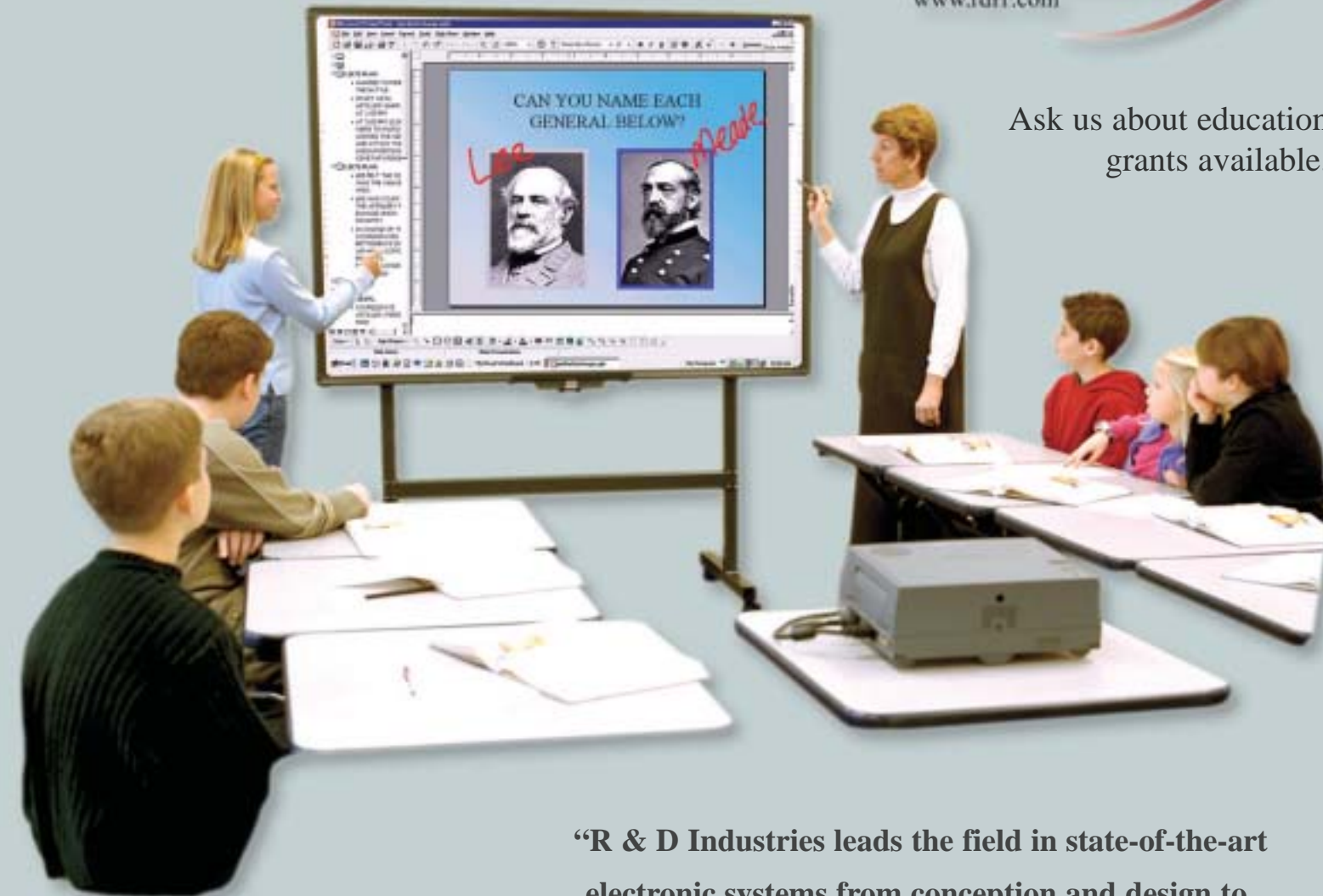


# Audio/Visual Classroom Systems



Ask us about education grants available.



