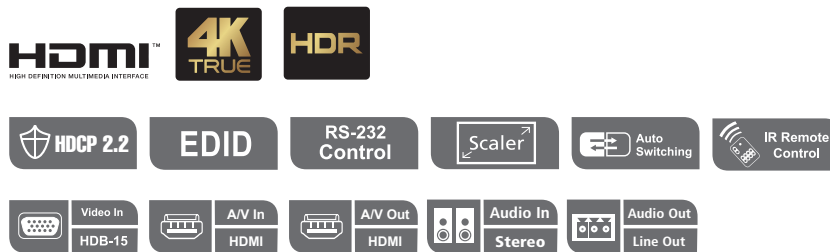# 4 x 2 True 4K Presentation Matrix Switch
VP1420

● 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.

Front view

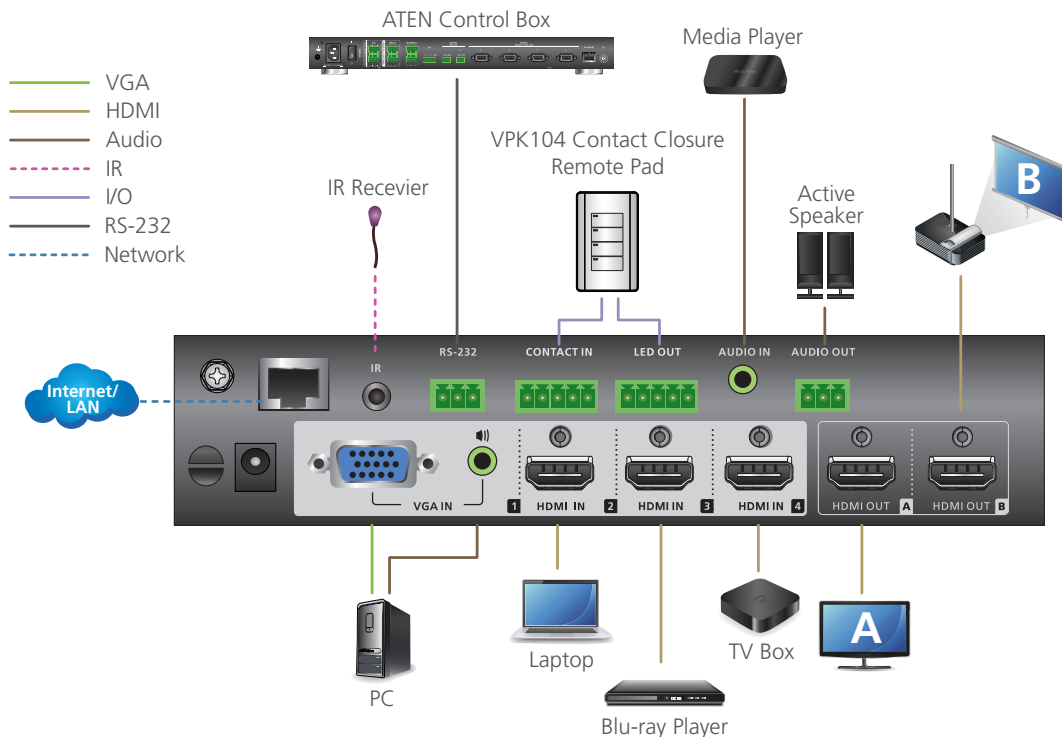Rear view

Features

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 stereo line out
• Audio de-embedding – HDMI audio can be extracted to stereo line out
• Auto switching – automatically detects and switches to a new source as soon as it is connected

High-definition Video with Optimum Output
• Superior video quality – True 4K resolutions up to 4096 x 2160@60Hz (4:4:4) (HDMI)
• Supports 4K HDR
• Scaler – supports video upscaling to 4K for display A and downscaling to 1080p for display B
• 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

Versatile, Streamlined Operation
• 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
• Consumer Electronics Control (CEC) support
• Built-in Contact in and LED out for keypad control using VPK104 Contact Closure Remote Pad

ATEN Control Box

Media Player

VGA
HDMI
Audio
IR
I/O
RS-232
Network

VPK104 Contact Closure Remote Pad

IR Recevier

Active Speaker

B

Internet/ LAN

RS-232   CONTACT IN   LED OUT   AUDIO IN   AUDIO OUT

IR

VGA IN   1 HDMI IN   2 HDMI IN   3 HDMI IN 4   HDMI OUT A   HDMI OUT B

PC

Laptop

Blu-ray Player

TV Box

A

Specifications

Functions	VP1420
Video Input	
Interfaces	3 x HDMI Type A female (Black) 1 x VGA (HDB-15) Female (Blue)
Max. Distance	HDMI: 4K@60Hz (4:4:4) up to 3m; 4K@30Hz up to 10m; 1080p@60Hz up to 15m VGA: 1080p@60Hz up to 15m
Video Output	
Interfaces	2 x HDMI Type A female (Black)
Max. Distance	HDMI: 4K@60Hz (4:4:4) up to 3m; 4K@30Hz up to 10m; 1080p@60Hz up to 15m
Video	
Max. Resolution	HDMI: Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4) VGA: Up to 1080p@60Hz
Compliance	HDMI 2.0 (3D, Deep Color, 4K); 4K HDR HDCP 2.2 Compatible; Consumer Electronics Control (CEC)
Audio	
Input	Stereo Audio (VGA): 1 x mini stereo Jack female (Green) Stereo Audio (HDMI): 1 x mini stereo Jack female (Green)
Output	Line Out (Unbalanced): 1 x Captive Screw Connector, 3-pole
Control	
RS-232	1 x Captive Screw Connector, 3-pole
IR	1 x Mini Stereo Jack Female (Black)
Ethernet	1 x RJ-45 Female (Silver)
Contact In	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: ATEN Default / Display A / Remix
Connectors	
Power	1 x DC Jack (Black)
Power Consumption	DC5V: 7.21W
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
Dimensions (L x W x H)	20.00 x 16.05 x 4.40 cm

Product information is subject to change without prior notice.