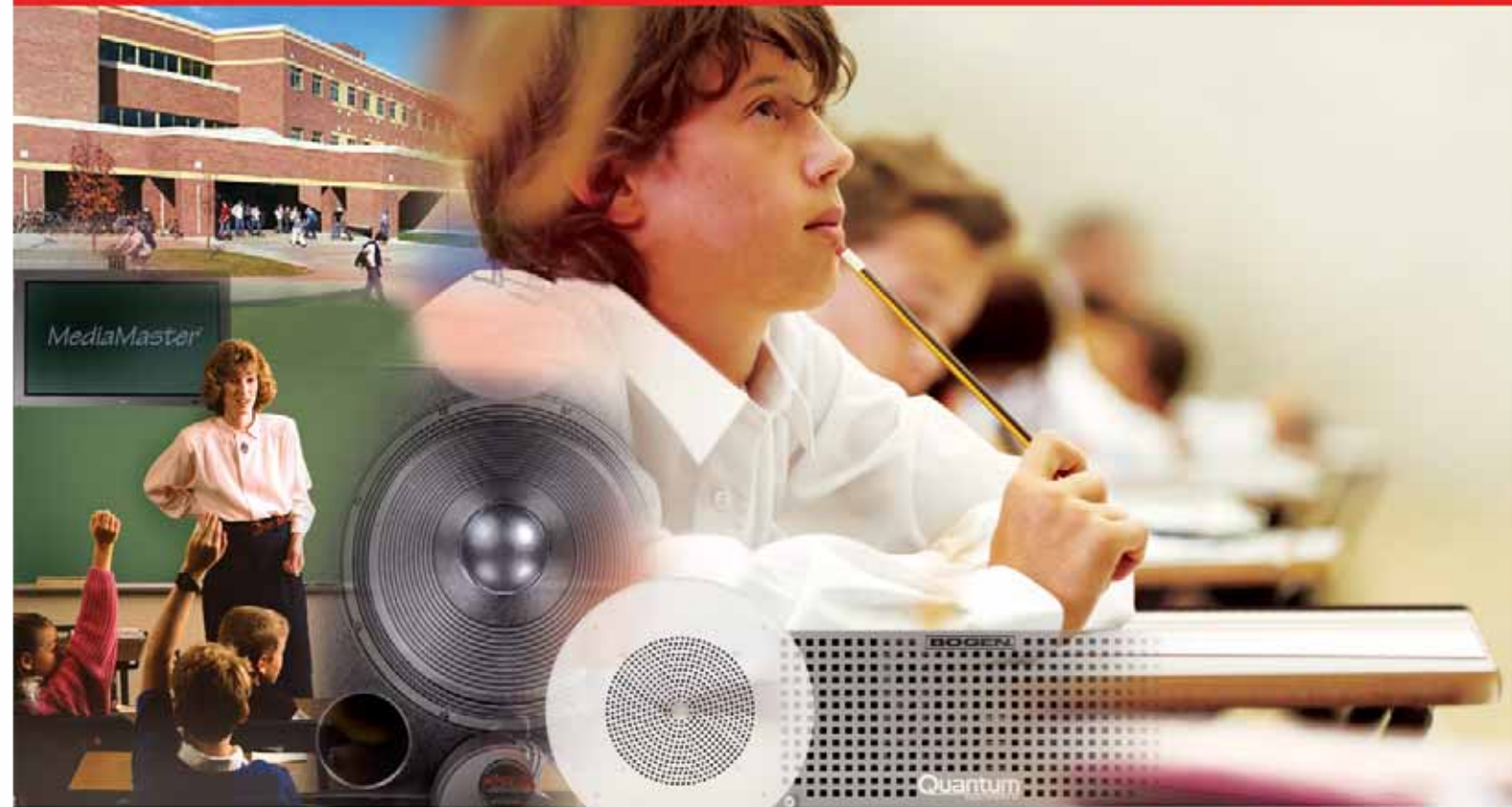


# COMPLETE SOLUTIONS FOR SCHOOLS



PRODUCTS THAT  
MAKE A DIFFERENCE

Live.  
Learn.  
Listen.



