

Modern A/V Broadcasting Solution - HDMI Matrix Switch Integrated with Video Wall System



Client: PETROVIETNAM, Vietnam

Petrovietnam, Vietnam Oil and Gas Group, is a state-owned company in Vietnam that manages petroleum/hydrocarbon exploration and production activities.

The company recently built a large conference room in their Ho Chi Minh City branch office for holding annual shareholder meetings. For real-time monitoring and management of the meetings, all video sources for conferencing, presentations, and surveillance are centrally managed in a control room. Using ATEN solutions control room techs can easily broadcast to a 6x4 video wall on the stage, across multiple LCD TVs around the conference room, and view surveillance video.

Challenges

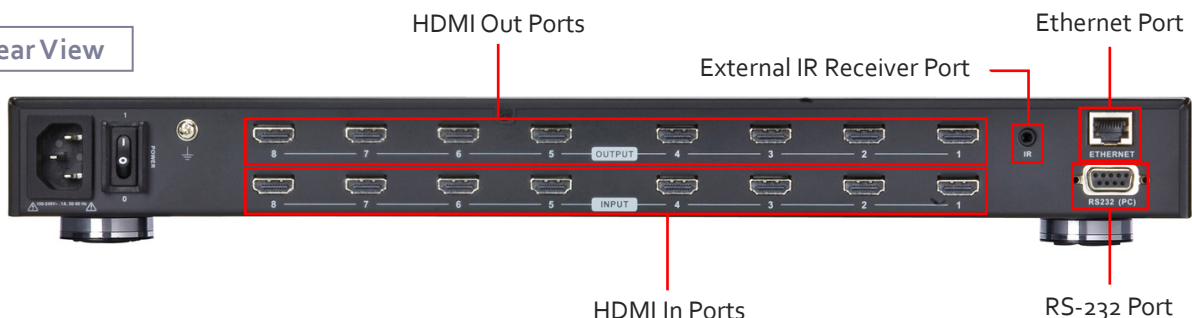
- How to **centrally manage** video sources from different A/V systems and deliver the select signals to a **6 X 4 video wall** and all **LCD TVs**?
- To **split and extend** various video signals to the different display devices around the conference room.
- Ensure **high quality video performance (1080p)** for the video wall and LCD TVs when the signals are extended over a long distance.
- Integrate **various video formats and A/V devices** provided from different vendors.

Solution

VM0808H x 2 8X8 HDMI Matrix Switches



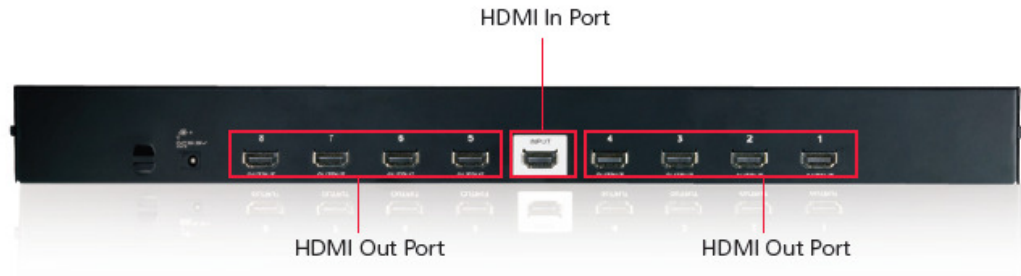
Rear View



VS0108H x 2
8-Port HDMI Splitters



Rear View



VS184 x 3
4-Port HDMI Splitters



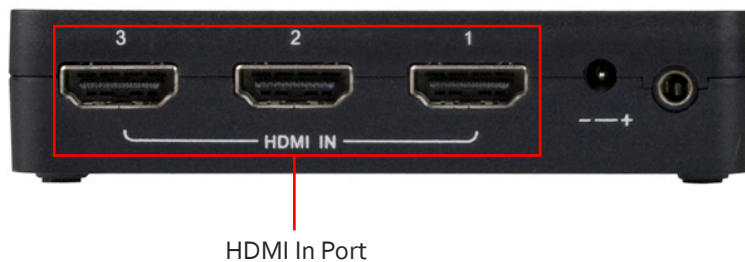
Rear View



VS381 x 3
3-Port HDMI Switches



Rear View



VE800 x 10 HDMI Extender Sets



Local Unit

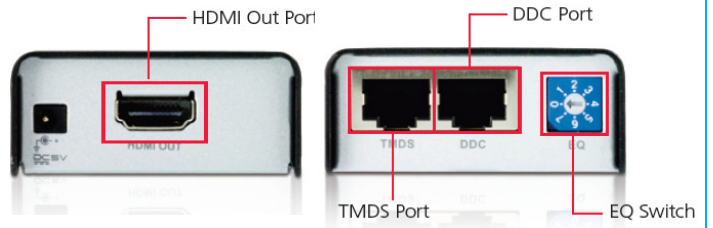
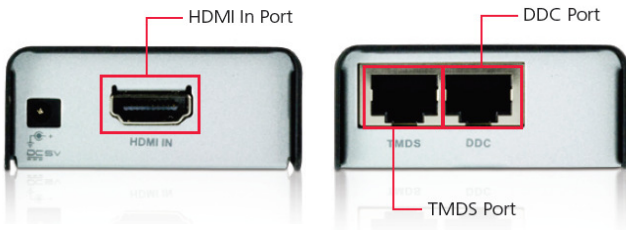
Remote Unit

