



HDMI 2.0 2x4 Splitter 4K with Downscaling User's Guide



P/N: HDSplit24

Thank you for purchasing from gofanco. Our products aim to meet all your connectivity needs wherever you go. For optimum performance and safety, please read the instructions carefully and keep this User's Guide for future reference. If you need more information about our products, please visit www.gofanco.com. For technical support, please email us at support@gofanco.com. For drivers/manuals download, please go to www.gofanco.com/download.

Important Safety Notices

Please read safety instructions carefully before installation and operation.

- Do not expose this unit to rain, heavy moisture, or liquid
- Do not repair the device or open the housing without professional guidance to avoid electric shocks. Doing so may void your warranty
- Keep the product in a well-ventilated location to avoid damage from overheating
- Shut off power and make sure environment is safe before installation
- Do not plug the HDMI cables in/out when the device is in use to avoid cable damage
- Use the included DC5V power adapters only. Make sure the specification matches if using 3rd-party DC power adapters
- Do not use liquid or aerosol cleaners to clean this unit, unplug the power before cleaning
- Unplug the power cord when left unused for a long period of time

Introduction

The HDMI 2.0 2x4 Splitter 4K with Downscaling allows you to distribute content from any of the 2 HDMI source devices to any of the 4 HDMI display devices, it supports resolutions up to 4Kx2K@60Hz YUV 4:4:4 8bit.

Features

- Splits HDMI signals from any 2 source devices to any 4 display devices
- Compliant with HDMI 2.0 and HDCP 2.2
- Video resolutions up to 4K@60Hz YUV4:4:4
- Supports downscaling for mixed 4K and 1080p display setups

Package Contents

- 1x HDMI 2.0 2x4 Splitter 4K with downscaling
- 2x Mounting ears with 4 screws
- 4x Plastic pads
- 1x Power adapter
- 1x User's guide

Installation Requirements

1. HDMI source device (computer, DVD player, XBOX, PS3, etc)
2. HDMI display device (SDTV/Monitor, HDTV/Monitor, projector, etc.)
3. UTP/STP CAT5e/6 cable following IEEE-568B wiring standard

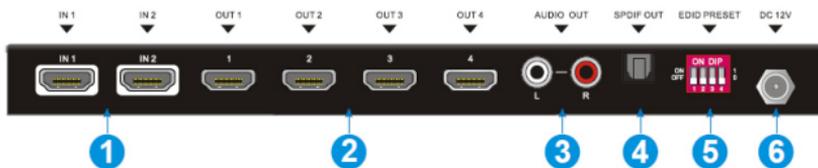
Product Layout

Front Panel



1. Power LED	Lights up when power is detected
2. Output LEDs	Lights up when HDMI output is active
3. Source Button and LEDs	<p>A) Press to switch to the next source device, the corresponding LED will light up</p> <p>B) Automatic Switching Mode*: Press and hold down for at least 3 seconds, the splitter will automatically select the first available active source device starting with HDMI Input 1.</p> <p>*Note: a) When a source device is connected or turned on, the splitter will switch to it automatically; b) When an active source device is removed or turned off, the splitter will switch to the next active source device automatically; c) When the splitter is power cycled, it will resume from the last device setup</p> <p>C) To exit automatic switching mode, press and hold down the button for at least 3 seconds again</p>
4. Display On Button and LEDs	Press to turn on the displays. LED blinks when the button is pressed
5. Display Off Button and LEDs	Press to turn off the displays. LED blinks when the button is pressed
6. EDID	3-Pin DIP switch for EDID management. Refer to EDID Management for details
7. Firmware (FW)	Micro USB port for firmware upgrade

Back Panel

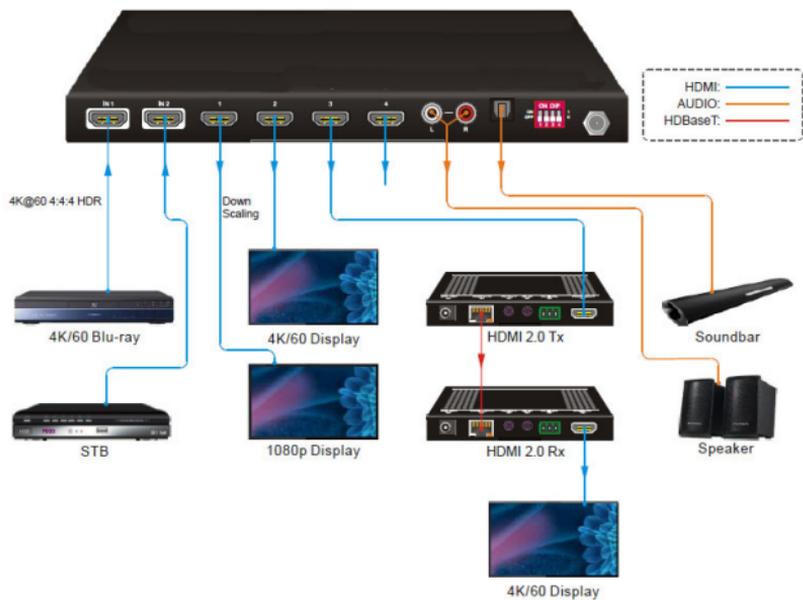


1. HDMI Inputs	Connect HDMI source devices here
2. HDMI Outputs	Connect HDMI display devices here
3. RCA Audio Output	Analog Stereo audio output
4. SPDIF Output	Toslink connector for optical digital audio output
5. EDID DIP Switch	4-Pin DIP switch for setting EDID
6. Power Adapter Jack	Connect the included power adapter here

Hardware Installation

1. Power off all devices including your HDMI source and HDMI display(s).
2. Connect your HDMI source devices to the Splitter's HDMI Input connectors with an HDMI cable (HDMI cable not included).
3. Connect your HDMI displays to the HDMI output connectors with an HDMI cable (HDMI cable not included).
4. Plug the included power adapter into the power adapter jack, then plug the power adapter into a reliable power source.
9. Power on all connected devices.
10. The Splitter is ready for use.

