Installation Guide

sy

SY-HS12-18G
SY-HS14-18G
SY-HS18-18G

18GHz HDMI 2.0 Splitters (HDCP2.2)
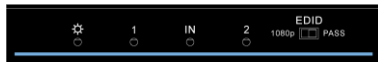## 1x2, 1x4 and 1x8

This range of 18GHz splitters offers a solution to distribute HDMI signals to 2, 4 or 8 display devices. These splitters can support up to 4K @50/60Hz HDMI 2.0 signals with compliance to HDCP 2.2. They are ideal in a variety of situations from digital signage, residential, conference rooms and education establishments.

Features

- Split a single HDMI input to 2, 4 or 8 outputs
- Supports all resolutions up to HDMI 2.0 (18GHz) (4K @60Hz with 12-bit YCbCr 4:4:4)
- Supports 3D at 1080p @60Hz and Compliant with HDCP 2.2
- Supports audio formats including LPCM 7.1CH, Dolby TrueHD, and DTS-HD Master Audio
- Smart EDID control

Panel Descriptions

Front Panel

Item	Description
Power LED	Indicates that the splitter is powered up
IN LED	Lights when a HDMI signal is detected at the HDMI Input connector
Numbered LEDs	Indicates that a HDMI signal is being sent from the indicated HDMI output
Service USB	Used to install new firmware updates (not available on SY-HS12-18G)
EDID Switch	Select between EDID **Pass** mode or **1080p** mode

Rear Panel

Item	Description
Power Input	**5V DC** for **SY-HS12-18G** and **SY-HS14-18G** **12V DC** for **SY-HS18-18G**
HDMI IN	HDMI signal input connector
Numbered HDMI Connectors	HDMI output connectors

System Connection

Usage Precautions

These HDMI Splitters should be installed in a clean environment that has adequate ventilation, temperature and humidity control.

All switches, plugs, sockets and power cables must be insulated and safety approved. All devices should be connected before powering on.
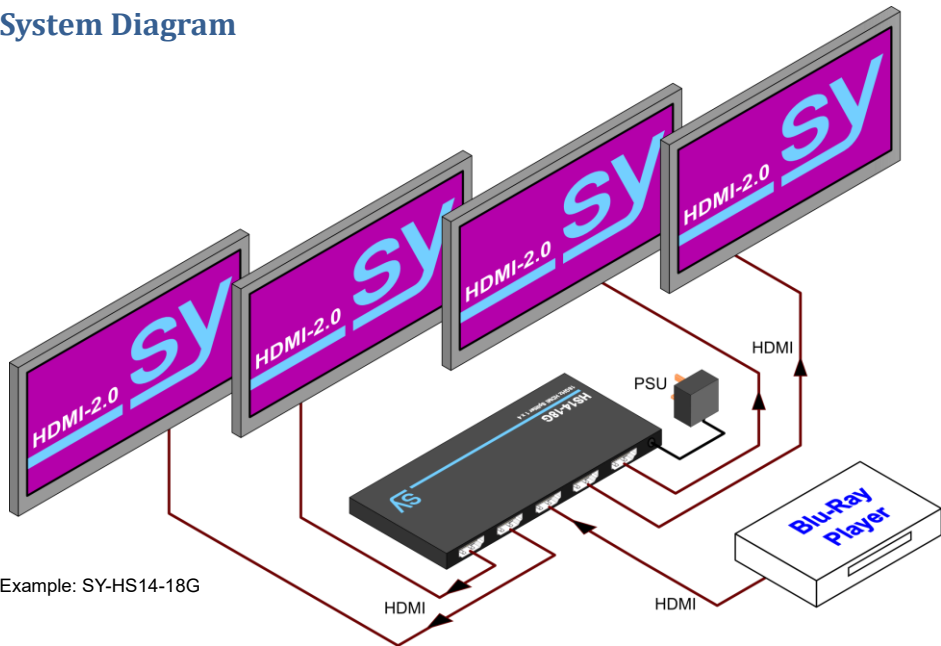
Connection Procedure

- Connect an HDMI source device (e.g. BluRay or DVD) to the HDMI IN connector of the splitter
- Connect display devices to the HDMI output connectors as required
- Connect the PSU provided with your splitter to the DC input connector. Note that the 2 and 4 way splitters have a 5V DC PSU whilst the 8-way splitter has a 12V DC PSU.

EDID Management

These HDMI splitters have a smart EDID management feature which operates in one of two modes: PASS or 1080p.

1. **PASS mode** - If the display device connected to Output 1 is capable of displaying any 4K resolution, then input EDID is set to this 4K resolution (all the outputs will be set to that 4K resolution). If the display device connected to Output 1 is not 4K capable, then the splitter will choose the best fit EDID from all four outputs to ensure that all displays can show an image.
2. **1080p mode** - The input EDID will be set to 1080p.

System Diagram

Example: SY-HS14-18G

Specifications

Connectors	SY-HS12-18G	SY-HS14-18G	SY-HS18-18G
Video Output	2x female HDMI (Type-A)	4x female HDMI (Type-A)	8x female HDMI (Type-A)
Video Inputs	1 x female HDMI (Type-A)		

Video General	
Resolution	All resolutions up to 4K2K @ 60Hz, 12-bit YCbCr 4:4:4 (18GHz)
	480i – 1080i, 480p – 1080p, 1080p 3D, 4K2K 24/30/60 - All PC resolutions
	All PC VESA mode video format resolutions up to QSXGA @60Hz
Standards	HDMI 2.0, HDCP 2.2, CEC

Controls	
Panel Control	EDID Mode Switch (smart Pass or 1080p)

General	SY-HS12-18G	SY-HS14-18G	SY-HS18-18G
PSU	5V DC @ 1A	5V DC @ 2A	12V DC @ 2.5A
Dimension (W*H*D)	101 x 16 x 56 mm	163 x 16 x 63 mm	254 x 16 x 105 mm
Weight	165 g	275 g	630 g
Temperature	0 ~ 40℃		
Humidity	10% ~ 90% (non-condensing)		

Safety Instructions

To ensure reliable operation of these products 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 supplies provided. Alternate supply may cause damage - Please check Voltage, polarity and that it has sufficient power to supply the device it is connected to.

2. Do not operate these products outside the specified temperature and humidity range given in the above specifications.

3. Ensure there is adequate ventilation, as these products generate heat while operating.

4. Repair of the equipment should only be carried out by authorised qualified professionals as these products contain sensitive devices that may be damaged by any mistreatment.

5. Only use these products indoors and in a dry environment. Do not allow any liquids or harmful chemicals to come into contact with these products.

After Sales Service

1. Should you experience any problems while using these products, firstly refer to the Troubleshooting section in this manual before contacting SY Technical Support.

2. When calling SY Technical Support, the following information should be provided:
   - Product name and model number
   - Product serial number
   - Details of the fault and any conditions under which the fault occurs.

3. These products have 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. 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

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