ATEN Video Presentation Switches
Versatile, Multi-in-One Solutions for Any Meeting Space
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Meeting the Challenges of Today’s Spaces

Meetings are changing every day as more organizations embrace new technology. From bring-your-own-device meetings to remote ones, the nature of collaboration, presentation, and communication is constantly evolving. Video chats, digital meeting notes, and remote sharing are fast becoming expected by professionals looking to carry out meetings today.

To meet the demands of this changing landscape, we have developed our ATEN presentation switch series in both core and collaborative models. These solutions are tailor-made for smooth, efficient meetings in the face of challenges from using multiple device formats and sources, including from remote participants. Get the flexibility, ease-of-use, and control you need for any size meeting room environment in commercial and educational spaces with our solutions to help you have the productive meetings that are crucial to success in today’s information-centric global world.

Maximized Compatibility for Simplified AV Integration
Integrates diverse AV interfaces with extensive transmission, conversion, and processing capabilities, while eliminating the need for numerous individual components and avoiding compatibility challenges during setup.

User-centric Controls + App for Streamlined Operations
Features user-centric control methods including front panel pushbuttons with intuitive OSD, Web GUI, Mobile App, as well as IR, RS-232, and Ethernet for control integration that streamlines user operations.

For all Commercial and Educational Meeting Spaces
Unique designs to satisfy application demands, from simple presentation source switching to advanced collaboration and remote participation in meeting rooms, conference rooms, classrooms, lecture halls, and more.
ATEN’s Video Presentation Switches

Empower multi-format connectivity and boost the efficiency and impact of professional presentations with models from our Core Series. Benefits include:

- **Superior Video up to True 4K, HDR**
  Features models with up to 4K and True 4K resolutions that support popular HDR formats, delivering more vivid and vibrant video than ever before.

- **Multi-format AV Interface Support**
  Provides diverse legacy and modern AV interfaces including HDMI, VGA, HDBaseT, Component/Composite video with support for Stereo, Coaxial, Toslink, and Optical audio outputs, giving you the connections you need.

- **Compact Solution in One Enclosure**
  Integrates additional AV processing capabilities, such as HDBaseT connectivity, audio mixing, and microphone support, and provides an economical and efficient all-in-one solution to minimize your setup efforts as well as total cost of ownership.

- **Seamless Switch for Ultra Smooth Transitions**
  Enables real-time control and zero-delay switching between multiple sources for uninterrupted experiences while transitioning from one presentation source to another.

- **Bi-directional Streaming for Remote Sharing**
  Flexibly share presentation content wirelessly via the VP Web GUI and Mobile App with any mobile device from anywhere on the network.

- **Advanced Collaboration Features**
  Features collaboration functions such as the Whiteboard and Chat Room that enhance teamwork or group discussions, as well as the Moderator for more complicated meeting settings where control over meeting flow is required.

Streamline meeting accessibility and facilitate local and remote collaboration and presentation content sharing via wired or wireless methods with models from the Collaborative Series. Benefits include:

Note: Please refer to the Specification Table or Product Pages for features supported by each Model.

