

# GOVERNMENT

Uniquely qualified to provide long term, technologically advanced and secure designs, Polysonics has been fortunate to serve many of our Nation's most historically and culturally significant projects over the past half-century. From the most delicate of preservation projects to the most state-of-the-art facilities for public service, Polysonics is a trusted Government partner.

## LISTEN

- Interior Acoustics
- Vibration Modeling & Analysis
- High Rise Building Noise
- Transportation Noise
- Testing & Measurement
- Mechanical Noise
- SCIF Acoustical Design

## EXPERIENCE

- Video Projection Systems
- Room Combining Systems
- Speech Reinforcement Systems
- Audio Systems
- Paging Systems
- Video Display Systems
- Broadcast Camera Systems

## COMMUNICATE

- Conference Room A/V Systems
- A/V Control Systems
- Tele-Presence & Conferencing
- Video Conference Camera Systems
- Speech Reinforcement
- Video/Media Distribution/Storage
- Simultaneous Interpretation
- Digital/Film Projection
- Sound Masking
- Paging Systems

## PROTECT

- Closed Circuit TV
- Door Access Systems
- Intrusion Detection & Alarm

## NETWORK

- Voice & Data Infrastructure Design
- VoIP/PBX System Design
- WAN/LAN System Design
- WIFI System Design

## MANAGE

- Creative Vision
- Feasibility Studies
- Contract Administration
- Contractor Bid Qualification
- System Commissioning



## THE PENTAGON

Arlington, VA

Polysonics is currently engaged in a long-term renovation of the Pentagon.

As part of this project, Polysonics has authored the project design guide, defining the acoustical criteria for the facility. This criteria addresses the Secure Compartmented Information Facility (SCIF) requirements across multiple standards, based on room use, for privacy (STC), intelligibility (NRC), and background noise (NC).

Polysonics is familiar with SCIF requirements and has the design and construction management skills to ensure strict adherence. Our consultants are working closely with the design team to manage costs, working well within the budget constraints. Polysonics established the criteria and audio systems integration is providing all test and analysis services on completed scopes.

# COURTS

With technology playing an increasing role in the judicial process, Polysonics has had the unique privilege of authoring the United States Courtroom Technology Manual that is currently in use by the United States Federal Court System. This expertise, combined with a thorough understanding of courtroom operations, allows Polysonics to offer the most efficient acoustic and technology solutions for today's courtroom environment.

## LISTEN

- Interior Acoustics
- Vibration Modeling & Analysis
- MDU/High Rise Building Noise
- Transportation Noise
- Testing & Measurement
- Mechanical Noise

## EXPERIENCE

- Video Projection Systems
- Room Combining Systems
- Speech Reinforcement Systems
- Audio Systems
- Paging Systems
- Video Display Systems
- Broadcast Camera Systems

## COMMUNICATE

- Courtroom A/V Systems
- Courtroom A/V Control Systems
- Jury Box Video Systems
- Sound Masking & Hush Systems
- Media Storage
- Media Distribution
- Court Recordation
- Video Production/Post Production
- Building-Wide Video Distribution
- Digital Signage & Kiosks

## PROTECT

- Closed Circuit TV
- Door Access Systems
- Intrusion Detection & Alarm

## NETWORK

- Voice & Data Infrastructure Design
- VoIP/PBX System Design
- WAN/LAN System Design
- WIFI System Design

## MANAGE

- Creative Vision
- Feasibility Studies
- Contract Administration
- Contractor Bid Qualification
- System Commissioning



## FRANKLIN COUNTY COURTHOUSE

Columbus, OH

Polysonics has designed all of the acoustics and technology for the new state-of-the-art Franklin County Courthouse. This Courthouse has 32 courtrooms, each equipped with converged technologies and acoustical solutions designed to meet GSA building standards.

With the integration of these new and multi-media designs, presenting evidence, hearing testimonies, language interpretation, and transferring of information has never been easier.

# CORPORATE

As businesses face a rapidly changing marketplace, Polysonics is able to provide companies with technologies to make communications more effective and acoustic solutions that create environments conducive to collaboration. Polysonics designs systems to provide not only the features needed today, but also with the capability to meet the needs of tomorrow.

