The Voice of Learning.

TeachLogic™

MAXIMIZING THE VERBAL CONNECTION BETWEEN EDUCATORS AND STUDENTS

Obtain higher student comprehension rates and improved test scores.

TeachLogic™

TeachLogic LLC

www.teachlogic.com

info@teachlogic.com

P: 760-631-7800

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OUR MISSION STATEMENT

TeachLogic® enhances voice clarity for educators and their students in classrooms worldwide through the development of accessible, easy to use, wireless microphone and Sound Field systems specifically engineered for the learning environment.

25+
25+ YEARS

50K
50K+ CLASSROOMS

Who We Are

TeachLogic® is an education technology company specializing in wireless microphones and classroom audio systems. Our advanced infrared technology equips an entire room with Sound Field amplification without any interference with adjacent rooms. TeachLogic systems are designed for a wide variety of applications: classrooms, training rooms, meeting rooms, and more.

What We Do

TeachLogic combines its technical expertise in the science of enhancing voice clarity with the development of practical, affordable Sound Field systems in order to support educators worldwide by improving classroom communication.

Why Choose TeachLogic?

Proven: For over 25 years, TeachLogic has designed and developed specialized audio systems for use by educators. Our products have been installed in over 50,000 classrooms worldwide.

Practical: Our best-in-class audio systems are known for their long-term reliability. All TeachLogic products utilize high-quality components, and are compatible with most existing page, fire, security, and AV equipment.

Primary: TeachLogic Sound Field systems are the very foundation of EdTech, the first step in maximizing the basic verbal connection between educators and pupils, resulting in higher student retention rates and improved test scores.

Productive: We make all TeachLogic products easy to install, with minimal wiring and simple connectors. Quick installation plus a user-friendly interface means that our systems are in use sooner and are used more consistently.

SOUND FIELD 101

Sound Field systems are the first step in maximizing the basic verbal connection between educators and students by enhancing and distributing the educator's natural voice to every student in the classroom.

LISTENING IS THE CORNERSTONE OF THE EDUCATIONAL SYSTEM

To be heard, teachers raise their voice to project words, but this creates problems.

### PROBLEM #1

PROJECTION OFTEN DECREASES INTELLIGIBILITY.

PROBLEM #2

THIS LEADS TO HEALTH ISSUES OVER TIME.

75% Percentage of the school day spent engaged in listening activities.

81% Average listening accuracy of students under normal classroom configuration.

60% Percentage of teachers that experience voice-related health issues during a school year.

CONVERSATIONAL SPEECH VS. NATURAL VOICE

65 dB @ 3ft

59 dB @ 6ft

53 dB @ 12ft

47 dB @ 24ft
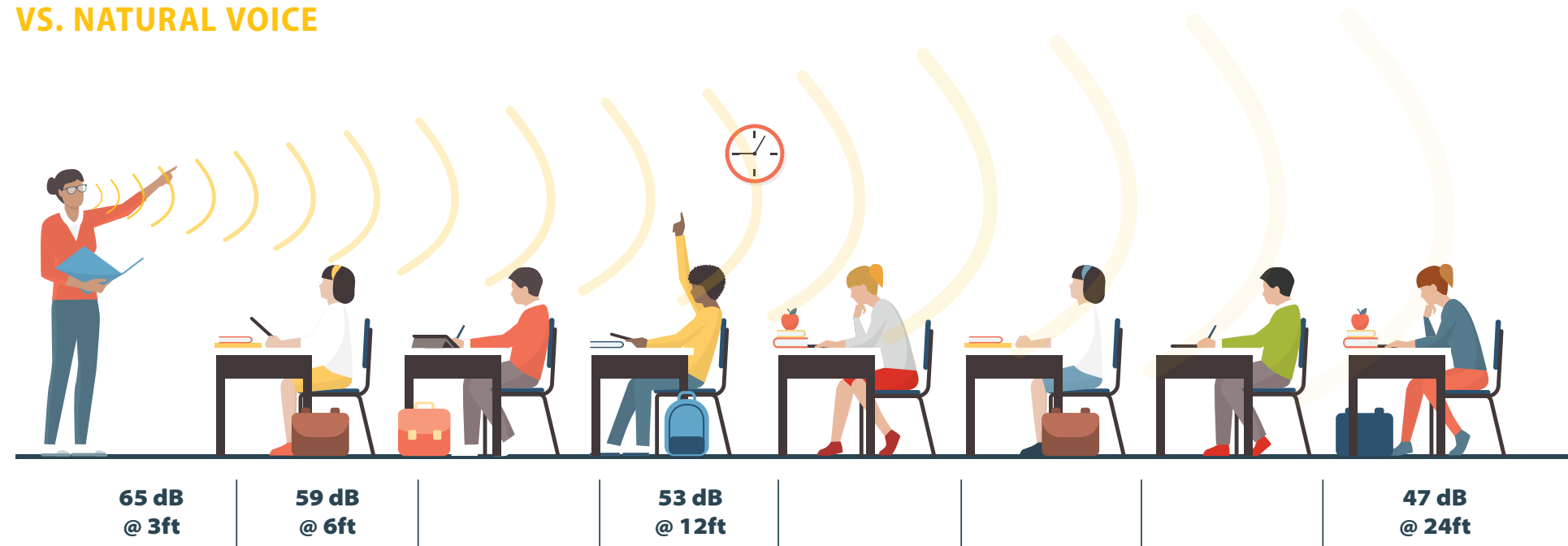
Conversational speech is between 50-60dB. Loud speech is about 65dB. This range is the volume of a person's natural voice.

