

4x2 HDMI Matrix 18G UltraHD with ARC Full Matrix Selection 4 inputs 2 outputs Model: UHD-402



INTRODUCTION

Congratulations on your purchase of the OREI HDMI Matrix Switch. Your satisfaction is very important to us. Our series of HDMI products are designed to make the use of your home entertainment equipments more comfortable.

UHD-402 Matrix Switcher is an ideal product for Home Theater application, Sports Bar Offices, Schools, Conferences rooms, Shopping malls, Hotels or Museums application, or share HD sources to 2 different rooms.

With the splitter and matrix function, users can share the same source device to 2 HDTVs (or projectors); also each HDTV (or projector) can be set to use one of the input source devices independently.

FEATURES AND CONTENTS

For the best performance of this matrix switch box, please read this manual carefully and keep it for further information.

Features:

- Support HDMI 2.0
- Resolution 4K2K (3840x2160@60Hz)
- Support Pixel Clock Rate up to 600MHz
- 4 inputs and 2 outputs HDMI Matrix Switch *(input 4 & output-A with ARC bypass)
- Each output can select different source from one of the 4 inputs
- Both outputs can select from the same input source
- Support HDCP 2.2
- DTS® HD, Dolby® TrueHD lossless compressed digital audio compliant
- ARC Function support (INPUT-4/ OUTPUT-A)
- IR remote control
- Stylish housing design, free of interference

Content of Package

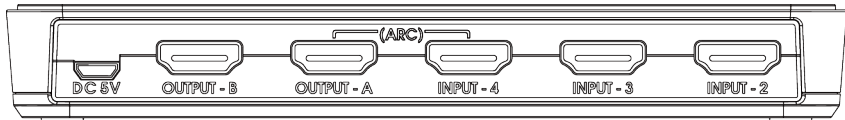
- DC 5V / 1A power adaptor
- Remote control unit
- HDMI 4-IN / 2-OUT Matrix Switch
- User's Manual

ILLUSTRATION

Front Panel

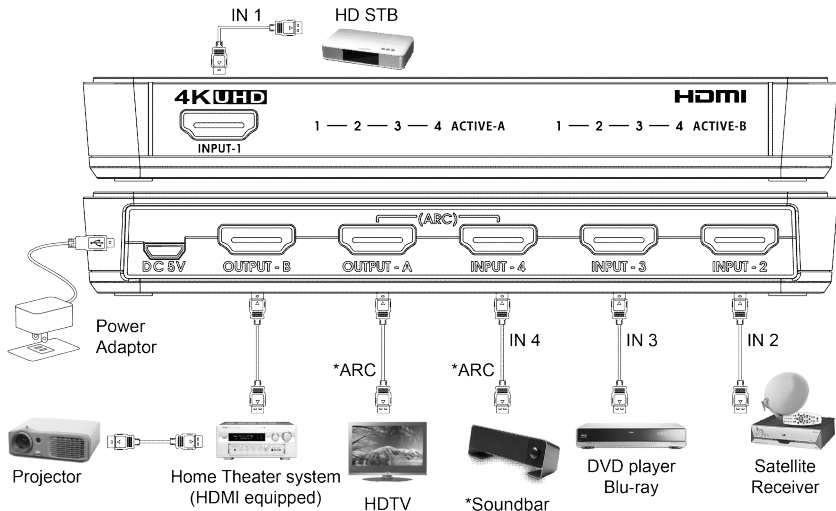


Rear Panel



CONNECTION ILLUSTRATION

Application:



NOTE:

1. Users can use it to connect to a Home Theater system which supports a HDMI input.
2. For HD quality audio (Dolby® TrueHD, DTS®-HD Master Audio™), or other audio formats that need high bandwidth for audio transmission, please use HDMI connection for the HD audio transmission.

3. If the output audio format is not supported by the sink device (HDTV, Home Theater receiver, Sound Bar Speaker), you may hear noise from the speakers or you will not hear any sound from the speakers.
4. If you want to use a Home Theater System or other speaker system for audio output, it is recommended to mute the audio speaker of the HDTV.
5. It is recommended all connected sink devices (HDTV, Projector, Home Theater Receiver...etc.) and sources device (Blu-ray Player, game consoles ,PS4 Pro...etc.) support same highest resolution, color deep and audio format.
6. If you want to use a Soundbar other speaker system for audio output, it is recommended to mute the audio speaker of the HDTV.

CONNECTION & OPERATION

Connection

Step 1. Connect the DC 5V power adaptor to the HDMI Matrix Switch.

Step 2. Connect the HDMI cables from the HD sources (PS4 Pro, DVD player, Blue Ray DVD Player...etc) to the input ports of the HDMI Matrix Switch.

Step 3. Connect the HDMI cables from your HD display (HDTV or projector) to the output port (Port A or Port B) of the HDMI Matrix Switch.

