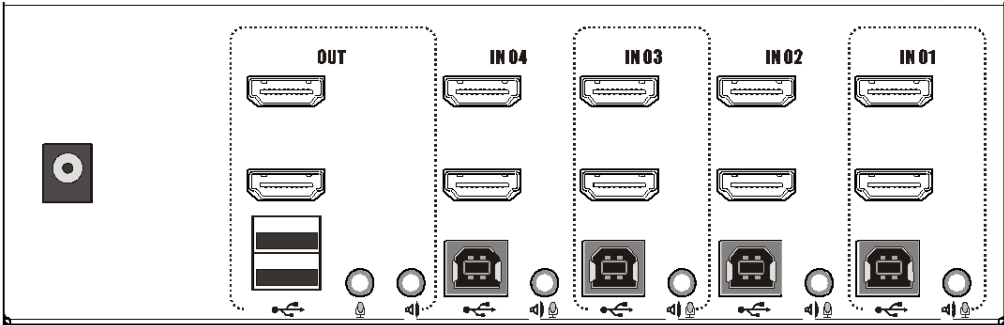
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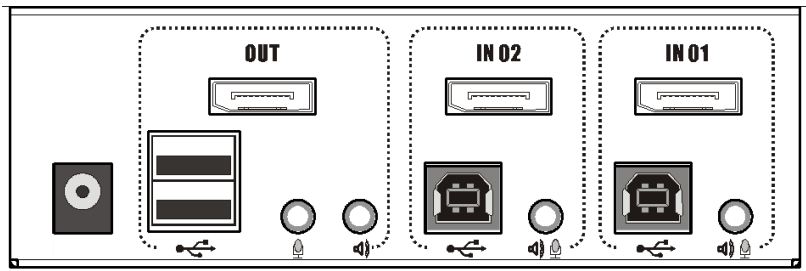
AD-H22L



