

# USER MANUAL

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## HDR HDMI Audio Extractor

(4K@60Hz/UHD/HDCP2.2/ARC/ EDID Setting)

**Model No: HDCN0022M1**

**Enjoy the vivid world!**

# INTRODUCTION

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## 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 converters, switches, extenders, matrixes and splitters are designed to make your A/V device use more convenient, more comfortable, more productive and more cost-efficient.

The HDMI Audio extractor can support 3D,HDR,4K\*2K/60Hz,ARC function. It can connect one HD Source to one HD Display and support one Toslink digital audio out+one Coaxial Audio Out+one LR Analog Audio out.

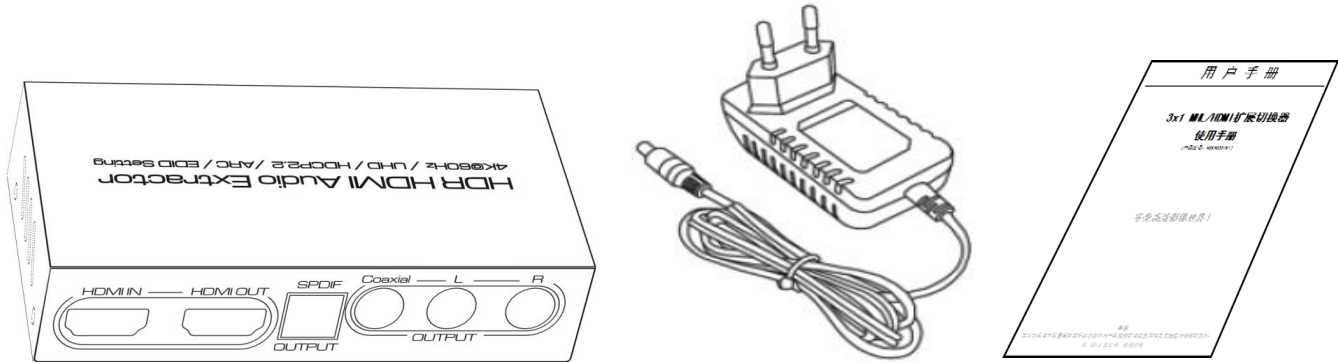
Our devices offer solutions for noise, space and security concerns, data center control, information distribution, conference room presentation, school and corporate training environments.

## FEATURES

- One HDMI input converter to one HDMI+ One Toslink Audio + One Coaxial Audio + One L/R Audio Out
- Output audio support: Toslink Audio +Coaxial Audio +L/R analog Audio Output
- Support HDR
- Support 4K\*2K @60Hz resolution
- Video Format Support: 4Kx2K/60Hz 8Bit YcbCr4:4:4;
- Supports ARC ,TV audio will return and out by the Optical Port;
- HDMI to achieve the synchronization of audio signal separation. Support 2.0/ 5.1/ ADV three kinds of audio mode options
- Support SPDIF digital audio format: Dolby digital (AC3), DTS and LPCM2.0
- LED indication: when source or sink is working, LED related will go bright.
- Led Status Light allows the user to know the working status easily.
- No loss of quality
- Need DC5V/2A power supply

## The accessories with the machines lists as picture:

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



## Physical Connection Showing Picture:

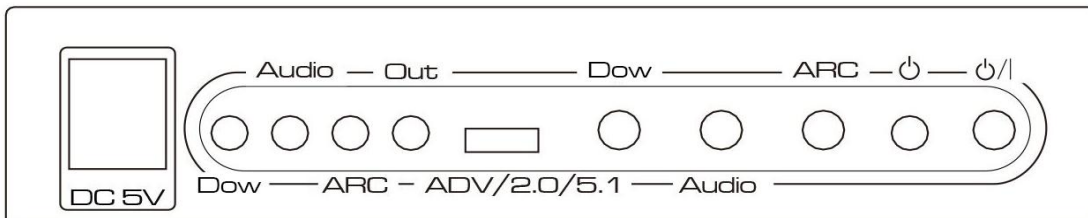


Figure 1.0 Front Panel Showing Picture

DC5V: 5V DC-DC Power Interface

Dow: You can press the button if meet the HDMI 1.3 and HDMI 1.4 Input source incompliant with the HDMI 2.0 Display.(after you press the button, the matched led light will go bright).

