THE CATHOLIC HIGH SCHOOL OF BALTIMORE

Theater AV Upgrade Case Study

Restoring Reliability, Control, and Confidence for

Live Performance

PRESENTER

Vision Technologies

DATE

February 2026

VISION TECHNOLOGIES®
MAKING VISION REALITY

Challenge & Context

The Catholic High School of Baltimore's theater program needed an AV environment could support rehearsals, performances, and student-led operation' without uncertainty. Prior vendor attempts had not resolved core issues, leaving the team with inconsistent results and a system that was difficult to trust under show conditions.

This project began with a straightforward mandate: stabilize performance, reduce operation friction, and make the room dependable for the people who run it every day.

What was at stake

They weren't looking for another equipment swap. They were looking for a definitive solution.

Strategic Approach

Rather than swapping equipment and hoping for improvement, we treated the theater as a performance environment with measurable requirements. The work focused on performance-driven engineering, intelligent control optimization, and professional audio reliability so the system would behave predictably when it matters most.

We aligned stakeholders on success criteria, mapped real operator workflows, and designed around repeatability - the same inputs should produce the same outcomes every time.

01 → 02 → 03 → 04

NEEDS **ENGINEERING** **CONTROL** **ADOPTION**

Technical Solution

The technical design was built to remove common failure points and create a stable, show-ready baseline. Signal flow was standardized, routing was rationalized, and controls were tuned to how the theater is actually used, not how it looks on a spec sheet.

Key implementation choices prioritized resilience, clarity, and fast recovery. The result is an AV foundation that supports both daily instruction and high-pressure live events.

STANDARDIZED FLOW

RATIONALIZED ROUTING

TUNED CONTROLS

Control Optimization & Audio Reliability

Control was engineered for confidence, predictable states, clear room modes, and safeguards that prevent accidental misconfiguration. Operations can move from rehearsal to performance with minimal steps and minimal risk.

On the audio side, we emphasized professional reliability with clean gain structure, stable routing, and consistent coverage so the system delivers intelligibility and headroom without constant adjustment.

PREDICTABLE CONTROL   **STABLE AUDIO**

BEFORE

Operators struggled with inconsistent settings and signal drops, often requiring technical intervention mid-event to restore functionality.

AFTER

The system now defaults to known-good states. Wireless audio is rock-solid, and staff can confidently run complex shows without fear of failure.

Validation & Commissioning

Because prior attempts had fallen short, we built validation into the project, not as a final step, but as a discipline. We tested performance under realistic conditions, confirmed repeatable control behavior, and verified that the system could be operated consistently by the on-site team.

This commissioning approach reduced surprises and ensured the final experience matched the intended design.

Training & Support

A reliable system only creates value when people can run it confidently. Training was delivered to match real roles and responsibilities, including guidance for faculty, staff, and student operators.

To make adoption stick, we produced employee-specific manuals that reflect the school's workflows and terminology. The goal was not simply to teach buttons, but to build competence and reduce reliance on outside support for everyday operation.

Designed for your team

Empowering staff with tailored resources for confident, independent operation.

Results & Outcomes

Reliability Restored

The upgraded theater AV environment now operates with improved efficiency, greater user confidence, and higher overall system reliability. Day-to-day use is smoother, transitions between activities are more predictable, and the team can focus on the performance rather than troubleshooting.

The most meaningful outcome is trust: the room behaves consistently, operators know what to do, and the theater is positioned to support programs and events with less operational risk

Client Testimonial

"*Thank you so much for your hard work and dedication through this process! We are thrilled for our Production Booth to be up and running again!*"

The Catholic High School of Baltimore

Theater AV Modernization Project

The Catholic High School of Baltimore
756 followers · 17h · ...

Thank you so much for your hard work and dedication through this process! We are thrilled for our Production Booth to be up and running again!

Love · ❤ 1 | Reply

Why This Engagement Matters

The Reality of Upgrades

In many educational environments, technology upgrades fail not because of equipment, but because of execution.

Winning on Value

This project was secured not by being the lowest bidder, but by presenting a clear strategy, measurable improvements, and long-term operational support.

Engineering Leadership

When institutions are ready for a true solution, not another path, they look for partners who lead with engineering discipline and accountability.

That is how this project was captured.

And that is how it was delivered.

Let's Upgrade Your Venue

If your venue has experienced multiple AV "fixes" without lasting stability, the path forward is rarely another piecemeal change. A performance-driven approach (engineering first, control optimized, and adoption supported) creates systems that teams can actually rely on.

Let's discuss your space, your workflows, and what dependable operation should look like for your staff and students.

Vision Technologies
CONTACT INFORMATION

✉ info@visiontechnologies.com

📞 **Sales:** (866) 847-8841
   Support: (410) 709-6930

ENGINEERING   **CONTROL**   **ADOPTION**

Thank You

The Catholic High School of Baltimore Theater AV Upgrade

Strategic Engineering | Intelligent Control | Reliable Performance

Check us out at: visiontechnologies.com