

# KanexPro®

SP-HD20-1X44K

## 4K HDMI 1x4 Splitter with HDCP2.2

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 KanexPro SP-HD20-1X44K is an one input, four output HDMI Distribution Amplifier engineered to split 4K quality videos or high res images from one source to four HD 4K displays with resolutions up to 4K@60Hz and HDCP2.2 specifications. Built-in EDID management allows optimal resolution to be selected and properly outputted to avoid response time and delays.

The conforming outputs also have the ability of buffering and amplifying all the HDMI signals.

### Features

- Distribute one 4K HDMI video and audio signals to Four HD 4K displays
- True 4K@60Hz UHD, 1080p & 3D resolutions
- 4Kx2K @30Hz with 24bit RGB, YCBCR 4:4:4 & YCBCR 4:2:2
- 4Kx2K @60Hz with 12bit YCBCR 4:2:0
- Conforms to High Speed HDMI specifications:
- (Deep color, HD lossless audio formats & Lip Sync)
- EDID Selector for optimal resolutions
- HDCP 2.2 compliant
- Built-in Smart EDID Control
- Front-panel LED's for input/ output signal presence
- Includes 5V DC external power supply

### Package Includes

- UHD 1x4 HDMI Splitter-----1Pcs
- 5V/1A DC power adaptor-----1Pcs
- User manual-----1pcs

### Specifications:

<b>Video Bandwidth</b>	300MHz/10.2 Gbps
<b>Input Ports</b>	1 x HDMI (Female type)
<b>Output Ports</b>	4 x HDMI (Female type)
<b>Output Resolution</b>	480i ~1080p50/60, 4Kx2K@24/30

**KanexPro® True 4K HDMI 1x4 Splitter w/ HDCP2.2**

	4Kx2K@60Hz with 12bit YCBCR 4:2:0, VGA~UXGA
<b>ESD Protection</b>	Human Body model: ±8 kV (air-gap discharge) ±4 kV (contact discharge)
<b>Power Supply</b>	5 V/1A DC
<b>Dimensions</b>	2.52" (W) × 6.10" (D) × .67" (H) 64 mm (W) × 155mm (D) × 17 mm (H)
<b>Weight</b>	180 g
<b>Chassis Material</b>	Metal
<b>Operating Temperature</b>	0 °C~40 °C/ 32 °F~104 °F
<b>Storage Temperature</b>	-20 °C ~ 60 °C/-4 °F ~140 °F
<b>Relative Humidity</b>	20~90 % RH (non-condensing)
<b>Power Consumption</b>	2W

### Connecting Directions and Operation

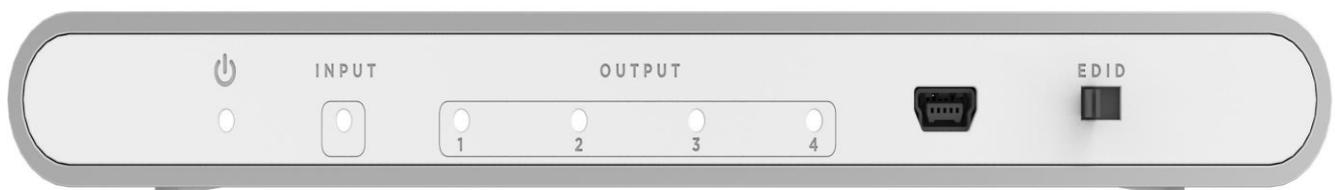
Using a high-speed HDMI cable, connect any media sources (EX: Blu-Ray player, gaming platform, satellite receivers, computers, etc.) equipped with HDMI output interfaces to the SP-HD20-1X44K Switchers inputs.

Using a high-speed HDMI cable, connect the HDMI output of the SP-HD20-1X44K 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-HD20-1X44K, adhere to recommended specifications for proper high-speed HDMI cable runs and signal length according to HDMI Specification V2.0.

The SP-HD20-1X44K 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-HD20-1X44K are powered down and unplugged. Connect the power supply to the electrical outlet first. Next connect the power jack to the SP-HD20-1X44K. Finally, connect power to each media source and each HD display.