## LISTEN

- Interior Acoustics
- Vibration Modeling & Analysis
- High Rise Building Noise
- Transportation Noise
- Testing & Measurement
- Mechanical Noise
- Open Plan Office Acoustics

## EXPERIENCE

- Video Projection Systems
- Room Combining Systems
- Speech Reinforcement Systems
- Audio Systems
- Paging Systems
- Video Display Systems

## COMMUNICATE

- Conference Room A/V Systems
- A/V Control Systems
- Audio Tele-Conferencing (ATC)
- Video Tele-Conferencing (VTC)
- Tele-Presence
- Video Conference Camera Systems
- Sound Masking
- Video/Media Distribution & Storage
- Simultaneous Interpretation
- Digital Projection
- Paging Systems

## PROTECT

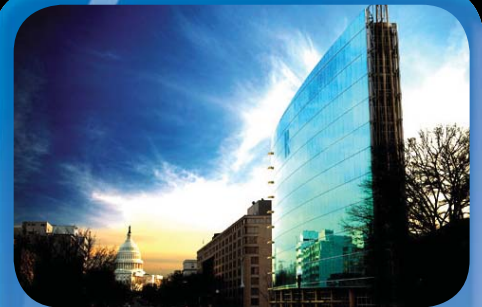
- Closed Circuit TV
- Door Access Systems
- Intrusion Detection & Alarm
- Asset Management & Protection

## NETWORK

- Voice & Data Infrastructure Design
- VoIP/PBX System Design
- WAN/LAN Design
- WIFI System Design

## MANAGE

- Creative Vision
- Feasibility Studies
- Contract Administration
- Contractor Bid Qualification
- System Commissioning



## NATIONAL ASSOCIATION OF REALTORS

Washington, DC

Located on the reclaimed Brownfields site directly facing the Capitol, this first LEED certified office facility in Washington, DC boasts 19 percent recycled content and high efficiency technologies. This building is designed for daylight to reach 98 percent of the interior space and is equipped with daylight sensors that automatically adjust the artificial light levels as natural daylight dims or increases.

Polysonics provided all the acoustical and audiovisual design criteria, including Video and Audio Teleconferencing and Presentation System Design to meet or exceed LEED criteria.



# PERFORMING ARTS

Sculpted sound, dramatic lighting, and seamless productions are all provided in a venue designed with Polysonics. Offering comprehensive services for theater and performance venues worldwide, our creative team of designers and engineers bring years of practical, hands-on experience to your project. We create spaces to inspire artists and astound audiences.

## LISTEN

- Interior Architectural Acoustics
- Mechanical Noise Control
- Mechanical Equipment Isolation
- Ceiling Layout/Design

## EXPERIENCE

- Theatre Design
- Performance Audio Systems
- Video Projection Systems
- Theatre Production Lighting
- Rigging Systems
- Curtain Design/Layout
- Seating Layout
- Sightline Analysis
- Themed Architectural Lighting
- Film/Video Projection
- 5.1 & 7.1 Surround Systems

## COMMUNICATE

- Conference Room A/V Systems
- A/V Control Systems
- Audio Tele-Conferencing (ATC)
- Video Tele-Conferencing (VTC)
- Speech Reinforcement
- Paging Systems

## PROTECT

- Closed Circuit TV
- Door Access Systems
- Intrusion Detection & Alarm

## NETWORK

- Voice & Data Infrastructure Design
- VoIP/PBX Systems Design
- WAN/LAN Systems Design
- WIFI Systems Design

## MANAGE

- Creative Vision
- Feasibility Studies
- Contract Administration
- Contractor Bid Qualification
- System Commissioning



## THE KENNEDY CENTER Washington, DC

Polysonics has been selected as part of the team responsible for the multi-year \$650 Million renovation of the renowned Kennedy Center. Completing the design concept of architect Rafael Vinoly, the project will include interior and exterior renovations and expansion. Drawing on lessons learned during the Concert Hall and Millennium Stage projects, Polysonics is responsible for design and oversight of all acoustical and audiovisual modifications to accommodate the expanded facilities throughout the duration of the project.

# EDUCATIONAL FACILITIES

People learn by experience. Polysonics enriches this learning experience by delivering highly integrated technologies and meticulously designed acoustical environments to meet the dynamic needs of today's teaching institutions. Polysonics carefully designs classrooms to specifically meet the LEED® for Schools and ANSI S12.60 acoustical standards.

