

8K HDMI Switch, 4x1



Quick Installation Guide DS-55335



1. Introduction

The DIGITUS® 8K HDMI Switch, 4x1 offers additional HDMI connections for your output display – 4 signal sources can be connected to the screen via just 1 HDMI connection. Audio signals can also be decoupled via Toslink or 3.5 mm stereo connection and played back separately. Conveniently switch between signal sources via remote control, on the device itself or via automatic detection.

2. Main Features

- Convenient switching between 4 signal sources via remote control, on the device itself or via automatic detection
- Audio extractor: Toslink / stereo (3.5 mm) – Decoupling and separate playback of the audio signal
- EDID switch / management
- Max. Resolution: 8K/60Hz (4:4:4)
- Video bandwidth: 48 Gbps
- Supports High Dynamic Range (HDR)
- Supports HDCP 2.3
- Supports Deep Color (36-bit)
- HDMI 2.1

3. Package Content

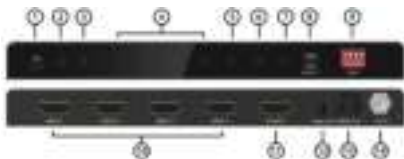
- 1x HDMI Switch
- 1x Remote control (2x AAA batteries, not included)
- 1x Power supply unit (5V/1A, 1.2 m) with screw connector
- 1x QIG

4. Technical Features

Input Ports	HDMI x 4
Output Ports	HDMI x 1
Vertical Frequency Range	50/60/ 120Hz
Video Amplifier Bandwidth	12Gbps/1200MHz per channel (48Gbps all channels)
Interlaced (50&60Hz)	480i,576i,1080i
Progressive (50&60Hz)	480p,576p,720p,1080p,4K@24/30Hz, 4K@50/60/120Hz, 8K@24/30/50/60Hz
Operating Temperature	0°C to 70°C
Storage Humidity	5% to 90% RH non-condensation
Power Consumption (Max)	5W
Dimension	188 x 70 x 18mm
Weight	287g

5. Panel Description

Remote Control Size: 128.5 x 40 x 17.5mm	
1. Power: Pressing to turn on/off the switcher	
2. 1-4: Pressing the number to select the input source accordingly	
3. Pressing to turn on/off the IR receiver function if the switcher IR mode LED indicator, on is in normal IR receiver mode, off is in no IR function mode.	



1.)	USB(Service): For Factory Use Only
2.)	Power LED Indicator Red LED indicates "standby mode" Blue LED indicates "working mode" No LED indicates "No Power supply connected"

3.)	O: HDMI Output LED Indicator
4.)	1-4: HDMI Input 1-4 LED Indicator
5.)	Auto Mode LED Indicator ON is In Automatic Switching Mode OFF is in Manual Switching Mode
6.)	IR Mode LED Indicator ON is in normal IR receiver Mode OFF is in no IR Function Mode
7.)	IR Receiver port
8.)	SELECT: Change the Input Source Select Button
9.)	EDID: DIP Switch for Bypass EDID and Fifteen Default EDID modes
10.)	INPUT 1-4: HDMI Input 1-4 port
11	OUTPUT: HDMI Output port
12	Audio Output: Connect to the Audio Output Devices via 3.5mm Cable
13	SPDIF Output: Connect to the Audio Output Devices via SPDIF Cable
14	DC/5V: DC 5V Input

6. Supported formats

- Support full 3D video format
- Support high-definition resolution 8K@60Hz 4:4:4, 4K@120Hz and 1080P@240Hz
- Support 1200MHz/12Gbps per channel bandwidth (48Gbps all channels)
- Support 12bit per channel (48bit all channels) deep color
- Support HDCP 2.3, and back compatible with the HDCP2.2 and HDCP1.4
- Support High Dynamic Range (HDR) video pass-through, such as HDR10/HDR10+/Dolby vision etc.
- Support Consumer Electronics Control function (Output 1 only)
- Support uncompressed audio such as LPCM
- Support compressed audio such as DTS, Dolby Digital (including DTS-HD Master Audio and Dolby TrueHD)
- Support EDID management for copy output1 EDID and fifteen default EDID modes

Note:

- If you would like to output 8K@60Hz, 4K@120Hz and 1080P@240Hz via the switcher in your displays, please make sure your source devices, your cable and your monitors can all support the resolution and refresh rate you need to output before
- You must use HDMI 2.1 cables (1,5 m max.) to be able to reach 8K/60Hz.



