

VP1421

4 x 2 True 4K Presentation Matrix Switch with Scaling, DSP, and HDBaseT-Lite

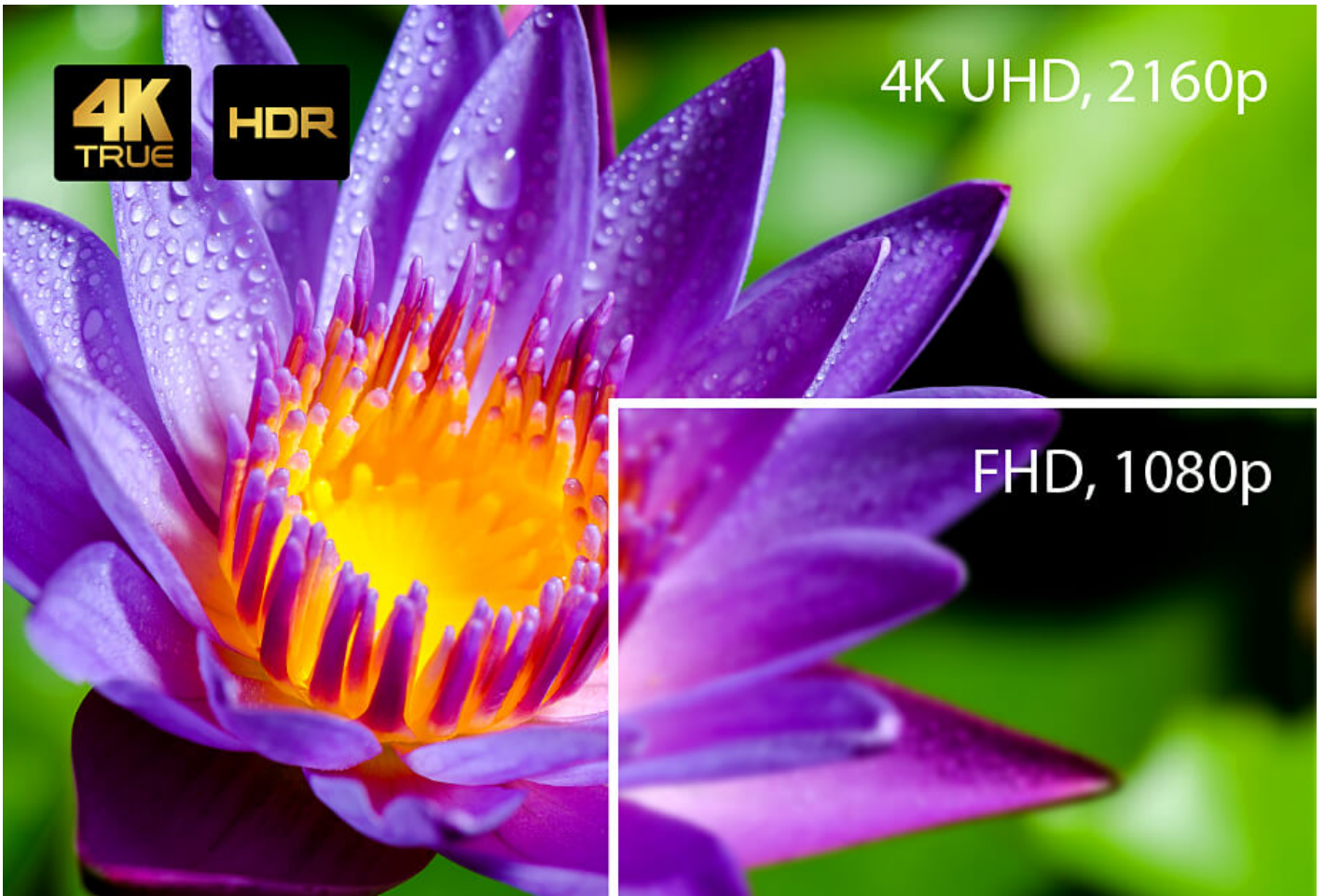


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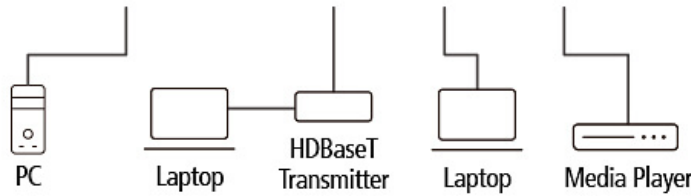
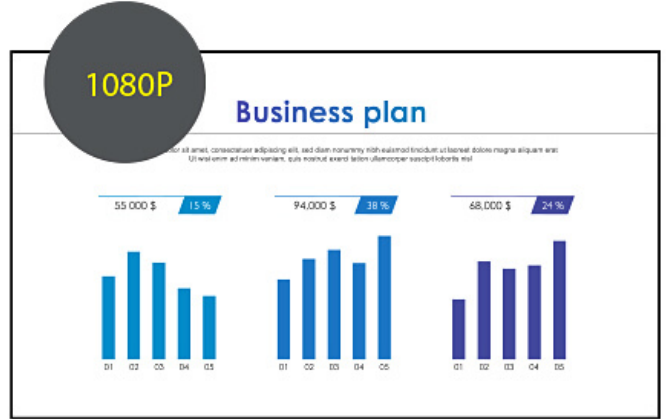
The VP1421 is a multi-in-one [presentation switch](#) that integrates a [video matrix](#), [True 4K](#) scaler, HDBaseT extender, audio DSP, and [analog](#)-to-digital converter functions into a single compact enclosure, ideal for [meeting rooms](#) and educational spaces.

