

VP1420

4 x 2 True 4K Presentation Matrix Switch



The ATEN VP1420 is a multi-in-one [presentation switch](#) that integrates a [video matrix](#) switch, [True 4K](#) scaler, audio processor, and [analog](#)-to-digital converter functions into one compact device that easily mounts under a table or in a rack. With four [analog](#)/digital inputs to two HDMI [True 4K](#) outputs, it is designed to boost the efficiency and impact of professional [presentations](#).

With streamlined control from front-panel pushbuttons, IR remote controller, RS-232, and web-based GUI via Ethernet, the VP1420 reduces not only system device count, but also lowers operation complexity. It is suitable for all meeting space and education environments, such as huddle rooms, [classrooms](#), training rooms, or any other [presentation](#) setting, such as in exhibition galleries or hotels.



Features

• Fast Analog/Digital AV Matrix Switching

- Supports multi-format 4 Inputs – 3 HDMI and 1 VGA inputs
- 2 HDMI outputs
- Audio embedding – stereo audio can be embedded into HDMI output or separated to balanced audio output 3.4
- Audio de-embedding – HDMI audio can be extracted to unbalanced audio output 3.5
- Auto switching – automatically detects and switches to a new source as soon as it is connected for time-saving and convenience 3.6 3.17

• High-definition Video with Optimum Output

- Superior video quality – up to 4096 x 2160@60Hz (4:4:4) (HDMI) 3.12
- Supports HDR 3.13
- Scaler – supports video upscaling to 4K on display A and downscaling to 1080p on display B 3.14
- EDID Expert™ – automatically selects the optimum EDID settings for smooth power-up, high-quality display, and the best video resolution across connected devices
- HDMI 2.0 (3D, Deep Color, 4K); HDCP 2.2 compliant 3.16

• Versatile, Streamlined Operation 3.18

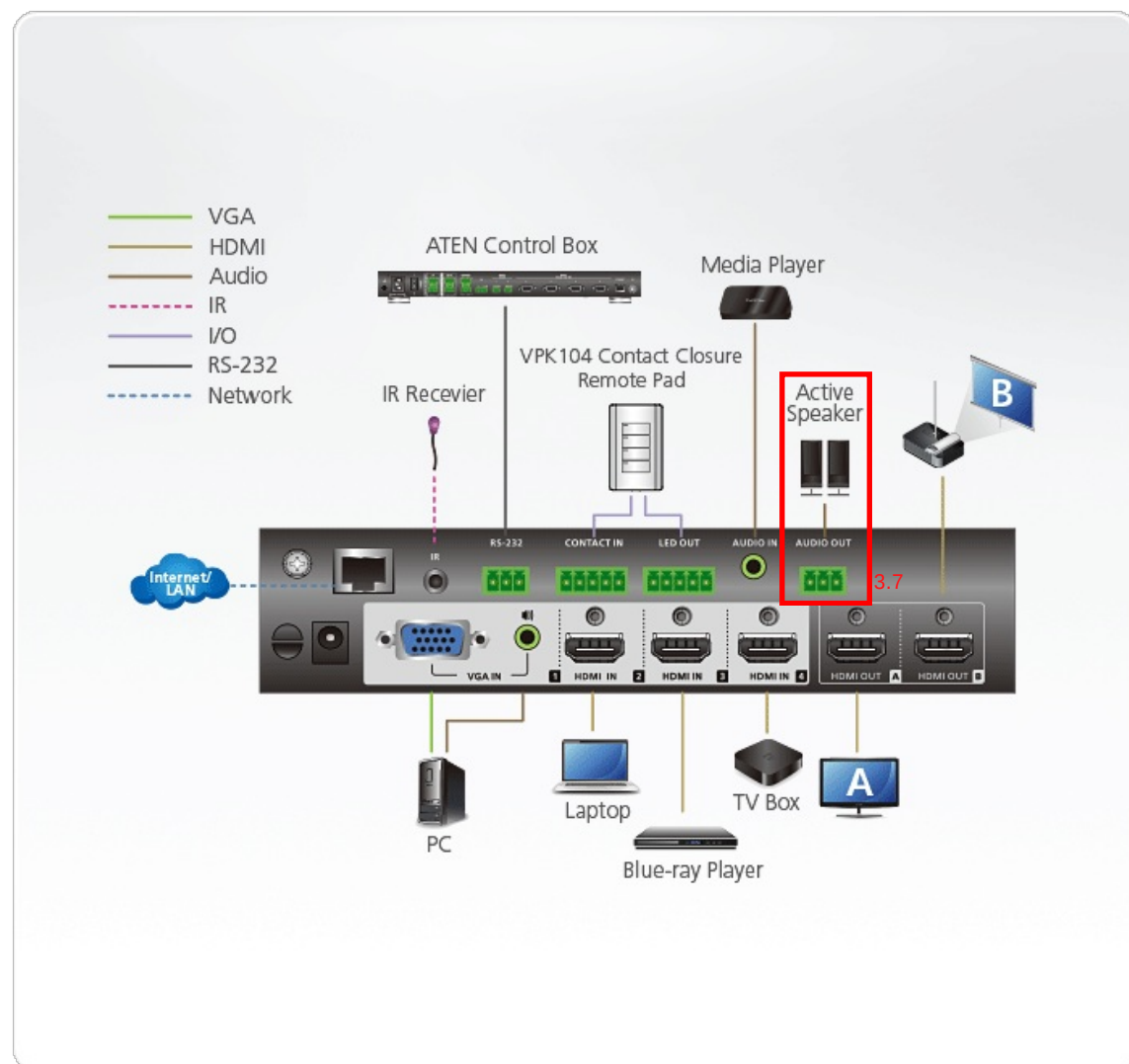
- Multiple control options – flexible control via front-panel pushbuttons, IR remote control, RS-232, and web-based GUI through Ethernet
- Supports stand-by mode for power saving and fast waking up