※If your Home Theater (or Sound System) does support HDMI input, you can use a HDMI cable to connect the digital audio to your Home Theater (or Sound System).

Connect the HDMI cables from your HD display (HDTV or projector) to the output port

Step 4. After you finish the connection, the Active-A (or Active-B) indication LED, and input indication LED will be lighted on.

Operation

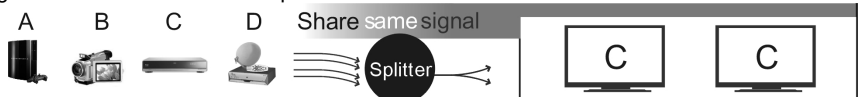
Matrix Mode:

Individual Selection for each output port



Splitter Mode:

Sharing same HD source to both outputs



ARC Connection

UHD-402 is also with audio return channel (ARC) support. As some sound bars only equipped with HDMI IN, they don't have HDMI out to connect to TV directly.

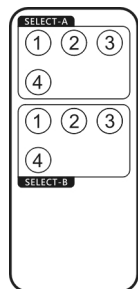
Step 1. Connecting the HDMI cable from you sound bar to the input-4 port of UHD-402.

Step 2. Connecting the HDMI cable from your HDTV ARC-capable HDMI input to UHD-402 output-A (Normally the HDMI input terminal that supports ARC will be printed/marked ARC)

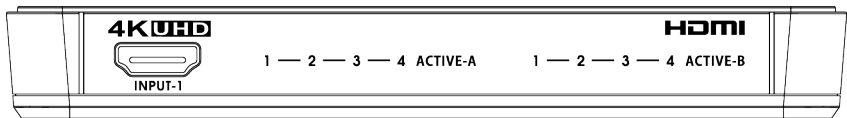
Output Mode		Source Device Auto Detection & Auto Adjustment	
		Supported	Not Supported
Splitter Mode	Output A & Output B Select to a same source device	<ul style="list-style-type: none"> The source device will auto adjust the output audio and video signal which can both be supported by the sink devices of Output A and Output B. One of the sink devices will be set as the primary sink device. (<i>Highest Common Factor detection mode</i>) Users can also set the audio/video output signal by themselves. Please make sure the setting can be supported by the sink devices. 	<ul style="list-style-type: none"> The output audio and video signal of the source device needs to be set first. Please make sure the setting can be supported by the sink devices. (For example, if user set the source to send out a 4K video signal, but the sink device can only support up to 1080p, you will not have picture the sink device.)
Matrix Mode	Output A & Output B Select to separate source devices	<ul style="list-style-type: none"> The source device will auto adjust the output audio and video signal that supported by the sink devices (Output A or Output B). Users can also set the audio/video output signal by themselves. Please make sure the setting can be supported by the sink devices. 	<ul style="list-style-type: none"> The output audio and video signal of the source device needs to be set first. Please make sure the setting can be supported by the sink devices.

IR Remote Operation

- Two sets of selection keys are available for Output A and Output B. The selection of Output A and Output B can be controlled individually.
- Use number keys to switch between sources.



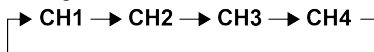
Manual Operation



- Output A and Output B have individual source selection key.
- Output A:**
 - Source Selection:** If you want to change the input channel manually, you can press the "Select A" key once. A LED will be lighted up for the channel indication.
- Output B:**
 - Source Selection:** If you want to change the input channel manually, you can press the "Select B" key once. A LED will be lighted up for the channel indication.

The procedure is a cyclic function

When you selected the channel, there will be a LED on to present the channel. If you select channel 1, the CH1 LED will light on.



TROUBLE SHOOTING

1. When there is no picture present, please:
 - Make sure the direct connection from the source device to the display device without the HDMI Switch is working.
 - Check all connectors connect well or not.
 - Check the connecting cable is damaged or not.
 - Check the power of HDMI Switch (or reset the switcher)
2. When there is only picture displayed and without sound:
 - Check the cable connection to see if it fits properly.
 - Check your cable to see if it supports video transmission only (DVI) or it is damaged.
 - HDCP may not match very well at first connection; please reset your HDMI Switch.
 - Do you connect any output to your Video recorder? HDCP will lock up audio part.
3. When use a coaxial audio cable to connect the Matrix Switch to a Home Theater System, no sound is delivered by the Home Theater System.
 - Please check the connection.
 - The audio input selection of the Home Theater System needs be selected to a corresponding audio input.
 - Please make sure the output audio format can be supported by the Home Theater System. If the audio format is in Dolby® or DTS® format, the Home Theater needs to support Dolby® or DTS® decoding.
4. When resolution could not show in 4K.
 - Make sure your sources (HD DVD Player) and displays are fully supporting 4K.
 - Make sure your HDMI cables are capable of transmit 4K video signal.

NOTICE

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- Dolby is a registered trademark of Dolby Laboratories.
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