**“R & D Industries leads the field in state-of-the-art electronic systems from conception and design to implementation. Our staff is ready to assist your school as it strives to maintain a positive educational experience for your students and faculty, now and into the future.”**

Imagine a classroom environment that excites students to learn, encourages interaction, and drastically cuts back on teaching and prep time. For many, it may sound too good to be true, yet this environment is steadily emerging as the future of classroom learning. With the help of R & D Industries' staff of certified system engineers, these state-of-the-art interactive classroom systems can quickly become a reality at your school.

Equipped with a digital projector, these systems can interactively project a myriad of information and content to the entire class. For example, the systems can display video, cable TV,

Internet content, documents, a teacher's computer interactions, and even microscopic images. Conveniently, a student's classroom assignment can also be projected to the entire class directly from the student's PC.

The experience becomes truly interactive with the inclusion of an interactive whiteboard, a tool which revolutionizes the chalk- and whiteboards of yesterday. With so many features,

just the time savings of being able to store and recall all notes, assignments, and instructions written on the interactive board makes it an invaluable tool.

Whatever your needs, R & D Industries, Inc. will create an integrated, multimedia learning system that's right for your school. We strive to meet the individual goals and expectations of each one of our clients and value the long-term relationships we maintain with each of them.

812 10th Street  
Milford, Iowa 51351  
**R&D**  
Industries, Inc.  
www.rdi1.com

**Inspire learning...  
Enhance productivity...  
Increase interaction...**

*...with the installation of technologically advanced audio/visual systems in your school's classrooms.*



812 10th Street Milford, Iowa 51351

**1-800-659-3529**

[www.rdi1.com](http://www.rdi1.com)

Inspire students to learn while increasing classroom productivity through the proven use of an innovative, simple-to-use teaching tool called an interactive whiteboard, a teaching solution designed by Numonics Corporation.

The installation of an interactive whiteboard in your classrooms will not only provide faculty and students with a dynamic teaching tool. The interaction it generates will increase classroom participation and spark a renewed interest in learning. With a greater ability to follow along with any subject, students from kindergarten through college age will gain a better understanding for the lesson plan through the use of a Numonics Interactive Presentation Manager (IPM).

Using an IPM is as simple as using a chalkboard, only its benefits are much greater. Used in conjunction with an LCD projector and a computer, an IPM acts as a large interactive projection screen. The teacher or presenter controls the computer environment by touching the interactive whiteboard surface with an electric multimedia pen which acts as a mouse, enabling the presenter to



stay in front of the classroom while navigating through software programs.

The use of the electronic pen to write or draw on the board freely — to take notes, or highlight words and images projected onto the board — will further enhance learning. These scripts are automatically saved and can be printed or e-mailed for future use.

User-definable softkeys located on either side of the board allow for easy interaction and maneuvering through the fast launch of video, audio, graphics, text and animation software.

The board can also be used as a simple projection screen when lesson plans involve the use of other multimedia tools such as VHS and DVD programs.

The use of an interactive whiteboard has proven to help form an invaluable teaching environment built around student-teacher interaction. Numonics' Interactive Presentation Manager was designed for the average computer user who seeks to benefit from the latest in interactive teaching and learning technologies.

## R & D Industries, Estherville-LC develop classrooms of the future

In 2000, the faculty and administration at Estherville Lincoln Central (ELC) Schools in northwest Iowa took the leap into the future of teaching, learning, and the sharing of ideas.

Staff had earlier realized that the school's science facilities were inadequate for the needs of their students, and this was the year they would seek not only to improve the conditions, but also the educational experience as a whole.

Having teamed up with R & D Industries, Inc., of Milford, Ia., today ELC utilizes state-of-the-art audio/visual systems in six classrooms throughout their high school and middle school. The result of using these systems as an interactive teaching tool has earned the praise of school technology director Kevin Richardson.

"The efficiency of delivering your lesson and disseminating the information to the kids is so greatly improved that you couldn't place a value on it," Richardson said. "Before, (the students) basically just had a text book to look at. And now, to be able to see things on video, multimedia microscopes, multimedia projectors, overhead cameras, (interactive) boards...it's more of a visual learning experience."

