SY-HDS14-18G
SY-HDS18-18G

User Manual

18G HDMI® Splitters

1x4 and 1x8 HDMI splitters with downscaling per output

Thank you for purchasing this product

These HDMI splitters are designed with professional AV installers in mind. The many extensive features assist in system integration, validation and maintenance.

Installation precautions

These HDMI splitters have special circuitry to protect them against moderate surges and static discharges. However, to ensure reliable operation and long service life, it is important to take the necessary precautions against any such spikes, surges and static discharges.

Place the units away from heat sources and allow adequate ventilation.

As much as possible cables should be routed away from any noisy sources and avoiding long runs in close proximity to AC mains cables.

The SY-HDS14-18G and SY-HDS18-18G HDMI splitters both support HDMI resolutions up to full 4K60 4:4:4 (18Gbps). HDR 10 and HDR 12 are also supported.
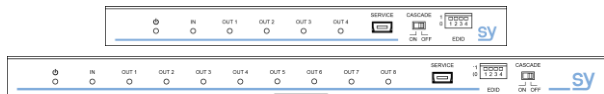
Features

- All HDMI resolutions up to 4K60 4:4:4 – (18Gbps)
- Auto Downscaling per each output (4K → 1080p)
- EDID and HDCP management (Cascade, auto HDCP2.2 → 1.4)
- Supports HDR 10, HDR 12
- Supports LPCM, Dolby TrueHD, and Dolby DTS-HD Master Audio up to 7.1 channels
- Can directly drive AOC cables on each output

Packing List

- Main Unit
- User Manual
- Power Supply

Connectors and Controls

Front

Name	Description
Power LED	Lit when the splitter is powered
IN LED	Indicates the presence of the input HDMI signal
OUT LEDs	Indicates the presence of the output HDMI signal
Service	For the use of service personnel only
EDID	4-way switch for setting the desired EDID

Name	Description
CASCADE	See Additional Options section below

Rear

Name	Description
OUT 1~4/1~8	HDMI outputs to the display devices
IN	HDMI input from the HDMI source device
5V	SY-HDS14-18G – Input from 5V PSU
12V	SY-HDS18-18G - Input from 12V PSU

Using this Product

- Connect the HDMI source device to the HDMI IN
- Connect the HDMI display devices to the HDMI OUT connectors
- Connect the PSU and power up

Additional Options

Cascade Mode Switch

On – Disables HDCP   Off – Enables HDCP

<u>Note:</u> When Cascade Mode is OFF, each output independently down-converts the input HDCP from HDCP 2.2 to HDCP 1.4, based on the capability of the display device.
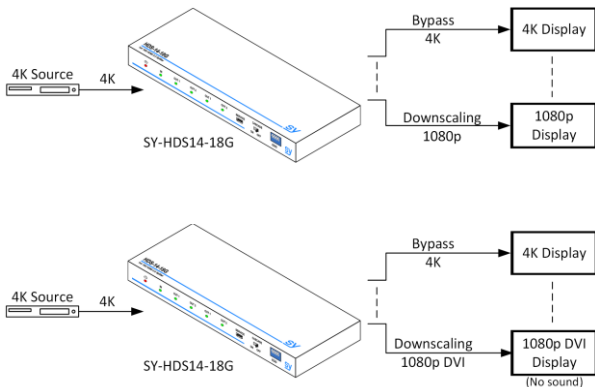
EDID Settings

In this table **0** means the respective switch is in the Down position, and **1** means the respective switch is in the Up position.

S1	S2	S3	S4	EDID Setting
1	1	1	1	4K60 444 Stereo audio 2.0ch
1	1	1	0	4K60 444 Dolby/DTS 5.1ch
1	1	0	1	4K60 444 HD Audio 7.1ch
1	1	0	0	4K30 444 Stereo audio 2.0ch
1	0	1	1	4K30 444 Dolby/DTS 5.1ch
1	0	1	0	4K30 444 HD Audio 7.1ch
1	0	0	1	4K24 444 HDR Stereo audio 2.0ch
1	0	0	0	4K24 444 HDR Dolby/DTS 5.1ch
0	1	1	1	4K24 444 HD Audio 7.1ch
0	1	1	0	1080p60 HDR Stereo audio 2.0ch
0	1	0	1	1080p60 HDR Dolby/DTS 5.1ch
0	1	0	0	1080p60 HDR HD Audio 7.1ch
0	0	1	1	1080p60 Stereo audio 2.0ch
0	0	1	0	1080p60 Dolby/DTS 5.1ch
0	0	0	1	1080p60 HD Audio 7.1ch
0	0	0	0	EDID bypass from OUT 1

Auto Downscaling

If the input resolution is greater than what the connected display device can show, it will be automatically down-scaled to a resolution compatible with that display device.

Each output can independently Auto-downscale from 4K to 1080p, depending on the capability of the display device. This ensures optimal use of mixed capability displays.

Note: These splitters are designed to accept AOC cables as well as HDMI cables. High quality cables are recommended.

Specifications

HDMI Resolutions	All resolutions up to 4K60 4:4:4 (18Gbps)
HDMI Standard	HDMI 2.0
HDCP Compliance	Up to HDCP 2.2
HDR	HDR10, HDR12
Audio	PCM 2.0ch, LPCM, Dolby TrueHD, DTS-HD Master Audio up to 7.1ch
Power	SY-HDS14-18G: 2.4 W SY-HDS18-18G: 5.9 W
PSU	SY-HDS14-18G: 5V 2A SY-HDS18-18G: 12V 2A
Operating Temperature	0°C to 40°C (32°F to 104°F)
Operating Humidity	20~90% RH (non-condensing)
Dimensions (WxHxD)	SY-HDS14-18G: 163 x 16 x 63 mm SY-HDS18-18G: 243 x 16 x 102 mm
Weight	SY-HDS14-18G: 265 g SY-HDS18-18G: 572 g

Safety Instructions

To ensure reliable operation of this product as well as protecting the safety of any person using or handling these devices while powered, please observe the following instructions.

1. **ONLY USE** the power supply provided. If an alternate supply is required, check the voltage, polarity and that it has sufficient power to supply the device it is connected to.

2. **DO NOT** operate this product outside the specified temperature and humidity range given in the above specifications.

3. Ensure there is adequate ventilation as this product generates heat while operating.

4. Repair of this product should only be carried out by qualified professionals as this product contains sensitive devices that may be damaged by any mistreatment.

5. Only use this product indoors and in a dry environment. **DO NOT** allow any liquids or harmful chemicals to come into contact with this product.

After Sales Service

1. Should you experience any problems while using this product, firstly refer to your local dealer before contacting SY Technical Support.

2. When contacting SY Technical Support, please provide the following information:
   - Full Product Name and Model Number
   - Product Serial Number
   - Details of the fault and any conditions under which the fault occurs.

3. This product has a two year standard warranty beginning from the date of purchase as stated on the sales invoice. For full details please refer to our Terms and Conditions.

4. The SY Product warranty is automatically void under any of the following conditions:
   - The product is already outside of its warranty period
   - Damage to the product due to incorrect usage or storage
   - Damage caused by unauthorised repairs
   - Damage caused by mistreatment of the product

Please direct any questions or problems you may have to your local dealer before contacting SY Electronics.