



## Two Decades of Service

Since its inception in 1984, R & D Industries has set the standards for the integration of complex electronic systems. Our team of dedicated professionals has assisted hundreds of clients - including churches, schools, businesses, architects & engineers - with the planning, design, and implementation of thousands of successful projects.

Utilizing technology to its fullest has long been a trademark of R & D Industries. Our very foundation is based on advanced computer-aided design techniques, a thorough understanding of system integration, and the ability to interpret our clients' goals. These capabilities and over 100 collective years of experience are why we are consistently recognized as industry leaders.

At R & D Industries, we value the long-term relationships we maintain with each of our clients, as well as the opportunity to provide solutions which fit their goals and expectations. As progressive thinkers, we constantly strive to provide the highest quality solutions at competitive prices. R & D Industries will continue to lead the field in state-of-the-art designs, from conception through completion, for many years to come.



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Allied Member of the  
American Institute of Architects,  
Iowa Chapter



“Assisting clients

in building

a sound

foundation”



*Acoustic Analysis, Consultation,  
& Sound Reinforcement System Design*

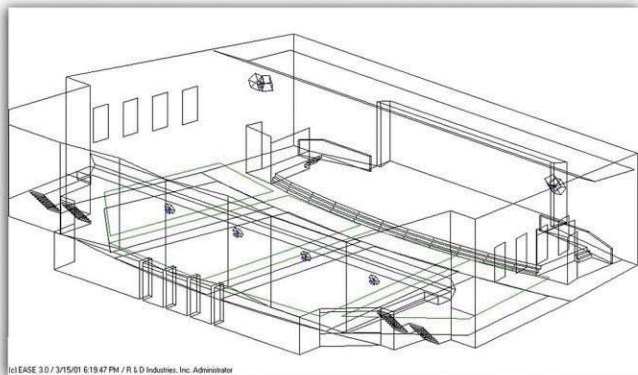
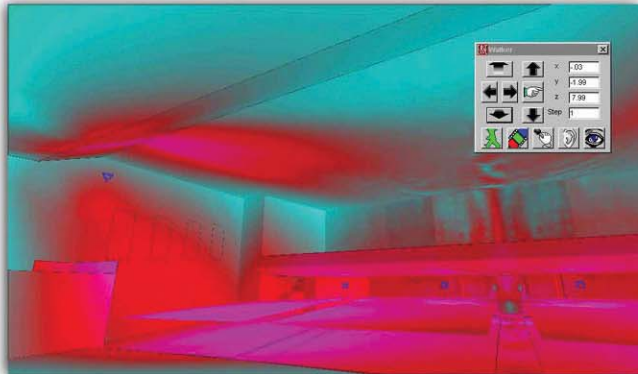
# Architectural Acoustics

## Doing it right the first time.

Sound performance is directly correlated to the interaction of a sound system with a room's acoustic characteristics. Utilizing advanced computer-aided modeling, our staff of certified professionals can identify potential acoustics problems in a building's design phase, well before construction begins.

This information can assist architects, builders, and owners in preventing costly, post-construction fixes by "doing it right the first time."

We can also engineer solutions for existing sound systems and "problem" spaces by utilizing sophisticated audio and acoustic measurement systems.



## The "Building Blocks" of Architectural Acoustics

### Room Assessment

A room's acoustic character should reflect the types of functions and the concept for which the room was designed. With our engineering facilities, our staff can work with the design team to correct an existing room or adapt a design to the proper acoustic characteristics. A systematic evaluation of a room's acoustic make-up includes an assessment of room geometry, acoustic reflections, reverberation, absorption, diffusion, HVAC noise, and much more.

### Determine Materials to Use

Installing the correct finish materials in the proper locations is paramount in establishing favorable room acoustics. Every surface material reacts uniquely when exposed to acoustic energy. Our engineering facilities allow us to evaluate various materials for each surface. We can then recommend materials with the correct acoustic properties for each area of a room.

### Sound Reinforcement System Design & Implementation

Utilizing one of the finest electro-acoustical computer-aided design facilities available anywhere, our staff can precisely predict how a sound system will work in a given room. Our modeling system contains detailed response data for hundreds of professional loudspeakers, regardless of brand. By "virtually" installing a loudspeaker system into an acoustical model, we can identify the approach which best correlates to the room's acoustic characteristics. We can also provide an advanced new method of "auralization", enabling you to actually hear a simulation of a room and speaker system before they are even built.



## Our SLV Contracting Division

The Sound, Lighting & Video contracting division was formed early in the two-decade life of R & D Industries. This division quickly established itself as a premier integrator of professional sound, lighting and video systems throughout the Midwest. The proven solutions provided by this division include the following:

- Integrated Audio/Visual Systems
- Sound Reinforcement Systems
- System Automation
- Stage/Performance Lighting Systems
- Video Conferencing Systems