Connection Diagram



EDID Management

The Extended Display Identification Data (EDID) is used by the source device to match its video resolution with the connected display(s). By default, the source device obtains its EDID from the first connected display. However, since displays with different capabilities are often connected to the splitter, the 3-pin DIP switch on the front panel and the 4-pin DIP switch on the rear panel can be used in combination to set the EDID to a fixed value for ensuring video compatibility for mixed display setup.

Preset EDID



Switch Status	Description
L. RES	The splitter reads EDID from all connected displays, and then the source device will automatically use the EDID with the lowest resolution. This EDID setting offers the best video compatibility in mixed display setups
PRESET	This mode activates the 4-Pin DIP switch on the rear panel, it can be used for selecting predefined EDID and customizing and EDID as needed
H.RES	The splitter reads EDID from all connected displays, and then the source device will automatically use the EDID with the highest resolution. This EDID setting offers the best video compatibility in identical display setups

Predefined EDID

When the 3-Pin DIP switch on the front panel is in PRESET mode, the 4-Pin DIP switch on the rear panel can be used to set the EDID to a built-in fixed value. Use the following table to determine the settings for the 4-Pin DIP switch for specific video resolution and audio capabilities.

The lower switch position represents "0", and the upper switch position represents "1".



Switch Status	Video Resolutions	Audio Format
0000	The source device will automatically obtain the EDID of the display connected to HDMI Out 1 and use it for all the connected displays	
0001	The source device will automatically obtain the EDID of the display connected to HDMI Out 2 and use it for all the connected displays	
0010	The source device will automatically obtain the EDID of the display connected to HDMI Out 3 and use it for all the connected displays	
0011	The source device will automatically obtain the EDID of the display connected to HDMI Out 4 and use it for all the connected displays	
0100	720p	LPCM
0101	1080p	LPCM
0110	1080p	DTS/Dolby
The settings below support mixed 4K and 1080p displays		
0111	3840x2160p@30Hz	LPCM 2ch
1000	3840x2160p@30Hz	DTS/Dolby 5.1ch
1001	3840x2160p@60Hz	LPCM 2ch
1010	3840x2160p@60Hz	DTS/Dolby 5.1ch

Firmware Upgrade

Firmware files can be downloaded from gofanco's website, when they become available. Go to www.gofanco.com/download, and use the part number to search for your device.

Follow the steps below to upgrade the firmware through the Micro USB port.

1. Connect the splitter to the PC using a USB cable.
2. Power on the splitter, the PC will automatically detect a U-disk named **Bootdisk**.
3. Double click to open the U-disk, a file named **Ready.txt** will be displayed.
4. Copy the latest upgrade file (.bin), downloaded earlier, to the **Bootdisk**.
5. Reopen the U-disk, if you see the file **Success.txt** the firmware update is successful.
6. Remove the USB cable after successful firmware upgrade and power on the splitter.

Troubleshooting

Problem	Potential Cause	Solution
Color loss or no video signal on HDMI display	The HDMI cables may not be connected properly or may be damaged	Check whether the HDMI cables are connected properly and in good working condition
	The display is not compatible with the current output resolution	Make sure the resolution of the display(s) is compatible with the current output resolution
No signal output to the displays	The HDMI cable may not be connected properly or may be damaged	Check the HDMI cable connection for good working condition. Replace the HDMI cable if needed
The screen is showing pixilated or broken images	Poor quality or damaged HDMI cable	Change to higher quality HDMI cable

Specifications

HDMI	v2.0
HDCP	v2.2
Input Connector	2 HDMI
Output Connector	4 HDMI
Resolution (Input & Output)	Up to 4Kx2K@60Hz YUV 4:4:4 8Bit
Bandwidth	18Gbps
HDMI Audio	LPCM 7.1, Dolby Atmos, Dolby TrueHD, Dolby Digital Plus, DTS:X, and DTS-HD Master Audio, pass-through
Stereo Analog L/R Audio	PCM
Toslink Digital Audio	PCM, Dolby Digital, DTS, DTS-HD
Frequency Response	20Hz ~ 20KHz, ± 3 dB
THD + N	<0.05% (-80dB), 20Hz ~ 20KHz bandwidth, 1KHz sine at 0dBFS level (or max level)
SNR	>80dB, 20Hz ~ 20KHz bandwidth
Power Consumption	12W (Max)
Dimensions (WxHxD)	9.13" x 0.79" x 3.93"
Weight	1.45lbs
Operating Temperature	14 F to 131 F
Storage Temperature	-13 F to 158 F
Relative Humidity	10% to 90%

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