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SOLUTIONS FOR GROWTH

PART NO : nT15BX03

18GBps HDMI /ARC/EARC EXTRACTOR



User Manual

VER 1.1

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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, lighting strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.

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1. Introduction

The 18Gbps HDMI eARC audio extractor supports eARC function, which can extract eARC audio from TV terminal and output it to audio amplifier through HDMI port, so that the existing audio amplifier can play high-quality audio. It can effectively solve the problem that the supporting audio amplifier needs to be upgraded due to the upgrading of TV.

2. Features

- ☆ HDCP 2.3 / 1.x compliant
- ☆ Support 18Gbps video bandwidth
- ☆ Support video resolution up to 4K2K@60Hz with 24bit RGB/YCBCR 4:4:4, as specified in HDMI 2.0b
- ☆ Support VESA format up to QSXGA@60Hz
- ☆ HDR, HDR10, HDR10+, Dolby Vision pass-through
- ☆ Support PCM 2.0, LPCM 5.1 / 7.1, Dolby Digital, Dolby digital plus, Dolby True-HD, DolbyAtmos, DTS 5.1, DTS ES 6.1, DTS HRA, DTS HD Master, DTS:X
- ☆ Built-in Equalizer, Retiming and Driver
- ☆ Dedicated HDMI output for audio only with 720p black screen
- ☆ Support eARC/ARC audio (from TV) extract to HDMI audio output
- ☆ Support CEC function and advanced EDID management

3. Package Contents

① 1× 18Gbps HDMI eARC Extractor
② 1× USB Cable (USB-A to Micro USB)
③ 1× User Manual

4. Specifications

Technical	
HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.3 / 1.x
Video Bandwidth	18 Gbps
Video Resolution	Up to 4k2k@60Hz 4:4:4
Color Depth	8-bit, 10-bit, 12-bit (1080p@60Hz) 8-bit (4K2K@60Hz YUV4:4:4) 8-bit,10-bit,12-bit (4K2K@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	PCM 2.0, LPCM 5.1 / 7.1, Dolby Digital, Dolby Digital plus, Dolby TrueHD, Dolby Atmos, DTS 5.1, DTS ES 6.1, DTS HRA, DTS HD Master, DTS:X
ESD Protection	IEC 61000-4-2: ±8kV (air-gap discharge) & ±4kV (contact discharge)

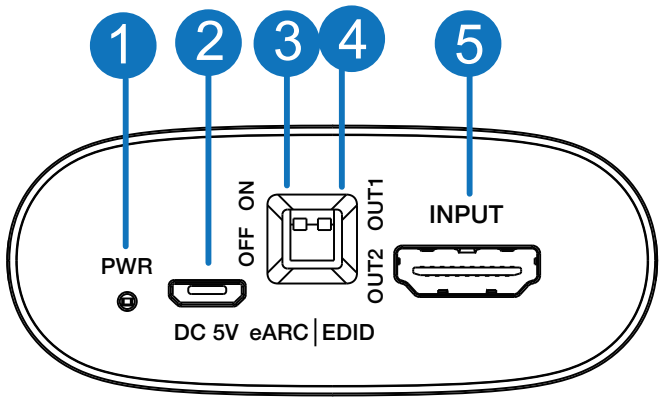
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Connection	
Input	1x HDMI Type A [19-pin female]
Output	2x HDMI Type A [19-pin female]
Mechanical	
Housing	Aluminium Enclosure
Color	Silver
Dimensions	65mm[W] x 70mm[D] x 27mm[H]
Weight	83g
Power Supply	USB 5V / 500mA
Power Consumption	1.75W (Max)
Operation Temperature	32 - 104°F / 0 - 40°C
Storage temperature	-4 - 140°F / -20 - 60°C
Relative Humidity	20 - 90% RH (no condensation)

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5. Operation Controls and Functions

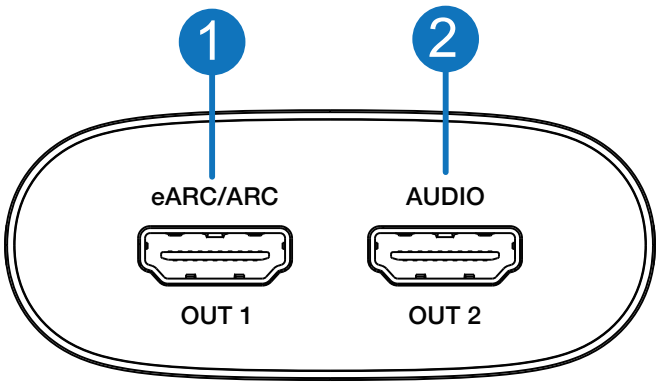
5.1 Left Panel



No.	Name	Function Description
1	Power LED	Red LED will be on when the device is powered on.
2	DC 5V	1) DC 5V power supply port; 2) Firmware update port
3	eARC switch	The switch is used to turn on/off the eARC function: Switch to “ON” position, the AUDIO OUT2 port will output the eARC/ARC audio; Switch to “OFF” position, the AUDIO OUT2 port will output the audio from the HDMI IN port.
4	EDID switch	The switch is used to select EDID setting: Switch to “OUT1” / “OUT2” position, the product will copy the corresponding EDID from the device connected to OUT1/ OUT2 port. If the copy fails, it will use the internal EDID of the default 1080p 2CH.

