



### ■ Description

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.

### ■ Specification

		Item		Description	
Input	Video	Digital	Number / Signal	1 input / HDMI, DVI 1.0 (HDCP) (*1) TMDS single link, TMDS clocks: 25 MHz to 225 MHz	
			Connector	1 female HDMI Type A	
		Others	Color depth : 24 bit, 30 bit, 36 bit Deep Color		
	Formats	VESA: VGA/SVGA/XGA/WXGA (1280x768) /WXGA (1280x800)/Quad-VGA/SXGA/ WXGA(1360x768)/WXGA(1366x768)/SXGA+/WXGA+/WXGA++/UXGA/WSXGA+/ WUXGA/QWXGA * WUXGA/QWXGA only support DVI signal and Reduced Blanking SDTV/HDTV: 480i/480p/576i/576p/720p/1080i/1080p			
	Audio	Digital	Number / Signal	1 input / Multi-channel linear PCM up to 8 channels Sampling frequency: 32kHz to 192kHz, Sample Size: 16bit to 24bit	
		Connector	1 female HDMI Type A		
Output	Video	Digital	Number / Signal	10 outputs / HDMI, DVI 1.0 (HDCP) (*1) TMDS single link, TMDS clocks: 25 MHz to 225 MHz	
			Connector	10 female HDMI Type A	
		Others	Color depth : 24 bit, 30 bit, 36 bit Deep Color		
	Formats	VESA: VGA/SVGA/XGA/WXGA (1280x768) /WXGA (1280x800)/Quad-VGA/SXGA/ WXGA(1360x768)/WXGA(1366x768)/SXGA+/WXGA+/WXGA++/UXGA/WSXGA+/ WUXGA/QWXGA * WUXGA/QWXGA only support DVI signal and output as Reduced Blanking SDTV/HDTV: 480i/480p/576i/576p/720p/1080i/1080p			
	Audio	Digital	Number / Signal	10 outputs / Multi-channel linear PCM up to 8 channels Sampling frequency: 32kHz to 192kHz, Sample Size: 16bit to 24bit	
			Connector	10 female HDMI Type A	
		Analog	Number / Signal	1 output / stereo LR unbalanced signals (*2)	
Connector			1 RCA jack		
Plug & Play		Supports 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: Up to 165ft (approx.) <50m> (*3) Output: Up to 165ft (approx.) <50m> (*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	Around 35 Watt			
	Dimensions	16.93(W)×1.73(H)×9.84(D)" (approx.)<430(W)×44(H)×250(D)mm> (EIA rack 1U, not including projections)			
	Weight	6.613 lbs. (approx.)<3.0 kg>			
	Temperature	Operating temperature: 32°F to 104°F<0°C to +40°C> Storage temperature: -4°F to +176°F<-20°C to +80°C>			
Humidity	Operating/ Storage humidity: 20 % to 90 % (Non Condensing)				

(\*1) It does not support xvYCC, Lip Sync, 3D, ARC, HEC. CEC is passed through between IN and OUT 6.

(\*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 snowy noise that arises during starting. Therefore, this function cannot work when snowy noise has already occurred before starting or when snowy noise occurs because of bad status of transmission line.

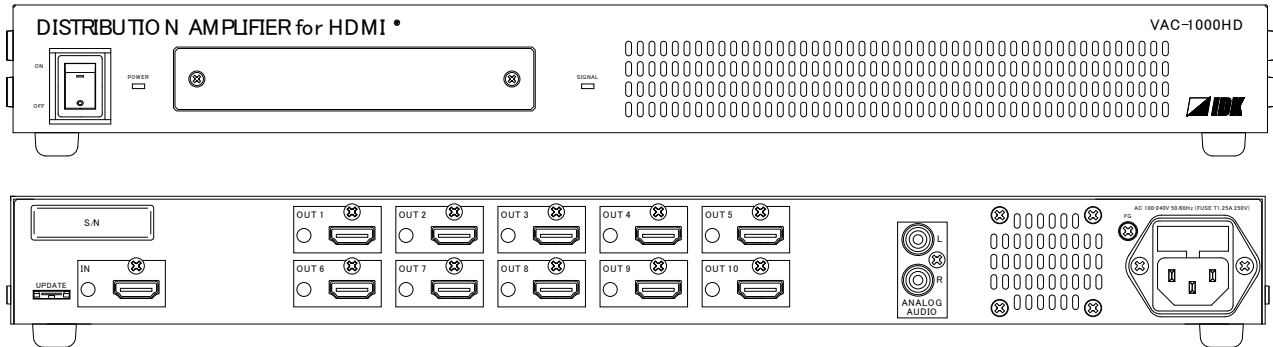
(\*5) Connection reset function can fix problems that can be repaired by taking off and putting in connectors. This function can work only in this product's output port, which sometimes will not take effect if another device is between output of this product and display device.

