

House of Worship

Oaks Baptist Church in Grand Prairie, Texas Upgrades Their System with ATEN Video Extenders and Matrix Switch



Challenges

The church approached Videotex Systems looking to update their aging video switching system and projectors in the Sanctuary. They needed a system that would be effective, functional and reliable for many years to come. Videotex was chosen for this project due to their extensive audio/video upgrade experience in the House of Worship Market. The video switching system that was in place at the time was a combination of analog and digital and was no longer working properly. The video outputs to the three projectors in the Sanctuary were analog. In addition, there was no way to control the projectors as cabling between the control deck and the remotes had lost integrity. Finally, the frequent video outages were not only affecting the church services, but they were also affecting the video flow to the outer classrooms and hallways.

Solution Benefits

- **Ease of installation** – after installing the switcher and a quick upgrade to the firmware of the receivers, the signal flow immediately picked up and was displayed on the outputting projector.
- **Functionality and ease of management** – With the Web GUI interface it was an easy process to turn on the Seamless Switch™ function, monitor and adjust the input and output resolutions, and control and manage the switcher.
- **Future system expansion** – ATEN's VM3909H has the additional inputs and outputs that will allow the church to add additional sources or output to new display end points in the future.

- **Seamless Switch™** – close-to-zero second switching speed - When the matrix output button on the front panel is selected, the video signal change on the selected outputting projector end is almost immediate.
- **Control Options** – With the connection of the Bi-directional IR Ports on the VM3909H, all three front of house projectors are now programmed to turn on/off with the press of one button.
- **HDBaseT Connectivity** – effortless video and projector control

Compared to the competition, ATEN's VM3909H and VE805R were more cost-effective and offered exclusive technology such as the Seamless Switch™ function as well as additional inputs and outputs to allow expansion and future upgrades for the customer.

Products



VM3909H

9 x 9 4K HDMI HDBaseT-Lite Matrix Switch

- Supports 9 HDMI inputs and mirrored 9 HDMI and HDBaseT outputs
- The mirrored HDMI outputs can be used to verify the corresponding HDBaseT output or as an additional video display
- HDBaseT Connectivity – connects HDMI displays over a long distance via one Cat 5e/6/6a cable
- HDBaseT Anti-jamming – resists signal interference during high-quality video transmission
- Power over HDBaseT (POH) – supplies power over a long distance from the switch to a receiver over a single Cat 5e/6/6a cable
- Seamless Switch™ Technology – ATEN FPGA engine unifies video formats to provide continuous video streams, real-time switching and stable signal transmissions
- Video Wall – allows you to create custom video wall layouts via intuitive web GUI
- EDID Expert™ – selects optimum EDID settings for smooth power-up, high-quality display and use of the best video resolution across different screens



VE805R

HDMI HDBaseT-Lite Receiver with Scaler (1080p@70m) (HDBaseT Class B)

- HDBaseT Connectivity – extends the connection between the VM8514 HDBaseT outputs and an HDMI display over a long distance via single Cat 5e/6a cable
- Scaler – features a scaling function to integrate a video wall seamlessly with various output formats
- Seamless Switch™ – close-to-zero second switching that provides continuous video streams, real-time switching and stable signal transmissions
- Video Wall – features configurable video wall profiles available for custom screen layouts via simple point-n-click web GUI

VE802R

HDMI HDBaseT-Lite Receiver with POH (4K@40m) (HDBaseT Class B)

- HDBaseT Connectivity – extends an HDMI connection over a long distance via one Cat 5e/6a cable
- POH (Power over HDBaseT) – supplies power from Transmitter to Receiver over a long distance via one Cat 5e/6a cable
- Bi-directional RS-232 channel – allows you to connect to serial terminals or serial devices, such as touch screens and barcode scanners
- Bi-directional IR channel – IR transmission is processed one direction at a time

Connection Diagram

