KONNEXLINQ

1 x 2 4K HDMI Splitter with Scaler

KLQ-4KHS12



User Manual

Version: V1.0.1

Introduction

Thank you for purchasing this product. For proper installation and optimum performance, please read the instructions in this manual carefully.

The SP0102-N107-000 is a 1 x 2 HDMI splitter with scaler, reliably distributes one HDMI input signal to two outputs at resolutions up to 4K@60Hz 4:4:4 chroma subsampling. It follows HDCP 2.2 and HDMI 2.0b specifications, including supported data rates up to 18 Gbps, HDR (high dynamic range), 3D and HD lossless audio formats. With the built-in scaler, when connected to different displays, the corresponding HDMI output is capable of scaling down automatically (down to 1080P) to feed an optimal output signal to its attached display.

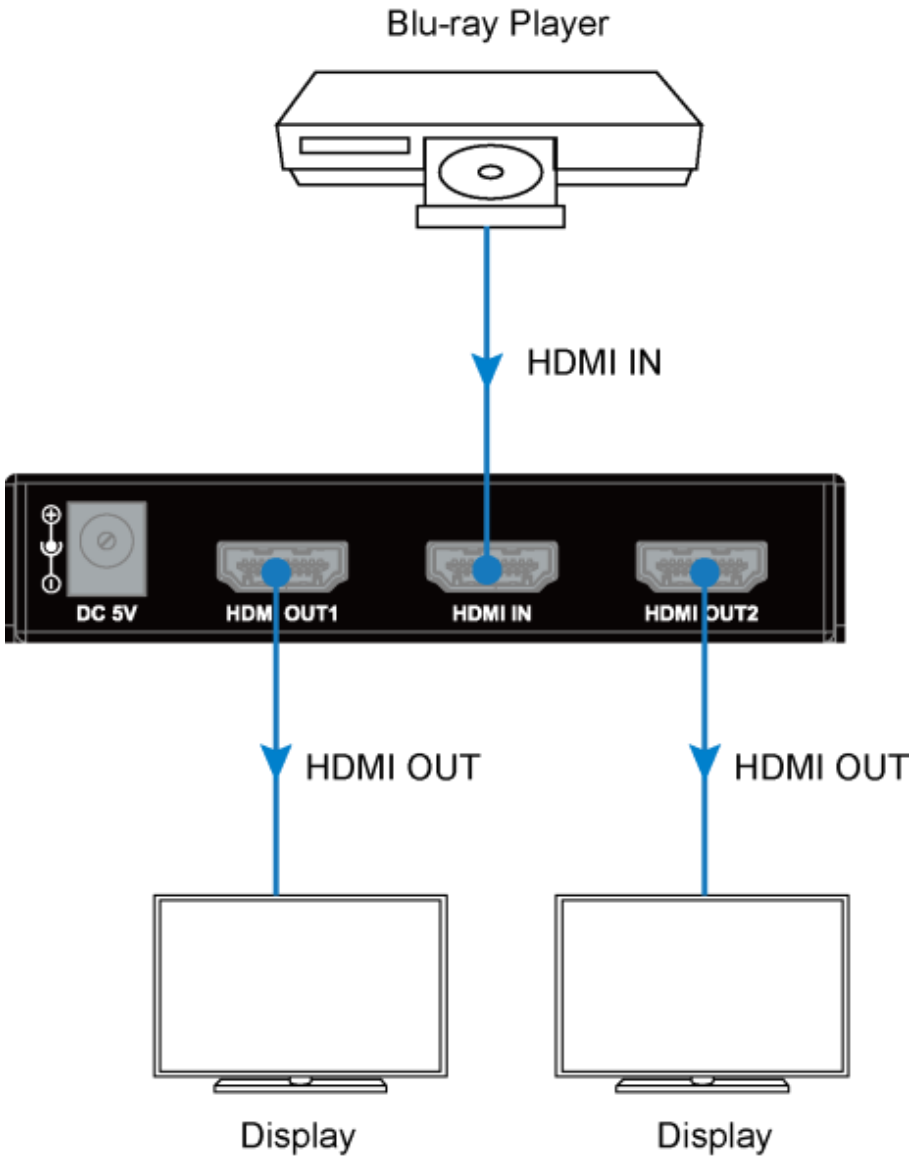
Features

- Distributes one HDMI input signal to two HDMI displays • Supports HDMI 2.0b Specifications, including:
  - ✓ Data rates up to 18.0 Gbps ✓ HDR and 3D
  - ✓ HD lossless audio formats
- HDCP 2.2 compliant
- Each HDMI output supports scaling down to 1080P individually (fps will not change during scaling down from 4K to 1080P)
- Automatic input cable equalization for signal regeneration compensation

Package Contents

- 1 x Splitter SP0102-N107-000
- 1 x Power Adapter (DC 5V 1A)
- 2 x Mounting Brackets

Application Diagram



Note: Before wiring, disconnect the power from all devices.

