

HFP

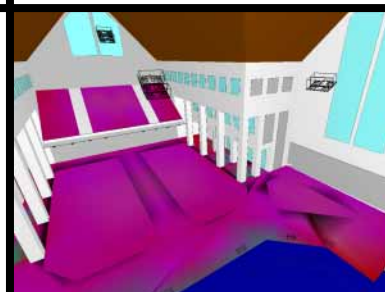
ACOUSTICAL CONSULTANTS



Audi o -

Visual

Design

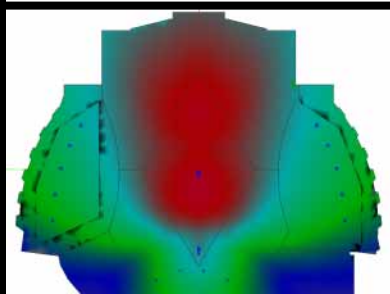


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OVERVIEW



HFP can readily design a complete Audio/Video/Control System that integrates seamlessly with a room's natural acoustics.

Our Audio/Visual/Control Engineering services include:

- Total sound and video system design for live performance, recording, permanent commercial installation, background music, public address, speech reinforcement, and specialty applications
- Control system design for any degree of A/V system complexity and any level of automation
- Computer modeling showing loudspeaker locations, coverage patterns, and acoustical room response data, including auralizations of speech and music with the room's reverberant field

The markets we typically serve are:

*Commercial
Public Spaces
Educational Institutions
Specialty Areas*

“HFP can create a practical solution to even the most complex A/V/Control challenges.”

*- Omar C. Longoria, P.E.
Vice President*

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COMMERCIAL

HFP helps business on several different levels. We can help solve privacy issues in **office plans** through *sound masking systems*. These are distributed sound systems usually located in the ceiling plenum and are designed to gently elevate the noise floor. Sound masking systems are growing in popularity because of their cost effectiveness. To the businessman or woman walking through the office, what is heard sounds like the comfortable ambience of air flowing out of supply registers. In actuality, a design-engineered system is helping to create speech privacy in open plan and traditional office areas while keeping its presence to a minimum.

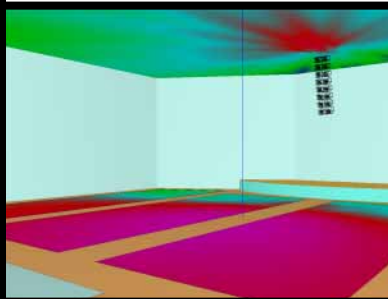
As the functionality of **conference rooms and boardrooms** steadily increases, so too does the importance of versatile, high performance audio-visual systems. Meetings no longer simply involve passing around documents. Digital slide shows and full motion video are projected so that all can see, conference calls can include live video, and audio intercom systems enable larger meetings to progress smoothly.

HFP can incorporate all necessary elements of boardroom and conference room audio-visual systems and design *control systems for smooth and efficient operation*.

Similar to boardrooms, **common areas** in commercial buildings have seen their uses grow. Speeches and announcements are given in cafeterias and voice can be broadcast over background music systems to guide guests and make general announcements. A quality audio-visual system in these situations is one that will show durability and flexibility in addition to having a precise sound and a sharp image. *Large, distributed systems can be an investment, so HFP's audio-visual designs for common areas empower the customer with a high performance system built to last through much use and changing needs.*



PUBLIC SPACES



Audio-visual systems are seen in most every type of public space.

- **Convention centers** need background music and paging systems as well as main A/V systems for ballrooms, exhibit halls, meeting rooms, etc.
- **Places of worship** are continually expanding their uses for powerful A/V systems.
- **Performance halls** utilize accurate sound systems to seamlessly augment the room's natural acoustics.
- **Movie theaters** are practically built around their A/V systems.
- **Courtrooms** are turning to intricately controlled A/V systems as tools for the public and private displaying of evidence, live broadcasting, recording, and post processing.
- **Multi-function facilities** such as auditoriums, stadiums, and arenas incorporate high power, high directivity audio systems designed for speech, music, or both.
- **Themed attractions** such as cruise ships, casinos, nightclubs, and theme parks rely on high performance and sometimes very elaborate A/V systems to ensure maximum entertainment for their guests.