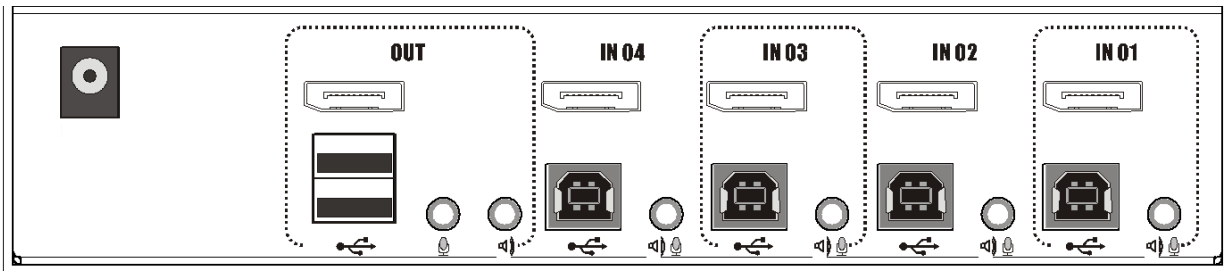
AD-H42L



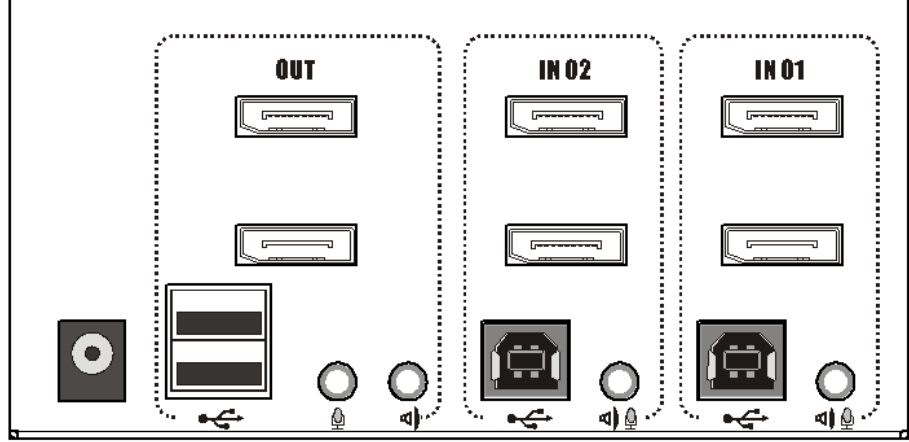
AD-DP21L



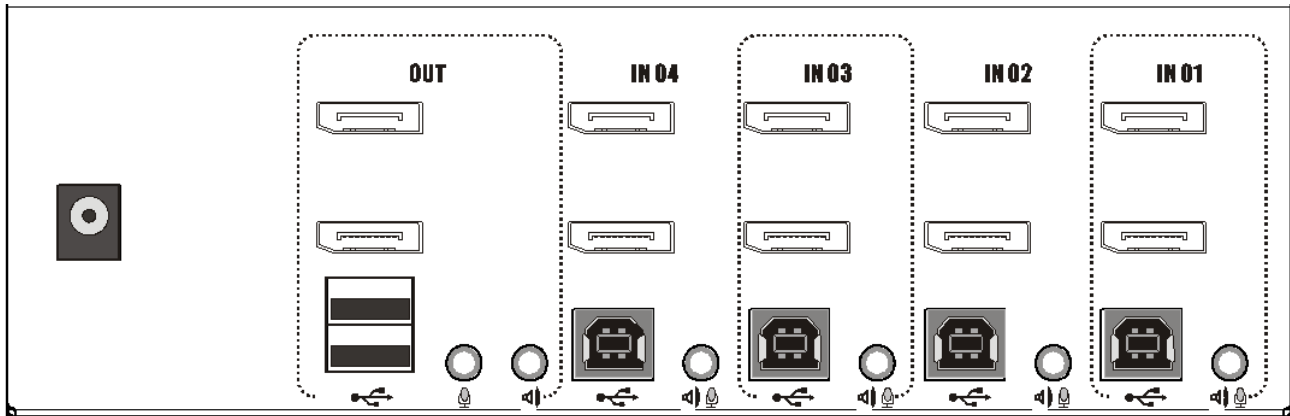
AD-DP41L



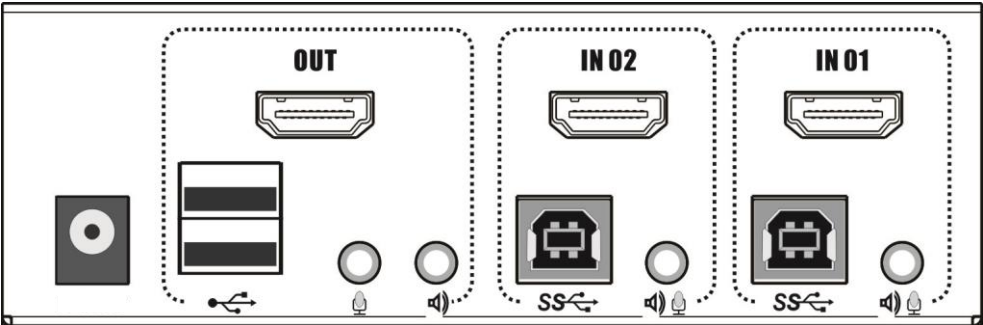
AD-DP22L



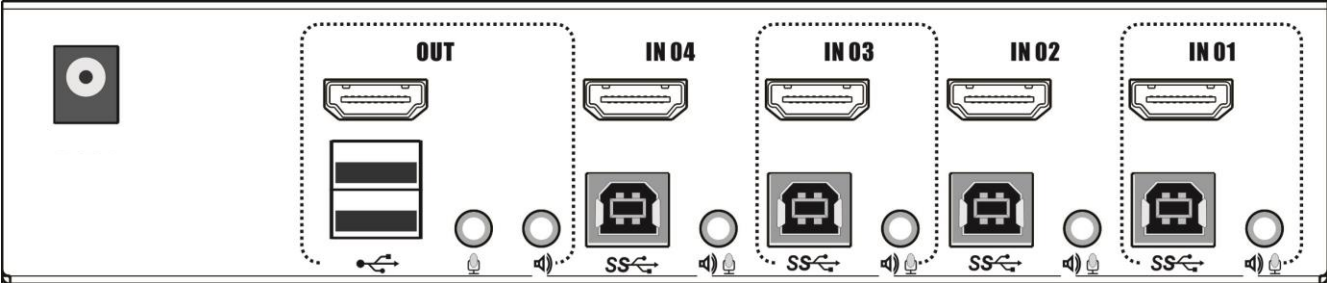
AD-DP42L



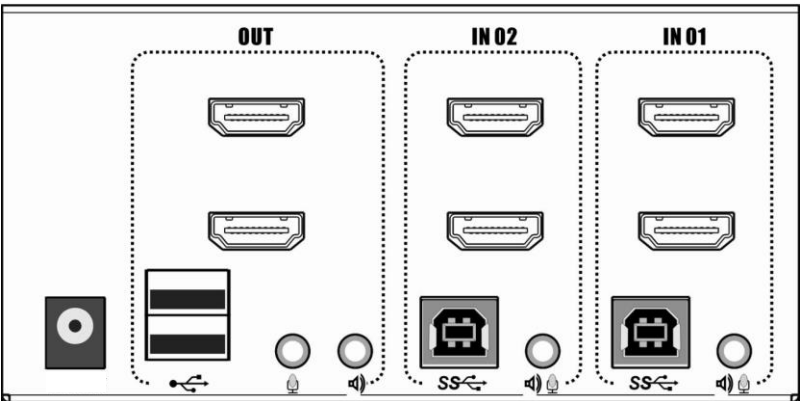
AD-H21PL



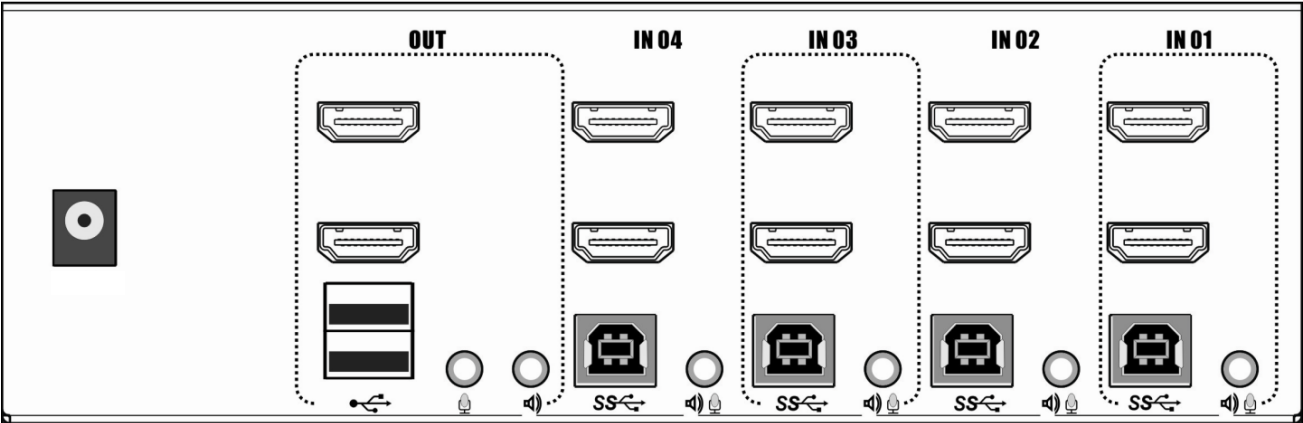
AD-H41PL



AD-H22PL



AD-H42PL



Power input port – Back up power port for user to connect Power Adapter in case power from USB is not provided. Please use the correct voltage adapter to prevent short circuit.



Local USB keyboard and mouse input interface



Front USB interface, you can connect mouse and keyboard, U disk storage device and printer.



For the computer side B type USB connection interface



For the integrated audio and MIC interface, you need to configure our company's dedicated cable



Output interface for local MIC



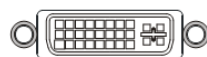
Local audio output interface



Local display VGA output interface



KVM port interface, it must connected to the dedicated KVM cable provided with the KVM Switch.



For DVI video interface



For HDMI video interface



For DP video interface



# Chapter II

## Hardware installation

### Cable connection and installation

KVM switches can be placed on any stable surface and is sufficient to support the weight of the device plus the additional cables. Clean and make sure that no other plane debris would affect the switch ventilation and normal operation.