**True 4K, HDR Visual Clarity**

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

Smooth AV Switching Scaled to Perfection

Connect up to 4 sources (1 HDBaseT, 2 HDMI, 1 VGA), smoothly switch between them and display contents scaled perfectly to [True 4K](#) and 1080p simultaneously.

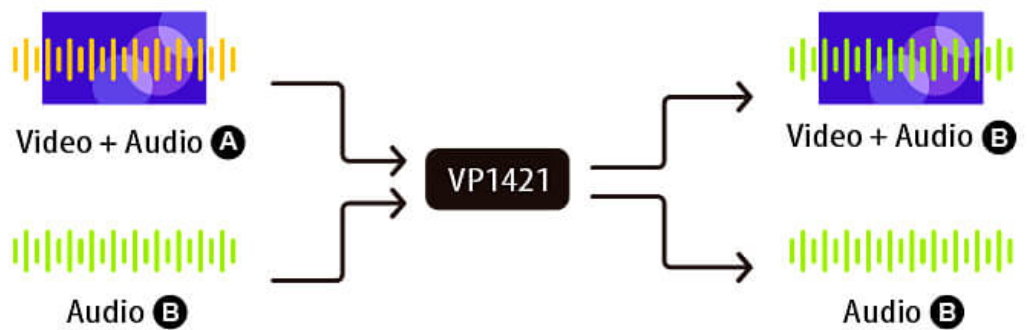
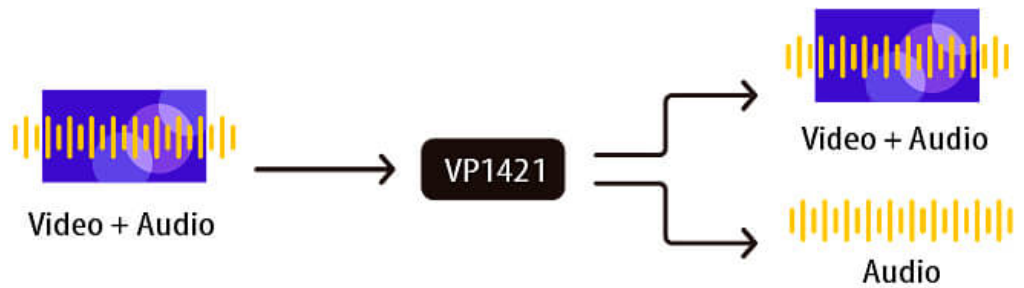
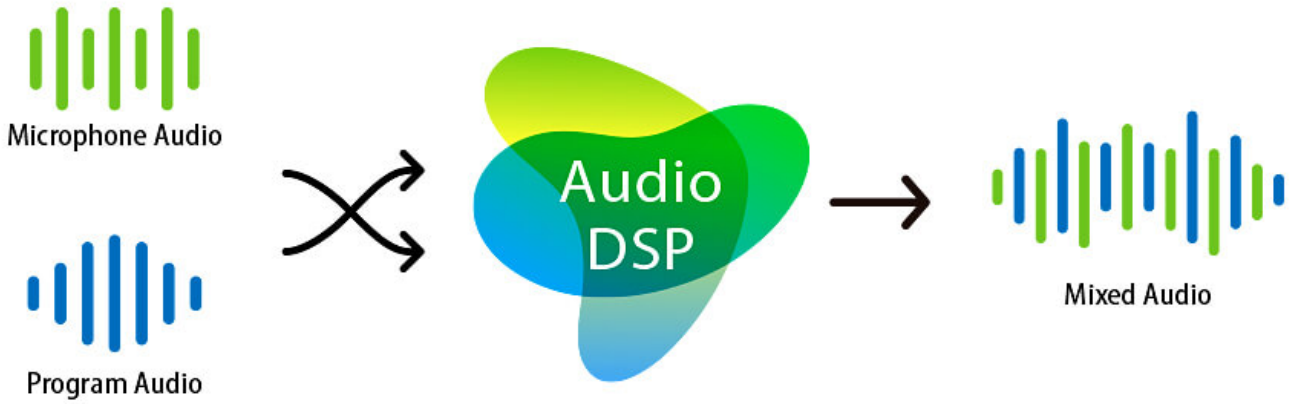


