FeinTech VAX04201 HDMI eARC Pass Matrix Switch Instruction Manual

Contents

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FeinTech VAX04201 HDMI eARC Pass Matrix Switch

Thank you for purchasing this high quality product. For optimal use and safe operation, please read these instructions before use. Keep it as a reference for future reference. The manual is also available as a PDF file.

Features & Intended Use

- HDMI matrix switch to operate up to 4 HDMI sources to 2 HDMI sinks such as TV and video projector (if you connect a soundbar, you can connect 3 HDMI sources directly).
- One HDMI input supports eARC (enhanced Audio Return Channel) and you can connect the HDMI-eARC connector of a soundbar (backward compatible with ARC)
- EDID management
- Supports Ultra-HD up to 4K 60Hz as well as HDR10, HDR10+, HLG-HDR and Dolby Vision

Notes:
Please note that if you change the EDID settings or wiring on the switch, it may be necessary to reboot the connected players. If you do not achieve the desired output or display, please proceed as follows:

- Switch on the desired EDID mode on the switch and select the desired HDMI source. Switch on the displays/television.
- Unplug the power plug of the external player for a few seconds and then plug it in again. Then start the HDMI source.

EDID

The supported audio and video formats are negotiated between the devices. You can influence this via the EDID control (EDID = Extended Display Identification Data, with which an HDMI sink identifies itself to the HDMI source). Three modes can be selected for this purpose. The most frequently used mode is COPY, in which display A is prioritised.

AUTO

In AUTO EDID mode, the properties of the two displays are compared. The best possible format that both displays support is then delivered. In this mode, the weaker display is taken into ac-count. Both displays show a picture, but the better display may not show the best possible picture. Example: When connected to a 4K TV and a Full HD projector, in AUTO the sources deliver a Full HD video signal. If both displays support 4K, it will be 4K video.

COPY

In COPY-EDID mode, the sources deliver a signal optimised for display A. If Display B is weaker and supports fewer formats, it may not show a picture. If necessary, you can reduce the video format on the player.

Example 1: If a 4K TV is connected to output A and a Full HD projector is connected to output B, a 4K input player delivers a 4K picture signal. The Full-HD projector therefore shows no signal, because it cannot process 4K. Solution: If necessary, reduce the output on the player to Full HD. Example 2: If a 4K TV with Dolby Vision is connected to output A and a 4K projector (without Dolby Vision) is connected to output B, a 4K input player delivers a 4K picture signal with Dolby Vision. The video projector then displays the colours incorrectly for Dolby Vision content. Solution: Instead of Dolby Vision, set HDR10 on the source.

STD

In STD EDID mode, the HDMI switch generates an EDID information, which signals the support of 4K 60Hz HDR10 to the input players.
Example: No matter what the actual resolutions of the displays really are, 4K can be played (but perhaps not displayed). You can set the video properties on the players as desired.

Output A with ARC/eARC support

This output supports the audio return channel of a TV. This means that the sound from the internal TV receiver or TV apps can be played back via the Soundbar. To play the TV sound, please select input 1 on the HDMI switch via

the remote control or button.

Installation and operation

- Connect the HDMI-eARC connector of your Soundbar to HDMI Input 1. Connect 1–3 HDMI signal sources (e.g. Blu-ray player) to HDMI Inputs 2–4.
- Connect HDMI output A to the HDMI-ARC or HDMI-eARC connection of your TV. If no TV is to be connected, connect to the HDMI input of your monitor or video projector.
- Connect the HDMI output B to an HDMI input of your second display, e.g. monitor, video projector or second TV.
- Connect the power supply unit to the HDMI switch and plug it into a power socket. Then switch on the TV/video projector and the soundbar, then the switch. Switch on eARC on the switch. Then start an HDMI source.
- Activate the eARC/ARC function on output A of the TV if it is not already active.

