CONCORD

8K HDMI 4 Way Switcher

Instruction Manual   **AC5011**

SAFETY INSTRUCTIONS

Before using this product, please carefully read the following safety instructions to ensure its proper use and keep this manual for future reference:

- To prevent electric shock, do not attempt to open the product.
- Only qualified personnel should perform any repairs or maintenance.
- Always place the product on a stable, flat surface to prevent it from falling.
- Do not expose the product to water, moisture, or high-humidity environments to avoid the risk of damage.
- To prevent damage from direct sunlight or high temperatures, do not expose the product to such environments.
- Do not place the product near heat sources like radiators, heat registers, stoves, or other heat-producing apparatus.
- Do not place any objects on top of the product to avoid damage.
- Use only the attachments and accessories specified by the manufacturer.
- During lightning storms or prolonged periods of disuse, unplug the power supply to prevent damage.

INTRODUCTION

This 48 Gbps 4x1 switcher can switch any of the four HDMI source signals to one HDMI display, with video resolution up to 8K@60Hz 4:2:0. It supports advanced EDID management, CEC control, ARC/eARC, and audio de-embedding (output through the optical and analog audio ports). Furthermore, firmware upgrades via the USB Type-C port are supported.

This multifunctional product can be widely applied in scenarios such as demonstrations, video conferences, multimedia teaching, and other occasions requiring large screen displays.
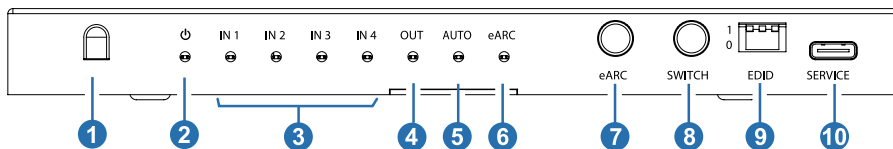
BOX CONTENTS

- 1 x 48 Gbps 4x1 Switcher
- 1 × 5V/1A Power Supply
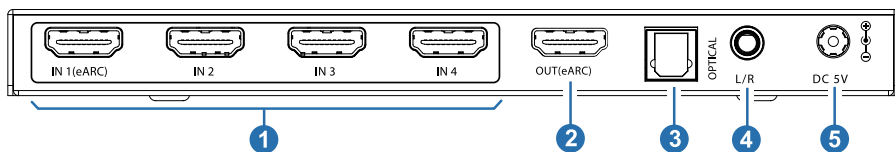- 1 × IR Remote
- 1 × User Manual

SURGE PROTECTION

This product contains sensitive electrical components that can be damaged by electrical spikes, surges, electric shock, lightning strikes, and similar hazards. Using surge protection systems is highly recommended to protect and extend the life of your equipment.

PRODUCT DIAGRAM

1. **IR Window** - IR input signal receiving window.
2. **Power LED** - The red LED is on when the device is powered on.
3. **IN LED (1~4)** - When the HDMI IN 1/2/3/4 port is selected as the signal source input channel, the corresponding green LED will be on.
4. **OUT LED** - When the HDMI OUT port connects a display device, the green LED will be on.
5. **AUTO LED** - When the auto switching function (switch to the corresponding signal input channel when the signal source is connected.) is turned on, the green AUTO LED will be on.
6. **eARC LED**
    *   **On:** The ARC/eARC function is turned on. CEC communication and ARC/eARC is working properly.
    *   **Flashing:** The ARC/eARC function is turned on. CEC communication and ARC/eARC is not working properly.
    *   **Off:** The ARC/eARC function is turned off.
7. **eARC switch** - Press the button to turn on/off ARC/eARC function.
8. **SWITCH button** - Used to select signal source for OUT port.
    *   Short press this button to circularly switch HDMI input signal to the OUT port.
    *   Long press for 3 seconds to turn on/off the auto switching function.
9. **EDID DIP switch** - Use the DIP switch to set EDID.
    *   111 - Copy OUT port sink EDID (as default)
    *   110 - eARC OFF: 4K60(4:4:4)_HDR, Audio 2ch PCM;
        eARC ON: Video EDID copy sink EDID, Audio EDID Copy soundbar EDID.
    *   101 - FRL 12G_8K_HDR, Audio 2ch PCM
    *   100 - FRL 12G_8K_HDR, Audio 5.1ch PCM/DTS/DOLBY
    *   011 - FRL 12G_8K_HDR, Audio 7.1ch PCM/DTS/DOLBY/HD
    *   010 - FRL 10G_8K_HDR, Audio 2ch PCM
    *   001 - FRL 10G_8K_HDR, Audio 5.1ch PCM/DTS/DOLBY
    *   000 - FRL 10G_8K_HDR, Audio 7.1ch PCM/DTS/DOLBY/HD
10. **SERVICE** - Firmware update and debug port.