HDBaseT Extended Transmission over One Cable

Simplifies cabling and transmits AV, power, and bi-directional RS-232 and IR control signals up to 140m via Cat 6/6a or ATEN [2L-2910](#) Cat 6 cables (applying both HDBaseT input and output ports).

Built-in Advanced Audio DSP

Supports microphone input with selectable 48V Phantom Power and allows microphone input to be mixed with program audio and embedded into display output while automatically reducing program audio to enhance speech audibility.

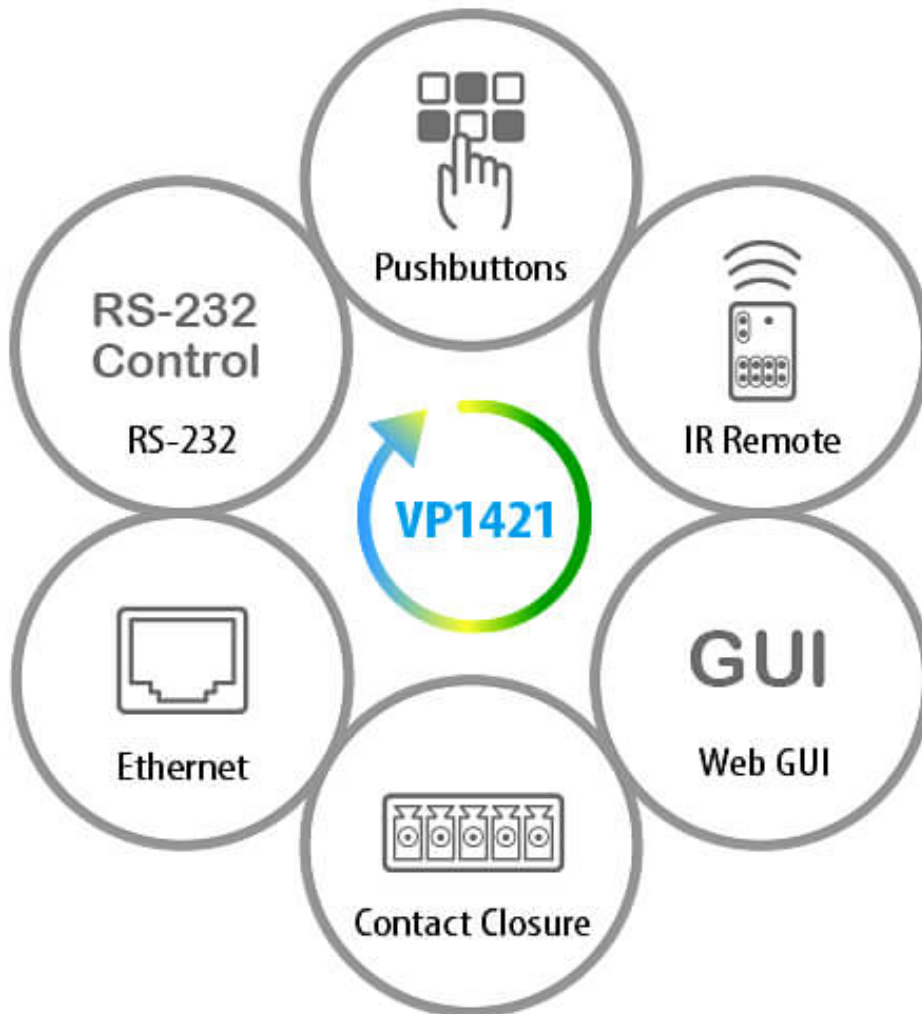


Flexible Audio Embedding/De-Embedding

Supports stereo audio embedding into HDMI output or separation to Audio Line Out and Optical Audio Out. Extract HDMI and HDBaseT audio to different audio outputs as well to ease adaptation to you 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.