For a 2/4- port desktop KVM device, follow these steps:

1. Plug the USB keyboard and USB mouse into the USB console port on the rear panel of the device.
2. Use the VGA, DVI, HDMI, DP connector to plug into the console video port on the rear panel of the device.
3. If you use a separate speaker and microphone, plug it into the console analog audio port on the rear panel of the device.
4. With a custom KVM cable set, plug in the KVM cable connector and the included USB connector into the corresponding jacks on the rear panel of the switch.
5. Put the other end of the cable, plug the USB cable into the corresponding USB and video connector to the graphics video interface on your computer.
6. Insert the USB peripheral into the Type A jack (one on the front panel) when needed.
7. Turn on the console monitor.
8. The KVM Switch is powered by USB port from connected computer. The computer boots up and powered the KVM switch unit. Connect power adapter to power outlet if you use back up power
9. Turn on your computer.

# Chapter III

## Basic operation

### Overview

There are two ways for the KVM switch to change the port to the connected computer: Combination hotkey on the USB keyboard or the manual switch operation on the front of the KVM device.

### Manual switching method

The user only needs to press the corresponding touch button on the front panel of the KVM, and the buzzer will sound a tone indicating that the switch port is successful. The USB, audio and video signals of the corresponding port will be switched to the corresponding port on the local port.

### Hotkey switching method

Users can use the keyboard connected to the USB interface on the KVM device to perform hotkey operation. For details, please refer to the detailed description in the following sections.

### Power off and restart

If it is necessary to turn off the power to the device, before turning the device back on, you must do the following:

1. Unplug the data cable from all the computers connected to the switch.
2. Unplug the power adapter cable from the switch.
3. Wait 10 seconds, if there is power, plug the power adapter cable back into the switch.
4. Then connect the computer data cable and turn on the computer.

# Chapter IV

## Keyboard operation

### Overview

The KVM product in this desktop series offers many easy hotkey operations, making it easy to set up KVM via the keyboard or to complete port switching.

### Hotkey setting:

This series of products provides 4 combinations of hotkeys for user selection and setting. The default hotkey is [ CTL ] + [ CTL ] (left) to switch to the next online port, [ CTL ] + [ SHIFT ] + [ 1 ] or [ 2 ] [ 3 ] [ 4 ] Switch to the specified port. The following table is a description of the four hotkey combinations, please check the settings when using the user:

#### 1. [ CTL ] + [ SHIFT ] mode

Hotkey combination	Description
【 CTL 】 + 【 CTL 】	Switch to the next device online port
【 CTL 】 + 【 SHIFT 】 + 【 1 】 or [ 2 ] [ 3 ] [ 4 ]	Switch to the computer corresponding to the port of [ 1 ] [ 2 ] [ 3 ] [ 4 ]
[ CTL ] + [ SHIFT ] + [ → ] or [ ↓ ]	Switch to the next computer
[ CTL ] + [ SHIFT ] + [ ← ] or [ ↑ ]	Switch to the previous computer
【 CTL 】 + 【 SHIFT 】 + 【 B 】	Buzzer on or off
【 CTL 】 + 【 SHIFT 】 + 【 S 】	Automatic switching mode, the default is 5seconds, press [ ESC ] to exit
【 CTL 】 + 【 SHIFT 】 + 【 S 】 + 【 N 】	Set the automatic switching mode interval, press [ ESC ] to exit
【 CTL 】 + 【 SHIFT 】 + 【 SCROLL 】	Switch to [ SCROLL ] + [ SCROLL ] hotkey combination mode
[ CTL ] + [ SHIFT ] + [ NUM ]	Switch to [ NUM ] + [ NUM ] hotkey combination mode
【 CTL 】 + 【 SHIFT 】 + 【 CAPS 】	Switch to [ CAPS ] + [ CAPS ] hotkey combination mode

