Manual

HDMI KVM Switch
AS-21HA
AS-41HA
AS-22HA
AS-42HA

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1 Important Information

1.1 Introduction

Thank you for buying an HDMI Desktop KVM Switch.

To enjoy this product for a long time we recommend to read this manual carefully and especially paying attention to the security advices.

1.2 Scope of delivery

1x KVM Switch

1x QIG with safety instructions

1x CD with manual

Cable:

AS-21HA	2x HDMI + 2x USB +2 Speaker + 2 Micro
AS-41HA	2x HDMI + 4x USB +4 Speaker + 4 Micro
AS-22HA	4x HDMI + 2x USB +2 Speaker + 2 Micro
AS-42HA	8x HDMI + 4x USB + 4 Speaker + 4 Micro

The HDMI Cable between KVM-Switch and monitor/s is not included.

1.3 General information

Symbols

Symbol	Meaning
	Handling and effects of safety instructions
	Dangerous situation, which can retighten violation or death
	Possible damage of property and other important information.

2 Safety

2.1 Intended use

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2.1.1 Environmental

This product is only for indoor use and connecting of computers.

Don´t use and store it inside humid rooms or near water.

Don´t use it close to source of heat. The additional heat could lead to overheating and fire.

2.1.2 Disposal

Don´t put this device to normal waste.

Please read the instruction in chapter 8 for disposal of packaging and device.

2.2 General information

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Please read this manual carefully before installing or using this product.

Keep this manual and pass it by passing of the product.

Please follow the instructions and warning of this manual before using the product.

The inobservance of this manual can effect violations and damage.

We disclaim liability for violations and damages caused by inobservance of this manual.

2.3 Danger and protection

Don´t damage the cable.

Don´t use patched or damaged cable.

Don´t put the device close to heating.

In case of strange noise or smell pull the power cord out of the socket.

Don´t open the device.

Please ensure, that all cables will be fixed permanently.

Keep the product away from children.

Don´t remove the cable with wet hands (electric strike).

Don´t use the product with wet hands (electric strike).

Flammable

Please remove the power cord from socket in case of longer non-use (Could led to overheating, fire hazard or electric strike).

Keep the product free of dust (Overheating or fire).

Look for sufficient airflow to avoid overheating and fire.

Leave service or cleaning only authorized qualified personnel.

3 Product information

3.1 Features

- Connects 2 or 4 computers with one keyboard and mouse and with one or two monitors (depending model).
- Auto scan function
- Supports HDCP
- Easy Installation
- Full support for keyboard and mouse over USB.
- Switching by Hot-Keys or directly.
- LED Indicators for selection and connection.
- No software necessary.
- Compatible to all OS.

3.2 Technical data

	AS-21HA	AS-41HA	AS-22HA	AS-42HA
PC-ports	2	4	2	4
Consoles	1			
HDMI Version	HDMI 1.4b			
Resolution	HDMI max: 4K@30Hz (3840x2610@30Hz) VGA max: 1920x1200@60Hz (1080p) – only with opt. adapter DVI max: DVI-Dual Link 2K – only with opt. adapter DP max: 4K@60Hz – only with opt. adapter			
HDCP support	Ja			
Sound	Dolby True HD DTS HD Master Audio			
Port-control	Control keys Hot keys			
USB Emulation	Keyboard/ Mouse			
	AS-21HA	**AS-41HA**	**AS-22HA**	**AS-42HA**
Front connector	USB Printer / HDD			

PC connectors	2x HDMI Type AF 2x USB Type BF 2 x Speaker 2 x Micro	4x HDMI Type AF 4x USB Type BF 4 x Speaker 4 x Micro	4x HDMI Type AF 2x USB Type BF 2 x Speaker 2x Micro	8x HDMI Type AF 4x USB Type BF 4x Speaker 4x Micro
Console connectors	1x HDMI Type AF 2x USB Type AF 1 x Mini Stereo Jack A		2x HDMI Type AF 2x USB Type AF 1 x Mini Stereo Jack A	
Power supply	by USB optional DC 9V= adapter			
Temperature				
Operating	0 - 50 °C			
Storage	-20 - 60 °C			
Humidity	0 - 80% non condensing			
Material	Metal			
Dimension	132x92x44 mm	202 x 110 x 44 mm	132x92x66 mm	202 x 110 x 66 mm
Weight	465g	660g	575g	825g

4 Installation

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1. Take out the power supply and check the package content for completeness or damages.

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2. In case of missing parts or external damages, please contact your local dealer for replacement.

   Please keep the original package for shipping in case of warranty case.

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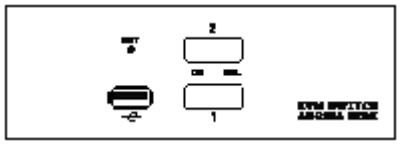
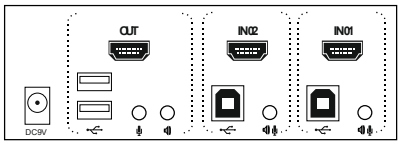
3. Take care to shut down all devices first.
4. Connect all computers with the KVM, using the included cables.
5. Connect mouse, keyboard and monitor to the KVM Switch.

   Look at the following drawings.

