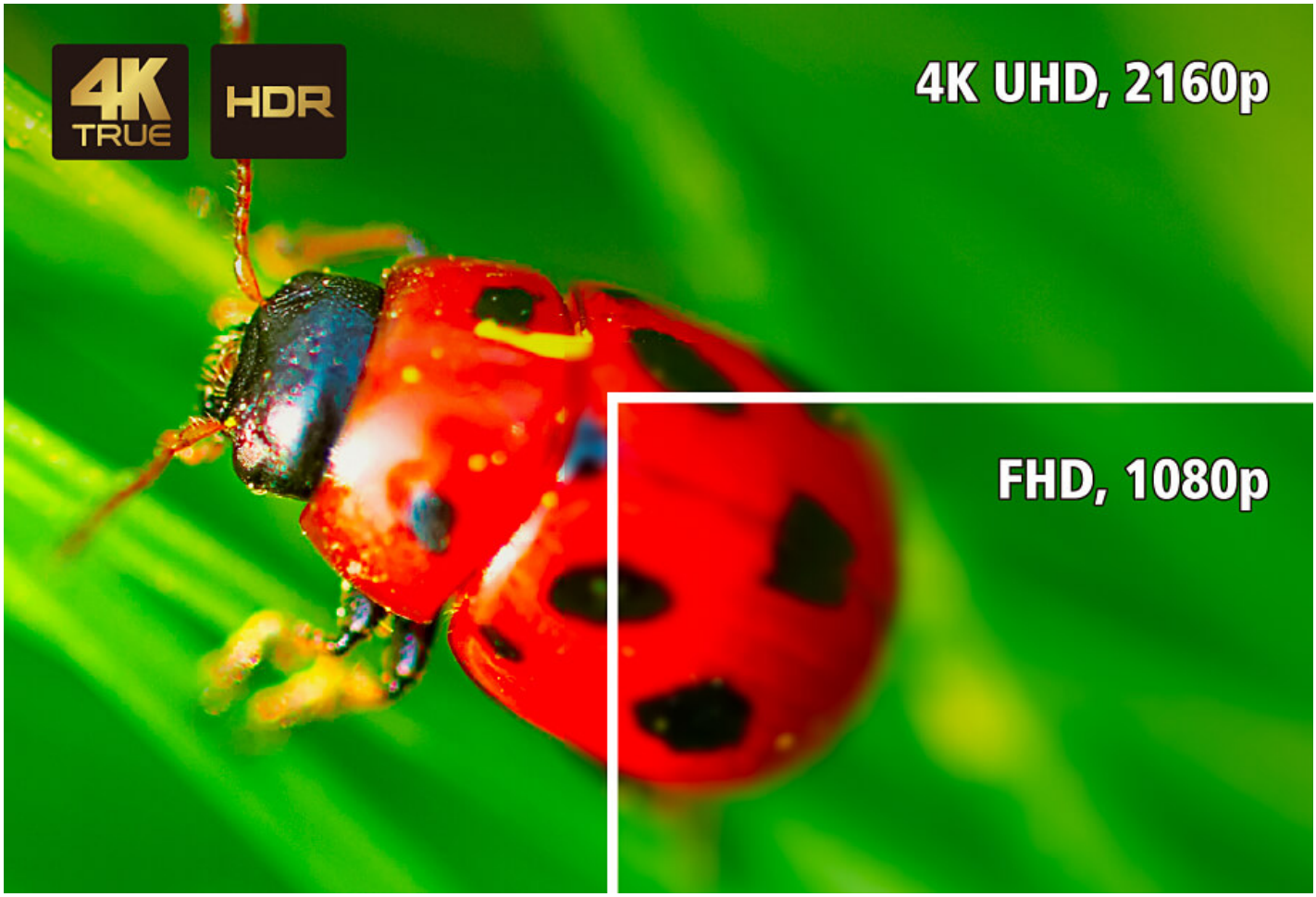
VP1420

4 x 2 True 4K Presentation Matrix Switch

ATEN VP1420 is a multi-in-one presentation switch that integrates a video matrix, True 4K scaler, audio processor, and analog-to-digital converter functions into one compact device. With four analog/digital inputs to two HDMI outputs, it is designed to boost the impact of any professional presentation in small- to medium-size meeting rooms.



True 4K, HDR Visual Clarity

Supports resolutions up to 4096 x 2160 @ 60Hz (4:4:4) with HDR to deliver vivid content in every presentation.

Smooth AV Switching Scaled to Perfection

Connect up to 4 sources (3 HDMI, 1 VGA), smoothly switch between them and display contents scaled perfectly to True 4K and 1080p simultaneously.

Contact Us

Get a quote for this product or get in touch with our sales experts

Get Quote

Contact Sales

Audio De-embedding

Extract HDMI audio to Audio Line Out

Audio Embedding

Embed stereo audio into HDMI output or Audio Line Out

Flexible Audio Embedding / De-Embedding

Supports stereo audio embedding and HDMI audio de-embedding to different audio outputs to ease adaptation to your preferred audio setup.

Versatile Control, Streamlined Operations

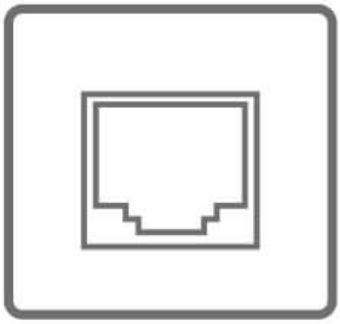
Control via front-panel pushbuttons, IR remote, web-based GUI and any control interface via RS-232, Ethernet, and Contact Closure to streamline your operations.

Pushbuttons

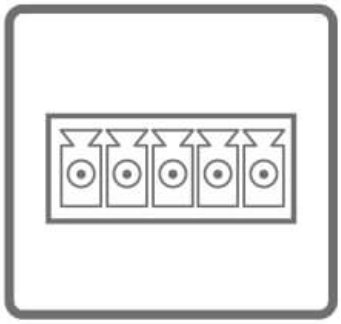
IR Remote

Web GUI

RS-232



Ethernet



Contact Closure

Talk to Our Experts

If you prefer to have ATEN contact you, please complete the form and a representative will be in touch with you shortly


4K
TRUE
HDR
HDMI
HIGH-DEFINITION MULTIMEDIA INTERFACE

Features

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.

Note: The VP1420 scaler only supports upscaling 1080p to 4K for display A, and downscaling 4K to 1080p for display B. Other resolution scaling is inapplicable.

- 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 (3D, Deep Color, 4K); HDCP 2.2 compliant

    Note: The VP1420 scaler only supports upscaling 1080p to 4K for display A, and downscaling 4K to 1080p for display B. Other resolution scaling is inapplicable.

- Versatile, Streamlined Operation
  - Multiple control options – flexible control via front-panel pushbuttons, IR remote control, RS-232, and web-based GUI through Ethernet
  - View and control via ATEN Video Presentation Control App in a swift and agile way
  - 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

Specification

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) at 5m; 4K@30Hz at 10m; 1080p@60Hz at 15m VGA: 1080p@60Hz at 15m
Video Output	
Interfaces	2 x HDMI Type A female (Black)
Max. Distance	HDMI: 4K@60Hz (4:4:4) at 5m; 4K@30Hz at 10m; 1080p@60Hz at 15m
Video	
Max. Resolution	HDMI: Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4) VGA: Up to 1080p@60Hz
Compliance	HDMI (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:38BTU/h Note: ● The measurement in Watts indicates the typical power consumption of the device with no external loading. ● The measurement in BTU/h indicates the power consumption of the device when it is fully loaded.
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

Diagram