## LISTEN

- Classroom Acoustics
- Theatre Acoustic Design
- HVAC & Mechanical Noise Control

## EXPERIENCE

- Theatre Design
- Audio Systems
- Video Projection Systems
- Theatre Production Lighting
- Systems Rigging
- Curtain Design
- Seating Layout
- Sightline Analysis
- Themed Architectural Lighting
- Film/Video Projection
- 5.1 & 7.1 Surround Systems

## COMMUNICATE

- Classroom A/V Systems
- Classroom A/V Control Systems
- Distance Learning
- Public Address
- School-Wide Paging Systems
- Speech Reinforcement Systems
- School-Wide Media Distribution
- Media Storage & Retrieval
- School Wide Video Distribution
- Digital Signage & Kiosks
- School Clock Systems

## PROTECT

- Closed Circuit TV
- Door Access Systems
- Intrusion Detection & Alarm

## NETWORK

- Voice & Data Infrastructure Design
- VoIP/PBX System Design
- WAN/LAN System Design
- WIFI System Design

## MANAGE

- Creative Vision
- Feasibility Studies
- Contract Administration
- Contractor Bid Qualification
- System Commissioning



**WALTER JOHNSON HS**  
North Bethesda, MD

Part of the 21,000SF, award winning renovation and new construction project, the Walter Johnson High School features a completely renovated theater space. Having hosted fall drama and spring musical productions since 1957, this 1,500 seat theater has set the standard for all subsequent theater renovation projects scheduled by Montgomery County.

Working closely with the County and the project design team, Polysonics served as the principal theater consultant for the project, responsible for all production elements and the acoustical envelope of the space. Specific disciplines designed and specified by Polysonics include: Interior acoustics, ceiling layout & design, performance audio system design, video projection and IMAG system design, theater lighting, theater rigging, and curtain specifications. The sound systems were designed to compliment the sculpted acoustics of the space, providing excellent intelligibility, while providing a room that is both musical and capable of multi-purpose use.

# SPORTS VENUES

Polysonics provides designs that maximize the fan experience. Large format displays bring the action closer to the stands, high impact audio brings energy to the entire venue and advanced technologies behind the scenes help capture the action that keeps them coming back for more.

## LISTEN

- Arena & Stadium Acoustics
- HVAC & Mechanical Noise Control
- Building Vibration Modeling & Analysis
- Mechanical Equipment Isolation
- Traffic Noise Measurement & Prediction Modeling (TNM)
- Railway Noise Measurement & Modeling (HUD)
- Noise Barrier Design & Optimization

## EXPERIENCE - STADIUMS

- Performance Audio Systems
- Video Projection Systems
- Video Scoreboards
- Digital Signage
- Paging Systems
- Video Distribution
- BGM/Overflow Audio
- Press Feed Systems
- Audio & Video Booth Control
- RF & Coach I/C Systems
- Production Intercom
- Audio/Video Delay Systems
- Truck Docks/Interconnect
- Broadcast Cabling
- Video Coaching

## EXPERIENCE - MOTORSPORTS

- Performance Audio
- Video Projection Systems
- Video Scoreboards
- Digital Signage
- Video Distribution
- Press Feed Systems
- Audio & Video Booth Control
- Production Intercom
- Broadcast Cabling
- Timing & Scoring
- Broadcast Compound Design

## COMMUNICATE

- Conference Room A/V Systems
- Audio/Video Tele-Conferencing
- Paging Systems

## PROTECT

- Closed Circuit TV
- Door Access Systems
- Intrusion Detection & Alarm

## NETWORK

- Voice & Data Infrastructure Design
- VoIP/PBX Systems Design
- WAN/LAN Systems Design
- WIFI Systems Design

## MANAGE

- Creative Vision
- Feasibility Studies
- Contract Administration
- Contractor Bid Qualification
- System Commissioning



## NATIONALS BALL PARK

Washington, DC

This new baseball stadium opened in the spring of 2008 and is home to the Washington Nationals Major League Baseball team.

Polysonics provided designs and construction administration for several key components of the new facility. Technology design scope included Audio, Video and Control Systems for all the specialty areas (clubs, lounges, center field restaurant and high end suites) as well as a stadium-wide satellite master antenna television distribution system feeding over 450 TVs. Polysonics' acoustic design scope included Critical Noise Mitigation and Interior Architectural Acoustics for the entire stadium.



# THEMED ENTERTAINMENT

At Polysonics, the guest experience is our top priority. Our holistic approach seamlessly incorporates the show's media, software development, control programming, and hardware into one entity that leaves the guests in awe. The expertise of the Polysonics team always provides a solution perfectly matched to the project's unique requirements.