HFP has the tools and the expertise to meet every audio-visual design challenge, no matter the size or complexity.

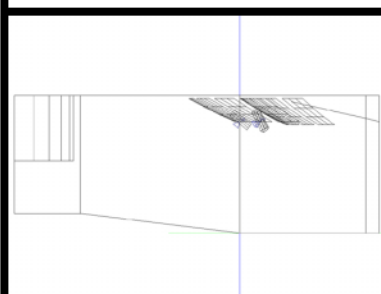
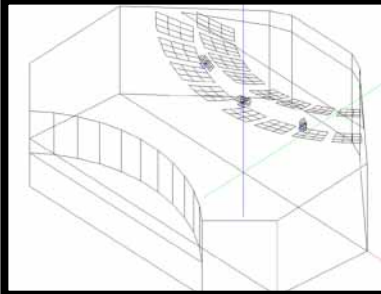
We can create accurate 3-D computer models for loudspeaker placement and room acoustical behavior with the speakers in place. We can develop response maps and auralizations for effective presentation so the client can see and hear the system the way we envision it. HFP can also design complete control systems so the end users will have command over their high performance and versatile audio-visual systems. *We create systems that are "tuned" to our clients' needs and ready for the future.*

EDUCATIONAL INSTITUTIONS

Educational institutions at every level have the need for audio-visual systems for various needs.

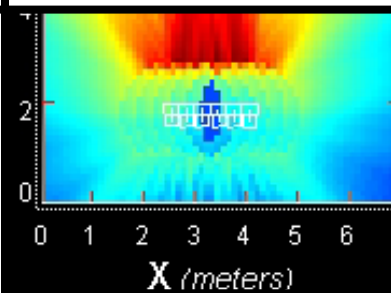
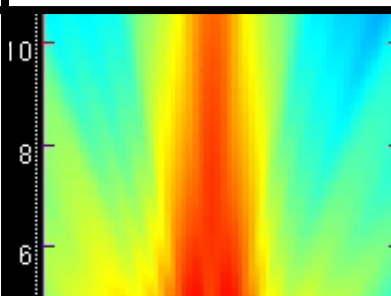
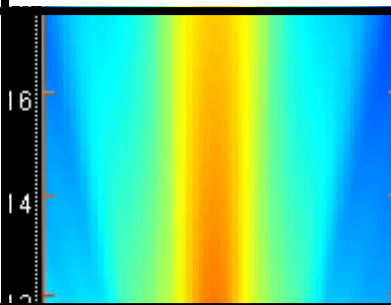
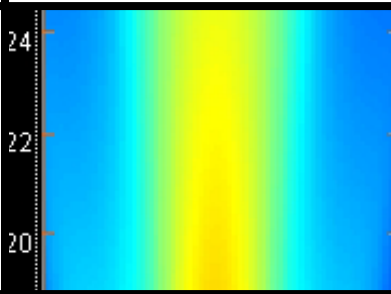
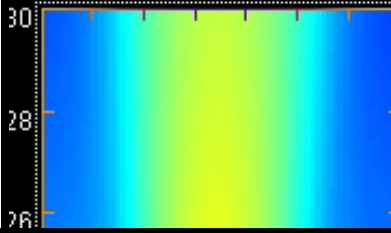
- **School auditoriums and multi-function rooms** need durable and user-friendly sound systems suitable for both speech and music. Careful design is required to ensure that the system interfaces well with the natural acoustics of the room.
- Public address systems in **gymnasiums and school stadiums** should be able to deliver intelligible speech over cheering audiences or reverberant/echoing conditions.
- **College and university lecture halls** benefit from the ability to teleconference and show multiple media formats (full motion video, slides, and transparencies) from both analog and digital sources. This expanded functionality, combined with system-wide “one touch” control, is becoming the standard in today’s institutions of higher learning.