### Flexibility

R & D Industries creates, designs and integrates systems from the ground up to the specifications and needs of each individual school and classroom. According to Richardson, the system developed for ELC High

School's biology facility included several improvements unique to the students' and teachers' needs.

The system included the installation of a digital projector and three television sets as output devices, allowing students to watch demonstrations as they work at individual lab stations. The system can play DVD's and Laser disks to be viewed via the televisions or digital projector.

R & D Industries added a pair of devices to enhance the learning experience: an overhead camera for use during dissections and other teacher demonstrations, and a videoflex camera for microscope viewing which projects enlarged images onto the screen and the television sets.

### Creates efficient, attentive classrooms

The overhead and videoflex cameras installed in the biology lab have proven invaluable for the Estherville High School.

"Before, when teachers get something up on a microscope to show students, you have 25 kids huddled around the desk, and one at a time they have to look which wastes 15 minutes of class," Richardson said. "Now, teachers have a multimedia microscope so when they have something to show, it shows up on all of the TVs and, if they want to, the multimedia projector, as well."

The installation of interactive whiteboards also saves the teachers and students valuable classroom time. Of the four installed within the school system, the first was placed in a middle

school classroom.

"It was in an exploratory class with computers, and they just went nuts," Richardson said. "They said that it cut their teaching time in half."

"They're just a fantastic visual aid," Richardson added, saying that the board's "marker" feature has proven invaluable. "Imagine writing on a chalkboard and being able to take a picture of it. When you're doing it on an (interactive) board, you can save it as a computer file, and there you have it."

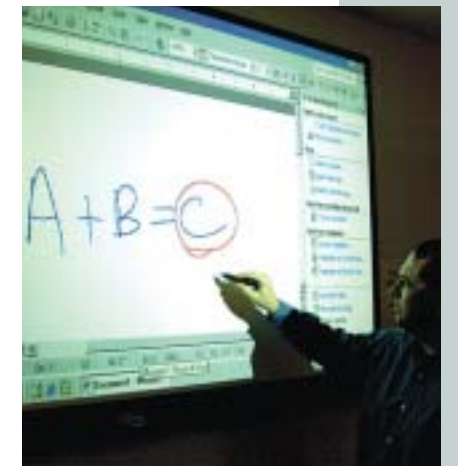
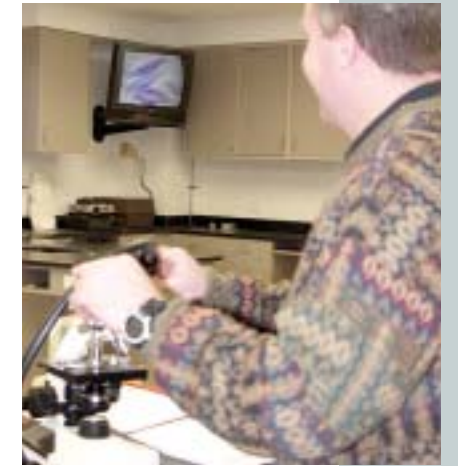
### Providing a solid foundation for future

Richardson said that several teachers within the Estherville Lincoln Central School system are now planning their lessons on Microsoft PowerPoint instead of repeatedly writing notes on the classroom board each period. Additional notes and thoughts from classes can easily be saved and shared with other class periods using the interactive whiteboards, as well.

Classrooms featuring the integrated audio/visual systems have also become multi-use rooms at the schools, allowing students from a variety of classes to utilize the equipment for speeches and presentations.

These new capabilities represent a sense of pride within the school itself.

"We're pretty proud of that innovation," Richardson said. "The teachers and staff have good equipment and some really neat and effective things to teach with."