### Product Comparison

<table>
<thead>
<tr>
<th>Series</th>
<th>Core Series</th>
<th>Collaborative Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>VP1420</td>
<td>VP1421</td>
</tr>
<tr>
<td>Max. Resolution</td>
<td>HDMI: 4K@60Hz (4:4:4)</td>
<td>VGA: 1920 x 1200@60Hz</td>
</tr>
<tr>
<td></td>
<td>VGA: 1920 x 1200@60Hz</td>
<td>HDBaseT: 4K@60Hz (4:2:0); 4K@30Hz (4:4:4)</td>
</tr>
<tr>
<td></td>
<td>HDMI/DP: 4K@60Hz (4:2:0); 4K@30Hz (4:4:4)</td>
<td>VGA/Analog: 1920 x 1200@60Hz</td>
</tr>
<tr>
<td>HDR</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>HDCP</td>
<td>HDCP 2.2</td>
<td>HDCP 2.2</td>
</tr>
<tr>
<td>Video Inputs</td>
<td>HDMI</td>
<td>HDMI/DP</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>2</td>
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<tr>
<td>DisplayPort</td>
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<td>N/A</td>
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<tr>
<td>VGA</td>
<td>1</td>
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<tr>
<td>Component/Composite</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Audio Input</td>
<td>HDMI, Stereo</td>
<td>HDMI, Stereo</td>
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<tr>
<td></td>
<td>N/A</td>
<td>N/A</td>
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<td></td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Audio Output</td>
<td>HDMI (Out Unbalanced)</td>
<td>HDMI (Optical, Line Out (Unbalanced))</td>
</tr>
<tr>
<td></td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td></td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Audio DSP/Audio Mixer</td>
<td>N/A</td>
<td>Audio DSP</td>
</tr>
<tr>
<td>Audio Embedding/Di-embedding</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Phantom Power</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Features</td>
<td>Streaming In</td>
<td>Streaming Out</td>
</tr>
<tr>
<td></td>
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<tr>
<td>Seamless Switching</td>
<td>N/A</td>
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<tr>
<td>Scalker</td>
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<td>N/A</td>
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<td>Preview</td>
<td>N/A</td>
<td>N/A</td>
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<td>Multi-view</td>
<td>N/A</td>
<td>N/A</td>
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<td>Auto Switching</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Collaboration</td>
<td>Whiteboard, Chat Room</td>
<td>Moderator Mode</td>
</tr>
<tr>
<td>Features</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>USB Keyboard/ Mouse/Peripherals Control</td>
<td>N/A</td>
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</tbody>
</table>

VP1000
Core Series

VP2000
Collaborative Series
The VP1420 and VP1421 are multi-in-one presentation switches that integrate video matrix, True 4K scaler, audio processing, extension, and converter functions into a single compact enclosure to empower impactful, streamlined presentations in commercial and educational meeting spaces.

**VP1420**
- **4 x 2 True 4K Presentation Matrix Switch**

**VP1421**
- **4 x 2 True 4K Presentation Matrix Switch with Scaling, DSP, and HDBaseT-Lite**

**Integrating Everything You Need to Stand Out**

- **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 Switching and Scaling**
  Connect up to 4 multi-format sources, smoothly switch between them and display contents scaled perfectly for True 4K and 1080p simultaneously.

- **HDBaseT Extended Transmission over One Cable**
  Transmit AV, power, and bi-directional RS-232 and IR control signals up to 140m via HDBaseT (applying both HDBaseT input and output ports).

- **Built-in Audio DSP**
  Supports condenser microphone input with selectable 48V Phantom Power and allows microphone input to be mixed with program audio.

- **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.

*Available on VP1421*
Typical Applications

### Small Meeting Room

<table>
<thead>
<tr>
<th>Challenges</th>
<th>Solutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Integrate up to 4 sources that use different analog/digital interfaces</td>
<td><a href="#">Compact device that consolidates multiple source formats</a></td>
</tr>
<tr>
<td>UHD output capability with choice of simultaneous output to 2 displays</td>
<td><a href="#">Built-in True 4K scaler, supports HDR, and capable of automatic scaling for simultaneous True 4K and 1080p outputs</a></td>
</tr>
<tr>
<td>Extract audio into connected audio system or display output</td>
<td><a href="#">Supports audio embedding / de-embedding</a></td>
</tr>
</tbody>
</table>

### Medium Meeting Room

<table>
<thead>
<tr>
<th>Challenges</th>
<th>Solutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Projectors or displays are located up to 140m feet away from the source device</td>
<td><a href="#">Supports long distance transmission via HDBaseT</a></td>
</tr>
<tr>
<td>Control switching of sources from an easily accessible area</td>
<td><a href="#">Switch sources directly via a Contact Closure Remote Pad located in an easy-to-reach location</a></td>
</tr>
<tr>
<td>Support microphone input and the flexibility to mix with other audio sources during presentations</td>
<td><a href="#">Mixes microphone input with other audio sources and automatically reduces their volume when microphone signal is detected</a></td>
</tr>
<tr>
<td>Extract audio into connected audio system or display output</td>
<td><a href="#">Supports audio embedding / de-embedding</a></td>
</tr>
</tbody>
</table>
9 x 2 4K Presentation Matrix Switch

Empowering Multi-format 4K Presentations

The ATEN VP1920 is a 3-in-1 presentation switch integrating video matrix switching, audio processing and analog-to-digital conversion. With nine inputs to two 4K outputs, it is designed to boost the efficiency and impact of professional presentations.