Features

- [Analog/Digital AV Matrix Switching](#)

- Supports multi-format 4 Inputs – 2 HDMI, 1 HDBaseT, and 1 VGA inputs
- 1 HDMI and 1 HDBaseT outputs
- Audio embedding – stereo audio can be embedded into display output or separated to stereo line out and optical audio outputs
- Audio de-embedding – HDMI/HDBaseT audio can be extracted to stereo line out
- Built-in Audio DSP – supports microphone input with selectable 48V Phantom Power and allows microphone input to be mixed with program audio and embedded into display output
- Automatically reduces program audio when a microphone signal is detected
- 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) / 4096 x 2160@60Hz (4:2:0) (HDBaseT)
- 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
- View and control via ATEN Video [Presentation](#) Control App in a swift and agile way
- Bi-directional RS-232 and IR channel – allows AV device control over HDBaseT connection without additional cabling
- 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

- [Extended Transmission over One Cable](#)

- Long-distance transmission – transmit digital AV signal, bi-directional RS-232, and IR control signals up to 140m* via Cat 6/6a or ATEN [2L-2910](#) Cat 6 cables
- Power over HDBaseT (POH) – remote powering over existing communication cable with selectable powering device
Note: This is achieved using both the HDBaseT In and the HDBaseT Out ports on the VP1421, each extending the transmission up to 70m.