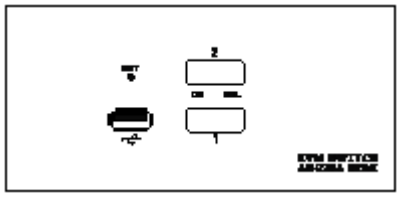
6. If all cables are connected you can start the computers. The installation is complete.

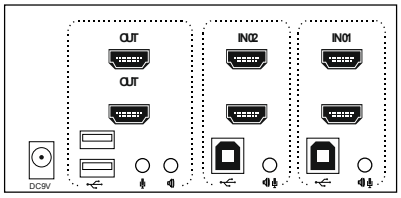
AS-21HA



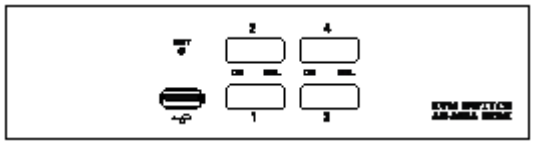


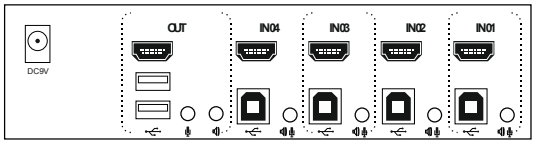
AS-22HA



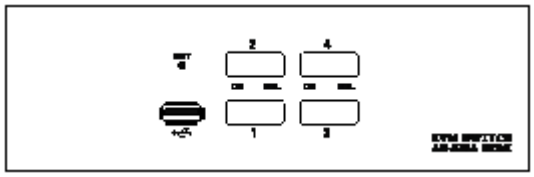


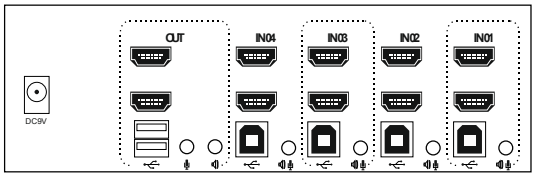
AS—41HA





AS-42HA





USB plug for Printer or HDD

Switch for Port 1 – 4
On = PC connected to port
SEL= Port selected

Reset

Power 9V DC=, optional

USB connector for Mouse/ keyboard

Output for 1 or 2 Monitors

Microphone input
Headphone / Speaker output

Input for 1 or 2 Monitors for Port 1 – 4

Input for Computer for Port 1 - 4

Audio input for Port 1 - 4

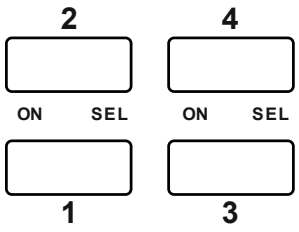
5 Use

You can control the KVM by using the switches at the front or by using Hot-Keys.

1. Toggle by switches

AS-21HA/ AS-22HA

AS-41HA/ AS-42HA



The switches at the front of the device are control buttons as well as LED indicators.

You can switch between the computers by pushing the buttons. The right LEDs show the selected port. The left LEDs show the online status of these ports.

2. Toggle by Hot Keys

Fast 2x pushing of the left Strg-button = Toggles one up

Fast 2x pushing of the right Strg-button = Toggles one down

Pushing „Scroll Lock“ twice and „Enter“ starts an automatic run. It will step forward once every 5 seconds. You stop that run by pushing the Space bar.

6 FAQ

Fault	Possible reason(s)	Help
Keyboard/ Mouse/ Monitor doesn´t work	Cable not connected	Check all cables
	Computers off	Check if Computer is switched on
	Computer USB port defective	Connect the switch to another USB port
	HDMI Port or graphics adapter faulty	Connect the switch to another computer
	Keyboard/ Mouse or Monitor faulty	Connect another mouse/ keyboard or monitor
	Switch defective	Change the switch at your dealer

Please unplug power cord generally when working inside the Computer.

In case of checking the electric socket exists risk of electric strike.

Leave work on mains supply only authorized experts.

7 Maintenance

This device needs no maintenance which requires opening of the housing or working inside the device.

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8 Disposal

Please dispose your product by using the special discharge point for electronic waste. Please ask your municipality or disposal company in case of further questions.

Card boards and plastics of packaging can be disposed by using the usual way of disposal of these materials.

9 Warranty terms

Manufacture grants 24 months warranty by proper use up from the date of purchase.

In case of warranty please contact your local dealer or the dealer from which you bought the product.

We will grant no warranty by:

- Missing or damaged warranty seal,
- Negligent behavior,
- Improper use,
- Nonobservance of the manual,
- External violence,
- Acts of god,
- Damages caused by manipulation, upgrading, updating or reconstruction of hardware or software
- Damages caused by other harm,

In case of data loss manufacture will only be liable at wanton negligence or deliberate intention or, in all other cases, only for the recovery of data from a continous, daily backup. Inter-Tech does not assume liability for all other matters.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. In cases where the manual is provided only in a form other than paper, such as on a computer disk or over the Internet, the information required by this section may be included in the manual in that alternative form, provided the user can reasonably be expected to have the capability to access information in that form.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However,
there is no guarantee that interference will not occur in a particular installation.
If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
-- Reorient or relocate the receiving antenna.
-- Increase the separation between the equipment and receiver.
-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-- Consult the dealer or an experienced radio/TV technician for help.