

# **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**

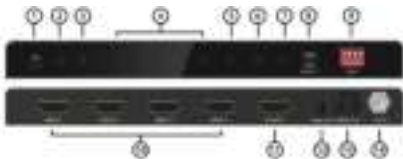
- 1x HDMI Switch
- 1x Remote control (2x AAA batteries, not included)
- 1x Power supply unit (5V/1A, 1.2 m) with screw connector
- 1x QIG

## 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<br>(48Gbps all channels)                  |
| Interlaced (50&60Hz)      | 480i,576i,1080i                                                      |
| Progressive (50&60Hz)     | 480p,576p,720p,1080p,4K@24/30Hz,<br>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:<br>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.) | <b>USB(Service):</b> For Factory Use Only                                                                                                           |
| 2.) | <b>Power LED Indicator</b><br>Red LED indicates "standby mode"<br>Blue LED indicates "working mode"<br>No LED indicates "No Power supply connected" |

|      |                                                                                                        |
|------|--------------------------------------------------------------------------------------------------------|
| 3.)  | <b>O:</b> HDMI Output LED Indicator                                                                    |
| 4.)  | <b>1-4:</b> HDMI Input 1-4 LED Indicator                                                               |
| 5.)  | <b>Auto Mode LED Indicator</b><br>ON is In Automatic Switching Mode<br>OFF is in Manual Switching Mode |
| 6.)  | <b>IR Mode LED Indicator</b><br>ON is in normal IR receiver Mode<br>OFF is in no IR Function Mode      |
| 7.)  | IR Receiver port                                                                                       |
| 8.)  | <b>SELECT:</b> Change the Input Source Select Button                                                   |
| 9.)  | <b>EDID:</b> DIP Switch for Bypass EDID and Fifteen Default EDID modes                                 |
| 10.) | <b>INPUT 1-4:</b> HDMI Input 1-4 port                                                                  |
| 11   | <b>OUTPUT:</b> HDMI Output port                                                                        |
| 12   | Audio Output: Connect to the Audio Output Devices via 3.5mm Cable                                      |
| 13   | <b>SPDIF Output:</b> Connect to the Audio Output Devices via SPDIF Cable                               |
| 14   | <b>DC/5V:</b> 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 | 1 2 3 4 | EDID Setting Description                                                   |
|-------------|---------|----------------------------------------------------------------------------|
| 0000        | ↑ ↑ ↑ ↑ | Copy EDID from HDMI Output                                                 |
| 1000        | ↓ ↑ ↑ ↑ | 8Kx4K@60 4:2:0/8Kx4K@30 4:4:4/4Kx2K@120Hz 4:4:4, 48G, HDR10, 2CH AUDIO     |
| 0100        | ↑ ↓ ↑ ↑ | 8Kx4K@60 4:2:0/8Kx4K@30 4:4:4/4Kx2K@120Hz 4:4:4, 48G, HDR10, DOLBY/DTS 5.1 |
| 1100        | ↓ ↓ ↑ ↑ | 8Kx4K@60 4:2:0/8Kx4K@30 4:4:4/4Kx2K@120Hz 4:4:4, 48G, HDR10, HD AUDIO      |
| 0010        | ↑ ↑ ↓ ↑ | 4Kx2K@60, 18G, HDR10, 2CH AUDIO                                            |
| 1010        | ↓ ↑ ↓ ↑ | 4Kx2K@60, 18G, HDR10, DOLBY/DTS 5.1                                        |
| 0110        | ↑ ↓ ↓ ↑ | 4Kx2K@60, 18G, HDR10, HD AUDIO                                             |
| 1110        | ↓ ↓ ↓ ↑ | 4Kx2K@60, 10.2G, HDR10, 2CH AUDIO                                          |
| 0001        | ↑ ↑ ↑ ↓ | 4Kx2K@60, 10.2G, HDR10, DOLBY/DTS 5.1                                      |
| 1001        | ↓ ↑ ↑ ↓ | 4Kx2K@60, 10.2G, HDR10, HD AUDIO                                           |

|      |         |                                 |
|------|---------|---------------------------------|
| 0101 | ↑ ↓ ↑ ↓ | 1080p, 2CH AUDIO                |
| 1101 | ↓ ↓ ↑ ↓ | 1080p, DOLBY/DTS 5.1            |
| 0011 | ↑ ↑ ↓ ↓ | 1080p, HD AUDIO                 |
| 1011 | ↓ ↑ ↓ ↓ | 1280x720p@60 DVI                |
| 0111 | ↑ ↓ ↓ ↓ | 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 needs both display, the input source and the HDMI cable support the 8K resolution. If one of the devices does not support the higher resolution, please change to 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.

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