↓=HIGH ↑=LOW

Binary Code	4 3 2 1	EDID Setting Description
0000	↑ ↑ ↑ ↑	Copy EDID from HDMI Output1
0001	↓ ↑ ↑ ↑	8Kx4K@60 4:4:4/8Kx4K@30 4:4:4/4Kx2K@120Hz 4:4:4, 48G, HDR10, 2CH AUDIO
0010	↑ ↓ ↑ ↑	8Kx4K@60 4:4:4/8Kx4K@30 4:4:4/4Kx2K@120Hz 4:4:4, 48G, HDR10, DOLBY/DTS 5.1
0011	↓ ↓ ↑ ↑	8Kx4K@60 4:4:4/8Kx4K@30 4:4:4/4Kx2K@120Hz 4:4:4, 48G, HDR10, HD AUDIO
0100	↑ ↑ ↓ ↑	4Kx2K@60, 18G, HDR10, 2CH AUDIO
0101	↓ ↑ ↓ ↑	4Kx2K@60, 18G, HDR10, DOLBY/DTS 5.1
0110	↑ ↓ ↓ ↑	4Kx2K@60, 18G, HDR10, HD AUDIO
0111	↓ ↓ ↓ ↑	4Kx2K@60, 10.2G, HDR10, 2CH AUDIO
1000	↑ ↑ ↑ ↓	4Kx2K@60, 10.2G, HDR10, DOLBY/DTS 5.1
1001	↓ ↑ ↑ ↓	4Kx2K@60, 10.2G, HDR10, HD AUDIO

1010	↑ ↓ ↑ ↓	1080p, 2CH AUDIO
1011	↓ ↓ ↑ ↓	1080p, DOLBY/DTS 5.1
1100	↑ ↑ ↓ ↓	1080p, HD AUDIO
1101	↓ ↑ ↓ ↓	1280x720p@60 DVI
1110	↑ ↓ ↓ ↓	1920x1080p@60 DVI
1111	↓ ↓ ↓ ↓	4Kx2K@30, 10.2G, HDR, 2CH AUDIO

7. Connection Diagram



8. Troubleshooting

Q: Power light is off, and product is not working. How can I fix this?

A: First, please check the following items:

- Ensure that your devices HDMI inputs and power supply are properly connected, and power is turned on.
- Check the HDMI port of display, if it is selected and properly connected.

Q: My display flickers. What could be causing this?

A: This may be caused by one or more of the following:

- Make sure the HDMI cables are securely connected.
- Make sure that the HDMI cables are Ultra High Speed HDMI 2.1 cables, and the max. length is 1.5 m each for input and output at 8K/60Hz (4:4:4) | at 4K/60Hz the max. length is 4 m each for input and output.
- Change to another port to check the display.
- Change to another EDID mode to check the display.

Q: The switcher can't output 8K resolution to the display. Is it normal?

A: No, the product can support 8K resolution.

- it need the both display, the input source and the HDMI cable support the 8K resolution. If one of the device not support the higher resolution, please change another lower resolution to display

Disclaimer

Hereby ASSMANN Electronic GmbH declares that the Declaration of Conformity is part of the shipping content. If the Declaration of Conformity is missing, you can request it by post under the below mentioned manufacturer address.

info@assmann.com

Assmann Electronic GmbH
Auf dem Schüffel 3
58513 Lüdenscheid
Germany

