VAC-5000HD

HDMI Distribution Amplifier

IDK — *with your vision, Always.*

The IDK VAC-5000HD is an HDMI Distribution Amplifier for distributing HDMI video and audio to 5 displays. TMDS signals are automatically equalized at the input so that signal degradation due to the cable can be minimized. The VAC-5000HD is ideal for applications that require the distribution of an HDMI source signal to multiple displays. The VAC-5000HD has 7segment LED status check function, and this is useful for field support.

FRONT & REAR PANEL

FEATURES

■**Video**
- Up to QWXGA (RB)* or 1080p
- HDCP
- Built-in Digital Cable EQ
      INPUT: 33 ft. (10 m) to 164 ft. (50 m)
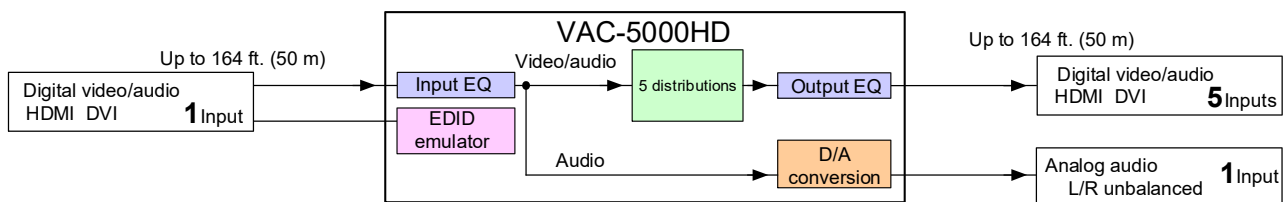   OUTPUT: 33 ft. (10 m) to 164 ft. (50 m)
- Anti-Snow

■ **Audio**
- D/A conversion
- De-embedded audio from HDMI signal

■**Others**
- EDID emulation (with copy function)
- DDC buffer
- 7 segment LED signal status check
- Connection reset

*(RB) = Reduced Blanking

DIAGRAM

Item				Description
Input	Video	HDMI / DVI	Number / Signal	1 input / HDMI (*1), DVI 1.0 / HDCP 1.4 - TMDS single link - TMDS clock: 25 MHz to 225 MHz - Dot clock: 25 MHz to 165 MHz
			Connector	1 female HDMI Type A
		Others		Color depth : 24 bit, 30 bit, 36 bit Deep Color
		Formats		480i / 480p / 576i / 576p / 720p / 1080i / 1080p VGA to QWXGA * WUXGA / QWXGA only support Reduced Blanking
	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	HDMI / DVI	Number / Signal	5 outputs / HDMI (*1), DVI 1.0 / HDCP 1.4 - TMDS single link - TMDS clock: 25 MHz to 225 MHz - Dot clock: 25 MHz to 165 MHz
			Connector	5 female HDMI Type A
		Others		Color depth : 24 bit, 30 bit, 36 bit Deep Color
		Formats		480i / 480p / 576i / 576p / 720p / 1080i / 1080p VGA to QWXGA * WUXGA / QWXGA are output as Reduced Blanking
	Audio	Digital	Number / Signal	5 outputs / 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	5 female HDMI Type A
		Analog	Number / Signal	1 output / stereo LR unbalanced signals (*2) - Output impedance: 75 Ω - Reference level: -10 dBu - Max. output level: +10 dBu
			Connector	1 RCA jack
Plug & Play				DDC2B *Selectable from preset EDID/EDID copied from the monitor/EDID of the destination monitor * If preset EDID selected, maximum resolution can be selected.
Automatic cable equalization		Input		33 ft. (10 m) to 164 ft. (50 m) (*3)
		Output		33 ft. (10 m) to 164 ft. (50 m) (*3)
Functions		Contents		Input and output cable equalization Anti-snow (*4) De-embedded audio from HDMI signal DDC buffer 7 segment LED signal status check Connection Reset (*5)
Others		Power		100 - 240 VAC ± 10%, 50 Hz / 60 Hz ± 3 Hz
		Power consumption		About 15 Watts
		Dimensions		16.9 (W) × 1.7 (H) × 7.9 (D)" (430 (W) × 44 (H) × 200 (D) mm) (EIA 1U high, full rack wide) (Excluding connectors and the like)
		Weight		5.5 lbs. (2.5 kg)
		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: 20% to 90% (Non Condensing)

(*1) It does not support x.v.Color, 3D, ARC, and HEC. CEC is passed through between IN and OUT1.
(*2) Analog audio output only supports 2 channels linear PCM.
(*3) Transmission distance depends on connected equipment. The information above is maximum transmission distance when a cable made by IDK (AWG24) is used and signals (1080p 60 Hz 24bit/pixel (8bit/component) are transmitted (both inputs and outputs of this product). When connected equipment is not matched to this product or other makers' cables are used, video signal can be unstable or video signals cannot be output, even though transmission distance is within the information above.
(*4) Anti-snow function can fix snowy noise automatically that is a specific symptom of the signal having HDCP, mainly snow noise that arises during starting. Therefore, this function cannot work when snow noise has already occurred before starting or when snowy noise occurs because of bad status of transmission line.
(*5) Connection reset function can fix problems that can be repaired by taking off and putting in connectors. This function can work only in this product's output port, which sometimes will not take effect if another device is between output of this product and display device.