With streamlined control from front panel pushbuttons, IR remote controller, OSD and RS232, the VP1920 reduces not only system device count, but also lowers operation complexity. It is suitable for all small-to-medium sized corporate and education presentation environments, such as meeting rooms, classrooms, training rooms, or any other presentation setting, such as in exhibition centers or hotels.

• Multi-format AV Switching
Smooth switching among 6 HDMI and 3 combo inputs (HDMI/VGA, HDMI/Display-Port, HDMI/Component/Composite) to two HDMI outputs and supports Coaxial, Toslink and Stereo audio outputs.

• USB Control Routing for PCs and Touch Panels
USB ports integrate PC and touch panel controls with other devices into one system. Independent switching of USB peripheral ports and keyboard/mouse control focus.

• Selectable Matrix, Mirror and PIP* Modes
Three different display modes meet the needs of various events or presentation styles.

Matrix Mode

Mirror Mode

PIP (Picture in Picture) Mode*

• Source Preview*
Quickly identify and switch to your target content. No more guessing which port connects to which content source.

*Supports up to 1080p
### Typical Applications

#### Meeting Room with Remote PC Control

<table>
<thead>
<tr>
<th>Challenges</th>
<th>Solutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Integrate various sources that use different analog/digital interfaces</td>
<td>A compact device that consolidates multiple source formats</td>
</tr>
<tr>
<td>The meeting room needs to be PC-equipped for participants without laptops</td>
<td>Integrates USB control functionality into one device and can switch the control focus independently to control two PCs</td>
</tr>
<tr>
<td>The meeting moderator needs to manage two PCs with a single keyboard/mouse</td>
<td>Multi-in-one presentation switch minimizes system device count and removes potential compatibility issues</td>
</tr>
</tbody>
</table>

#### Classroom with Interactive Display

<table>
<thead>
<tr>
<th>Challenges</th>
<th>Solutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connect equipment with a mix of legacy and newer interfaces, including document camera, touch panel, set-top box, audio amplifier, and more</td>
<td>A compact device that consolidates multiple source formats and integrates easily with a digital podium</td>
</tr>
<tr>
<td>Matrix display of different sources on two screens</td>
<td>VP1920 supports matrix display mode</td>
</tr>
<tr>
<td>Show the interactive touch panel content on a larger projector screen for the class</td>
<td>Easily integrates a touch panel into one system and mirrors the content to the projector screen</td>
</tr>
<tr>
<td>A simple configuration solution to avoid possible compatibility issues</td>
<td>Simplifies system build by reducing the number of extra switches / converters / USB extenders</td>
</tr>
</tbody>
</table>
Seamless Presentation Switch with Quad View Multistreaming

Empowering Efficient BYOD Collaboration On-Demand

The ATEN VP2120 Seamless Presentation Switch integrates video matrix switch, AV streaming, audio mixing, and collaborative functions to empower a variety of collaboration needs in huddle spaces, huddle rooms, and small-size meeting rooms.

- **Stream from Any BYOD Device**
  Join meetings and share presentation content wirelessly from any mobile device with the Web GUI or ATEN Video Presentation Control App.

- **Bi-directional Multistreaming**
  Stream contents bi-directionally among 4 participants simultaneously. Go Live to stream-out contents to participants located elsewhere.

- **Quad View with Auto Layout**
  Display 4 streaming-in sources in a quad view layout that dynamically adjusts to the number of sources, and select any source to enlarge to full-screen.

- **Real-time Whiteboard Annotation**
  Multiple participants can take notes and make annotations on any file at the same time. Save and share content for efficient follow-up.

- **Instant Chat Room Sharing**
  Participants can chat with each other or send files to all participants at once to ensure that everyone is on the same page.

