

KanexPro™

**4K UHD 1x16 HDMI Distribution Amplifier with
EDID Management**

User manual

V1.0

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

I. Introduction

The KanexPro HDSP164K is a one in, sixteen out distribution amplifier designed to split one high res. 4K signal in to sixteen displays while maintaining the highest level of signal integrity.

It supports the latest HDMI 2.0 specifications with HDCP 2.2. The splitter support EDID control, so that can force the source output definitions you want.

II. Features

1. Distribute 4K HDMI video and audio signals to up to 16 displays
2. Supports full HD 1080p (1920 x 1080@60Hz) & 4K UHD
3. Supported resolutions up to 4K*2K@30Hz@8bit(YCbCr4:4:4);

4K*2K@60Hz@8bit(YCbCr4:2:0)

4. Support digital audio format, DTS-HD/Dolby-True HD /LPCM7.1/AC3/DTS/DSD
5. Support EDID selector
6. Front-panel LED's for input/ output signal presence
7. 5VDC external power supply included

III. Package

1. 4K UHD HDMI 1x16 Splitter ----- 1PC
2. 12V2.5A DC Power adapter ----- 1PC
3. Operation Manual ----- 1PC

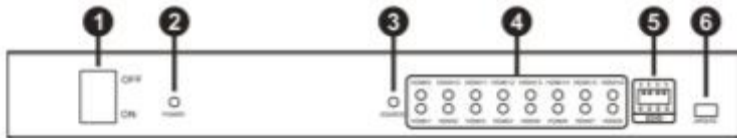
IV. Specifications

1. **Video Bandwidth** 10.2Gbps
2. **Input Ports** 1 × HDMI (Female type)
3. **Output Ports** 16 × HDMI (Female type),
4. **Input Resolutions**
 - 480i@60Hz, 480p@60Hz, 576i@50Hz, 576p@50Hz,
 - 720p@50/60Hz, 1080i@50/60Hz, 1080p@24/30/50/60H,
 - 4K@30Hz@8bit(YCbCr4: 4:4), 4K@60Hz@8bit(YCbCr4: 2:0);
5. **Output Resolutions**
 - 480i@60Hz, 480p@60Hz, 576i@50Hz, 576p@50Hz,
 - 720p@50/60Hz, 1080i@50/60Hz, 1080p@24/30/50/60H,
 - 4K@30Hz@8bit(YCbCr4: 4:4), 4K@60Hz@8bit(YCbCr4: 2:0)

6.	ESD Protection	Human Body model: ± 8 kV (air-gap discharge) ± 4 kV (contact discharge)
8.	Power Supply	12V/2.5A DC (US/EU standards, CE/FCC/UL certified)
9.	Dimensions	115 mm (W) \times 270mm (D) \times 45 mm (H)
10.	Weight	2.2 lbs. (1000g)
11.	Chassis Material	Metal
12.	Silkscreen Color	Silver
13.	Operating Temperature	0 °C \sim 40 °C/ 32 °F \sim 104 °F
14.	Storage Temperature	-20 °C \sim 60 °C/-4 °F \sim 140 °F
15.	Relative Humidity	20 \sim 90 % RH (non-condensing)
16.	Power Consumption	30W (max)

V. Operation controls and Functions

Front Panel



1. **ON/OFF:** Power on/off switch.
2. **POWER LED:** This red LED illuminates when the device is connected with power supply.

3. **INPUT LED:** This red LED illuminates when the source plugs in corresponding HDMI input Port
4. **OUTPUT LED:** These red LEDs illuminates when the TV plugs in corresponding HDMI output Port.
5. **EDID Selector:** Select HDMI output signal format via EDID Selector.

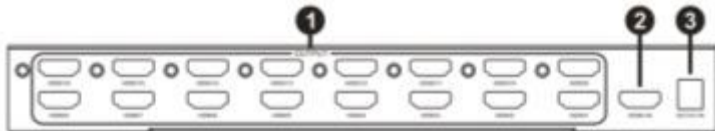
Position	EDID Description
0 0 0 0	1080i, 2CH AUDIO
0 0 0 1	1080i, DOLBY/DTS 5.1
0 0 1 0	1080i, HD AUDIO
0 0 1 1	1080p, 2CH AUDIO
0 1 0 0	1080p, DOLBY/DTS 5.1
0 1 0 1	1080p, HD AUDIO
0 1 1 0	3D, 1080p, 2CH AUDIO

0 1 1 1	3D, 1080p,DOLBY/DTS 5.1
1 0 0 0	3D, 1080p, HD AUDIO
1 0 0 1	4Kx2K, 2CH AUDIO
1 0 1 0	4Kx2K, DOLBY/DTS 5.1
1 0 1 1	4Kx2K, HD AUDIO
1 1 0 0	RESERVE
1 1 0 1	RESERVE
1 1 1 0	RESERVE
1 1 1 1	COPY HDMI OUTPUT 1

6. **UPDATE:** Connected to computer via RS232 tool, and controlled via host-computer software.

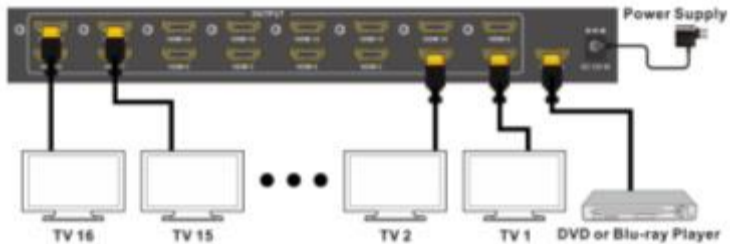
7.

Rear Panel



1. **HDMI OUTPUT:** These connector slots are where you connect the HDTV or monitor with HDMI cable.
2. **HDMI IN:** This slot is where you connect the HDMI source output from DVD, HDMI based PC or cable box.
3. **DC 12V IN:** Plug the 12V DC power supply into the unit and connect the adapter to AC wall outlet.

VI. Application Example



The Product is warranted for full parts and labor for 2 years from the date of purchase for any questions or problems, please try to get help from your local distributor or AV dealer first before contacting KanexPro Support at 888-975-1368

KanexPro™

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KanexPro.com

MPN: HDSP164K