5	INPUT port	HDMI signal input port, connected to HDMI source device.

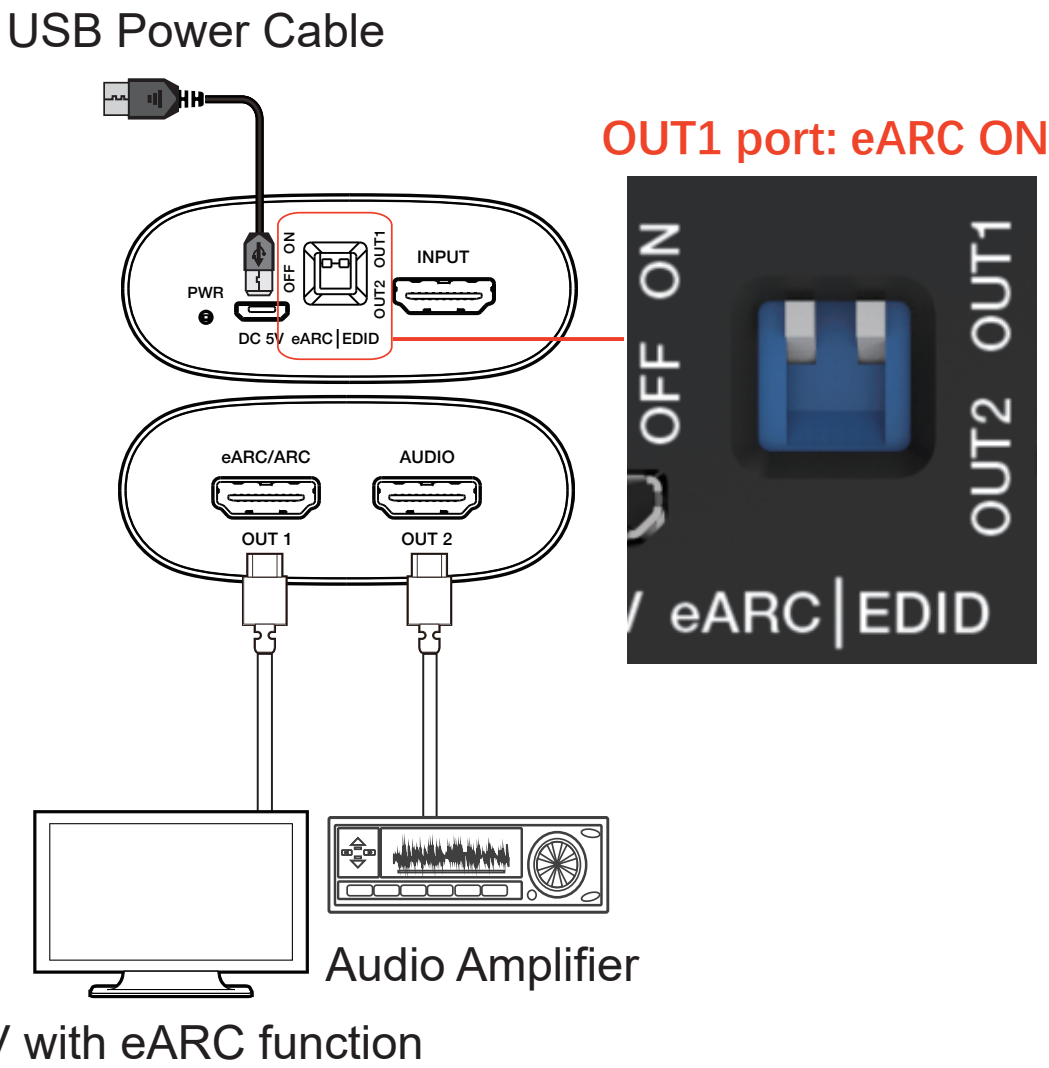
5.2 Right Panel



No.	Name	Function Description
1	eARC/ARC OUT 1	TV eARC/ARC audio output port. Connect to TV with eARC function.
2	AUDIO OUT2	HDMI audio output port, connected to amplifier or speaker. When the eARC function is disabled, this port outputs 720p black screen and the audio extracted from the HDMI IN port; When the eARC function is enabled, this port outputs 720p black screen and the eARC audio returned from the eARC/ARC OUT 1 port.