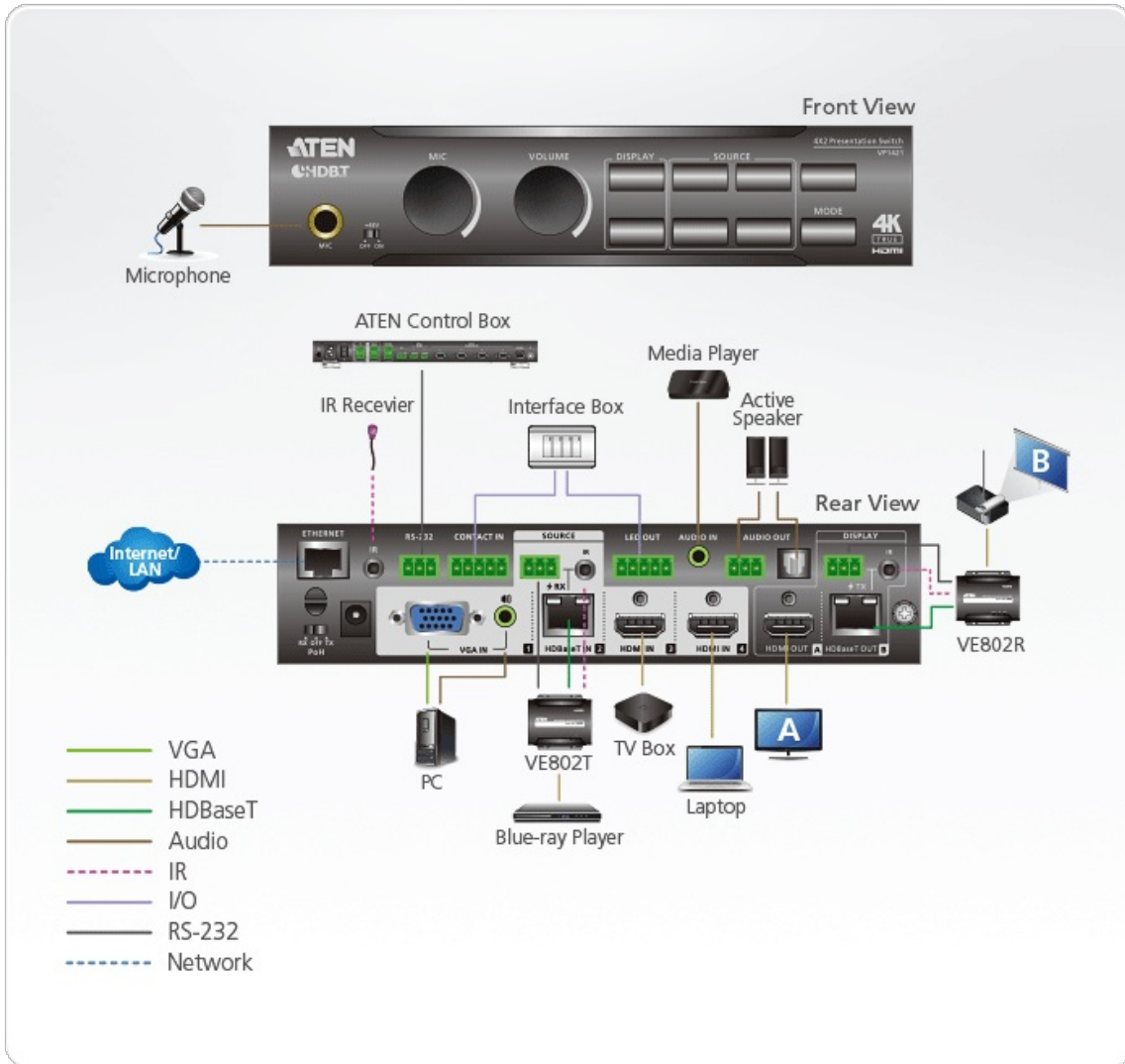
Specifications

Video Input	
Interfaces	2 x HDMI Type A female (Black) 1 x VGA (HDB-15) Female (Blue) 1 x HDBaseT (RJ-45) Female (Silver) with selectable PoH
Max. Distance	HDMI: 4K@60Hz (4:4:4) at 5m; 4K@30Hz at 10m; 1080p@60Hz at 15m VGA: 1080p@60Hz at 15m HDBaseT: 4K@30Hz at 35m (Cat 5e/6) / 40m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@60Hz at 60m (Cat 5e/6) / 70m (Cat 6a/ATEN 2L-2910 Cat6)
Video Output	
Interfaces	1 x HDMI Type A female (Black) 1 x HDBaseT (RJ-45) Female (Silver) with selectable PoH

Max. Distance	HDMI: 4K@60Hz (4:4:4) at 5m; 4K@30Hz at 10m; 1080p@60Hz at 15m HDBaseT: 4K@30Hz at 35m (Cat 5e/6) / 40m (Cat 6a/ATEN 2L-2910 Cat6); 1080p@60Hz at 60m (Cat 5e/6) / 70m (Cat 6a/ATEN 2L-2910 Cat6)
Video	
Max. Resolution	HDMI: Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:4:4) VGA: Up to 1080p@60Hz HDBaseT: Up to 4096 x 2160 / 3840 x 2160 @ 60Hz (4:2:0) ; Up to 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4)
Compliance	HDMI 2.0 (3D, Deep Color, 4K); 4K HDR HDCP 2.2 Compatible; Consumer Electronics Control (CEC)
Audio	
Input	Stereo Audio (HDMI/HDBT): 1 x mini stereo Jack female (Green) Stereo Audio (VGA): 1 x mini stereo Jack female (Green) Microphone: 1 x 6.3mm Jack connector (with selectable phantom power)
Output	Line Out (Unbalanced): 1 x Captive Screw Connector, 3-pole Optical Audio: 1 x Toslink (Black)
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
IR Channel	HDBaseT In : 1 x Mini Stereo Jack Female (Black) HDBaseT Out : 1 x Mini Stereo Jack Female (Black)
RS-232 Channel	HDBaseT In : 1 x Captive Screw Connector, 3-pole HDBaseT Out : 1 x Captive Screw Connector, 3-pole
Switches	
Power	1 x Pushbutton (LED: Green / Orange) 1 x Slide Switch (+48V Phantom Power) 1 x Slide Switch (PoH)
Video Input Port Selection	4 x Pushbutton (LED: Green)
Video Output Port Selection	2 x Pushbutton (LED: Orange)
Selection	Mic: 1 x Knob Volume: 1 x Knob Mode / Unlock: 1 x Pushbutton
EDID Settings	EDID Mode: ATEN Default / Display A / Remix
Connectors	

Power	1 x DC Jack (Black)
Power Consumption	DC12V:14.93W:110BTU
Environmental	
Operating Temperature	0-40°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Weight	1.16 kg (2.56 lb)
Dimensions (L x W x H)	20.00 x 17.01 x 4.40 cm (7.87 x 6.7 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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