DIGITUS®

4x2 HDMI Matrix Switch, 4K/60Hz

Manual
DS-55509

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1. Introduction

The Digitus® HDMI 4x Matrix Switch, 4K/60Hz distributes media content from up to 4 HDMI sources on up to 2 recording devices (e.g. hard drive recorder) or playback devices (TV, monitor, projector, etc.), simultaneously and independently. Convenient switching via remote control between the HDMI sources and output devices, independently and without the trouble of replugging cables. Thanks to 4K UHD support, you can experience your media content in ultra-high resolution. The perfect and complete HDMI distributor solution whether for professional or commercial use.

2. Main Features

- Supports 4K2K/60Hz (4:4:4)
- Video bandwidth: 18 Gbps
- HDCP 2.2 / 1.4
- HDMI 2.0
- EDID management
- ARC (Audio Return Channel)
- Supports downscaling of 4K contents on Full HD (1080p) displays
- Supports Dolby Vision, HDR10+, HLG
- Audio extractor (connection of audio output device via optical/analog connection)

3. Package Contents

- 1x 4x2 HDMI Matrix Switch
- 1x Power adapter (DC 12V/1A, 1.2 m)
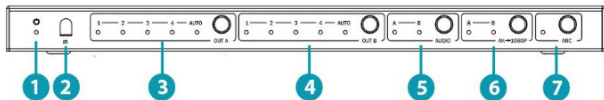- 1x IR remote control
- 2x Mounting plate
- 1x User manual

4. Specification

Technical	
HDMI Compliance	HDMI 2.0
HDCP Compliance	HDCP 2.2 and HDCP 1.4
Video Bandwidth	18 Gbps
Video Resolution	Up to 4K2K@50/60Hz (YCbCr 4:4:4), 4K2K@30Hz. All HDMI 3D TV format, etc.
Color Space	RGB, YCbCr 4:4:4, YCbCr 4:2:2, YCbCr 4:2:0
Color Depth	8-bit, 10-bit, 12-bit [1080P, 4K30Hz, 4K60Hz (YCbCr 4:2:0)] 8-bit [4K60Hz (YCbCr4:4:4)]
HDMI Audio Formats	PCM2.0/5.1/7.1CH, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD
Optical Audio Formats	PCM2.0, Dolby Digital / Plus, DTS
L/R Audio Formats	PCM2.0CH (Note: If ARC function is turned on, the audio port will mute.)
ESD Protection	Human-body Model: ±8kV (Air-gap discharge), ±4kV (Contact discharge)
Connections	
Input Ports	4× HDMI Type A [19-pin female]
Output Ports	2× HDMI Type A [19-pin female] 1× L/R audio out [3.5mm Stereo Mini-jack] 1× OPTICAL audio out [S/PDIF]

Mechanical	
Housing	Metal Enclosure
Color	Black
Dimensions	251mm (W) × 105mm (D) × 20mm (H)
Weight	620g
Power Supply	Input: AC100~240V 50/60Hz Output: DC12V/1A
Power Consumption	3.8W (max)
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Relative Humidity	20~90% RH (non-condensing)

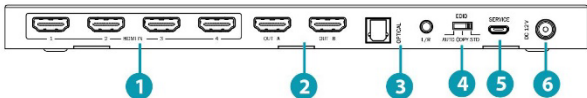# 5. Operating Controls and Functions

5.1 Front Panel

No.	Name	Function description
1	Power LED	The blue LED will illuminate when the product is connected power supply
2	IR	IR receiver window. It only receives IR remote signal from this product.

3	OUT A button and LED	Press the OUT A button to select an input source to OUT A output, the corresponding blue LED will illuminate
	AUTO LED	The blue AUTO LED will illuminate and the AUTO function will be turned on when you press the OUT A button up to 3 seconds, press the OUT A button up to 3 seconds again will turn off the AUTO function. AUTO function: Detect input signal source. The AUTO function is turned on, if an or a few HDMI IN ports are connected source device, OUT A port will output the signal from the last connected input source
4	OUT B button and LED	Press the OUT B button to select an input source to OUT B output, the corresponding blue LED will illuminate
	AUTO LED	The blue AUTO LED will illuminate and the AUTO function will be turned on when you press the OUT B button up to 3 seconds, press the OUT B button up to 3 seconds again will turn off the AUTO function AUTO function: Detect input signal source. The AUTO function is turned on, if an or a few HDMI IN ports are connected source device, OUT B port will output the signal from the last connected input source

