

# USER MANUAL

---

## **6x2 HDMI Matrix**

(4K /Audio EDID/ARC/Audio Extractor)

**Model No: AA6322**

**Enjoy the vivid world !**

# INTRODUCTION

---

## Dear customer

Thank you for purchasing this product. For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

Our series of HDMI Converter, switchers, extenders, matrixes and splitters are designed to make your A/V device use more convenient, more comfortable, more productive and more cost-efficient.

The 6x2 HDMI Matrix supports the feature of PIP, ARC, 4K and 3D, which can switch or splitter the six HD input sources to the two HD Displays. It also can do the audio extract by the Optical port or HP port. ARC feature can let you return your TV audio to the av receiver; the PIP feature can let you choose the input sources channel by watch the small picture window at the Display.

Our devices offers solutions for noise, space and security concerns, data center control, information distribution, conference room presentation, school and corporate training environments.

## FEATURES

- Six HDMI Inputs switch or split to two HD Displays.
- HDMI supports Full HD, 3D and 4Kx2K video
- Any input HD Source can do audio extract by the SPDIF or 3.5mm Headphone audio output port.
- HDMI to achieve the synchronization of audio signal separation.
- Support 2.0/ 5.1/ ADV three kinds of audio mode options
- Supports ARC, TV audio will return and out by the Optical Port; (only the OUT A port supports ARC function).
- Supports HDMI audio separation, can output by optical and 3.5mm Headphone at the same time
- Support SPDIF digital audio format: Dolby digital (AC3), DTS and LPCM2.0
- Support PIP function: have one main picture and five small pictures, it can do switch of input sources by press button or remote.
- LED indication: when source or sink is working, LED related will go bright.
- Support IR Remote Control and Push Button at device control.
- Led Status Light allows the user to know the working status easily.
- Power-off memory
- No loss of quality
- Need DC5V/2A power supply

**The accessories with the machines lists as picture:**

- 1、 5V power adapter      1pcs
- 2、 Remote                    1pcs
- 3、 User manual            1pcs



**Physical Connection Showing Picture:**

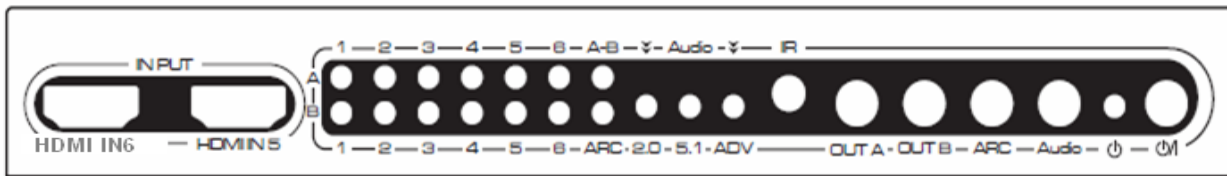


Figure 1.0 Front Panel Showing Picture

HDMI IN6: HDMI input interface

HDMI IN5: HDMI input interface

A (1- 6): 1-6 input led status light when output from A

B (1- 6): 1-6 input led status light when output from B

A-B: HDMI output A, output B audio extractor Led Status Light

ARC : ARC status Indicator Led Light

LED On: ARC turn on, then output TV audio by optical port.

LED off: ARC turn off, then output HDMI audio by optical and 3.5mm Headphone ports.

2.0: 2CH Audio Led Status Light

5.1: 5CH Audio Led Status Light

ADV: Advance Audio Led Status Light

IR: IR Receiver

OUT A : HDMI A output switch button

OUT B: HDMI B output switch button

ARC: ARC Turn on/off key (TV must support ARC, this button will take effect. If ARC turn on, then output TV audio by optical port.)

Audio: Switch button for Audio output mode, it can choose 2.0, 5.1, ADV [Advance Audio] three kinds of audio output mode by circulate switching (When switch to 5.1 audio mode output, the Digital audio signal receiving terminal must can support DTS/DOLBY-AC3 decode, or the audio signal receiving terminal will have no sound output; If need the audio signal receiving terminal can output the audio, pls switch to 2.0 audio mode. When audio output switch to the ADV [Advance Audio] mode, the audio output format will be decided by the audio signal receiving machine audio decode ability. The splitter will output 7.1 channel audio signal while the output end connects the av amplifier with HDMI port that support 7.1 channel audio decode.(the HD Source signal itself is 7.1 channel)



