KanexPro®

SP-HD20-1X24K

True 4K HDMI 1x2 Splitter with HDCP2.2

User manual

For optimum performance and safety, please read these instructions carefully before connecting, operating, or adjusting this product. Please keep this manual for future reference.

Introduction

The SP-HD20-1X24K is an advanced distribution amplifier designed for splitting a single HDMI input to two HDMI outputs. It provides high performance audio and video output via HDMI up to 4K2K@60Hz (YUV420) resolution and is capable of receiving and transmitting up to 9Gbps of bandwidth with no data loss. Supporting the l latest specifications in HDCP 2.2 and HDMI 2.0, you can be assured of reliable and high quality HDMI distribution.

Features

- Compliant with HDMI 2.0, DVI 1.0, and HDCP 2.2
- Note: Signal transmission must be HDMI to HDMI OR DVI to DVI. The SP-HD20-1X24K will not convert between HDMI and DVI.
- Supports video formats up to 4Kx2K @30Hz with 24bit RGB, YCBCR 4:4:4, and YCBCR 4:2:2
- Supports video formats up to 4Kx2K@60Hz with 12bit YCBCR 4:2:0
- Supports 3D frame sequential video formats up to 1080p @60Hz
- Supports high resolution VESA mode video formats up to QSXGA @60Hz
- Supports LPCM 7.1CH, Dolby TrueHD, and DTS-HD Master Audio
- Smart auto detection functionality w/ EDID

Package Includes

- ➢ 1x24KHDMISplitter--------------------------1Pc
- ➢ 5V/1A DC power adaptor--------------------1Pc
- ➢ User manual----------------------------------1pc

Specifications

- **Video Bandwidth**: 300MHz/10.2 Gbps
- **Input Ports:** 1 x HDMI (Female type)
- **Output Ports**: 2 x HDMI (Female type)
- **Output Resolution**: 480i ~1080p50/60, 4Kx2K@24/30, 4k2k@60Hz with 12bit YCBCR,4:2, 4:2:0,VGA~UXGA
- **ESD Protection :** Human Body model**:** ±8 kV (air-gap discharge), ±4 kV (contact discharge)

- **Power Supply**:   5 V/1A DC
- **Dimensions**:   2.52" (W) × 6.10" (D) × .67" (H)
- **Weigh**t: 180 g
- **Chassis Material:**   Metal
- **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)
- **Power Consumption**:   1.5W
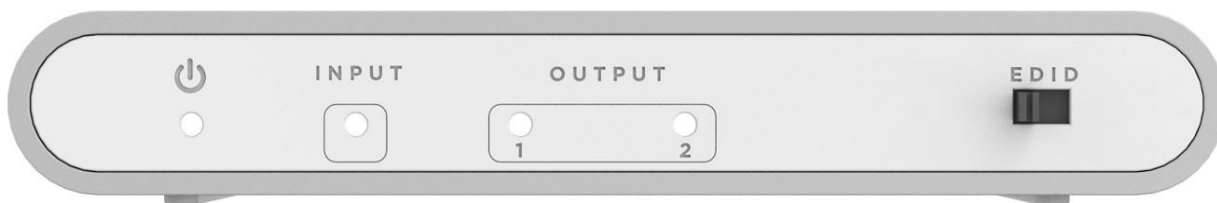
Connecting Directions and Operation

Using a high-speed HDMI cable, connect any media sources (EX: Blu-Ray player, gaming platform, satellite receivers, computers, etc.) equipped with HDMI output interfaces to the SP-HD20-1X24K Switchers inputs.

Using a high-speed HDMI cable, connect the HDMI output of the SP-HD20-1X24K to a high-definition display device (EX: HD-LCD, HD-DLP, HD projectors, etc.) with HDMI input interfaces.

NOTE: To achieve the best performance with the SP-HD20-1X24K, adhere to recommended specifications for proper high-speed HDMI cable runs and signal length according to HDMI Specification V2.0.

The SP-HD20-1X24K is powered by an external 5VDC power supply included in the packaging. Before connecting any power supplies, be sure all source and sync devices interfacing with the SP-HD20-1X24K are powered down and unplugged. Connect the power supply to the electrical outlet first. Next connect the power jack to the SP-HD20-1X24K. Finally, connect power to each media source and each HD display.

Front Panel

1. POWER LED: This blue LED illuminates when the device is connected to the power supply.

2. IN LED: This blue LED illuminates when the input source is connected to the device.

3. OUT LEDs: These blue LEDs illuminate when the HDMI outputs are connected to an active TV, display, or monitor.

4. EDID STD: In 'STD' mode, the SP-HD20-1X24K will use its built-in EDID settings. This default EDID setting outputs video at 1080p @60Hz and audio at LPCM 2CH Stereo. Use this mode if there are display sync issues when using 'TV' Mode.