1. **IN 1/2/3/4** - HDMI input ports, connected to HDMI source device such as DVD, PS4 or Set-top Box with HDMI cable.

> **NOTE:** When the ARC/eARC function is turned off, connect the "IN 1(eARC)" port to HDMI source device to work as a signal input port; When the ARC/eARC function is turned on, connect the"IN 1(eARC)" port to a Soundbar or amplifier with ARC/eARC function to output the audio signal from other HDMI source, or the audio returned from the TV connected to the "OUT(eARC)" port. Please refer to "Application Example" for details.

2. **OUT (eARC)** - HDMI output port, connect to HDMI display device such as HDTV or Projector with HDMI cable.
3. **OPTICAL** - Optical fiber audio output port.
4. **L/R** - Analog audio output port.
5. **DC 5V** - DC 5V/1A power input port.

IR REMOTE

eARC: Press this button to turn on/off ARC/eARC function.
Auto: Press this button to turn on/off the auto switching function.
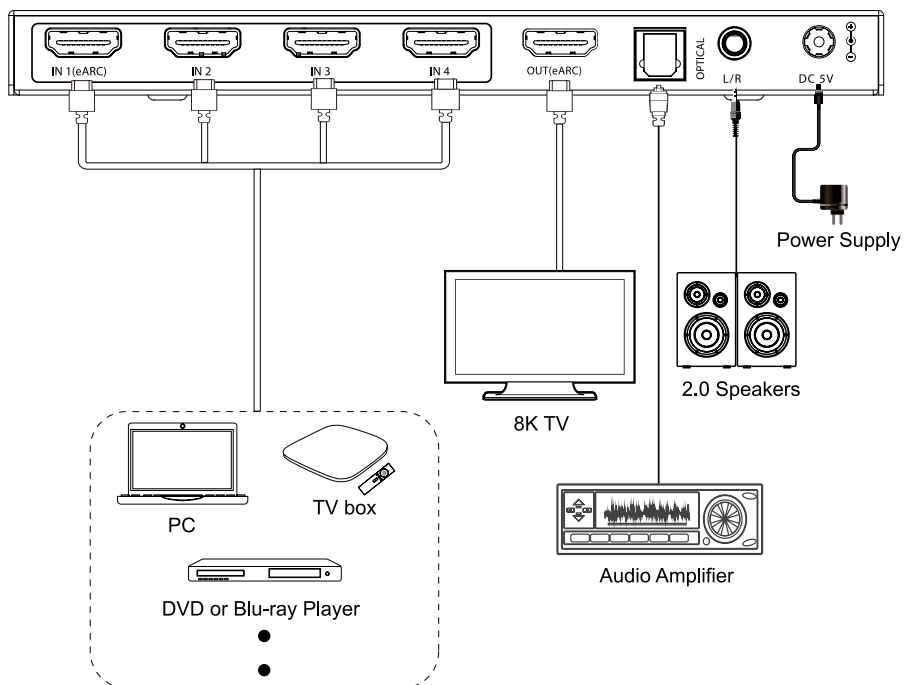**1/2/3/4:** Press 1/2/3/4 button to select HDMI signal source IN 1/2/3/4 to output.
↻ : Press this button to select the next HDMI signal source circularly
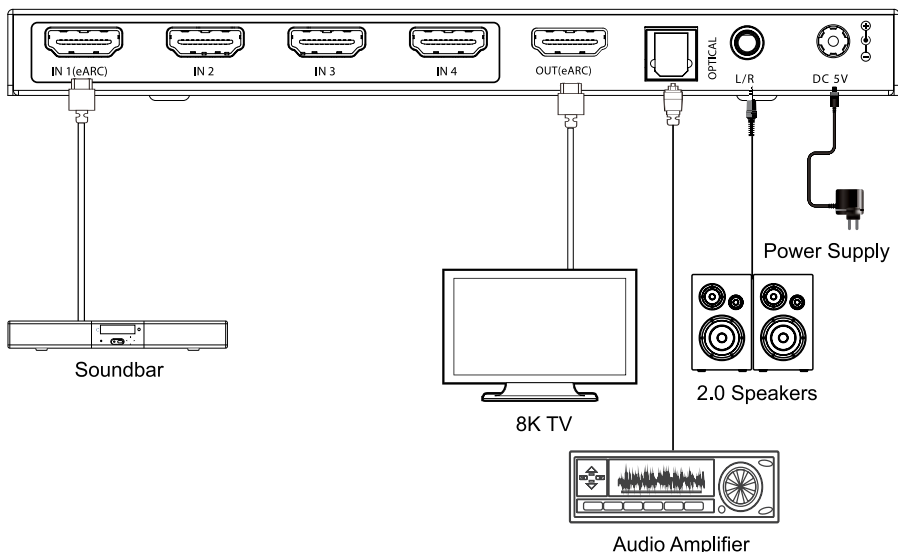
APPLICATION EXAMPLE