Audio: Audio Output Status Led Light ( When the Audio LED goes bright, the device will only output the audio and no video output )

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 + Coaxial and L/R Analog audio

Out: HDMI output led status light

SWITCH: 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 device 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)

**Dow:** The button for improve the compliance ability between the HDMI1.4 or 1.3 sources and the HDMI 2.0 Display.

**Audio:** Audio Output Switch Button (When press the audio button, the device will only have audio output and no video output)

**ARC:** ARC On/Off Button。( This button effects only when you connect one HDMI TV that support ARC.When arc is turned on,the Toslink port and the Coaxial port will both output the TV ARC Audio.)



: Standby Led Light



: Power On/Off Button

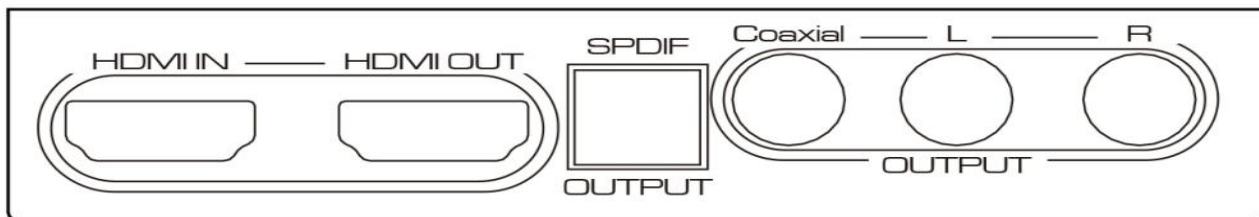


Figure 1.1 rear panel showing picture

HDMI IN: HDMI input interface

HDMI OUT: HDMI output interface (support ARC)