Front View

Rear View

Front View

Rear View



VE812 x 3 HDMI over Single Cat 5 Extender Sets



VE812T | Front View

VE812R | Front View

VE812T/R | Rear View



HDMI In Port

HDMI Out Port

Link IN/OUT Port

VC180 x 5 VGA to HDMI Converters with Audio

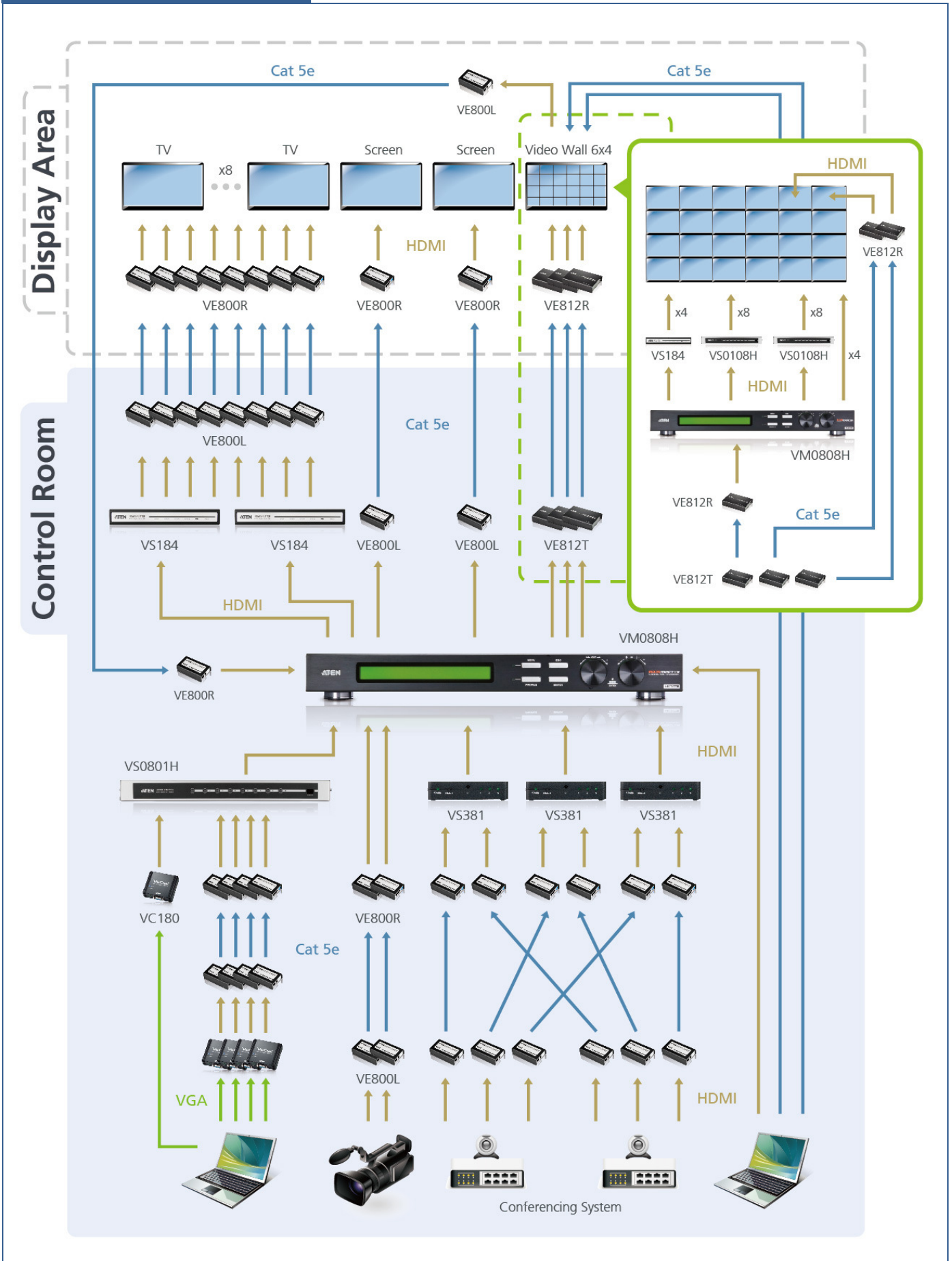


Front View

Rear View



Solution Architecture



Features & Benefits

- The VM0808H HDMI Matrix Switches are used to **centrally manage** the various HDMI input and output devices. The VM0808H has a unique web-based GUI that allows control room operators to easily manage and change video signals from various source devices, while delivering the right signals to the 6x4 video wall and all LCD TVs.
- The company utilized ATEN HDMI Splitters to transmit the video signals to multiple displays, while using VE800 HDMI Extenders and VE812 HDMI HDBaseT Extenders for **longer video transmission** that can be viewed by attendees across the conference room.
- The video sources from cameras, notebooks and the conferencing system support both VGA and HDMI formats. ATEN video converters were used to **convert the video signals** from analog to digital to accommodate all A/V formats while providing smooth high quality video distribution with performance.



VM0808H Browser-based GUI for Flexible Remote Management



ATEN HDMI Extenders uses Cat 5e cable to extend the distance between source and display devices

“Since there are different video sources from various devices in our new A/V broadcasting system, the biggest challenge for us is how to manage varied signals inputs and outputs. ATEN’s products can be compatible with most video devices on the market that provide stable and smooth video display performance. By integrated ATEN’s HDMI Matrix Switch with Samsung’s video wall system, our operators in the control room can easily control various signals via ATEN’s unique GUI tool that can simplify the management processes. In addition, thanks for ATEN’s high quality products and complete pre-sale and post-sale services that help us to choose the right products for our broadcasting system while saving time and cost on the system installation.” – Customer Feedback



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