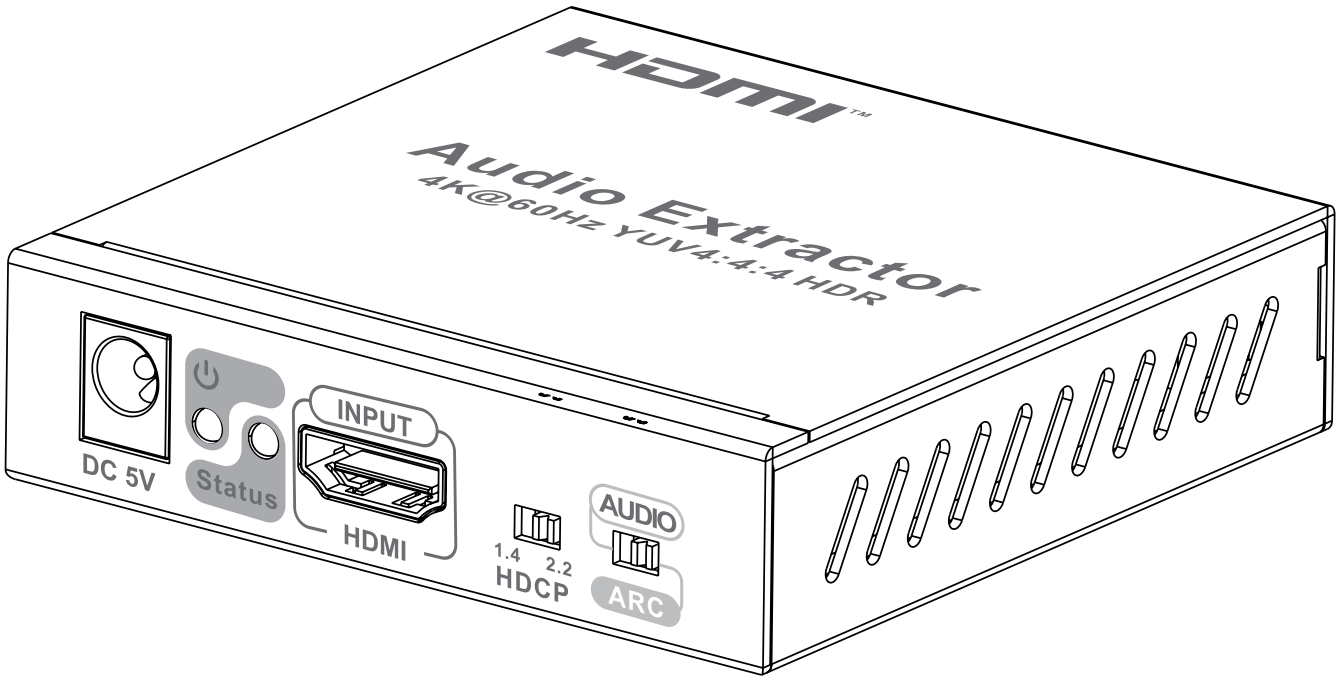
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Communication & Electronics LTD

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HDMI to HDMI+Audio CONVERTER

User Manual



HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

Thank you for purchasing this product. For optimum performance and safety, please read the instructions carefully and keep the manual for future reference.

• Important Safety Notice

Please read below safety instructions carefully before installation and operation:

1. Do not hot plug while it is working.
2. Use DC5V/1A power supply only. Make sure specification matched if using adapters not supplied by factory.

• Introduction

The HDMI audio extractor supports separate high-quality video signal and audio signal from the ultra-high definition signal source. The stripped audio signal is output to the amplifier via SPDIF, COAXIAL or 3.5mm R/L audio port. Support ARC (audio return channel) function, strips the audio signal from the HDMI ARC of the TV, then transmits the audio signal to an amplifier by SPDIF or COAXIAL audio port. Support to convert HDCP1.4 to HDCP2.2, HDCP2.2 to HDCP1.4 , support HDMI resolution up to 4Kx2K@60Hz. This product is perfect for AV transmission in applications of the conference system, multimedia education system, home entertainment etc.

• Feature

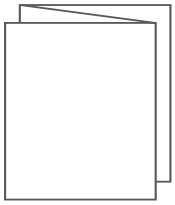
1. One HDMI input converted to one HDMI Video+(SPDIF+R/L+COAXIAL) Audio output.(SPDIF optical audio output and COAXIAL audio output cannot be used simultaneously. R/L stereo output is not available when using the ARC function.)
2. Support HDMI 2.0, HDCP2.2, HDCP1.4

3. Support to convert HDCP1.4 to HDCP2.2, HDCP2.2 to HDCP1.4
4. Support 3D video format
5. Support ARC function
6. Support HDR
7. Resolution supported is up to 4Kx2K@60Hz ultra HD
8. Support YUV4:2:0 / 4:2:2 / 4:4:4 and RGB 4:4:4
9. Lossless transmission
10. Plug and play, easy installation