## LISTEN

- Building Vibration Modeling & Analysis
- Mechanical Equipment Isolation
- Industrial Machinery Diagnostics & Design
- Building Shell Analysis
- Noise Level Reduction Analysis
- HUD/IBC Noise Guidelines & Requirements
- Airport Noise Measurement & Modeling (INM)
- Building Roof Design

## EXPERIENCE

- Audio Systems
- Video Display Systems
- 3D Video Systems
- 4D Effects
- Show Control Systems
- Ride Control Systems
- Park-Wide Audio
- Paging Systems
- Video Distribution/Storage
- Digital Signage/Kiosks
- Park-Wide Control Systems

## NETWORK

- Voice & Data Infrastructure Design
- VoIP/PBX Systems Design
- WAN/LAN Systems Design
- WIFI Systems Design

## COMMUNICATE

- Conference Room A/V Systems
- A/V Control Systems
- Audio Tele-Conferencing (ATC)
- Video Tele-Conferencing (VTC)
- Tele-Presence
- Digital Projection
- Paging Systems
- Digital Signage & Kiosks
- Large Format Display Systems
- Video Wall Design
- Graphic/Screen Scrape Displays
- Multimedia Convergence
- Video / Media Distribution & Storage

## PROTECT

- Closed Circuit TV
- Door Access Systems
- Intrusion Detection & Alarm

## MANAGE

- Creative Vision
- Feasibility Studies
- Contract Administration
- Contractor Bid Qualification
- System Commissioning



## STORMSTRUCK

Walt Disney World, FL

"StormStruck: The Tale of Two Homes" is an attraction located at Epcot's Innoventions East at the Walt Disney World Resort. This attraction combines special effects simulating the ultimate virtual storm with learning about the associated risks and ways to protect your home, all in an interactive and entertaining setting. Polysonics provided designs for dual screen high definition 3-D video and animation playback, interactive buttons with guest polling, high impact multi-channel surround sound, show control, as well as main theater acoustics.

# HOSPITALITY & MIXED USE

Polysonics understands that hospitality begins and ends with the guest experience. Whether it is a room that is quiet and restful, electronic amenities to inform and entertain or seamlessly integrated back-of-house systems, Polysonics provides acoustical and technological solutions to help you do what you do best - serve your guests.

## LISTEN

- Interior Architectural Acoustics
- HVAC, Mechanical, and Plumbing Noise Control
- Elevator Noise Control
- Environmental Noise Control
- Building Shell Design
- Guest Room STC Walls & Doors

## EXPERIENCE

- Audio Systems
- Video Projection Systems
- Room Combining Systems
- TV Distribution Systems
- Digital Signage & Kiosks
- Wayfinding
- Guest room TV/Video on Demand
- Fitness Center Entertainment
- BGM & Paging Systems
- Pool & Outdoor Entertainment

## COMMUNICATE

- Conference A/V Systems
- A/V Control Systems
- Audio Tele-Conferencing (ATC)
- Video Tele-Conferencing (VTC)
- Tele-Presence
- Video Conference Camera Systems
- Video/Media Distribution & Stage Systems
- Simultaneous Interpretation Systems
- Digital Projection
- Sound Masking
- Background Music & Paging
- Ballroom Combining Systems

## PROTECT

- Closed Circuit TV
- Door Access Systems
- Intrusion Detection & Alarm
- Prop Sensors
- Panic Alarms

## NETWORK

- Voice & Data Infrastructure Design
- Room Key/Door Entry
- Room Control Systems
- WAN/LAN System Design
- WIFI System Design
- ATM
- Employee Timeclocks
- Convention Data Systems

## MANAGE

- Creative Vision
- Feasibility Studies
- Contract Administration
- Contractor Bid Qualification
- System Commissioning



## ALOFT NATIONAL HARBOR

National Harbor, MD

A new hospitality concept from Starwood, ALOFT is a mixed-use property featuring retail space and two towers of loft-styled condominium & hotel units.

Working directly with the property developer and the Starwood/ALOFT technical personnel, Polysonics was responsible for contributing to and overseeing the design and integration of all IT and Communications technologies property-wide. These designs included access control and guest room technology integration.

Once construction commenced, Polysonics provided in depth installation management. This extra level of management by Polysonics provided a smooth transition from design to installation to operation.



# HOUSES OF WORSHIP

Polysonics specializes in systems and spaces for Contemporary Worship. We recognize that there are many unique challenges facing pastors and congregations as ministries evolve and expand.