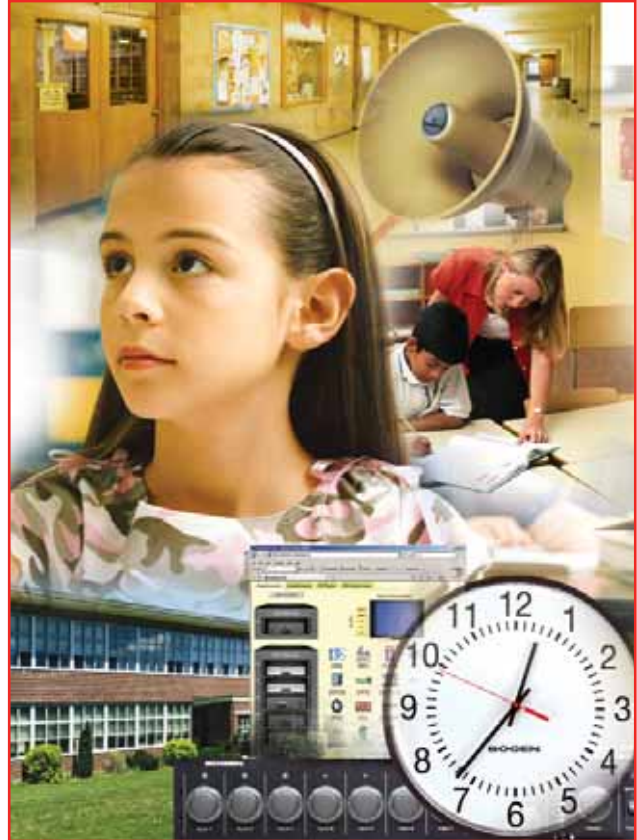
**BOGEN**

# TECHNOLOGY YOUR SCHOOL CAN DEPEND ON

Bogen knows that educational concerns are constantly on the rise. To respond to these concerns, schools need to embrace technology in the learning environment. Technology can provide easy and new teaching methods.

In the classroom, throughout the school and across the campus, students and teachers benefit from the use of technology which enhances the learning experience, improves communication, and helps to keep them informed.

Bogen offers a comprehensive array of products and systems to satisfy the needs of today's educational facilities in the areas of Communications and Technology for Learning.



## PROBLEMS

## OBJECTIVES

## PRODUCT SOLUTIONS


Need to communicate with all or select individuals or areas within facility, campus, or district simultaneously

Effective communications facility-, campus-, or district-wide

Quantum Multicom IP / 


Need to communicate with all or select individuals at facility simultaneously

Quickly and easily establish communication with entire facility, selected areas, or a specific room

