

Audio De- embaddor

HDMI™ to HDMI™+Audio Converter

Model Number: RKV3061DM

This HDMI to HDMI + Audio Converter is designed to separate and output audio from a high-quality HDMI video signal. The extracted audio can then be sent to an amplifier or other audio system.

Power Specifications

The device operates on a DC5V/1A power supply and has a power consumption of 2W. The converter is housed in a black, sandblasted iron alloy case. It has dimensions of 80.0mm (L) x 80.0mm (W) x 19.5mm (H) and weighs 175g.

Key Future

- **High-Resolution Video Support:** The converter supports a wide range of video resolutions, including 1080p @ 60Hz and 4Kx2K @ 60Hz, ensuring a crisp and clear picture.
- **Advanced Standards Compliance:** It is compliant with HDMI 2.0 and HDCP 2.2/1.A, making it compatible with the latest devices and content.
- **High-Bandwidth Connection:** With a maximum transfer rate of 18Gbps, this device can handle high-quality, uncompressed video and audio signals without any loss of quality.
- **Versatile Audio Format Support:** The converter supports a variety of audio formats, including Dolby, DTS, and LPCM, providing flexibility for different audio setups.

Protection and Operating Conditions

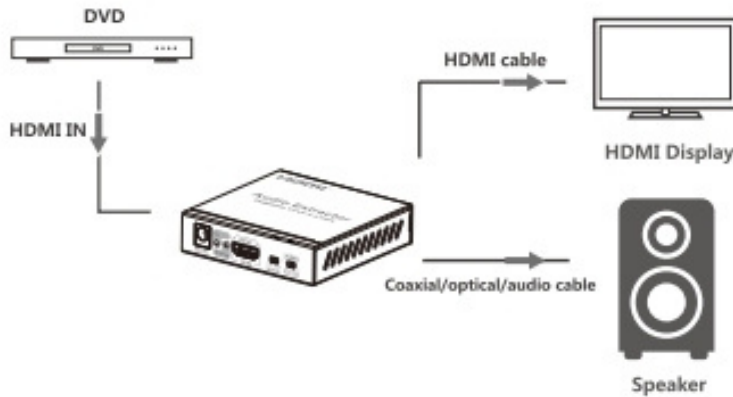
For protection, the converter has electrostatic discharge protection for the entire machine, meeting 1a contact discharge level 3 and 1b air discharge level 3, in accordance with the IEC61000-4-2 standard. It is designed to operate in temperatures ranging from 0 to 50°C and can be stored in temperatures from -10 to 70°C. The operating humidity range is 0-90% with no condensation.

HDMI Performance and Interface

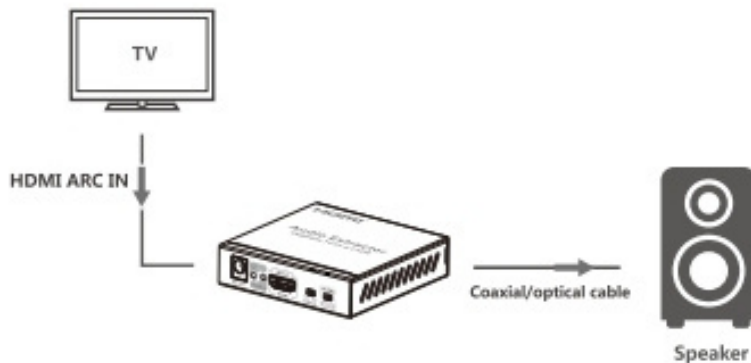
It is compliant with HDMI 2.0 and HDCP 2.2/1.A standards. The converter supports a wide range of resolutions, including 480i, 480p, 576i, 576p, 720p, 1080i, and 1080p at 60Hz, as well as 4Kx2K at 24, 25, 30, and 60Hz. It supports Dolby, DTS, and LPCM audio formats and has a maximum transfer rate of 18Gbps. The input and output TMDS signal is 0.7-1.2Vp-p, while the DDC signal is 5Vp-p (TTL). It can support both input and output cable lengths of up to 5 meters using AWG24 cables.

1. Connection

Mode One:

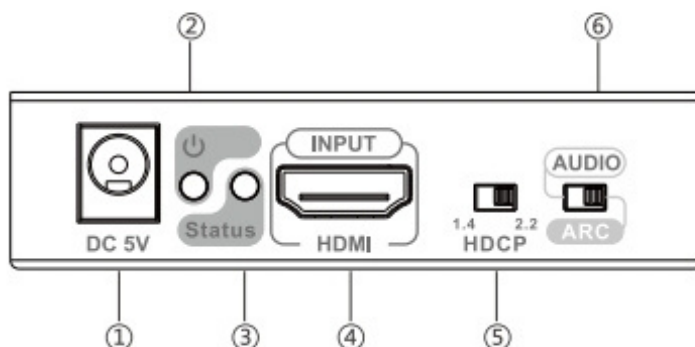


Mode Two:

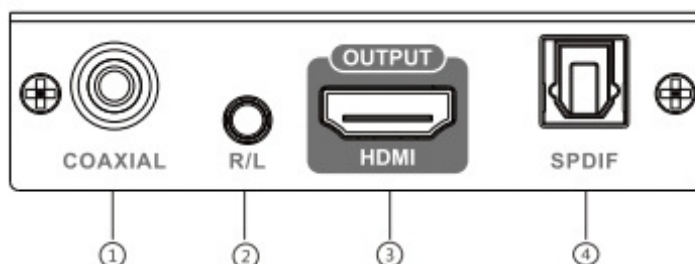


Functionality and Usage

The primary function of this converter is to extract the audio stream from an HDMI input and output it as a separate audio signal. This is particularly useful when your display does not have built-in speakers or when you want to use a more powerful audio system, such as an amplifier or a soundbar. The device takes an HDMI input and provides an HDMI output for the video, along with a separate audio output.



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

• Package Contents



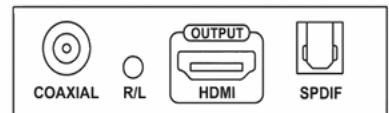
Converter unit ×1pc



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 (4Kx2K requires high-quality cable) audiocable, optical cable, coaxial cable

Specifications

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



Technical Specifications

This converter is compliant with both HDMI 2.0 and HDCP 2.2/1.A standards, ensuring compatibility with modern devices and content protection protocols. It supports a wide array of video resolutions, from 480i up to 4Kx2K at 60Hz, and can handle a maximum data transfer rate of 18Gbps. In terms of audio, it is compatible with Dolby, DTS, and LPCM formats. The unit is housed in a durable iron alloy case, has a compact design, and features electrostatic discharge protection for added reliability.

Notes:

The model and its technology stack may evolve; future updates can introduce changes to functionality and performance.



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