: Standby Led Light



: Power On/Off Button



Figure 1.1 rear panel showing picture

DC5V: 5V DC-DC Power Interface

HDMI IN 1-HDMI IN4: HDMI input interface

OUT B: HDMI B output interface

OUT A: HDMI A output interface (supports ARC function)。

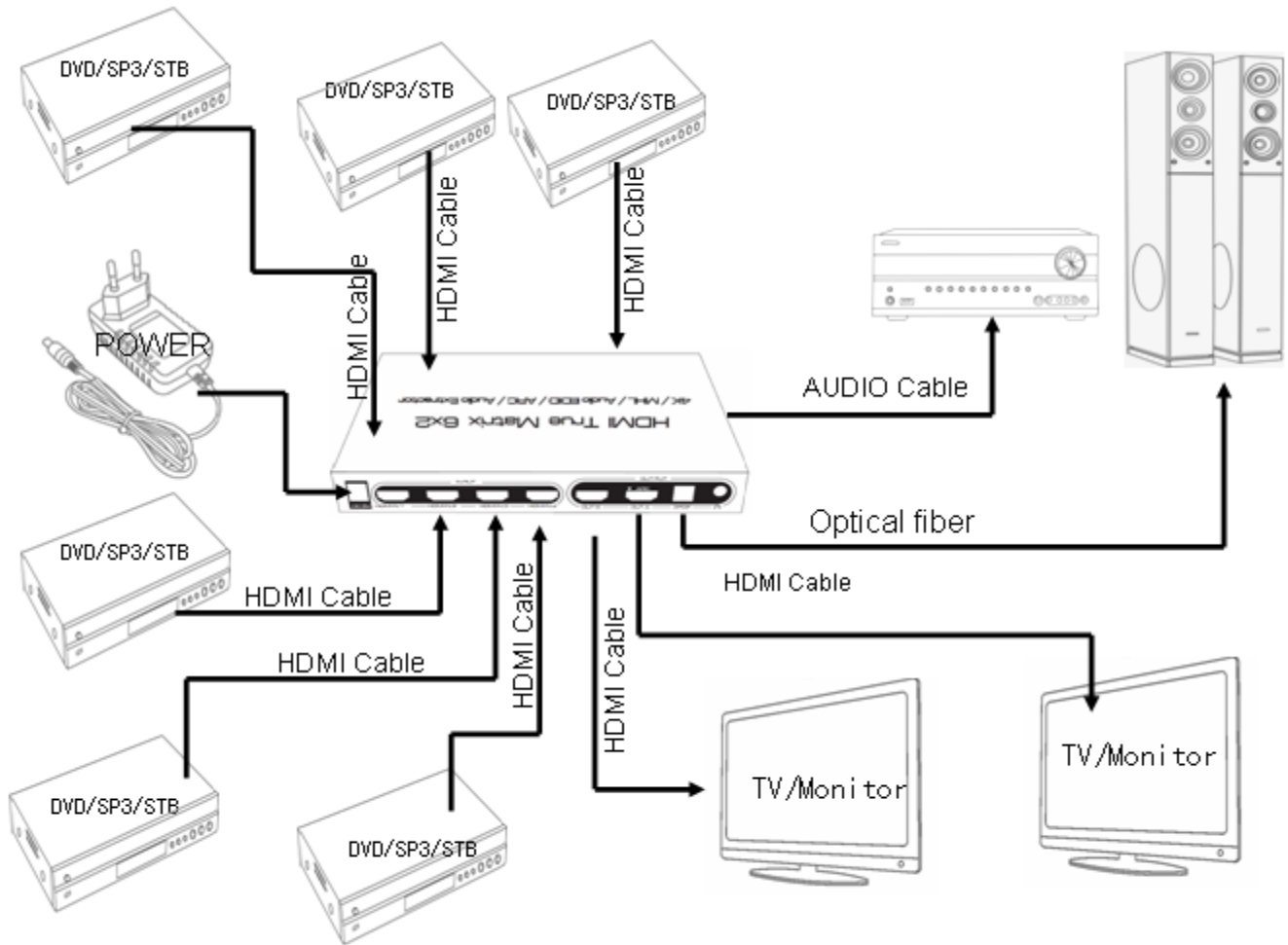
SPDIF: SPDIF optical output interface

: 3.5mm audio signal output

Operating and Connecting:

1. Connect one cable from each HDMI source devices into HDMI Matrix inputs.
2. Connect one cable from each display (monitor or projector) into the HDMI Matrix outputs.