SPDIF: SPDIF/Toslink output ports

Coaxial : SPDIF/ Coaxial output ports

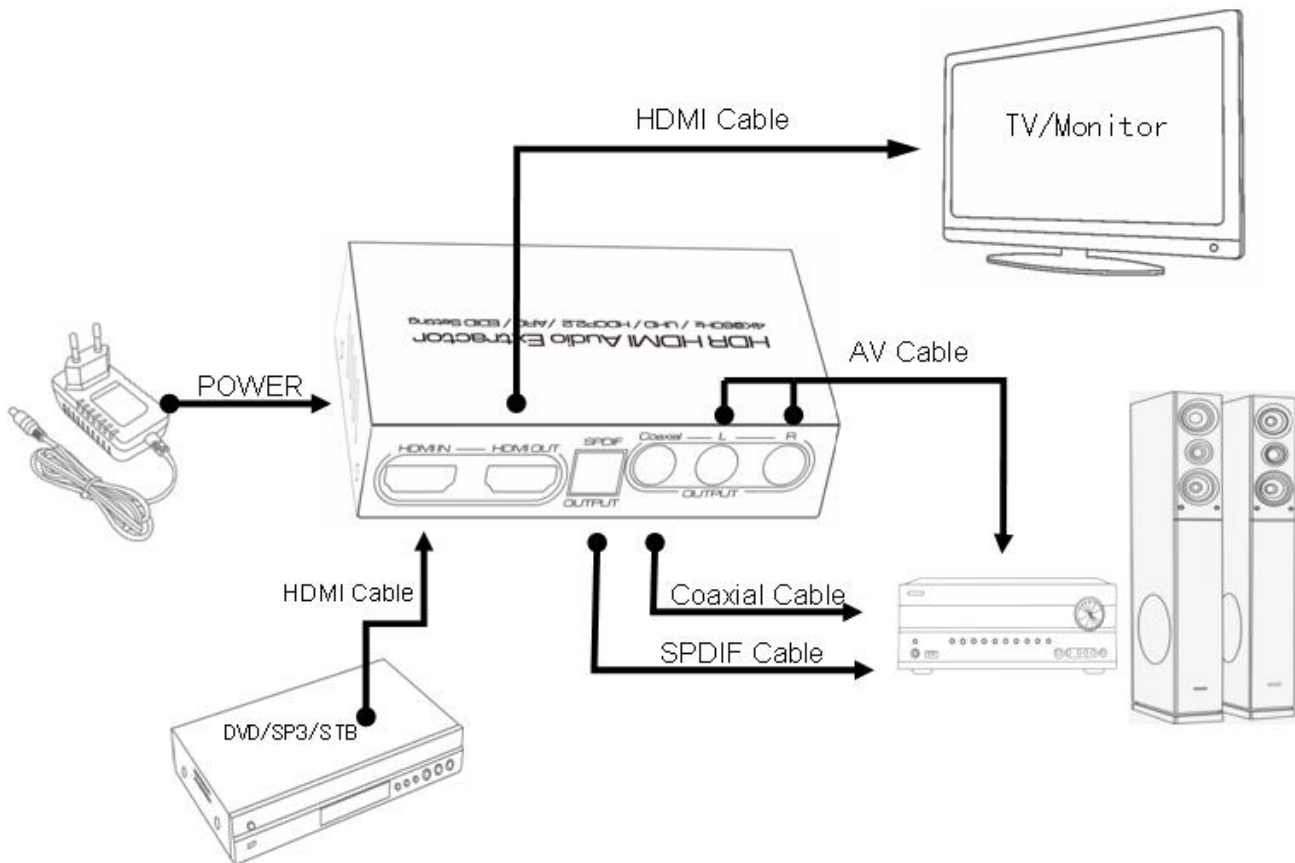
L/R : Analog audio L/R output ports ( Note: If Non LPCM format or multichannel audio input, then L&R no output. )

### Operating and Connecting:

1. To use one HDMI cable to connect the HD Source with the HDMI Input port of the HDMI

audio extractor.

2. To use one HDMI cable to connect the HD Display with the HDMI Output port of the HDMI Audio extractor.
3. To use one AV Cable to connect the LR Output port with the Speaker.
4. To use one Toslink cable to connect the Toslink output port with the AV Receiver.
5. To use one Coaxial cable to connect the Coaxial output port with the AV Receiver.
6. To press the ARC switch key to on/off the ARC function.
7. To connect the extractor with 5V DC power adaptor.



### SPECIFICATIONS:

### HDCN0022M1

HDMI resolution .....4K@60Hz /4K@30Hz/1080P/1080i/720p/576p/576i/480P/480i

Support audio format.....DTS-HD/Dolby-trueHD/LPCM7.1/DTS/Dolby-AC3/DSD

Max bandwidth.....600MHz

Max baud rate.....18Gbps

Input/Output TMDs signal ..... 0.5~1.5Volts p-p(TTL)

Input/Output DDC signal ..... 5Volts p-p (TTL)

Input cable distance..... ≤10m(1080P)/5M(4K) AWG24 HDMI standard cable  
 Output cable distance.....≤10m(1080P)/5M(4K) AWG24 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) .....105X56.8X22.5 (mm)  
 Weight.....160g

**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 machine 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 adaptor.

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-Connected	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	<p>1、Pls to make sure that the TV is on and has been connected with the machine.</p> <p>2、To check if the signal source is on and well connected.</p> <p>3、Check the system connection quality.</p> <p>4、Check if the line is all good quality.</p> <p>5、Check the cable quality</p>
3	Obscure Picture	<p>1、To try again to connect the cable to be free from the unsuccessful connection.</p> <p>2、HDMI Cable Quality</p>
4	No sound	<p>1、Please confirm the setting position of audio mode switch</p>