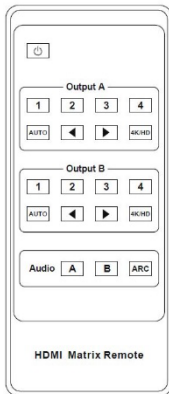| 5	AUDIO button	• Press AUDIO button to select extract the input source audio from OUT A port or OUT B port to optical and analog L/R output, the corresponding blue LED will illuminate. • If ARC function is turned on, press AUDIO button to select return the audio signal from OUT A or OUT B display device to optical output, the corresponding blue LED will illuminate. At this time, the analog L/R port is mute
6	4k→1080P button	Press the button to select OUT A or OUT B 4k→1080P downscale function, the corresponding blue LED will illuminate. For example, if source is 4K but TV only supports 1080P, at this time the input resolution with 4K will downscale to 1080P to TV output
7	ARC button	Turn on / off ARC function. The blue ARC LED will illuminate when you turn on the ARC function

5.2 Rear Panel

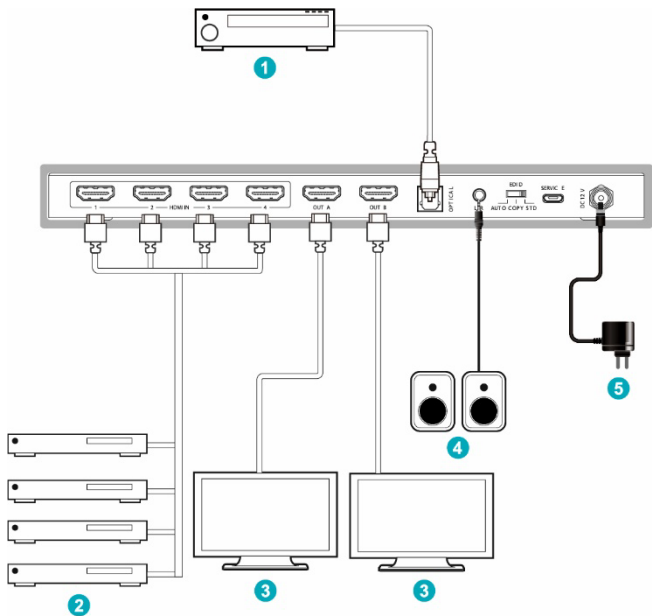| No.	Name	Function description
1	HDMI IN port	HDMI input ports, connect to HDMI source device such as DVD or PS4 with an HDMI cable
2	HDMI OUT A / OUT B port	HDMI output ports, connect to HDMI display device such as TV or Projector with an HDMI cable
3	OPTICAL / L/R port	Connect to audio output device such as amplifier or speaker with optical and analog audio cable
4	EDID AUTO / COPY / STD	AUTO: Compare with Out A and Out B display device's EDID information, and then sending the best EDID information to source device of Out A and Out B. The source device of Out A and Out B will send the EDID information again to Out A and Out B display device output. COPY: Copy Out A display device's EDID information to source device of Out A and Out B. Then the source device of Out A and Out B will send the EDID information again to Out A and Out B display device output. STD: Out A and Out B display device output default 1080P
5	SERVICE port	Firmware update port
6	DC 12V	Plug in 12V/1A adapter to AC wall outlet for power supply

6. IR Remote

⏻	Power on the product or set it to standby mode
Output A (Output B)	
1/2/3/4	Select input source signal to Out A port output, the corresponding blue LED on the front panel will illuminate
◄►	Select the last or next input source signal to OUT A port output, the corresponding blue LED on the front panel will illuminate
AUTO	Turn on or off AUTO function. The Auto function is turned on, if an or a few HDMI IN ports are connected source device, Out A port will output the signal from the last connected input source
4K/HD	Select Out A 4k→1080P downscale function. For example, if source is 4K but TV only supports 1080P, at this time the input resolution with 4K will downscale to 1080P to TV output

Audio function	
ARC	Turn on / off ARC function
Audio A / B	• If ARC function is turned on, press Audio A or B button to select return the audio signal from Out A or Out B display device to optical port (TOSLINK) output. At this time, the analog L/R port (Audio out) is mute • If ARC function is turned off, press Audio A or B button to select extract the input source audio from Out A port or Out B port to optical port (TOSLINK) and analog L/R port (Audio out) output

7. Application Example

1	Amplifier	3	TV
2	DVD or Blu-ray Player	4	Speaker
		5	Power Supply

8. FAQ

Q: Does this product require an HDMI line length for the connection interface?
A: According to HDMI line length test, HDMI input / output with 4K60Hz YCbCr 4:4:4 is the longest line length up to 8m / 3m.

The use of "Premium High Speed HDMI" cable is highly recommended.

IR remote sends signal distance for 0~7 meters, and angle is plus-minus 45 degrees.

Disclaimer

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