



CM412 HDMI 2.0 1 IN 2 OUT Splitter
4K@60Hz

User Manual

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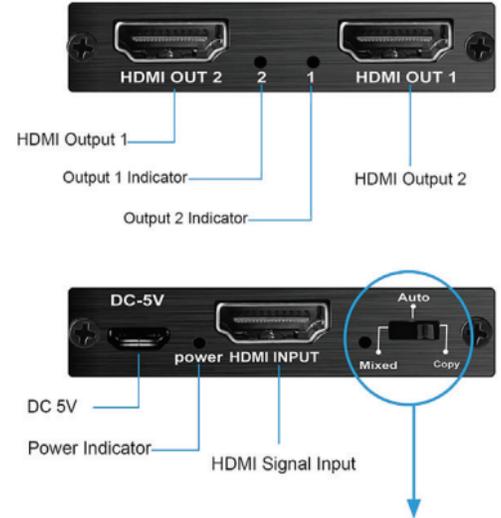
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About Product

CM412 is a 2 Port HDMI 1x2 splitter, allows to duplicate one HDMI signal source device to two displays. CM412 supports video resolutions up to 4Kx2K@60Hz, as well as HDR10 and HDCP2.2 compliant. Ideal for latest online streaming box and game console with 4K HDMI output. With downscaling feature, you can use different resolution monitors under Mixed mode.



Auto: Detect HDMI source and 2 displays automatically
Copy: Copy the EDID of the display with lowest resolution
Mixed: HDMI 1 output 4K, HDMI 2 output 1080p

Features

- Duplicate one HDMI input signal to two identical HDMI outputs
- Auto detects and configures video resolution according to the capabilities of each connected display*
- Downscaling feature, output 4K and 1080p simultaneously
- Support HDMI 2.0b, backwards compatible with HDMI 1.4, 1.3
- Support HDCP 2.2, also compatible with HDCP 1.4
- Support resolution up to 4K@60Hz (3840X2160)
- Support 3D, HDR10 (High Dynamic Range)
- LED indication for power and signal
- Plug and play, no software required

Specifications

- HDMI Version: HDMI 2.0b
- HDMI Resolution: 480i/480p/576i/576p/720p/1080i/1080p/2160p@ 60Hz
- Input Ports: 1 x HDMI (Female type)
- Output Ports: 2 x HDMI (Female type)
- Video Support: up to 4K@60Hz YUV 4:4:4, 4K@60Hz with HDR YUV 4:2:0
- Audio Support: DTS-HD, Dolby True HD, Dolby Digital Plus, LPCM 7.1
- HDR Format Support: HDR10
- HDCP Version Support: HDCP 2.2
- Max Bandwidth: 18Gbps
- Max Input cable distance: 1080p<10m, 4K<5m (28AWG HDMI 19+1 cable)
- Max Output cable distance: 1080p<10m, 4K<5m (28AWG HDMI 19+1 cable)
- Max Power Consumption: 5W
- Power requirement: USB DC 5V1A

FAQ

Q: The HDMI splitter has no signal out.

A: Please check whether the indicator light is on. If indicator is off, please check USB power source. If indicator is on, please try the Display mode switch, and check if the connected HDMI cable is firmly connected.

If still no signal output, please disconnect all input and output cables and connect them again, please try shorter cable if cable length is more than 10M

Q: Cannot display 4K@60Hz signal.

A: First please make sure the HDMI cable to TV is 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: Can I use two different Displays with different resolution?

A: Yes, under Auto mode, it will detect both displays and output the lower resolution. e.g. if the resolution of the connected displays is 1080p and 4K, the Splitter will detect EDID and automatically choose the 1080p to make sure the signal can be shown normally on the two displays. Under Mixed mode, HDMI 1 will output 4K only, HDMI 2 will output 1080p only

Q: Under Mixed mode, can HDMI 2 downscale to 720p or lower?

A: No, Mixed mode is fixed, input must be 4k and HDMI 2 port can't output other resolutions other than 1080p

Q: Turn off one of the two output devices, the other one loss signal.

A: If the resolution support of two displays is not the same (e.g one TV is 1080p and one is 4K), once you turn off one device, the splitter will reset itself

Q: Flickering on the display or display resolution is lower than the output resolution

A: Please check and adjust the resolution of source device, the splitter distributes the picture according to the lowest resolution standard. For example, if the resolution of the connected output source is 1080p and 4K, the Splitter will detect EDID and automatically choose the 1080p to make sure the signal can be shown normally on the two displays.

Q: No signal when the HDMI signal source is a PC/Laptop.

A: Please check the screen properties on Windows first, you need to select Duplicate mode or Expand Mode to activate the HDMI output on your PC as a secondary display.

Important Notes*

- Down-scaling to 1080p only, 720p and 480p is not supported
- YUV 4:2:2 down-scaling is not supported
- Refresh frame rate conversion (e.g., 60Hz to 24Hz) is not supported
- 4K@30Hz monitors will display in 1080p@60Hz when the source content is 4K@60Hz
- The Splitter can bypass 4K HDR data content but cannot process it to make 4K HDR content fit 1080p proportionally