■ Standard preset resolutions

No.	Resolution	Pixels	Standard
1	EXTERNAL (External EDID)	-	-
2	COPY DATA	-	-
3	1080p (59.94/60)	(1920x1080)	HDTV
4	720p	(1280x720)	HDTV
5	1080i	(1920x1080)	HDTV
6	1080p (24/25/30/50)	(1920x1080)	HDTV
7	SVGA	(800x600)	VESA
8	XGA	(1024x768)	VESA
9	VESA720	(1280x720)	CVT
10	WXGA	(1280x768)	VESA
11	WXGA	(1280x800)	VESA
12	Quad-VGA	(1280x960)	VESA
13	SXGA	(1280x1024)	VESA
14	WXGA	(1360x768)/(1366x768)	VESA
15	SXGA+	(1400x1050)	VESA
16	WXGA+	(1440x900)	VESA
17	WXGA++	(1600x900)	VESA
18	UXGA	(1600x1200)	VESA
19	WSXGA+	(1680x1050)	VESA
20	VESA1080	(1920x1080)	CVT
21	WUXGA	(1920x1200)	VESA
22	QWXGA	(2048x1152)	VESA

\* No.17, No.20, No.21, No.22 is Reduced Blanking

■ Front & Rear Panel

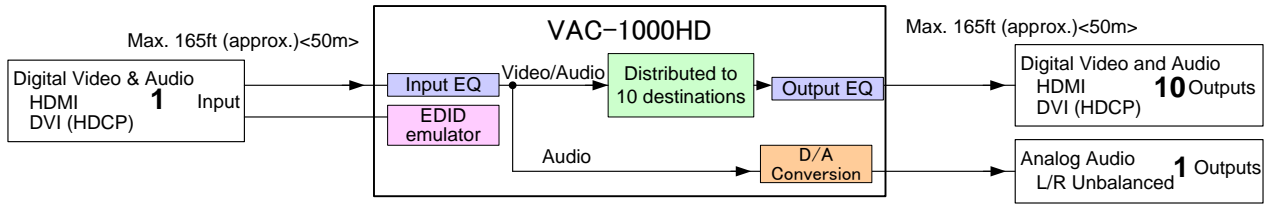


●Specifications subject to can be changed without prior notice. ● An attached power cord is used only for this product. Please do not use it for other uses. ●"HDMI", logotype of "HDMI", and "High-Definition Multimedia Interface" are trademarks or registered trademarks of HDMI Licensing LLC or registered trademarks in the U.S.A and other countries. ●"PLink" is a trademark registration or an application for trademark registration in JAPAN, the United States, and other countries and regions. ●JBMA: Japan Business Machine and Information System Industries Association.



# VAC-1000HD Diagram and Features

## [Block diagram]



## [Features]

### ■ Video

- Up to QWXGA (RB)\* or 1080p
- **Built-in Digital Cable EQ**  
 INPUT: Up to 33ft to 99ft (approx.) <10m to 30m>  
 OUTPUT: Up to 33ft to 165ft (approx.) <10m to 50m>
- **Anti-Snow**

### ■ Audio

- **D/A conversion (de-embedded audio from HDMI signal)**

### ■ Others

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

\*(RB) = Reduced Blanking