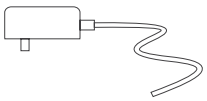
• Package Contents



Converter unit ×1pc



User manual×1pc

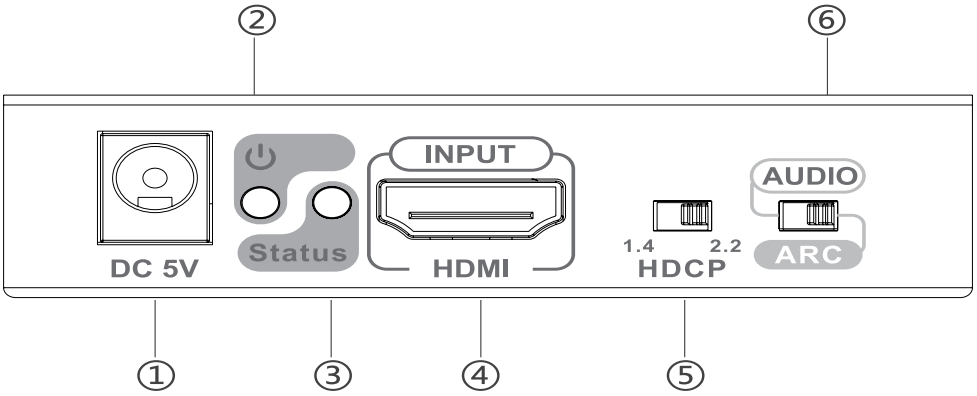


DC5V/1A power adapter×1pc

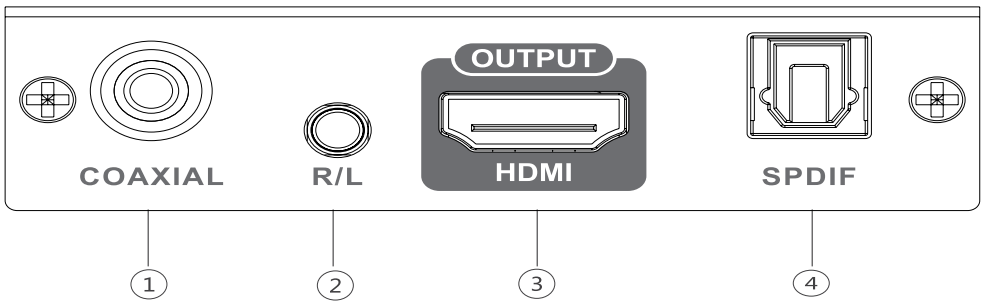
• Installation Requirements

1. HDMI source device(computer graphics card, DVD, PS3, HD monitoring equipment etc.)
2. HDMI display device like SDTV, HDTV, a projector with HDMI input.
3. Audio equipment like a speaker, amplifier, earphone.
4. Cables like HDMI cable(4K×2K requires high-quality cable) audio cable, optical cable, coaxial cable.

• Panel Description



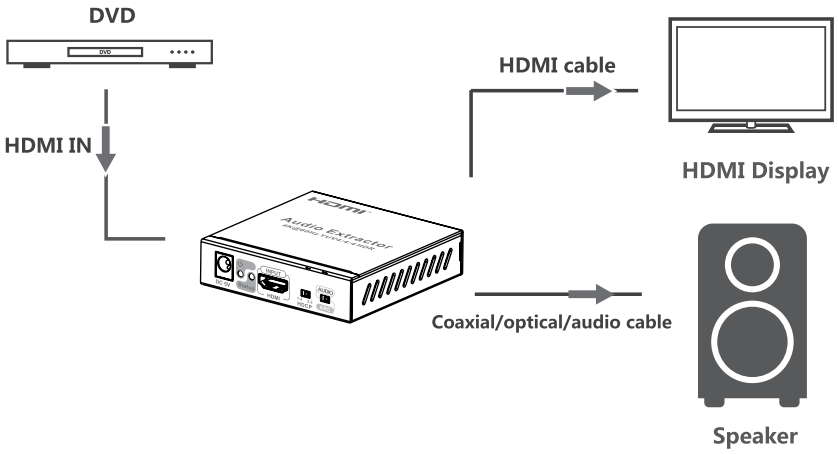
①	DC 5V	Input DC5V power
②	⏻	To indicate the power status of the device
③	Status	To indicate device connection status, LED lights up when there is HDMI input and the display has an image, otherwise, it is off
④	HDMI INPUT	Input HDMI signal
⑤	HDCP	To select HDCP version
⑥	Audio/ARC	To select audio output