## 2. [ SCROLL ] + [ SCROLL ] mode

Hotkey combination	Description
【 SCROLL 】 + 【 SCROLL 】 + 【 1 】 or [ 2 ] [ 3 ] [ 4 ]	Switch to the computer corresponding to the port of [ 1 ] [ 2 ] [ 3 ] [ 4 ]
【 SCROLL 】 + 【 SCROLL 】 + 【 → 】 or [ ↓ ]	Switch to the next computer
[ SCROLL ] + [ SCROLL ] + [ ← ] or [ ↑ ]	Switch to the previous computer
【 SCROLL 】 + 【 SCROLL 】 + 【 B 】	Buzzer on or off
【 SCROLL 】 + 【 SCROLL 】 + 【 S 】	Automatic switching mode, the default is 5seconds, press [ ESC ] to exit
【 SCROLL 】 + 【 SCROLL 】 + 【 S 】 + 【 N 】	Set the automatic switching mode interval, press [ ESC ] to exit
【 SCROLL 】 + 【 SCROLL 】 + 【 CTL 】	Switch to [ CTL ] + [ CTL ] hotkey combination mode
【 SCROLL 】 + 【 SCROLL 】 + 【 NUM 】	Switch to [ NUM ] + [ NUM ] hotkey combination mode
【 SCROLL 】 + 【 SCROLL 】 + 【 CAPS 】	Switch to [ CAPS ] + [ CAPS ] hotkey combination mode

## 3. [ NUM ] + [ NUM ] mode

Hotkey combination	Description
[ NUM ] + [ NUM ] + [ 1 ] or [ 2 ] [ 3 ] [ 4 ]	Switch to the computer corresponding to the port of [ 1 ] [ 2 ] [ 3 ] [ 4 ]
[ NUM ] + [ NUM ] + [ → ] or [ ↓ ]	Switch to the next computer
[ NUM ] + [ NUM ] + [ ← ] or [ ↑ ]	Switch to the previous computer
【 NUM 】 + 【 NUM 】 + 【 B 】	Buzzer on or off
【 NUM 】 + 【 NUM 】 + 【 S 】	Automatic switching mode, the default is 5seconds, press [ ESC ] to exit
【 NUM 】 + 【 NUM 】 + 【 S 】 + 【 N 】	Set the automatic switching mode interval, press [ ESC ] to exit
【 NUM 】 + 【 NUM 】 + 【 SCROLL 】	Switch to [ SCROLL ] + [ SCROLL ] hotkey combination mode
【 NUM 】 + 【 NUM 】 + 【 CTL 】	Switch to [ CTL ] + [ CTL ] hotkey combination mode

## 4. [ CAPS ] + [ CAPS ] mode

Hotkey combination	Description
[ CAPS ] + [ CAPS ] + [ 1 ] or [ 2 ] [ 3 ] [ 4 ]	Switch to the computer corresponding to the port of [ 1 ] [ 2 ] [ 3 ] [ 4 ]
[ CAPS ] + [ CAPS ] + [ → ] or [ ↓ ]	Switch to the next computer
[ CAPS ] + [ CAPS ] + [ ← ] or [ ↑ ]	Switch to the previous computer
[ CAPS ] + [ CAPS ] + [ B ]	Buzzer on or off
[ CAPS ] + [ CAPS ] + [ S ]	Automatic switching mode, the default is 5seconds, press [ ESC ] to exit
[ CAPS ] + [ CAPS ] + [ S ] + [ N ]	Set the automatic switching mode interval, press [ ESC ] to exit
[ CAPS ] + [ CAPS ] + [ SCROLL ]	Switch to [ SCROLL ] + [ SCROLL ] hotkey combination mode
[ CAPS ] + [ CAPS ] + [ NUM ]	Switch to [ NUM ] + [ NUM ] hotkey combination mode
[ CAPS ] + [ CAPS ] + [ CTL ]	Switch to [ CTL ] + [ CTL ] hotkey combination mode

**Note:**

1. The detection time of each hotkey is 5 seconds. If you press [ CTL ] after 5 seconds, the key combination will be invalid input.
2. In the combination key, [ N ] represents the number key [ 1 ] ---- [ 9 ], the number of seconds in the time interval can be set, as shown in the following table:

Automatic switching interval	
N	second
1	5
2	10
3	15
4	20
5	25
6	30
7	35
8	40
9	60