6. Application Example

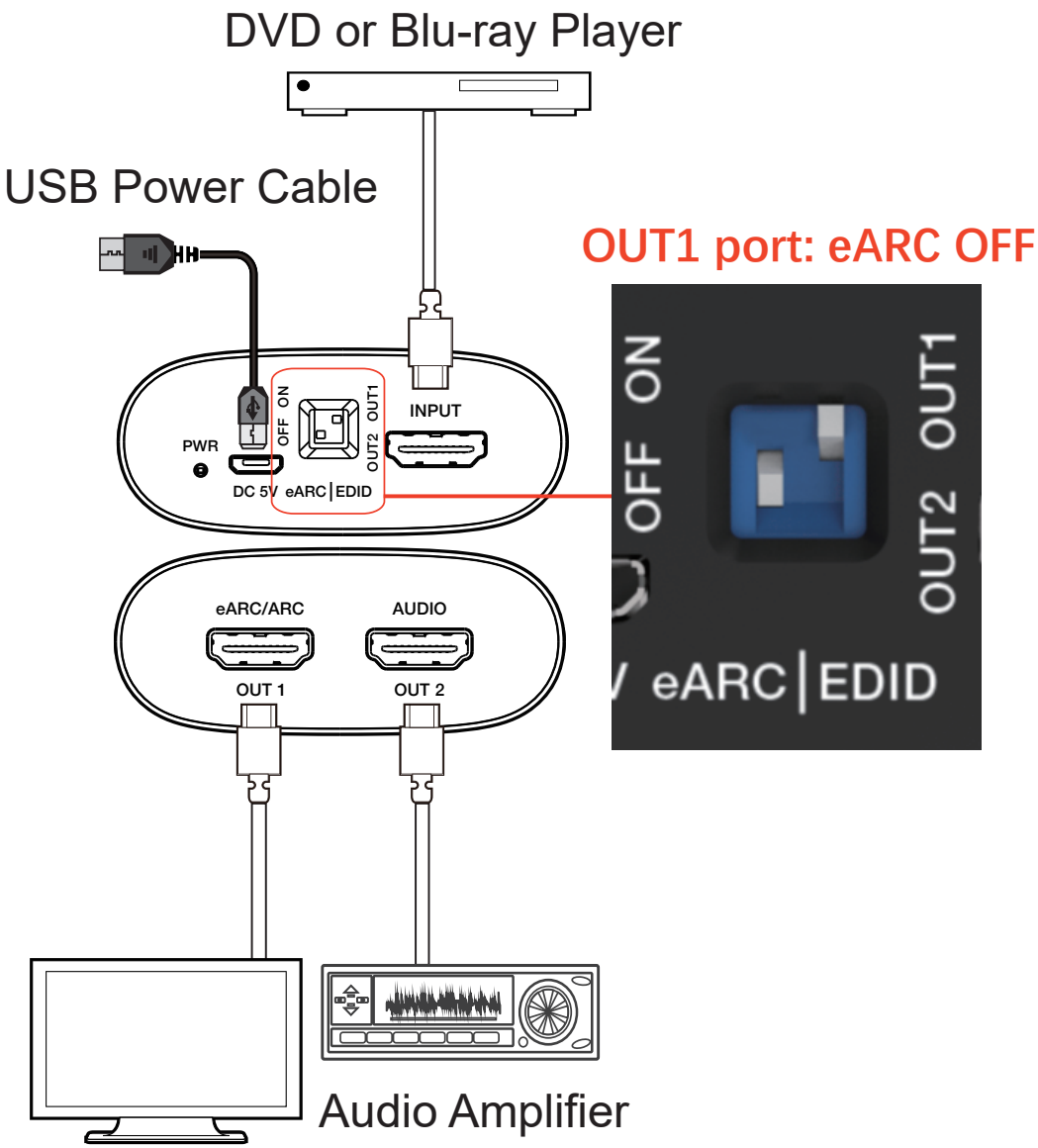
Mode 1: eARC / ARC Application



Notes:

1. It is recommended not to connect any device to the INPUT port.
2. Please connect the OUT 2 port to the input port of AVR.

Mode 2: Ordinary Input Application



Q: Why can't I get any sound from AVR?
A: Please connect the OUT 2 port to the input port of AVR, not the output port. When using the ARC/eARC function, please turn the eARC switch to ON, and let the input of extractor empty. When in ordinary input application, please turn the eARC switch to OFF.

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