- **Secure Connections**
  Connects to the existing network infrastructure and logins are controlled by Room Codes to ensure the required level of IT security.
### Typical Applications

#### Huddle Space

<table>
<thead>
<tr>
<th>Challenges</th>
<th>Solutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Secure and easy to access, on-demand</td>
<td>Connects to secure corporate network and can be accessed easily by simple logins</td>
</tr>
<tr>
<td>Content sharing from a variety of mobile devices</td>
<td>Wireless content streaming from up to 4 devices</td>
</tr>
<tr>
<td>Spontaneous discussions that require multiple participants to show their contents simultaneously</td>
<td>View up to 4 streamed-in sources in quad view and select amongst them to go full screen</td>
</tr>
</tbody>
</table>

#### Meeting Room with Remote Participants

<table>
<thead>
<tr>
<th>Challenges</th>
<th>Solutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enable participants to join meetings and share content from their remote locations</td>
<td>Connects to secure corporate network and can be accessed easily by simple logins, wirelessly</td>
</tr>
<tr>
<td>Note taking and information sharing to ensure all meeting participants are on the same page</td>
<td>Bi-directional multistreaming enables content to be shared to and from participants remotely</td>
</tr>
<tr>
<td>Spontaneous discussions that require multiple participants to show their content simultaneously</td>
<td>Features Whiteboard for annotations and note taking</td>
</tr>
<tr>
<td>Flexibility to support diverse source interfaces</td>
<td>Features Chat Room for instant messaging and file sharing</td>
</tr>
</tbody>
</table>

### Diagram

- **ATEN Device**
- **Laptop A**
- **Laptop B**
- **Laptop C**
- **Display A**
- **Display B**
- **Other Device**
- **Corporate Network**
- **HDMI**
- **Network**

### Floor Plan

- **Laptop B**
- **VP2120**
- **Laptop A**
- **Other Device**
- **Display**
- **Corporate Network**
- **HDMI**
- **Network**
- **Smartphone**
- **Join meeting via ATEN Video Presentation App**
- **Present contents via ATEN Video Presentation Control App**
- **Present contents via Web Browser**
- **ATEN Device**
- **Making notes on the Whiteboard**
- **Standby to present content**
- **Streaming in contents**
VP2730 is a multi-in-one presentation switch integrating video matrix switch with scaler, streaming, audio mixer, HDBaseT extender and analog-to-digital converter functions into one compact device.

With seven multi-format inputs to two HDMI and one HDBaseT outputs, VP2730 empowers larger meetings and facilitates collaboration between local and remote participants in boardrooms, conference rooms, lecture halls or distance learning classrooms.

**Facilitating Seamless Distance-free Collaboration**

VP2730 is a multi-in-one presentation switch integrating video matrix switch with scaler, streaming, audio mixer, HDBaseT extender and analog-to-digital converter functions into one compact device.

With seven multi-format inputs to two HDMI and one HDBaseT outputs, VP2730 empowers larger meetings and facilitates collaboration between local and remote participants in boardrooms, conference rooms, lecture halls or distance learning classrooms.

**7 x 3 Seamless Presentation Matrix Switch with Scaler, Streaming, Audio Mixer, and HDBaseT**

**Bi-directional Streaming**

Expedite collaboration with bi-directional content streaming. Go live to stream out HD video or stream in content from a remote site via an intuitive web GUI.*

1. Up to five remote sites can connect; only one site can stream in at a time.
2. Streaming out requires a bandwidth of 2 MB or more.

**Seamless Switch with Scaler**

Zero-second switching without any latency while scaling for the best output resolution ensures extra smooth presentations.

**Moderator Mode**

The meeting moderator can control any output display remotely and discretely without interrupting the meeting flow.

**Built-in Audio Mixer**

Supports dynamic and condenser microphone input with selectable 48V Phantom Power and allows microphone input to be mixed with program audio.

**Multi-view Flexibility**

Display and switch simultaneously up to six sources in PiP (picture in picture), PbP (picture by picture), quad-view mode and more.

*For streaming, please refer to the user manual for details.

**Up to five remote sites can connect; only one site can stream in at a time.**

**Streaming out requires a bandwidth of 2 MB or more.*
### Typical Applications

#### Conference Room with Moderator

<table>
<thead>
<tr>
<th>Challenges</th>
<th>Solutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Integrate various sources that use different analog/digital interfaces</td>
<td>A compact device that consolidates multiple source formats</td>
</tr>
<tr>
<td>Easy content sharing and collaboration between on-site and remote participants</td>
<td>Bi-directional multistreaming enables content to be shared to and from participants remotely</td>
</tr>
<tr>
<td>Meeting moderator needs to manage output displays without interrupting the meeting</td>
<td>Moderator Mode lets the moderator discretely access any output display to switch content or change settings</td>
</tr>
<tr>
<td>Extract audio and connect to the existing audio system</td>
<td>Supports audio embedding and de-embedding</td>
</tr>
<tr>
<td>Overlay the microphone input on top of other audio sources for collaboration</td>
<td>Supports mixing the microphone inputs with any external analog or digital audio source</td>
</tr>
</tbody>
</table>

