



18Gbps HDMI ARC/ eARC Audio Extractor Switch

USER MANUAL

HDA-934

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Thank you for purchasing this product

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.

Surge protection device recommended

This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, lightning strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the service life of your equipment.

Please Activate your warranty by registering our product through the link below - www.orei.com/register

Technical Support

Need Help?

Our experienced Technical Support Team is here for you to answer your questions, give technical advice or help troubleshoot your project to get you installed on time and on budget. Call, email or chat with us now.

OREI Live Technical Support Hours

US team (US/Canada/Mexico): Monday-Friday, 9 a.m. - 6 p.m. Central Time

Support Email - info@orei.com | **Support Number** - 877-290-5530

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Send us an instant message now. Our Technical Support Team will respond momentarily. Available during live support hours.

Introduction

The OREI HDA-934 Audio Extractor Switch features audio extraction for ARC/eARC Soundbars and the ability to connect and switch between 3 sources to display on 1 TV. It supports video resolution up to 4K@60Hz RGB/YCbCr 4:4:4 with 18Gbps video Bandwidth. Extract audio directly from the source device. Designed for non ARC/eARC TVs. Connect ARC/eARC Soundbar to Input 1 on the device and extract high quality audio directly from the source devices. Features Automatic, and Manual switching through the front panel buttons or the included IR remote. High quality audio up to Dolby Atmos and DTS:X.



Features & Package Contents

1. HDMI 2.0b, HDCP 2.2 / 1.x and DVI 1.0 compliant
2. Video resolution up to 4K@60Hz RGB/YCbCr 4:4:4
3. 18Gbps video bandwidth
4. 3D, HDR, HDR10, HDR10+, and Dolby Vision pass-through
5. Connect up to 3 input sources
6. Supported audio formats: LPCM, Dolby Digital/Plus/EX, Dolby True HD, Dolby Atmos, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD
7. Features auto/manual switching mode for input source
8. Extract audio directly from the source to an ARC/eARC Soundbar
9. Advanced EDID management (AUTO/2.0CH/5.1CH/7.1CH selectable)
10. Flexible control via front panel buttons or IR remote control

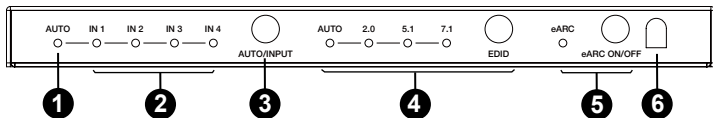
1.	HDA-934 Audio Extractor Switcher	1 pcs
2.	IR Remote	1 pcs
3.	5V/1A Power Adapter	1 pcs
4.	User Manual	1 pcs

Specifications

Technical	
HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2 / 1.x
Video Bandwidth	18 Gbps
Video Resolution	4K@24/30/60Hz, 2K@24/30/60Hz, 1080p@60Hz, 720p, 480p, etc.
Color Depth	8-bit, 10-bit, 12-bit (1080p@60Hz) 8-bit (4K@60Hz YUV4:4:4) 8-bit, 10-bit, 12-bit (4K@60Hz YCbCr 4:2:2 / 4:2:0)
Color Space	RGB 4:4:4, YCbCr 4:4:4 / 4:2:2 / 4:2:0
HDMI Audio Formats	LPCM, Dolby Digital/Plus/EX, Dolby True HD, Dolby Atmos, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD
HDR	HDR, HDR 10, HDR 10+ and Dolby vision
ESD Protection	Human body model – ±8kV (Air-gap discharge) & ±4kV (Contact discharge)
Connection	
Input	4×HDMI IN [Type A 19-pin female] (Input 1 for eARC Sound-bars)
Output	1×HDMI OUT [Type A 19-pin female]
Control	1×SERVICE [Micro USB port]
Mechanical	
Housing	Metal Enclosure
Silkscreen Color	Black
Dimensions	180mm(W) × 84mm(L) × 15mm(H)
Weight	370g
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Relative Humidity	20-90% RH (Non-condensing)
Power Consumption (Max)	2W (Max)

Operation Controls and Functions

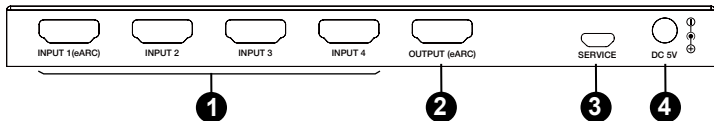
Front Panel



No.	Name	Function Description
1.	AUTO LED	When the auto switching mode for input source is enabled, the AUTO LED will turn on.
2.	IN 1/2/3/4 LED	When the INPUT 1/2/3/4 port is connected to a source, the corresponding IN 1/2/3/4 LED will turn on.
3.	AUTO/INPUT button	Press this button to switch between auto/manual switching mode for input source. When you press and hold this button for 2 seconds, the device switches to the auto switching mode, and the AUTO LED will turn on. Press and hold the button for 2 seconds again, the device switches to the manual switching mode, then you can tap this button to cycle through the inputs, and the corresponding IN 1/2/3/4 LED will turn on. Note: In auto switching mode, the device can detect signal source automatically. When one or several input ports are connected to source devices, the output port will output the signal from the last connected input source.
4.	EDID button and status LED	Press the button to select EDID mode: AUTO/2.0/5.1/7.1 (AUTO means using TV EDID), and the corresponding LED will turn on.
5.	eARC button and LED	Press the button to turn on/off ARC/eARC function. The eARC LED will turn on when you turn on the ARC/eARC function.
6.	IR	IR receiver window. It only receives IR signals from the included remote.

