

CM423v3 HDMI 2.0 Audio Extractor Optical SPDIF + 3.5mm Stereo with ARC

CM423v3

User Manual

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About Product

CM423v3 is an HDMI 2.0 audio extractor that supports video resolutions up to 4K@60Hz and offers audio output via optical SPDIF or 3.5mm stereo. It also features ARC (Audio Return Channel) compatibility, allowing direct connection to an ARC-enabled TV. This makes it an ideal solution for outputting audio to an external speaker system with analog or optical inputs, especially for audio systems without HDMI inputs.



5V USB Power Input 3.5mm Audio Output Optical SPDIF Output HDMI Output/HDMI ARC



ARC ON/OFF Switch Audio Mode Switch Input LED Indicator HDMI Input

3 Audio Modes

- **TV (Auto) Mode:** 3.5mm and SPDIF audio output formats are determined by the TV EDID signal from HDMI input (5.1CH audio is supported by SPDIF port only)
- **2.0 (2CH) Mode:** 3.5mm and SPDIF ports will output stereo audio. Extracts the 2CH PCM stereo audio signal from the HDMI input and output through its 3.5mm Audio/Optical SPDIF ports at the same time.
- **5.1 (5.1CH) Mode:** SPDIF port will output 5.1CH audio, 3.5mm port is disable. Please note HDMI input source must contain 5.1 channel digital audio, otherwise SPDIF will be no audio output.

ARC Mode (Audio Return Channel)

ARC is an HDMI feature, built into many TVs, uses a single HDMI connection to send audio from a TV back to the audio extractor, so you can easily connect your speaker or soundbar system.

- When ARC mode is **OFF**, audio signal is extracted from the HDMI source device that connected **HDMI INPUT** port on the extractor.
- When ARC mode is **ON**, audio signal is extracted from the TV that connected **HDMI Output/ARC** port on the extractor.

! IMPORTANT NOTES

- To use ARC mode, please make sure your TV supports ARC and connect to the ARC enabled HDMI port on TV. And you need to enable external speaker in TV setting.
- Please make sure the TV ARC port is connected to the **HDMI OUTPUT/ARC** port on the extractor.
- Please note some TV only can support 2CH audio via ARC, not all TV can support 5.1CH audio via ARC.

| Features

- Compliant with the HDMI 2.0b standard for broad compatibility
- Supports HDMI input audio extraction or HDMI ARC audio extraction
- Supports 18Gbps bandwidth and HDMI resolution up to 4K@60Hz
- Allows HDMI input to be passed through to a HDMI output while extracting audio for external sound system
- Supports HDMI ARC, allowing direct audio extraction from ARC-enabled TV
- Optical SPDIF and 3.5mm audio output extracted from HDMI input or ARC
- HDCP 2.2 compliant, ensuring compatibility with encrypted media
- Powered by USB, micro USB port for power input
- Supports compressed audio DTS Digital, Dolby Digital and uncompressed audio PCM, LPCM

| Specifications

- HDMI Version: HDMI 2.0b (backwards compatible)
- HDMI resolution support: 480i/480p/576i/576p/720p/1080i/1080p/4K@60Hz
- Input: 1x HDMI Input
- Audio Outputs: 1x SPDIF (Optical), 1 x 3.5mm Stereo Audio (Analog)
- Video Output: 1x HDMI output (HDMI pass-through)
- ARC Support: Yes (with switch)
- HDMI 3D Support: Yes
- HDCP Version: HDCP 2.2
- Max Bandwidth: 600MHz
- Max Baud Rate: 18Gbps
- Support Color Format: 24bit, 30bit, 36bit deep color
- Digital audio Support: Dolby Digital, Dolby TrueHD, DTS-HD, DTS, PCM, LPCM
- Power Input: Micro USB (5V/1A)

| FAQ

Q: Should I use ARC ON or OFF mode?

When ARC mode is OFF, audio signal is extracted from the HDMI source device that connected **HDMI INPUT** port on the extractor. When ARC mode is ON, audio signal is extracted from the TV that connected **HDMI Output/ARC** port on the extractor.

Q: Can I still use HDMI INPUT when ARC mode is ON?

No, the HDMI INPUT on the extractor will be disabled when ARC mode is ON, the extractor will receive audio signal from TV via **HDMI OUTPUT/ARC** port only.

Q: Do I have to connect USB power?

Yes, external power is required to make this extractor work, you can connect the USB cable to a USB wall charger (5V1A) or USB port on TV.

Q: Cannot display 4K@60Hz signal

First please make sure all HDMI cables are 28AWG 19+1 HDMI cable, which is capable to 18Gbps. Also you can change the Video output setting to Automatic or YUV, then power off and restart the HDMI output device.

Q: How to get 5.1CH Audio?

Please set the Audio Mode to "**TV**" or "**5.1**". Check if the HDMI source contains 5.1CH digital audio, and enable 5.1CH audio output under audio setting on your HDMI source device.

To enable 5.1CH audio under ARC mode, please make sure TV can support 5.1CH audio via ARC and enable 5.1CH audio in TV setting.

Q: How do I know if my TV is ARC compatible?

ARC complaint HDMI ports are normally labelled with the letters "ARC" for easy identification. Check your TV's HDMI ports and see if ARC is printed on any of these connectors. Please note most TVs only have one ARC enabled HDMI port.

Q: TV remote can't control the volume after ARC enabled

After you turn on ARC, then the TV remote won't control the volume, you can only adjust the volume on your speaker system or sounder connected to extractor.

| Warranty

1 Year limited Warranty. 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 the failure does not amount to a major failure.

For our assistance with regards to warranty please email to support@simplecom.com.au or create a support ticket at <http://www.simplecom.com.au>

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