#### Lecture Hall

<table>
<thead>
<tr>
<th>Challenges</th>
<th>Solutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Displays can be located up to 70 meters away</td>
<td>Long distance extension via HDBaseT</td>
</tr>
<tr>
<td>No black screens when switching sources</td>
<td>Zero-second seamless switching among sources</td>
</tr>
<tr>
<td>Extract audio and connect to the venue audio system</td>
<td>Supports audio embedding and de-embedding</td>
</tr>
<tr>
<td>Overlay the microphone inputs on top of other audio sources for lectures</td>
<td>Supports mixing the microphone inputs with any external analog or digital audio source</td>
</tr>
</tbody>
</table>
The ATEN Video Presentation Control App is a free mobile app that features control and collaboration capabilities to deliver smooth, engaging, and productive meetings when used with ATEN Video Presentation Switches with Ethernet support.

- **Multiple Login Options**
  Auto search the network for ATEN Video Presentation Switches and log in manually or via QR Code.

- **Wireless Streaming**
  Present wirelessly by sharing presentation content directly from your mobile device. View presentation content from remote locations and keep the meeting flowing.

- **Advanced Collaboration**
  Take notes, make annotations with the Whiteboard as well as instantly chat via the Chat Room.

- **Source Preview**
  Drag and drop sources from what you see to where you want to see it to efficiently control the display of multiple presentation sources.

- **Intuitive Control**
  Set layouts, control audio and more with a few simple taps.

**Note:**
1. The features on Video Presentation Control App vary depending on functions supported by each Model.
2. The Video Presentation Control App currently supports VP2120 and VP2730. Support for VP1420 and VP1421: Q2, 2020. For latest information, please visit the ATEN website.
### Specifications

**Series**

- **Core Series**
  - VP1420
  - VP1421
  - VP1920

- **Collaborative Series**
  - VP1250
  - VP1251
  - VP1252

**Outputs**

- **Video Outputs**
  - HDMI: Up to 1080p @ 60Hz
  - VGA: Up to 1920x1200

**Input**

- **Video Inputs**
  - HDMI: Up to 1080p @ 60Hz
  - VGA: Up to 1920x1200

**Audio**

- **立体声音频 (HDMI/VGA):** 1 x Mini Stereo Jack Female
- **平衡音频 (HDMI/VGA):** 1 x Composite (1 x RCA Female)

**Physical Properties**

- **尺寸 (L x W x H):**
  - 20.00 x 16.05 x 4.40 cm
- **重量:** 1.14 kg (2.51 lb)

**Electrical**

- **消费:**
  - DC12V: 14.46W
  - AC110V: 28.5W
  - AC220V: 27.3W

---

### Accessories

**Included Accessories**

- 1 x IR Remote Control
- 1 x Power Cord
- 2 x 5-pole Terminal Blocks
- 2 x 3-pole Terminal Blocks
- 1 x Composite (1 x RCA Female)

**Optional Accessories**

- HDMI Cable (2m): 2L-7D02H-1
- LockPin™ (HDMI Cable Lock): 2L-6E12
- DisplayPort Cable (1m): 2L-7D32P
- DisplayPort Cable (2m): 2L-7D32P
- DisplayPort Cable (3m): 2L-7D32P
- HDMI Cable (3m): 2L-7D02H-3
- 2 x 3-pole Terminal Blocks
- 1 x Composite (1 x RCA Female)
- 1 x Power Cord

---

### Environmental

- **湿度:** 0 - 80% RH, Non-Condensing
- **温度:**
  - 操作: 0 - 40°C
  - 存储: -20 - 60°C

**操作特性**

- **尺寸 (L x W x H):** 20.00 x 16.05 x 4.40 cm
- **重量:** 1.14 kg (2.51 lb)

**物理特性**

- **重量:** 1.14 kg (2.51 lb)
- **尺寸 (L x W x H):** 20.00 x 16.05 x 4.40 cm

---

### Compliance

- **CEC (Consumer Electronics Control)"**
- **HDMI 2.0 (3D, Deep Color, 4K); HDR; HDCP 2.2 Compatible;**