Operation Controls and Functions

Rear Panel



No.	Name	Function Description
1.	INPUT 1/2/3/4 port	HDMI input ports, connect to HDMI source device such as DVD Player, Game Console or Set-top Box with HDMI cable. Note: When the ARC/eARC function is turned off, connect the "INPUT 1 (eARC)" port to HDMI source device to work as a signal input port: When the ARC/eARC function is turned on, connect the "INPUT 1 (eARC)" port to a Soundbar or amplifier to output the audio signal extracted from "INPUT 2/3/4" port or "OUTPUT(eARC)" port. Please refer to "7. Application Example" for more details.
2.	OUTPUT (eARC)	HDMI output port. Connect an HDMI display device such as a TV or Projector with HDMI cable.
3.	SERVICE	Firmware update port.
4.	DC 5V	DC 5V power input port.

IR Remote



ARC: Press this button to turn on/off ARC/eARC function. When ARC/eARC function is turned on, the eARC LED on the front panel will turn on

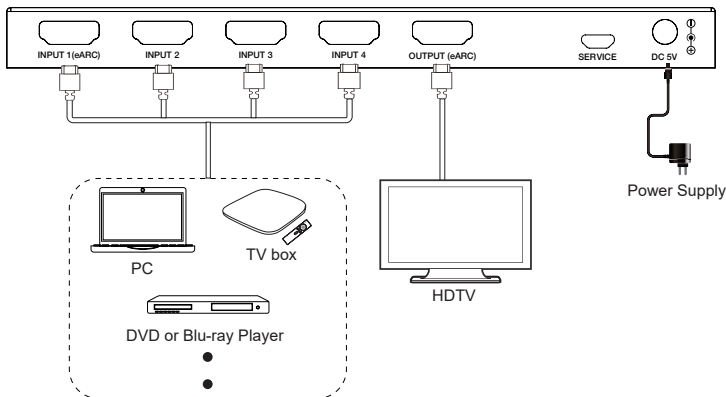
Auto/2.0ch/5.1ch/7.1ch: Press these buttons to select different EDID settings, and the corresponding LED on the front panel will be on.

Auto Source: Press this button to select auto switching or manual switching mode.

In1/In2/In3/In4: In manual switching mode, press these buttons to select the input source.

Situation 1

When the ARC/eARC function is turned off, the connection is as following.



HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

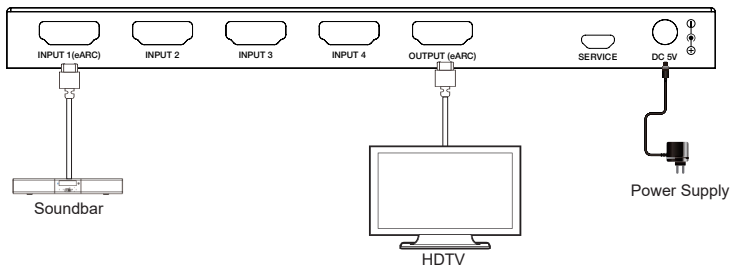
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Application Example

Situation 2

When the ARC/eARC function is turned on, select the input port 1 by pressing the "AUTO/INPUT" button on the front panel or the In1 button on the IR remote, then connect the "INPUT 1 (eARC)" port to a Soundbar to output the audio signal returned from the "OUTPUT(eARC)" port, as shown in the figure below. (For example, when user watches TV APP, the Switcher will pass-through TV eARC/ARC to the Soundbar.)

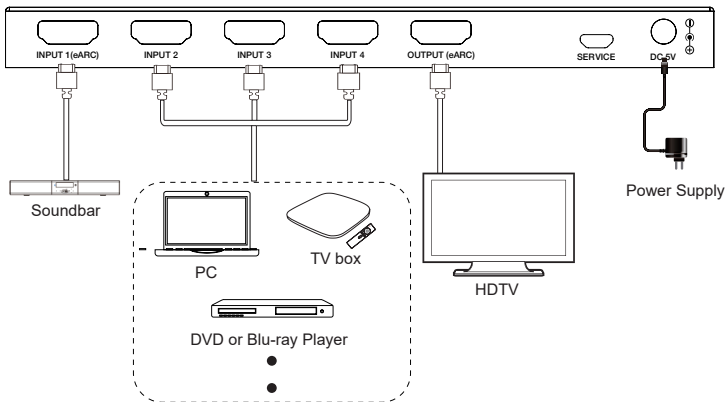
Note: If the TV supports ARC/eARC function, the Soundbar will receive the audio signal returned from the TV. If the TV does not support ARC/eARC the audio will be extracted directly from the source devices.(Situation 3)



Situation 3

When the ARC/eARC function is turned on, select the input port 2/3/4 by pressing the "AUTO/INPUT" button on the front panel or the In2/3/4 button on the IR remote, then connect the "INPUT 1 (eARC)" port to a Soundbar to output the audio signal extracted from "INPUTS 2/3/4" port, as shown below.

Note: Whether the TV supports ARC/eARC or not, the Soundbar will receive the audio signal extracted from "INPUTS 2/3/4".





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