Situation 1

When the ARC/eARC function is turned off, the connection diagram is as following. At this moment, the optical audio or L/R audio is from the selected input channel.

IN 1(eARC) IN 2 IN 3 IN 4 OUT(eARC) OPTICAL L/R DC 5V

Power Supply

8K TV

2.0 Speakers

PC

TV box

DVD or Blu-ray Player

Audio Amplifier

Situation 2

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

At this moment, the optical audio or L/R audio is from the returned audio of the 8K TV connected to OUT(eARC).
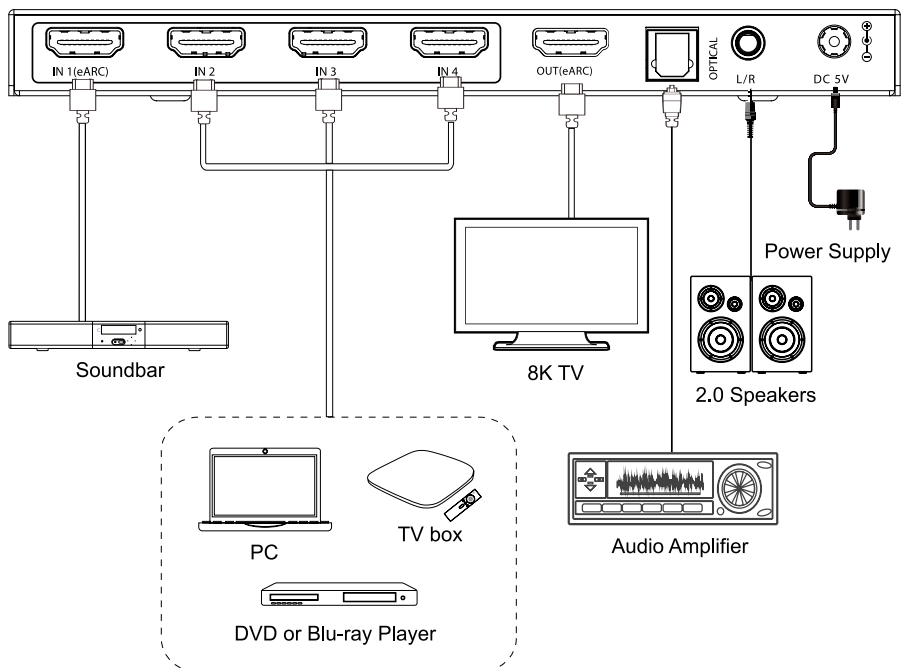

Power Supply

Soundbar

8K TV

2.0 Speakers

Audio Amplifier

NOTE: If the 8K TV supports ARC/eARC function, the Soundbar will receive the audio signal returned from the TV, and then emit the sound; otherwise it will not emit sound.