# Appendix

## Safety Instructions

### General

- This product is for indoor use only.
- Please read all instructions and use them for future reference.
- Please follow all warnings and instructions on the device.
- Do not place the device on any uneven surface (such as a cart, shelf, table, etc.). If the device is dropped, it will create serious damage to the PCB Board inside.
- Do not use the device near water.
- Do not place this unit near or above the radiator or heating unit.
- The device housing is equipped with slots for heat dissipation and ventilation. To prevent overheating during operation, do not block or cover the openings.
- This device should not be placed on a soft surface (such as a bed, sofa, blanket, etc.), which would block the fan opening and should not be placed in a sealed environment unless proper ventilation has been provided.
- Do not spill any liquid on the device.
- The power of this unit must be removed from the wall outlet before cleaning. Do not use any liquid or foamy cleaning agent. Please use a damp cloth to clean it.
- Please use the device according to the type of power supply on the label. If you are not sure if the power type is available, please contact your dealer or local power company.
- This equipment is designed for IT power distribution systems with phase-to-phase voltages from 100V to 230V.
- To prevent damage to your device, it is important that all equipment is properly grounded.
- Do not place anything on the power cord or cable, arrange the power cord and cable routing to avoid tripping over it.
- If the device uses an extension cord, make sure that the total charge of all products using the cord does not exceed the current carrying capacity of the cord. Ensure that the total of all products plugged into the wall outlet is not more than 15 A.
- Use a surge suppressor, regulator, or uninterruptible power system ( UPS ) to help protect your system from sudden, transient increases and decreases in power.
- Please properly fix the system cable and power cord to ensure that nothing is pressed against the cable.

- Do not insert any objects into the machine through the slots in the casing. There is a risk of contact with dangerous voltage points or short-circuiting parts that could result in fire or electric shock.
- Do not attempt to repair this equipment yourself. Please find a qualified service person to obtain support services.
- If the following conditions occur, unplug the unit from the wall outlet and have it handed over to a qualified service person for repair.
  - Damaged or worn power cord or plug
  - Liquid is spilled into the device
  - The device is drenched by rain and water.
  - The device has been dropped or the casing has been damaged.
  - Significant changes in the functionality of this device
  - The device does not operate normally after following the operating instructions.
- Adjustments are only made to the control functions covered in the operating instructions, and other improper operations may cause damage, so that a larger work of qualified personnel is required to repair.

# Product specification

Type			AD-V21L	AD-V41L
Computer connections			2	4
Port selection			Front panel buttons/Hotkey	
Connector	Control port	monitor	1 x VGA DB15 blue Female	
		keyboard	1 x USB Type A female	
		mouse	1 x USB Type A female	
		speaker	1 x Mini stereo jack green Female	
		microphone	1 x Mini stereo jack powder Female	
	Computer port	monitor	2 x VGA DB15 blue Female	4 x VGA DB15 blue Female
		keyboard & mouse	2 x USB Type A black Female	4 x USB Type A black Female
		speaker & microphone	2 x Mini stereo jack female (green) 2 x Mini stereo jack female (pink)	4 x Mini stereo jack female (green) 4 x Mini stereo jack female (pink)
	Power Slot		1 x DC socket (Power supply is optional)	
Toggle switch	KVM switch button	2 x button	4 x button	
LED's	Online	2 x red LED	4 x red LED	
	Selected	2 x green LED	4 x green LED	
Analog mode	Keyboard & mouse	USB		
Maximum resolution video			1920x1200@60HZ(1080P)	
Hotkey			CTL+CTL	
Operating environment	Operating temperature		0-50 °C	
	Storage temperature		-20-60 °C	
	Humidity		0-80% RH , no condensation	
Housing	House		metal	
	Size		132 x 92 x 44mm	202 x 110 x 44mm
	Weight		0.53Kg	0.76Kg



Type			AD-D21L		AD-D41L	
Computer connections			2		4	
Port selection			Front panel buttons/Hotkey			
Connector	Control Port	monitor	1 x DVI-Dual Link white Female			
		keyboard	1 x USB Type A female			
		mouse	1 x USB Type A female			
		speaker	1 x Mini stereo jack Female(green)			
		microphone	1 x Mini stereo jack Female(pink)			
	Computer port	monitor	2 x DVI-Dual Link Female		4 x DVI-Dual Link Female (white)	
		keyboard & mouse	2 x USB Type B Female (white)		4 x USB Type B Female (white)	
		speaker & microphone	2 x Mini stereo jack Female (black)		4 x Mini stereo jack Female (black)	
	Power Slot		1 x DC socket (Power supply is optional)			
Toggle switch	KVM switch button		2 x light touch button		4 x light touch button	
LED's	online		2 x red		4 x red	
	Selected		2 x green		4 x green	
Analog mode	Keyboard and mouse		USB			
Maximum resolution video			2560x1440 @ 60HZ ( 2K )			
Hotkey			CTL+CTL			
Operating environment	Operating temperature		0-50 °C			
	Storage temperature		-20-60 °C			
	Humidity		0-80% RH , no condensation			
Housing	House		metal			
	Size		132 x 92 x 44mm		202 x 110 x 44mm	
	Weight		0.51Kg		0.79Kg	