Multicom 2000 Administrative Communications System / 

Poor audio quality during performances and sporting events

Professional quality audio for theaters, athletic fields, and stadiums

Apogee Pro Audio Systems / 

Clocks throughout the facility indicate different times

Synchronize analog, digital, and IP clocks

Bogen Time Systems / 

Different locations of facility have different acoustics

Appropriate sound equipment for different needs

Bogen General Line Products / 

A/V equipment and tapes, DVDs, etc. get damaged or lost

Centralize media resources used in classrooms

MediaMaster® / 

Students in rear of room have difficulty hearing teacher's voice

Equally distribute audio to all parts of the classroom

Bogen Orator / 

# SYSTEM SOLUTIONS DESIGNED FOR YOUR SCHOOL



## Quantum Multicom IP IP-Based Educational Communications Solutions

- School Districts
- School Campuses



## Multicom 2000 Administrative Communications Systems

- Classrooms
- Hallways and Corridors
- Administrative/Staff Areas



## Apogee Loudspeakers Pro Audio Sound Systems

- Theaters/Auditoriums
- Sports Fields
- Gymnasiums



## Bogen Time Systems Analog, Digital, Wireless, and IP Time Displays and Master Clocks

- Classrooms
- Public/Common Areas



## MediaMaster Media Delivery & Management

- Classrooms
- Media Centers



## Bogen Orator Voice Reinforcement System

- Classrooms
- Meeting Rooms
- Cafeterias/Auditoriums

## **BOGEN**

### GENERAL PRODUCT LINE



## Bogen Loudspeakers Music and Paging Speakers

- Classrooms
- Cafeterias
- Gymnasiums
- Exterior Areas



## NEAR A-Series Speakers Rugged Indoor/Outdoor Loudspeakers

- Cafeterias
- Exterior Areas
- Pool Areas



## Bogen Microphones Handheld, Desktop, Paging Mics, and Wireless Systems

- Administrative Offices
- Theaters/Auditoriums



## Wall-Mount Power Vector Amplifiers

### Modular Amplifiers

- Gymnasiums
- Theaters/Auditoriums



## Bogen MultiVoIP Network-Enabled Paging Systems

- Classrooms
- Building-to-Building Communications

# RELIABLE TECHNOLOGY, QUALITY PRODUCTS, SOUND EXPERIENCE

## COMMUNICATIONS

Technology makes it easy to communicate with all or select individuals at your facility simultaneously. This capability is advantageous in emergency situations as well as in the everyday administration of your facility.

### Quantum Multicom IP

This comprehensive communications network connects administrative areas and staff locations in a single building, multiple building sites throughout a school campus, or an entire school district.

- Leverage existing network and keep system costs down; new constructions use LAN connections instead of dedicated intercom cables between buildings
- Point-to-point calls between different facilities, All-Call paging into individual facilities, and District-Wide All-Call paging to all facilities
- Emergency All-Call and general zone paging as well as wide range of sophisticated emergency features and functions
- Scalable and cost-effective, purchase or grow the system district-wide as budgets allow and expansion demands
- Programming and changes are securely accessed from any computer



### Multicom 2000 Administrative Communications System

The Bogen Multicom 2000 Administrative Communications System is a micro-processor-controlled and fully field-programmable intercom system that offers remarkable versatility and dependability.

- System features: bell duration, queue timeout, day/night start, architectural number enable, and pre-announce/confirmation tone
- Station features: station number; access level, architectural number; day/night administrator; and outside line access
- Telephone system features: call forwarding, call transfer, and conference calling, bump or join conversations in progress, or place calls on hold
- Optional telephone interface accommodates up to 15 outside lines
- Program distribution system includes control of media, master clocks, and Emergency All-Call
- Seamless telephone system integration



### Time Systems

Bogen Time Systems are the most advanced, high-quality clocks for use in every area of your school.

- Microprocessor-based products
- Quartz clocks
- Sophisticated synchronization with TCP/IP networks
- Analog, digital, IP, master, slave, and wireless clocks
- Wireless clocks function as both transmitter and receiver, and can be used with a GPS Receiver if desired



### Pro Audio

Bogen's Pro Audio line of Apogee Sound speakers and amplifiers have earned an excellent reputation at some of the world's finest performance venues and theaters, as well as music centers and sports arenas. Apogee can provide the same quality and reliability for your school.

- High-quality, accurate, precise sound for any size application including auditoriums, theaters, gymnasiums, stadiums, and outdoor stages
- Speaker types: full-range, subwoofers, front fill, down fill, long throw, under balcony, stage and floor monitors
- Applications: school concerts, dances, theatrical events, multimedia presentations, and sport events
- Speaker lines: Entertainment Series (AE), Self-Powered (APL), Line Array (ALA), and Fixed Installations (AFI)



### Bogen General Product Line

Bogen offers a broad spectrum of sound reinforcement products to meet all your school's indoor and outdoor audio needs. Since 1932, Bogen has been designing sound equipment products that are reliable, high-quality, and easy to use.

- Ceiling speakers, weatherproof speakers, amplifiers, microphones, mixers, and more
- For classrooms, playgrounds, gymnasiums, auditoriums, media centers, and more
- Exceptionally clear voice and music reproduction
- Custom configurations
- Expand or add-on to existing systems at any time
- Designed with Bogen's experience and innovative product technology sure to provide many years of service



# TECHNOLOGY FOR LEARNING & TEACHING

## TECHNOLOGY FOR LEARNING

A classroom can be a gateway to the future. The right teaching tools, in the hands of dedicated teachers, can stimulate a love of learning that will last a lifetime.

