VAC-4000UHD



4K@60 and HDCP2.2 HDMI Distribution Amplifier (with audio De-embedder)

The IDK VAC-4000UHD is a high-performance HDMI distribution amplifier for video and audio supporting 4K@60 and HDCP 2.2. The VAC-4000UHD distributes 4K@60 video signals having four times the resolution of full HD to 4 HDMI outputs, which support HDCP 2.2. This distribution amplifier can convert digital audio to analog audio as well.

FRONT & REAR PANEL





FEATURES

■ Video

- · Up to 4K@60 (4:4:4)
- HDCP 1.4 / 2.2
- · HDR
- 3D
- · x.v.Color
- Maximum input/output cable distance:
- 1080p@60: up to 131 ft. (40 m)
- 4K@60: up to 39 ft. (12 m) (using 18 Gbps supported High-Speed HDMI cable)
- Cascade connection
- · Anti-snow

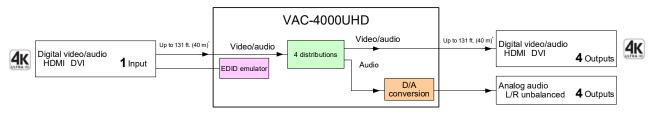
Audio

Analog audio de-embedded

Others

- EDID emulation
- DDC buffering
- · Seven-segment LED signal status check
- · Connection reset
- · CEC pass through between IN and OUT1

DIAGRAM



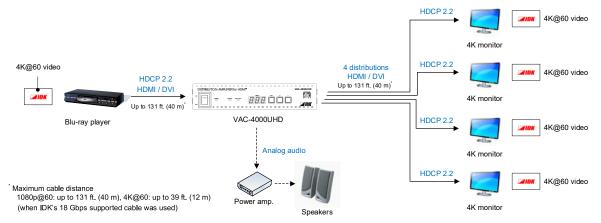
Maximum cable distance 1080p@60: up to 131 ft. (40 m), 4K@60: up to 39 ft. (12 m) (when IDK's 18 Gbps supported cable was used)

Ver.1.1.1 (180903)



CONNECTION DIAGRAM





SPECIFICATIONS

ltem				Description
Input	Video	Digital	Number / Signal	1 input / HDMI, DVI 1.0 (HDCP 1.4 / 2.2) (*1) / HDR (*2) / 3D (*3) / x.v.Color - TMDS single link - TMDS clocks: 25 MHz to 300 MHz - Dot clocks: 25 MHz to 600 MHz - TMDS data rate: 0.75 Gbps to 18 Gbps
			Connector	1 female HDMI Type A
		Others		Color depth: 24 bit, 30 bit, 36 bit Deep Color (*5)
		Formats		VGA to 4K (*4) 480i / 480p / 576i / 576p / 720p / 1080i / 1080p / 4K (*4)
	Audio	Digital	Number / Signal	1 input / Multi-channel LPCM up to 8 channels - Sampling frequency: 32kHz to 192kHz - Sample Size: 16bit to 24bit - Reference level: -20 dBFS - Max. input level: 0 dBFS
			Connector	1 female HDMI Type A
Output	Video	Digital	Number / Signal	4 outputs / HDMI, DVI 1.0 (HDCP 1.4 / 2.2) (*1) / HDR (*2) / 3D (*3) / x.v.Color - TMDS single link - TMDS clocks: 25 MHz to 300 MHz - Dot clocks: 25 MHz to 600 MHz - TMDS data rate: 0.75 Gbps to 18 Gbps 4 female HDMI Type A
		Others	Connector	Color depth: 24 bit, 30 bit, 36 bit Deep Color (*5)
		Formats		VGA to 4K (*4) 480i / 480p / 576i / 576p / 720p / 1080i / 1080p / 4K (*4)
	Audio	Digital	Number / Signal	4 outputs / Multi-channel LPCM up to 8 channels - Sampling frequency: 32kHz to 192kHz - Sample Size: 16bit to 24bit - Reference level: -20 dBFS - Max. output level: 0 dBFS
			Connector	4 female HDMI Type A
		Analog	Number / Signal	1 output / Stereo L/R unbalanced signals (*6) - Output impedance: 75 Ω, - Reference level: -10 dBu - Max. output level: +10 dBu
			Connector	1 RCA jack
Plug & Play				DDC2B (built-in EDID / EDID copied from monitors / can be selected from EDID of connected monitors) Built-in EDID: the maximum resolution can be selected.
Max. Cable distance			Input	1080p@60: 131 ft. (40 m), 4K@60: 39 ft. (12 m) (*7)
Output		Output	1080p@60: 131 ft. (40 m), 4K@60: 39 ft. (12 m) (*7)	
Functions Contents				Audio A/D and D/A conversion, Anti-snow (*8), De-embedded audio from HDMI signal DDC buffer, 7 segment LED signal status check, Connection Reset (*9), Key lock
Others		Power Power consumption Dimensions		100 - 240 VAC ± 10 %, 50 Hz/60 Hz ± 3 Hz About 12 Watts 8.3 x 1.7 x 7.9' (210 (W) x 44 (H) x 200 (D) mm) (EIA 1U high, half rack wide) (Excluding connectors and the like)
		Weight		3.3 lbs. (1.5kg)
		Temperature		Operating: 32°F to 104°F / 0°C to +40°C Storage: -4°F to 176°F / -20°C to +80°C
		Humidity		Operating / Storage humidity: 20 % to 90 % (Non Condensing)

- *3

- ARC and HEC are not supported. CEC: Pass through between IN and OUT1
 HDR will be supported when you connect HDR supported corresponding sink device and select external EDID setting, or when you copy EDID of HDR supported sink device by selecting EDID copy setting. If the unit supports 4 HDR, all orbuty signals from the unit are HDR supported signals.

 3D will be supported when you connect 3D supported corresponding sink device and select external EDID setting, or when you copy EDID of 3D supported sink device by selecting EDID copy setting. If the unit supports 3D, all output signals from the unit are 4D supported signals.

 4K format: 24 Hz / 25 Hz / 30 Hz / 50 Hz / 44.44 / 59.94 Hz / 44.44 / 59 Hz / 44.44 / 59.94 Hz / 44.44 / 44.44 / 59.94 Hz / 44.44 / 4