Specifications

Video Input	
Interfaces	3 x HDMI Type A female (Black) 3.1 1 x VGA (HDB-15) Female (Blue) 3.2
Max. Distance	HDMI: 4K@60Hz (4:4:4) at 3m; 4K@30Hz at 10m; 1080p@60Hz at 15m VGA: 1920x1200@60Hz at 15m
Video Output	
Interfaces	2 x HDMI Type A female (Black)
Max. Distance	HDMI: 4K@60Hz (4:4:4) at 3m; 4K@30Hz at 10m; 1080p@60Hz at 15m
Video	
Max. Resolution	HDMI: Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4) 3.12 VGA: Up to 1920x1200@60Hz
Compliance	HDMI 2.0 (3D, Deep Color, 4K); 4K HDR 3.13 HDCP 2.2 Compatible; Consumer Electronics Control (CEC)
Audio	
Input	Stereo Audio (VGA): 1 x mini stereo Jack female (Green) 3.3 Stereo Audio (HDMI): 1 x mini stereo Jack female (Green)
Output	Line Out (Unbalanced): 1 x Captive Screw Connector, 3-pole
Control	

RS-232 3.8	1 x Captive Screw Connector, 3-pole
IR 3.10	1 x Mini Stereo Jack Female (Black)
Ethernet	1 x RJ-45 Female (Silver) 3.11
Contact In 3.9	1 x Captive Screw Connector, 5-pole
LED Out	1 x Captive Screw Connector, 5-pole LED out power: +5 VDC, 0.2 A
Switches	
Power	1 x Pushbutton (LED: Green / Orange)
Video Input Port Selection	4 x Pushbutton (LED: Green)
Video Output Port Selection	2 x Pushbutton (LED: Orange)
Selection	Mute: 1 x Pushbutton Mode / Unlock: 1 x Pushbutton
EDID Settings	EDID Mode: Default / Port 1 / Remix 3.15
Connectors	
Power	1 x DC Jack (Black)
Power Consumption	DC5V:7.21W:38BTU
Environmental	
Operating Temperature	0-40 °C
Storage Temperature	-20 - 60 °C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	1.09 kg (2.4 lb)
Dimensions (L x W x H)	20.00 x 16.05 x 4.40 cm (7.87 x 6.32 x 1.73 in.)
Carton Lot	3 pcs
Note	For some of rack mount products, please note that the standard physical dimensions of WxDxH are expressed using a LxWxH format.

Diagram



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