5. EDID TV: In 'TV' mode, the SP-HD20-1X24K will sync with the EDID settings of the display device connected to HDMI OUT 1. If SP-HD20-1X24K detects a 4Kx2K capable EDID setting, it will transmit the signal in that format to all outputs. If no 4Kx2K capable EDID settings are detected by HDMI OUT 1 then the unit will output the highest r EDID STD: In 'STD' mode, the SP-HD20-1X24K will use its built-in EDID settings. This default EDID setting outputs video at 1080p @60Hz and audio at LPCM 2CH Stereo. Use this mode if there are display sync issues when using 'TV' Mode.
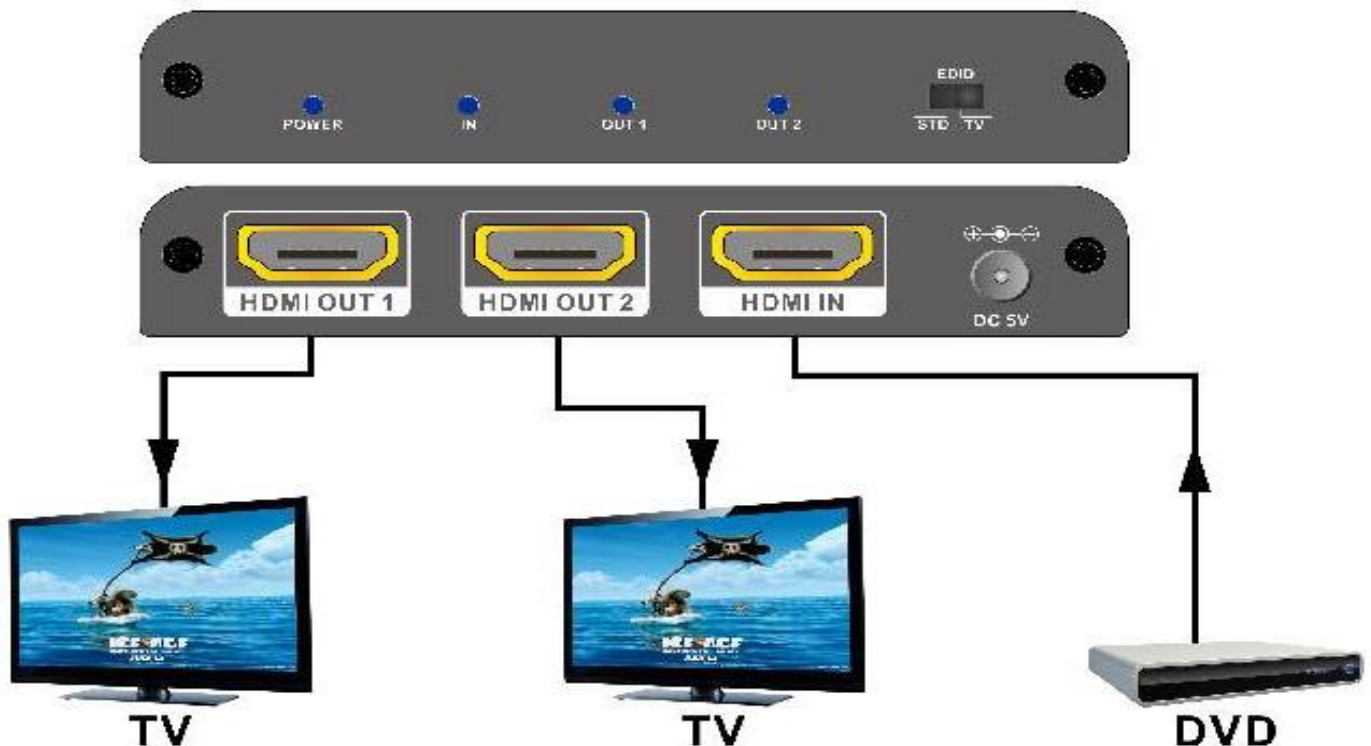
Rear Panel

1. HDMI OUT 1~2: Using high-speed HDMI cables, connect each of the HDMI outputs from the SP-HD20-1X24K to an HDMI display for simultaneous HDMI distribution. You can also cascade the output to an HDMI transmitter to extend the operating distance.

NOTE* - Any additional AV hardware added to the signal chain must be HDMI 2.0 and HDCP 2.2 compliant in order to transmit HDMI 2.0 and HDCP 2.2 formatted content.

2. HDMI IN: Connect the input port to the HDMI or DVI output of your source device such as a DVD player or set-top box with an HDMI cable.

3. DC 5V: Plug the 5V DC power supply into the unit and connected the adaptor to an AC outlet.

Connection Diagram:

Warranty

KanexPro warrants its products will greatly perform to their published specifications and will be free from defects in materials and workmanship under normal use, conditions and service for up to three years. For more information regarding warranty details, please visit: http://www.kanexpro.com/warranty/.

Tech Support Inquiry:

KanexPro Technical and Customer support inquiries can be sent electronically via the following avenues:

http://www.kanexpro.com/support/

Email: support@kanexpro.com

KanexPro Customer support can be reached via phone at (888) 975-1368 (International Calls: 1-714-332-1682) during the following times.

Monday – Friday: 6:00 am – 5:00 pm PST