NOTE: The IN 1 channel will be locked when it is selected as the input source. At this moment, other input channels will not be identified automatically even if the Auto Switching is enabled. For example, if the IN 3 is connected to a source device now, and it will not be output as the signal source automatically because the IN 1 is locked.

Situation 3

When the ARC/eARC function is turned on, select the input port 2/3/4 by pressing the "SWITCH" button on the front panel or the buttons on the IR remote. If connect the "IN 1(eARC)" port to a Soundbar now, it will output the audio signal from the selected input channel. At this moment, the optical audio or L/R audio is also from the selected input channel.

Power Supply

Soundbar

8K TV

2.0 Speakers

PC

TV box

Audio Amplifier

DVD or Blu-ray Player

NOTE: In this situation, the Soundbar will not output the audio returned from the 8K TV connected to the OUT port, no matter the 8K TV supports ARC/eARC or not.

SPECIFICATIONS

Technical	
HDMI Compliance	HDMI 2.1
HDCP Compliance	HDCP 2.3
Video Bandwidth	48 Gbps FRL and 18 Gbps TMDS
Audio Latency	No Latency
Video Latency	No Latency
Video Resolution	Up to 8K@60Hz 4:2:0 12bit, 8K@30Hz 4:4:4 12bit, 4K@120Hz 4:4:4 12bit
Color Depth	8/10/12bit
Color Space	RGB_4:4:4, YCbCr_4:4:4, YCbCr_4:2:2, YCbCr_4:2:0
Audio Formats	**HDMI Input/Output:** LPCM, Dolby Digital/Plus/EX, Dolby True HD, Dolby Atmos, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DTS:X, DSD **eARC Audio Out:** LPCM, Dolby Digital/Plus/EX, Dolby True HD, Dolby Atmos, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DTS:X ,DSD **Audio De-embedded Output:** Optical: LPCM 2.0CH/Dolby/DTS 5.1CH Analog: LPCM 2.0CH
HDR	HDR, HDR10, HDR10+, Dolby Vision, HLG
ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge)

Connection	
Input	4 × HDMI IN [Type A, 19-pin female]
Output	1 × HDMI OUT [Type A, 19-pin female] 1 × OPTICAL [S/PDIF]
	1 × L/R [3.5mm Stereo Mini-jack]
Control	1 × SERVICE [USB Type C, Update port]
Mechanical	
Housing	Metal Enclosure
Color	Black
Dimensions	176mm [W] × 68mm [D] × 18mm [H]
Weight	315g
Power Supply	Input: AC100-240V 50/60Hz, Output: DC 5V/1A (US/EU standards, CE/FCC/UL certified)
Power Consumption	2.5W (Max)
Operation 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)

Recommended HDMI Cable				
Video Resolution	8K	4K60	4K24	1080P
HDMI Cable Length (HDMI In/Out)	2m/6.6ft (Ultra HDMI 2.1)	8m/26ft	12m/39ft	15m/49ft

The use of "Premium High Speed HDMI" cable is highly recommended.

WARRANTY INFORMATION

Our product is guaranteed to be free from manufacturing defects for a period of 12 Months.

If your product becomes defective during this period, Electus Distribution will repair, replace, or refund where a product is faulty; or not fit for intended purpose.

This warranty will not cover modified product; misuse or abuse of the product contrary to user instructions or packaging label; change of mind and normal wear and tear.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and failure does not amount to a major failure.

To claim warranty, please contact the place of purchase. You will need to show receipt or other proof of purchase. Additional information may be required to process your claim.

Any expenses relating to the return of your product to the store will normally have to be paid by you.

The benefits to the customer given by this warranty are in addition to other rights and remedies of the Australian Consumer Law in relation to the goods or services to which this warranty relates.

This warranty is provided by:

Electus Distribution
Address 46 Eastern Creek Drive, Eastern Creek NSW 2766
Ph. 1300 738 555

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