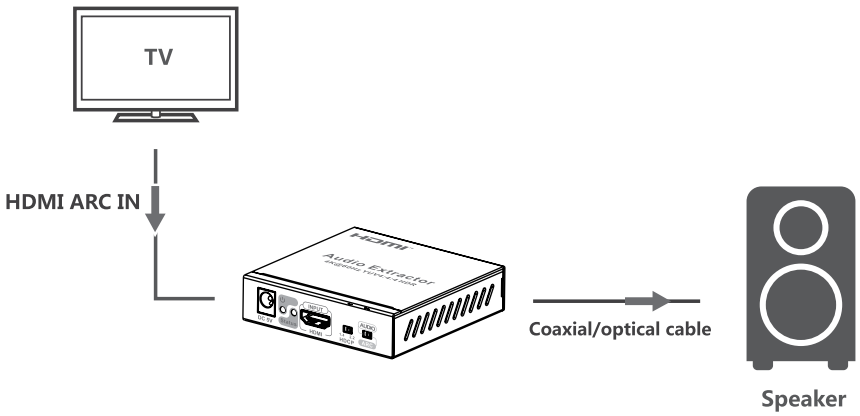
①	COAXIAL	Output coaxial audio
②	R/L	Output R/L stereo audio
③	HDMI OUTPUT	Output HDMI signal(HDMI has no audio output by default)
④	SPDIF	Output optical audio

1. Connection

Mode One:



Mode Two:



2. Connection instruction

Mode one:

1) Connect the source device to the HDMI INPUT of the extractor via HDMI cable.
2) Connect the display device to the HDMI OUTPUT of the extractor via HDMI cable.
3) Switch the HDCP version of the extractor according to reqiurements and dial the audio output switch to AUDIO mode.
4) Select the corresponding port of the extractor according to your needs to connect the speaker or amplifier. The coaxial port connect with a coaxial cable, the SPDIF port connects with an optical fiber cable, and the R/L port connects with an audio cable.
5) Plug the power supply into the device to get started.

Mode two:

1) Connect the HDMI ARC of the TV to the HDMI OUTPUT of the extractor via HDMI cable.
2) Make sure the ARC function of the TV is turned on and dial the audio output switch to ARC mode.
3) Select the corresponding port of the extractor according to your needs to connect the speaker or amplifier. The coaxial port connect with a coaxial cable, the SPDIF connects with an optical fiber cable, the R/L port is not available.
4) Plug the power supply into the device to get started.

NOTE:

1. SPDIF optical audio output and COAXIAL audio output cannot be used simultaneously.
2. If using R/L stereo audio output, only 2.1CH audio format input is supported.

- **FAQ**

Q: No image output?
A: 1) Check the power supply of the unit, make sure the power LED is on.
2) Check if the HDMI cables connected well.
3) Check and make there is an HDMI signal to be fed into the unit.
4) Please make sure that the signal source output is an HDMI signal.

Q: The display is unstable, splash screen, snowflakes or audio stuck?
A: 1) Check and make sure all connections are good and correct.
2) Try to directly connect an HDMI source to display, if it is the same, please change the source device.
3) Use high-quality HDMI 2.0 cable for transmitting 4K×2K UHD signal.

Q: The display can not output 4K×2K UHD image when all connections are correct.

A: 1) Check and make sure the input sources are 4K×2K@60Hz UHD signal.
2) Check and make sure the TV supports the 4K×2K@60Hz resolution.
3) Check if the HDMI cables are compliant with HDMI2.0 standard.

Q: There is no sound of the speaker/amplifier when using the ARC function.

A: 1) Check if the TV turns on the ARC function.
2) Check if the HDMI cable is connected to the HDMI ARC of the TV.
3) Check if the audio output switch has been selected for ARC mode.
4) Check and make sure all connections are good and correct.
5) Check if the volume adjustment switch of the speaker/amplifier is turned on.

• Specification

Items		Specification
Power Supply	Voltage/Current	DC5V/1A
	Power consumption	2W
HDMI Performance And Interface	HDMI compliance	HDMI 2.0
	HDCP compliance	HDCP2.2, HDCP1.4
	HDMI resolution	480i/480p/576i/576p/720p/1080i/1080p@60Hz 4K×2K@24/25/30/60Hz
	Support audio formats	Dolby、DTS、LPCM
	Maximum transfer rate	18Gbps
	Input and output TMDS signal	0.7~1.2Vp-p(TMDS)
	Input and output DDC signal	5Vp-p(TTL)
	Support Input cable length	≤5m(AWG24)
	Support Output cable length	≤5m(AWG24)

Protection Level	Electrostatic protection of the whole machine	1a contact discharge level 3, 1b air discharge level 3, implementation of the standard: IEC61000-4-2
Operating Environment	Working temperature	0 ~ 50℃
	Storage temperature	-10 ~ 70℃
	Humidity (no condensation)	0 ~ 90%
Body Properties	Dimension	80.0(L) x 80.0(W) x 19.5(H)mm
	Material	Iron alloy material
	Treatment process	Sandblasting
	Color	Black
	Weight	175g

Disclaimer

The product name and brand name may be registered trademark of related manufactures. ™ and ® may be omitted on the user manual.
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