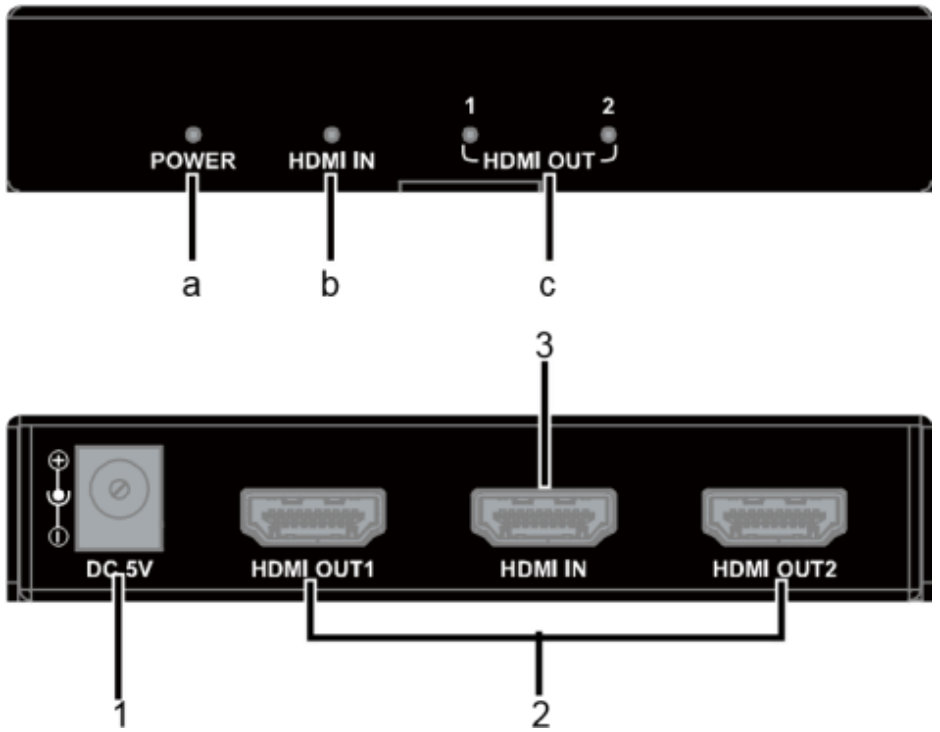
Specifications

Video	
Input/Output Signal Type	HDMI with 4K@60Hz 4:4:4, HDCP 2.2, HDR, 3D, Scaler
Input/Output Resolution Supported	Up to 4096x2160@60Hz, including 4K@30Hz/60Hz, 1080P/720P
Deep Color	4K: 8/10/12bit 1080P: Up to 8bit
Maximum Data Rate	18 Gbps
Maximum Pixel Clock	600MHz
Audio	
Audio Format Supported	Fully supports audio formats in HDMI 2.0 specification, including PCM, Dolby TrueHD, Dolby Atmos, DTS-HD Master Audio, DTS:X
General	
Operating Temperature	0°C to 45°C (32°F to 113°F)
Storage Temperature	-20°C to 70°C (-4°F to 158°F)
Humidity	10% to 90%, non-condensing
ESD Protection	Human-body Model: ±8kV (Air-gap discharge)/ ±4kV (Contact discharge)
Power Supply	DC 5V 1A
Power Consumption (Maximum)	1.8W
Device Dimension (W x H x D)	100mm x 20mm x 65.2mm/ 4'' x 0.8'' x 2.6''
Product Weight	0.18kg/0.4lb

Transmission Distance:

Cable Type	Range	Supported Video
HDMI	Input/Output:15m/50ft	1080P@60Hz
	Input: 10m/33ft Output: 15m/50ft	4K@30Hz
	Input/Output: 5m/16ft	4K@60Hz

Panel Description



No.	Name	Description
a	Power LED	**On/Off:** The device is powered on/off.
b	HDMI IN LED	**On:** HDMI signal is detected on the HDMI input. **Off:** No HDMI signal is detected on the HDMI input.

c	HDMI OUT LED (1-2)	**On:** An HDMI display is connected to the HDMI output. **Off:** No HDMI display is connected to the HDMI output.
1	DC 5V	Connect to the power adapter.
2	HDMI OUT (1-2)	Connect to the HDMI displays using HDMI cables.
3	HDMI IN	Connect to the HDMI source using an HDMI cable.

Troubleshooting

1. **No Power**
   - Ensure the power is on.
   - Ensure you use the power adapter provided in the package.
2. **No Picture or Video Flash**
   - Ensure all devices are on, and all cables are qualified and connected properly. Ensure all the cables' length are within the maximum distance (refer to **Specification** table).
   - Ensure all the LED indicators are normal.
   - When connecting source to display directly, ensure them can work properly.
   - Ensure the input resolution is supported by the device.
   - Ensure the input resolution is within 4K@30Hz when Dolby vision signal is input.
3. **HDR Video Not Supported**

   Ensure the source and all displays support HDR. If any display doesn't support HDR, all outputs will not support HDR video.
4. **Surround Audio Not Supported**

   Ensure the source and all displays support surround. If one display supports stereo only, all displays will output stereo audio.