### Numonics Interactive Whiteboards vs. Top Competitor

Brand/Model	NUMONICS IPM 2000	Top Competitor	NUMONICS IPM 1000	Top Competitor
<b>Dimensions</b>	46.1" x 63.4" Larger surface area: 2,923 sq. in. 77" diagonal 36 pounds	43.3" x 57.6" 2,494 sq. in. surface area 72" diagonal 41.2 pounds	38.4" x 50.2" Larger surface area: 1,928 sq. in. 62" diagonal 25 pounds	34.6" x 46.6" 1,612 sq. in. surface area 58.5" diagonal 41.2 pounds
<b>Performance Features</b>	High 1,000 lpi resolution 17 user-definable softkeys Software compatible Macro commands Quick 4-point calibration	Lower 65 lpi resolution 0 user-definable softkeys Software compatible No Macro commands 9 to 80 point calibration	High 1,000 lpi resolution 17 user-definable softkeys Software compatible Macro commands Quick 4-point calibration	Lower 65 lpi resolution 0 user-definable softkeys Software compatible No Macro commands 9 to 80 point calibration
<b>Software Features</b>	17 available pens/highlighters Spotlight/reveal capabilities Zoom and Pan Whiteboard background options	4 available pens/highlighters None None None	17 available pens/highlighters Spotlight/reveal capabilities Zoom and Pan Whiteboard background options	4 available pens/highlighters None None None
<b>Warranty</b>	Lifetime Warranty	5 years	Lifetime Warranty	5 years

# Audio/Visual Classroom System

Starting At \$4,870.00\*

## Minimum Requirements:

- PC or Mac Computer
- LCD or DLP Projector
- Numonics Interactive Whiteboard
- VCR/DVD Player

ALTEC  
LANSING  
PROFESSIONAL



Speakers

zenitel



Mixer Amplifier

PHILIPS



VCR/DVD Player

The staff at R & D Industries, Inc., designed an audio/visual system which includes all of the components that teachers, faculty and staff have determined are important points of emphasis in developing a positive teaching environment. These components place an emphasis on developing a dynamic teaching environment which will be appealing in sight and sound, creating a renewed spirit to learn. The use of these audio/visual systems has also proven to save both preparation and teaching time at the K-12 and college levels.

Save over \$1,000 by purchasing a package from R & D Industries. Filling out Numonics' **Online Grant Application** can save you even more! We know your budget is tight; that is why we made this package such a great deal, and you will buy from your regional full-service dealer. All of what you see here (excluding the extras below), along with standard wiring and bucket kits, can be purchased from R & D Industries for **\$4,870.00\***. Simply call R & D Industries at **800-659-3529** to speak with a **Certified Systems Engineer** about reaching the future of interactive teaching and learning.



NUMONICS

## Interactive Whiteboard

Numonics interactive whiteboards are the best on the market in terms of their options, durability, and overall quality. Their **lifetime warranty** and **educational grant** options clearly make them the most classroom-friendly boards on the market today.

Call for a free demonstration!

Examples of hard work and success, schools in the Midwest have always been considered some of the top schools in the nation. To achieve this status, schools have made the individual student their top priority, willing to take the time to provide the one-on-one attention required in order to better address the special needs of each pupil. A similar approach is taken by the staff at R & D Industries, Inc. We pride ourselves



in providing customers with high-tech solutions that are catered specifically to each one's individual needs.

In doing so, we maintain close ties with a great number of manufacturers who assist in the development of audio/visual systems which are

unique to the needs of each customer. We look forward to providing the same type of service to you and your school. This is a top-quality system consisting of award-winning products from the industry's leading manufacturers. We are buying these systems in high quantities, which allow us to be better than just competitive; we are selling these systems at far lower prices than even national discount houses are.



MITSUBISHI  
ELECTRIC  
PRESENTATION PRODUCTS

## Digital Projector

LCD projectors are the hub of all audio/visual classroom systems. These projectors can be outfitted with VHS and DVD players, classroom computers, a speaker system, document cameras, and interactive whiteboards to create a truly interactive learning experience.

## System Extras

### System Options:

- DVD Player
- Document Camera
- Overhead Camera
- Multimedia (Video) Microscope
- Sound System
- Multimedia Switching System



Canon

Document Camera

ADDITIONAL PRICE: \$1,140



Canon

Overhead Camera

ADDITIONAL PRICE: \$1,880



MITSUBISHI  
ELECTRIC

High Resolution Digital Projector

UPGRADE PRICE: \$1,795