### MediaMaster®

MediaMaster® is a full-featured media delivery system for schools. It is very easy to use, with support for everything from DVDs to video-on-demand technologies. With MediaMaster, you are assured a flexible and manageable system that seamlessly integrates with your school's network.



- MediaController is an easy-to-use graphical web interface for controlling media resources, digital video servers and DVD players, plus source types such as VHS & LaserDisc.
- MediaScheduler is the title "search & schedule" component of the MediaMaster system. With it, you can find media titles appropriate to an upcoming lesson, schedule them for a future date and receive immediate confirmation that the title will be available.
- Playlist is the video automation component of MediaMaster. Set a group of titles to play back on a schedule, page a zone to turn a group of TVs on and change them to a specific channel, and more. Its scheduling logic can accommodate most any required playback pattern.
- MediaMaster Administrator (MMA) is the remote configuration and monitoring program for the MediaMaster system. With it, the system administrator can configure and control virtually every aspect of a MediaMaster installation. MMA works over the web, so administration can be done from anywhere.

### Bogen Orator

Students seated in the back of the classroom, where the teacher's voice is lower than in the front of the room, find it more difficult to hear what is being taught, lose interest in learning, and find other ways to occupy their time. The Bogen Orator system transmits the teacher's voice to all areas of the classroom at the same level so all students can hear and participate in the learning process.



- The teacher or presenter wears a lightweight body-pack/pendant to pickup and then transmit his or her voice
- The teacher speaks at a natural voice level while able to move about the classroom while his or her voice is heard by all students at the same level
- Students sitting in the back of the classroom can hear as well as those sitting at the head of the class
- When background noise is present, the teacher's voice is amplified (not spoken) at a higher level so that outside sounds won't interfere with learning
- Studies have shown that voice reinforcement systems in the classroom help raise achievement test scores
- Teachers report that students are more attentive, remain on task, require less discipline, and are more responsive to vocal instructions as given the first time without need for repetition

## Learn More For Yourself

To learn more about these products and systems, or to discover which government educational funds may be available to your school, contact a Bogen Sales Representative or dealer. For your local contact, please call **1-800-999-2809**, or visit [www.bogen-es.com](http://www.bogen-es.com).



# OVERVIEW OF BOGEN'S INTEGRATED SCHOOL AND DISTRICT SOLUTIONS

A school or district equipped with Bogen's Integrated School Solutions runs efficiently, has improved communications, and enhanced learning.



## 1 Quantum MULTICOM IP

Interconnect all facilities within a single school campus or throughout an entire district. Because Quantum is network-based and VoIP-enabled, you can leverage your existing LAN to interconnect classrooms or administrative offices from other facilities, as well as make All-Call announcements into facilities from remote locations such as B.O.E. or administrative offices.

## 2 MULTICOM-2000 IP

A centrally located main rack system is the heart of this administrative communications system which sends messages from administration to stations set up in rooms throughout the school. Stations include telephones, handsets, ceiling speakers, and call switches.

## 3 APOGEE SOUND INTERNATIONAL

Bogen's Pro Audio line of products, Apogee Sound, provide high quality audio reinforcement for either indoor or outdoor use. A wide range of speakers include powerful fixed, portable, floor, subwoofers, and even floor monitors.

## 4 BOGEN TIME SYSTEMS

Whether analog, digital, or IP clocks are desired, Bogen Time Systems synchronize time for all clocks within your school or even in nearby buildings such as transportation depots with the use of global TCP/IP Networks.

## 5 BOGEN

Bogen has the sound and communications equipment your school needs including weatherproof metal horn speakers, wall-mounted speakers, high-fidelity & ceiling speakers, microphones, and a large assortment of product accessories.

## 6 MediaMaster

On-site or remotely located, a school or school district's media center maintains sole control and physical location of media equipment and media resources. Using an internet browser, teachers request media and digital video to play on their classroom monitors.

## 7 ORATOR

Hardly noticeable, educators wear a microphone that transmits his or her voice to ceiling speakers so that it is distributed at full strength to all students in the classroom despite intrusive background noise.