### Front Panel



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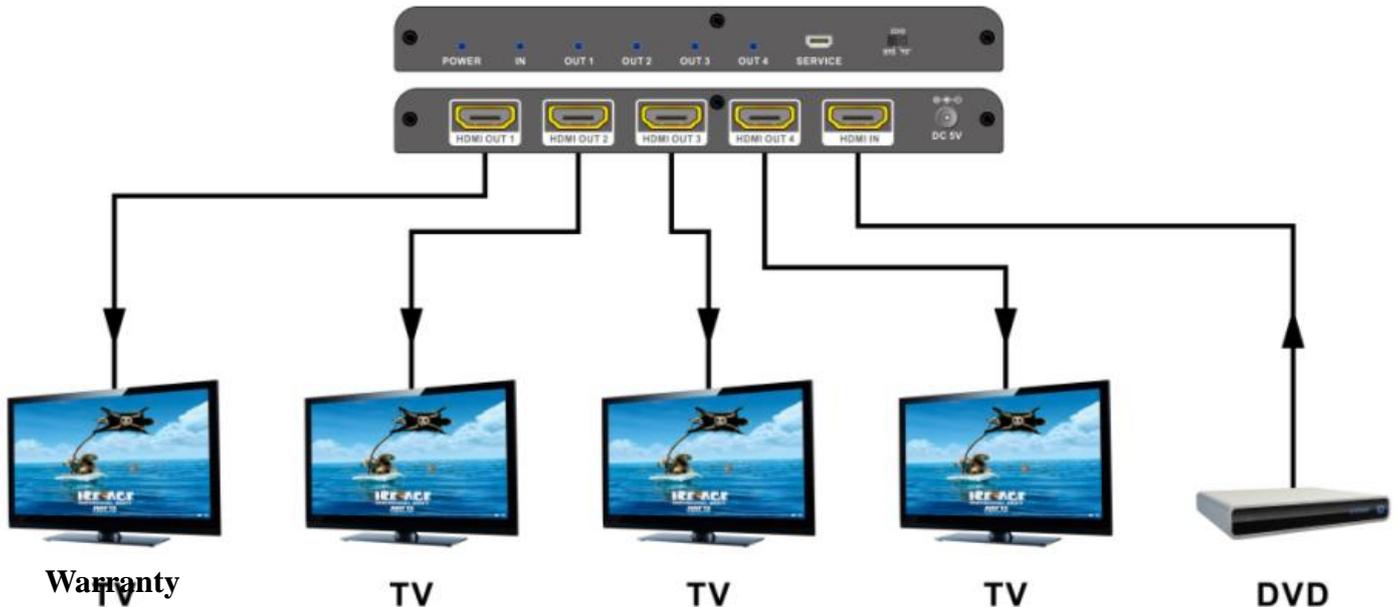
1. **POWER LED:** This blue LED illuminates when the device is connected to the power supply.
2. **IN LED:** This blue LED illuminates when the input source is connected to the device.
3. **OUT LEDs:** These blue LEDs illuminate when the HDMI outputs are connected to an active TV, display, or monitor.
4. **SERVICE:** This service port is for Manufacturer's use only.
5. **EDID STD:** In 'STD' mode, the SP-HD20-1X44K 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.
6. **EDID TV:** In 'TV' mode, the SP-HD20-1X44K will sync with the EDID settings of the display device connected to **HDMI OUT 1**. If SP-HD20-1X44K 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 resolution that all displays can support.

## Rear Panel



1. **HDMI OUT 1-4:** Using high-speed HDMI cables, connect each of the HDMI outputs from the SP-HD20-1X44K to an HDMI display for simultaneous HDMI distribution. Additionally, you may cascade the output to another 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:** Using a high-speed HDMI cable, connect the input port to the SP-HD20-1X44K to the HDMI or DVI output of your source device (Blu-Ray Player, Gaming Console, PC, etc.).
3. **DC 5V:** Plug the included 5V DC power supply jack into the unit and connect 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/>.

### Support

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

Tech Support Inquiry: <http://www.kanexpro.com/support/>

Email: [support@kanexpro.com](mailto: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

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