3. To use optical cable to connect the SPDIF output port with the AV Receiver.
4. To use the analog av cable to connect the 3.5mm Headphone port of the device with the active speakers.
5. To use the remote or push button at device to switch the input source.
6. To connect the 5V adaptor with the device.



**SPECIFICATIONS:**

**AA6322**

HDMI resolution .....4KX2K/3D/1080p/1080i/720p/576p/576i/480p/480i  
 Support HDMI audio format.....DTS-HD/Dolby-trueHD/LPCM/DTS/Dolby-AC3/DSD  
 Digital Audio Output Supported Audio Format.....LPCM2.0/Dolby AC3/ DTS  
 Digital Audio Output Sampling Rate.....32KHz, 44.1KHz, 48KHz,88.2KHz, 96KHz,  
 176.4KHz, 192KHz

Max transmission bandwidth.....	300MHz
Max baud rate.....	9.0Gbps
Input/Output TMDS signal .....	0.5~1.5Volts p-p
Input/Output DDC signal .....	5Volts p-p (TTL)
Input cable distance.....	≤10m(1080P)/5M(4K) AWG26 HDMI standard cable
Output cable distance.....	≤15m(1080P)/5M(4K) AWG26 HDMI standard cable
Max working current.....	700mA
Power adapter format.....	Input: AC (50HZ, 60HZ) 100V-240V; Output: DC5V/2A
Operating Temperature range.....	-0 to +40°C
Storage Temperature range.....	-20 to +60°C
Operating Humidity range.....	5 to 85%RH (No Condensation)
Storage Humidity range.....	5 to 95%RH (No Condensation)
Dimension (L x W x H) .....	205x74x26 (mm)
Weight.....	440g

## IR Remote Operating Instruction



Power standby/Power on

Audio: 2.0、5.1、ADV Circulating Switch Key

ARC: ARC Function On/Off Button

PIP: PIP ON/OFF Button.

Select:: PIP Input signal source selection key

Enter: Option Confirm Button at PIP

OUT A

1: output A Select HDMI IN1 for the input port

2: output A Select HDMI IN2 for the input port

3: output A Select HDMI IN3 for the input port

4: output A Select HDMI IN4 for the input port

5: output A Select HDMI IN5 for the input port

6: output A Select HDMI IN6 for the input port

OUT B

1: output B Select HDMI IN1 for the input port

2: output B Select HDMI IN2 for the input port

3: output B Select HDMI IN3 for the input port

4: output B Select HDMI IN4 for the input port

5: output B Select HDMI IN5 for the input port

6: output B Select HDMI IN6 for the input port

OUT A: Output A port ON/OFF key

A -B: The Switch Button for Output A, Output B Audio Extract

OUT B: Output B port ON/OFF key

(Note: Use after the battery separator film is pulled out)



Figure 1.2 Remote Panel View

## Notes:

1. PIP function only effect for input source with resolution not higher than 1080p.
2. At PIP state, at left side of main picture will show the new input source small picture.
3. The small picture size at PIP state is fixed.

## Notes:

Pls use the machine as the instruction listed to keep the long use lifetime of the machine.

1. The machine should be placed at the spot far from the Damp, High-Temperature, Dusty, Erosive, and oxidative environment.
2. All parts will be free from the strong shake, hit, fall.
3. Touching the power adaptor with the wet hands is prohibited.
4. Pls hold the power adaptor head and do not pull the power cord when cut off from the socket.
5. Pls turn the power off when the machines is not used for long time.
6. Pls do not open the cover and do not touch the inside parts.
7. Pls use the original factory power adptor.

Before power on, pls check the connection line carefully. And make sure that all interfaces are normally connected. The common trouble shooting way shows below:

Serial NO	Trouble Description	Cause and Ways to deal with
1	Non-Power-Connencted	1、 Check if the power adaptor head is truly and correctly inserted the power socket. 2、 Check the power switch if it is in on status.
2	No Picture	1、 Pls to make sure that the TV is on and has been connected with the machine., 2、 To check if the signal source is on and well connected. 3、 Check the system connection quality. 4、 Check if the line is all good quality. 5、 Check the cable quality
3	Obscure Picture	1、 To try again to connect the cable to be free from the unsuccessful connection. 2、 HDMI Cable Quality
4	Remote	1、 Pls check if the film that stops the current has been taken out. 2、 To check if the remote battery is working full.