

VAC-1000HD



HDMI Distribution Amplifier

The IDK VAC-1000HD is an HDMI Distribution Amplifier for distributing HDMI video and audio to 10 displays. TMDS signals are automatically equalized at the input so that signal degradation due to the cable can be minimized. The VAC-1000HD is ideal for applications that require the distribution of an HDMI source signal to multiple displays. The VAC-1000HD 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

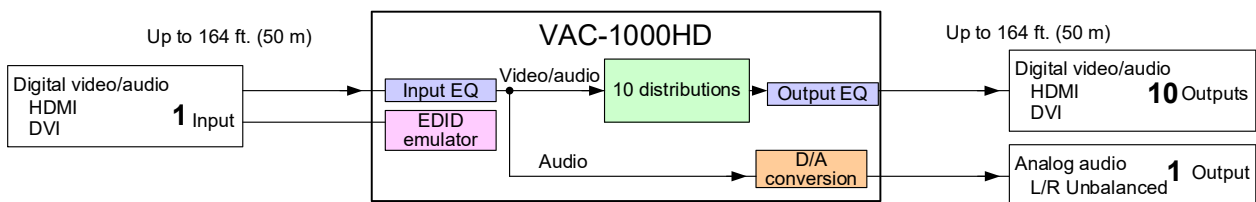
- D/A conversion
- De-embedded audio from HDMI signal

■ Others

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

^{*}(RB) = Reduced Blanking

CONNECTION DIAGRAM



Ver.1.1.2 (181003)

Ein Vertriebsprodukt von / Distributed by:

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SPECIFICATIONS

| 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 | 10 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 | 10 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 | 10 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 | 10 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 35 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 | | 6.6 lbs. (3.0 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 OUT6.

(*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.

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