Caution: When plugging and unplugging the HDMI cables, make sure that the connector contacts are not dirty or damaged. Make connections without power and switch on the units only after they have been connected. Please also ensure that the HDMI cables are of good quality – especially for 4k transmission. We recommend a maximum of 5 m cable length at the inputs and a maximum of 3 m at the outputs for 4k HDR. HDMI fibre optic hybrid cables can be used for longer distances.
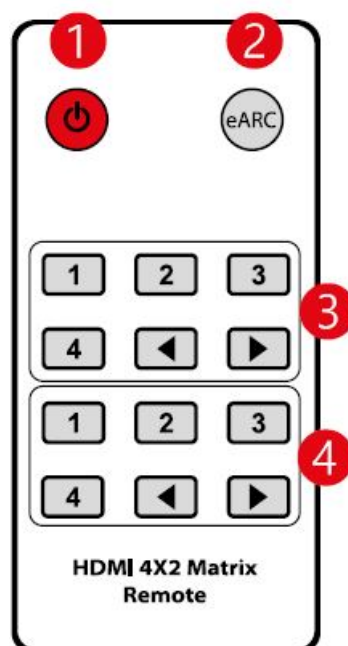
Automatic on/off/switching or HDMI CEC control.
These functions are generally NOT possible in a setup with 2 displays and HDMI-ARC. Switching between the different feed players is done via the remote control of the VAX04201 or the button on the front of the unit.

Remote control

The supplied infrared remote control controls all functions. Independent playback is possible via the two displays.
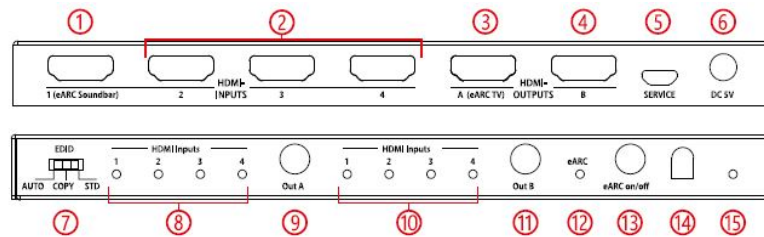
Example: Display A shows player 2, display B shows player 3 at the same time.

1. Switches the HDMI switch on or to standby.

2. Switches the eARC function on the switch on and off When switched on, the sound bar delivers the sound selected for Display A. Display A does not have to be switched on for this. Display A does not have to be switched on.

3. Select the source you want Display A to play back. If the eARC function is switched on, select „1" to play the internal TV sound via the sound bar.

4. Select the external player here that you want to play back on Display B. Use the buttons to jump to the previous or next HDMI input.
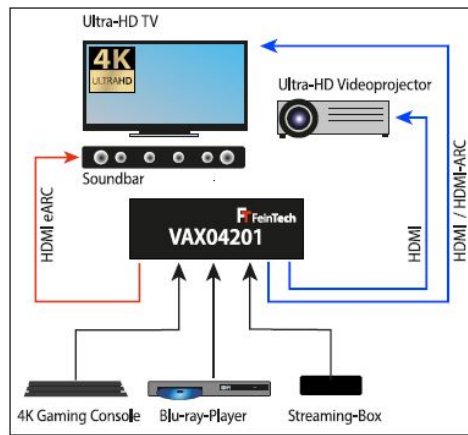
Connections & Controls

1. Connection for the eARC connector of a soundbar
2. HDMI inputs 2–4 for connecting players such as PC, streaming box, Bluray player
3. Connection for HDMI-eARC or HDMI-ARC connector of a television, or for connection to an HDMI input of monitor or video projector
4. HDMI connection for a second TV, monitor or video projector
5. USB-micro socket for service purposes and firmware update
6. DC hollow plug connection (5.5 / 2.1 mm) for 5 V power supply
7. EDID mode switch: AUTO / COPY / STD
8. LED display shows the selected HDMI input/player for display A
9. Button for selecting the input device 1–4 for display A
10. LED display shows the selected HDMI input/player for display B
11. Button for selecting the input device 1–4 for Display B
12. LED indicator for eARC function (lights up when eARC is active at the HDMI switch and audio output is routed to the soundbar)
13. Button for switching the eARC function on and off
    ON: the HDMI switch routes the audio output via eARC to HDMI input 1, sound is played through the soundbar connected there
    OFF: the HDMI switch does not route audio to the soundbar (useful if other players are connected directly to the soundbar or if only the TV loudspeaker should be used)
14. Infrared receiver for the remote control
15. LED operating light, lights up red in standby and green in operation

Typical use case

The sound of the selected player or the TV on output A can be played through the Soundbar.