Features			AD-H21L	AD-H41L
Computer connections			2	4
Port selection			Front panel buttons/Hotkey	
Connector	Control port	monitor	1 x HDMI Type A black Female	
		keyboard	1 x USB Type A female	
		mouse	1 x USB Type A female	
		speaker	1 x Mini stereo jack female(green)	
		microphone	1 x Mini stereo jack female(pink)	
	Computer port	monitor	2 x HDMI Type A female (black)	4 x HDMI Type A female (black)
		keyboard and mouse	2 x USB Type B female (white)	4 x USB Type B female (white)
		speaker & microphone	2 x Mini stereo jack female (black)	4 x Mini stereo jack female (black)
	Power Slot		1 x DC socket (Power supply is optional)	
Toggle switch	KVM switch button	2 x button	4 x button	
LED's	online	2 x red	4 x red	
	Selected	2 x green	4 x green	
Analog mode	Keyboard and mouse	USB		
Maximum resolution video			4K@30HZ(3840x2160 @30HZ)	
Hotkey			CTL+CTL	
Operating environment	Operating temperature		0-50 °C	
	Storage temperature		-20-60 °C	
	Humidity		0-80% RH , no condensation	
Housing	House		metal	
	Size		132 x 92 x 44mm	202 x 110 x 44mm
	Weight		0.48Kg	0.78Kg

Features			AD-H22L	AD-H42L
Computer connections			2	4
Port selection			Front panel buttons/Hotkey	
Connector	Control port	monitor	1 x HDMI Type A black Female	
		keyboard	1 x USB Type A female	
		mouse	1 x USB Type A female	
		speaker	1 x Mini stereo jack female(green)	
		microphone	1 x Mini stereo jack female(pink)	
	Computer port	monitor	4 x HDMI Type A female (black)	8 x HDMI Type A female (black)
		keyboard and mouse	2 x USB Type B female (white)	4 x USB Type B female (white)
		speaker & microphone	2 x Mini stereo jack female (black)	4 x Mini stereo jack female (black)
	Power Slot		1 x DC socket (Power supply is optional)	
Toggle switch	KVM switch button	2 x button	4 x button	
LED's	online	2 x red	4 x red	
	Selected	2 x green	4 x green	
Analog mode	Keyboard and mouse	USB		
Maximum resolution video			4K@30HZ (3840x2160 @30HZ)	
Hotkey			CTL+CTL	
Operating environment	Operating temperature		0-50 °C	
	Storage temperature		-20-60 °C	
	Humidity		0-80% RH , no condensation	
Housing	House		metal	
	Size		132 x 92 x 66mm	202 x 110 x 66mm
	Weight		0.58Kg	0.92Kg

Type			AD-DP21L	AD-DP41L
Computer connections			2	4
Port selection			Front panel buttons/Hotkey	
Connector	Control port	monitor	1 x DP Type A black Female	
		keyboard	1 x USB Type A female	
		mouse	1 x USB Type A female	
		speaker	1 x Mini stereo jack female (green)	
		microphone	1 x Mini stereo jack female (pink)	
	Computer port	monitor	2 x DP Type A female (black)	4 x DP Type A female (black)
		Keyboard & mouse	2 x USB Type B female (white)	4 x USB Type B female (white)
		Speaker & microphone	2 x Mini stereo jack female (black)	4 x Mini stereo jack female (black)
	Power Slot		1 x DC socket (Power supply is optional)	
Toggle switch	KVM switch button	2 x button	4 x button	
LED's	Online	2 x red	4 x red	
	Selected	2 x green	4 x green	
Analog mode	Keyboard & mouse	USB		
Maximum resolution video			4K @ 60HZ( 3840x2160 @60HZ)	
Hotkey			CTL+CTL	
Operating environment	Operating temperature		0-50 °C	
	Storage temperature		-20-60 °C	
	Humidity		0-80% RH , no condensation	
Housing	House		metal	
	Size		132 x 92 x 44mm	202 x 110 x 44mm
	Weight		0.50Kg	0.76Kg