Small ministry or mega-church, a new project or a renovation, Polysonics can provide budget conscious design solutions for acoustics, audio, video, lighting and technology. These solutions will create a highly relevant and dynamic environment to proclaim your message and provide a worship experience that is visually stunning and unmatched in sound quality.

## LISTEN

- Interior Architectural Acoustics
- HVAC/Mechanical Noise Control

## EXPERIENCE

- Performance Audio Systems
- Speech Reinforcement Systems
- Video Projection/IMAG Systems
- Broadcast Camera Systems
- Video Production/Post Production
- Production & Broadcast Lighting
- Room Combining Systems
- Building and Campus-Wide Media Distribution
- Digital Signage/Kiosks
- Media Recording and Duplication Systems
- Specialty Lighting
- Specialty Theatrical Rigging
- Specialty Curtain Systems

## COMMUNICATE

- A/V Conference Room Systems
- A/V Control Systems
- Campus Wide Systems

## PROTECT

- Closed Circuit TV
- Door Access Systems
- Intrusion Detection & Alarm

## NETWORK

- Voice & Data Infrastructure Design
- VoIP System
- Phone Systems (PBX)
- WIFI Design

## MANAGE

- Creative Vision
- Feasibility Studies
- Contract Administration
- Contractor Bid Qualification
- System Commissioning



**McLEAN BIBLE CHURCH**  
McLean, VA

The high impact atmosphere of McLean Bible Church required Polysonics to create an array of unique sound solutions. Polysonics, along with Owens Corning, constructed a custom absorption and diffusion panel that could be matched to the sanctuary's color scheme. In addition to acoustic paneling, Polysonics also worked closely with the installation contractor to define speaker angles.

Utilizing 3D computer modeling, Polysonics designed the intricate ceiling and wall systems, along with a sound system design layout to create a true left-center-right sound experience. Polysonics tuned over 80 speakers before commissioning the system.

# MEDICAL & RESEARCH

As instrumentation advances, so does the requirement for a stable, controlled measurement environment. Polysonics uses a multi-disciplined approach to create a research facility that provides trusted results, every time.

## LISTEN

- Classroom Acoustics
- HVAC & Mechanical Noise Control
- Building Vibration Modeling & Analysis
- Mechanical Equipment Isolation
- Footfall Modeling & Analysis
- Specialized Vibration Modeling & Analysis for Hospitals and Medical Research Facilities
- Industrial Machinery Diagnostics & Design
- Building Shell Analysis
- Noise Level Reduction Analysis
- Building Roof Design
- Building Shell Design/Noise Level Reduction Analysis
- STC/NIC/IIC/NC/RT60 Field Measurements
- Indoor/Outdoor Noise Measurements (Noise Level Reduction)
- Ground Vibration Measurements for Research Facilities, Labs, Hospitals
- Industrial Machinery Measurement
- Air Handling Units Noise Control
- Corridor Air Supply Units Noise Control
- Cooling Tower Noise Control
- Emergency Generator Noise Control
- Booster Pumps Noise Control
- Elevator Noise Control

## EXPERIENCE

- Theatre Design
- Audio Systems
- Video Projection Systems
- Film/Video Projection
- 5.1 & 7.1 Surround Systems

## COMMUNICATE

- Classroom A/V Systems
- Classroom A/V Control Systems
- Distance Learning
- Public Address
- Building-Wide Paging Systems
- Speech Reinforcement Systems
- Building-Wide Media Distribution
- Media Storage & Retrieval
- Building-Wide Video Distribution
- Digital Signage & Kiosks
- Conference Room A/V Systems
- A/V Control Systems
- Audio Tele-Conferencing (ATC)
- Video Tele-Conferencing (VTC)
- Tele-Presence
- Video Conference Camera Systems

## PROTECT

- Closed Circuit TV
- Door Access Systems
- Intrusion Detection & Alarm

## NETWORK

- Voice & Data Infrastructure Design
- VoIP/PBX Systems Design
- WAN/LAN Systems Design
- WIFI Systems Design

## MANAGE

- Creative Vision
- Feasibility Studies
- Contract Administration
- Contractor Bid Qualification
- System Commissioning



## NATIONAL INSTITUTE OF HEALTH

Bethesda, MD

Polysonics provided complete acoustical, mechanical and finite element vibration analysis for this project. Scope of work included control systems design services for the state-of-the-art labs located in BL2 and BL3. The designs in this facility have been featured in publications and won several awards for the advanced efficiency measures. The NIH Project totaled 295,000 square feet and a construction cost of \$76.8M.