Safety

- Please do not cover the housing or power supply, or install the device to avoid overheating.
- Keep away from fire, heat sources, water and moisture.
- Do not place heavy objects on the device or the connection cables.
- Do not open or drill holes in the housing.
- Use only the supplied power adaptor or ensure identical performance data when replacing.
- Use only a soft, dry cloth to clean the surface of the unit. Please do not use aggressive cleaning agents, gasoline or the like.
- If the unit will not be used for a longer period of time, please unplug it from the mains.

Service
The device must be inspected by qualified personnel in the following cases.

- Objects or liquids have penetrated into the device.
- The unit does not operate normally or its performance has changed.
- The device has been dropped or the housing is damaged.

In these cases disconnect the mains plug and do not continue to operate the device! Do not attempt to repair or open the unit yourself. Contact a trained technician or contact the seller or FeinTech Service via **service@feintech.eu**.

Disposal of the device after use
Old appliances are not worthless waste. Valuable raw materials can be recovered through environmentally sound disposal. At the end of its service life, this product must not be disposed of with normal household waste, but must be taken to a collection point for the recycling of electrical and electronic equipment.

The symbol on the product, the instructions for use or the packaging indicates this. The materials are recyclable according to their labelling. By reusing, recycling or otherwise recovering old appliances, you are making an important contribution to protecting our environment.

CE Declaration of Conformity
This product complies with EU directives and may only be used in conjunction with shielded cables. We, Spreewald Kommunikationstechnik GmbH, hereby declare that this device complies with the Low Voltage Directive 2014/35/EU, the EMC Directive 2014/30/EU, the Ecodesign energy-related products Directive

2009/125/EC and the RoHS Directive 2011/65/EU. You can obtain the formal declaration of conformity at **https://feintech.eu/ce** or on request.

Information according to the COMMISSION REGULATION (EU) 2019/1782
Spreewald Kommunikationstechnik GmbH
Country court Cottbus HR B 1107
Radensdorfer Hauptstr. 45 a, 15907 Lübben (Spreewald), Germany

Power supply model identifier	NBS05B050100VE
Input voltage	100–240 V
Input AC frequency	50/60 Hz
Output voltage	5 V DC
Output current	1.0 A
Output power	5.0 W
Average active efficiency	74.25 %
No-load power consumption	0.06 W

Troubleshooting

Problem	Cause	Solution
No picture, no sound	HDMI handshake incomplete	Briefly disconnect the external player from the power supply

and then restart it. |
	HDMI cable too long or not suitable	Use a shorter or better HDMI cable
No picture when I set 4K on the player	HDMI cable too long or not suitable	Use a shorter or better HDMI cable
	Display does not support 4K	Select Full HD
Wrong colors on secondary display	Main display uses Dolby Vision	Switch off Dolby Vision on the external player
	Player provides RGB signal	Set both displays the same (RGB limited / unlimited)
4K, Dolby Vision, HDR10+ or 3D not possible	One of the two displays does not support it	Connect main display to output A and select EDID-COPY mode
No sound from external player via soundbar	eARC is inactive on the switch	Activate eARC
	Soundbar does not support audio format	Select another audio format on the source player, e.g. Dolby Digital
	HDMI cable not suitable	Use a fully wired HDMI cable
No sound from TV (HDMI-ARC) via soundbar	Wrong connection selected	Connect TV to output A, select input 1 on the switch
Soundbar and TV do not switch on/off automatically	No HDMI-CEC pass on matrix switch	Function not possible
No volume control of the soundbar	Control must be configured	Set universal control on the external player or TV set
No Dolby Atmos sound, only Dolby Digital Plus	Wrong audio track selected	Select Atmos soundtrack (usu- ally English)
	HD video version of the provider has no Atmos sound	Use 4K display and play 4K film version

Documents / Resources

FeinTech VAX04201 HDMI eARC Pass Matrix Switch [pdf] Instruction Manual
VAX04201 HDMI eARC Pass Matrix Switch, VAX04201, HDMI eARC Pass Matrix Switch, eARC Pass Matrix Switch, Pass Matrix Switch, Matrix Switch, Switch

References

- **FT** [FeinTech | Dein Spezialist für Audio, Video & HDMI | Offizieller Shop](#)
- **FT** [CE Konformitätserklärungen - FeinTech](#)