Type			AD-DP22L		AD-DP42L	
Computer connections			2		4	
Port selection			Front panel buttons/Hotkey			
Connector	Control port	monitor	2 x DP Type A black Female			
		keyboard	1 x USB Type A female			
		mouse	1 x USB Type A female			
		speaker	1 x Mini stereo jack female (green)			
		microphone	1 x Mini stereo jack female (pink)			
	Computer port	monitor	4 x DP Type A female (black)		8 x DP Type A female (black)	
		Keyboard & mouse	2 x USB Type B female (white)		4 x USB Type B female (white)	
		Speaker & microphone	2 x Mini stereo jack female (black)		4 x Mini stereo jack female (black)	
	Power Slot		1 x DC socket (Power supply is optional)			
Toggle switch	KVM switch button		2 x button		4 x button	
LED's	Online		2 x red		4 x red	
	Selected		2 x green		4 x green	
Analog mode	Keyboard & mouse		USB			
Maximum resolution video			4K @ 60HZ (3840x2160 @60HZ)			
Hotkey			CTL+CTL			
Operating environment	Operating temperature		0-50 °C			
	Storage temperature		-20-60 °C			
	Humidity		0-80% RH , no condensation			
Housing	House		metal			
	Size		132 x 92 x 66mm		202 x 110 x 66mm	
	Weight		0.50Kg		0.76Kg	

Features			AD-H21PL	AD-H41PL
Computer connections			2	4
Port selection			Front panel buttons/Hotkey	
Connector	Control port	monitor	1 x HDMI Type A black Female	
		keyboard	1 x USB Type A female	
		mouse	1 x USB Type A female	
		speaker	1 x Mini stereo jack female(green)	
		microphone	1 x Mini stereo jack female(pink)	
		USB3.0	2 x USB3.0 Type A Blue Female	
	Computer port	monitor	2 x HDMI Type A female (black)	4 x HDMI Type A female (black)
		keyboard and mouse	2 x USB Type B female (white)	4 x USB Type B female (white)
		speaker & microphone	2 x Mini stereo jack female (black)	4 x Mini stereo jack female (black)
Power Slot		1 x DC socket (Power supply is optional)		
Toggle switch	KVM switch button	2 x button	4 x button	
LED's	online	2 x red	4 x red	
	Selected	2 x green	4 x green	
Analog mode	Keyboard and mouse	USB		
Maximum resolution video			4K@60HZ(3840x2160 @30HZ)	
Hotkey			CTL+CTL	
Operating environment	Operating temperature		0-50 °C	
	Storage temperature		-20-60 °C	
	Humidity		0-80% RH , no condensation	
Housing	House		metal	
	Size		132 x 92 x 44mm	202 x 110 x 44mm
	Weight		0.48Kg	0.78Kg

Features			AD-H22PL	AD-H42PL
Computer connections			2	4
Port selection			Front panel buttons/Hotkey	
Connector	Control port	monitor	1 x HDMI Type A black Female	
		keyboard	1 x USB Type A female	
		mouse	1 x USB Type A female	
		speaker	1 x Mini stereo jack female(green)	
		microphone	1 x Mini stereo jack female(pink)	
		USB3.0	2 x USB3.0 Type A Blue Female	
	Computer port	monitor	4 x HDMI Type A female (black)	8 x HDMI Type A female (black)
		keyboard and mouse	2 x USB Type B female (white)	4 x USB Type B female (white)
		speaker & microphone	2 x Mini stereo jack female (black)	4 x Mini stereo jack female (black)
Power Slot		1 x DC socket (Power supply is optional)		
Toggle switch	KVM switch button	2 x button	4 x button	
LED's	online	2 x red	4 x red	
	Selected	2 x green	4 x green	
Analog mode	Keyboard and mouse	USB		
Maximum resolution video			4K@60HZ(3840x2160 @30HZ)	
Hotkey			CTL+CTL	
Operating environment	Operating temperature		0-50 °C	
	Storage temperature		-20-60 °C	
	Humidity		0-80% RH , no condensation	
Housing	House		metal	
	Size		132 x 92 x 66mm	202 x 110 x 66mm
	Weight		0.58Kg	0.92Kg

## Warranty conditions

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