HFP has the resources and expertise to design audio-visual systems that satisfy the needs of learning institutions, from sophisticated and future-ready lecture hall systems to basic gymnasium sound systems. We have levels of design to fit every customer’s needs and budget. *Combining our audio-visual experience with our extensive acoustical background, we offer service fit for the most demanding and rigorous projects.*



SPECIALTY AREAS

Sound Field



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Audio-visual systems must also cater to specialized applications. Recording and production studios are two such examples. The quality requirements for electronic equipment in studios are higher than in any other application. Accuracy, linearity, signal to noise ratio, and dynamic headroom are just a few of the areas in which a studio system must excel. A quality recording can gather recognition for the performer, the engineer, and the studio and provide a viable part of the album's success.

HFP understands the demands placed on ultra high performance systems such as these because we understand the importance placed on their end products. We can work with clients who have specialized needs requiring appropriate engineering design, and we can couple our audio-visual expertise with a comprehensive control system design and architectural acoustic consulting. All of our experience, references, and computer modeling tools are at your disposal.

PROJECT LIST

Omar C. Longoria, P.E., Vice-President

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Houston Convention Center Hotel, Houston, Texas: Acoustics and audio-visual design for \$750 million project encompassing convention center meeting rooms, ballrooms, and 1,200 room hotel. Completed December, 2003.

Woodlands Hotel and Convention Center, The Woodlands, Texas: Acoustics and audio-visual design for convention center meeting rooms, ballrooms, and hotel guest tower. Completed December, 2002.

Galveston Convention Center, Galveston, Texas: Acoustics and audio-visual for convention center meeting rooms, ballrooms, and a 50,000 square foot exhibit hall. Expected completion in spring, 2004.

University of Houston, Houston, Texas: Acoustics and AV design for the Houston Room, a 1,000 seat multi-purpose room at the Student Center of the University of Houston.

Strake Jesuit College Preparatory, Houston, Texas: Acoustical design of musical performance auditorium and music rehearsal spaces. Design of sound system and music reproduction system for auditorium.

St. Martin Episcopal School, Metairie, Louisiana: Acoustical design and sound system design of a 500 seat performance auditorium.

New Jewish School, Houston, Texas: Acoustical design and sound system design of a 500 seat performance auditorium.

Congregation Beth Israel, Houston, Texas: Acoustical redesign of main sanctuary and sound system design for enhanced musical performance.

Black Stone Minerals Company, L.P., Houston, Texas: Room acoustics and AV design of high profile boardroom.

Splitrock, The Woodlands, Texas: AV design of boardroom and conference rooms for a high tech internet service company.

Baker & Botts L.L.P., Houston, Texas: Design of teleconference/speech reinforcement system. System has multiple configurations in two rooms, and accommodates up to 100 participants.

TotalFina, Houston, Texas: AV design of conference rooms and meeting rooms.

Chase Bank of Texas, Houston, Texas: AV design of video wall display in concourse level.

The San Luis Conference Center Hotel and Spa, Houston, Texas: AV design of Ballroom, Meeting rooms and Video Conference systems.

David Weekley Homes, Dallas, Texas: Design of Dallas Home Center AV Systems.

Chase Bank of Texas, Houston, Texas: Design of high profile Presentation Room AV and control system; design of Training Room AV and control system.

Conoco, Houston, Texas: Sound masking design for open office spaces. Speech privacy acoustics.

Rice University, Houston, Texas: Design of speech reinforcement and teleconferencing system for the Founders' Room in Lovett Hall.

Rice University, Houston, Texas: Programming consultation services for the Media Matrix and AMX audio visual systems that serve the International Conference Center at the James Baker Institute for Public Policy.



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