Natural voice projects the ideal range for sound intelligibility: the ability for the human ear to correctly discern between consonants and vowels.

The further away from the teacher, the more difficult it becomes for students to comprehend what's being said.

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THE SOUND FIELD
SOLUTION

TeachLogic® Sound Field systems are specifically engineered for the learning environment. They create the ideal range for sound intelligibility while eliminating the educator's need to compensate by raising their voice (projecting).

The voice is a teacher's most powerful teaching tool, but it also needs to be protected. Properly using a classroom Sound Field system allows the teacher to speak more comfortably and be heard more precisely, no matter where they are located.

THE IDEAL SYSTEM FOR SOUND INTELLIGIBILITY:

Wireless Microphones

Wireless microphone for clarity

+

Amplifier/Receiver

Amplified receiver for volume

+

Speakers

Speakers to evenly distribute the sound

TEACHERS USE THEIR NATURAL VOICE AND ARE CLEARLY HEARD FROM EVERY SEAT IN THE CLASS

TeachLogic® enhances and distributes a teacher's voice equally throughout the classroom, improving the student learning experience while minimizing voice strain.

65dB

65dB

65dB

SOLUTION #1

Amplify wireless microphones and multimedia audio sources.

SOLUTION #2

Integrate page, fire alarm, and security alert systems.

SOLUTION #3

Support assisted listening systems and lesson capture recording.

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CHART OF OUR
SYSTEMS

Select the amplifer/receiver features you prefer and then simply add matching accessories to complete your system.

WHICH SOUND FIELD SYSTEM IS RIGHT FOR YOU?

Contact us if you need help finding a solution.

AMPLIFIED CLASSROOM AUDIO SYSTEMS

NON-AMPLIFIED MICROPHONE SYSTEMS

	FULL FEATURES: AUDIO + COMMUNICATIONS	FOR LARGE ROOMS UP TO 8 SPEAKERS	STANDARD CLASSROOM SYSTEM	REMOTE CONTROL/PLENUM SOLUTION	ENTRY LEVEL SYSTEM	PORTABLE SOLUTION	ADD 1 MIC TO EXISTING AMP & SPEAKERS	ADD 2 MICS TO EXISTING AMP & SPEAKERS
	MAXIM™ III IMA-520	**SPECTRUM™ III** IMA-820	**FORUM™ 232** IMA-232	**MATRIX™** IMA-120	**VOICELINK™ PLUS** IMA-100	**QUANTUM™ II** IRQ-360	**VOICELINK™ I** IR-100	**VOICELINK™ III** IR-255
# Mics supported	2	2	2	2	1	2	1	2
# Audio inputs	4	4	2	2	1	1	1	2
# Line outputs	2	2	2	1	0	1	1	1
Watts	50	100	50	50	20	30		
# Speakers supported*	4	8	4	4	4	2		
Computer anti-hum	✓	✓	✓					
Page Mute	✓	✓		✓				
Fire alarm input	✓	✓						
Security alert interface	✓	✓	✓	✓				
RS-232 compatible	✓	✓	✓	✓				
Lesson capture output	✓	✓	✓					✓
Asst'd listening output (ALS)	✓	✓	✓	✓				
EQ	5 Band	5 Band	3 Band	Tone		Tone		
Sleep mode	✓	✓	✓					
Digital Feedback Guard	✓	✓	✓	✓				
Remote control panel				✓				
Bluetooth				✓				

TeachLogic™

Maxim™ III

The Maxim™ III is our premiere digital Sound Field System for use in the classroom. It supports not only the features that every classroom needs to control multimedia audio, but also the integrations to ensure that all school communications are heard: pages, fire alarm, and security alert. When paired with wireless microphones, the Maxim III is the teacher's best instructional aid for lesson comprehension and on-task behavior.

Spectrum™ III

4 AUDIO INPUTS   2 MICROPHONES

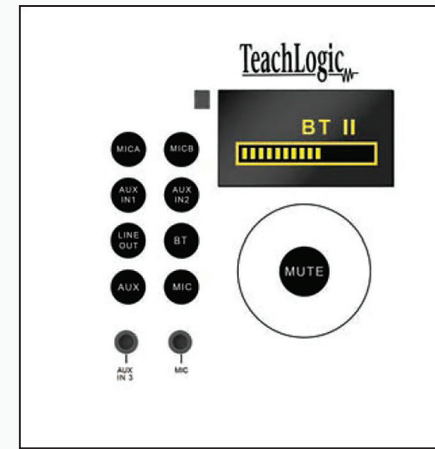RS-232   SECURITY ALERT

PAGE MUTE   FIRE ALARM

Spectrum™ III is our most powerful Sound Field system for use in the classroom. It has the same features as Maxim™ III, but with 100 watts of power for large/noisy rooms.

When paired with wireless microphones, the Spectrum™ III ensures that crystal clear sound is delivered to every seat in the room.

Matrix™

The Matrix™ is ideal for plenum applications due to its low profile. With a simple CAT5 cable, the TeachLogic CPS-120 (or Rauland compatible CPR-125) wall mount controller enables control over classroom audio sources connected to the amplifier. The controller has an intuitive touch interface with the additional benefit of Bluetooth® pairing of an extra audio device (such as a Smartphone).

2 AUDIO INPUTS   2 MICROPHONES

RS-232   SECURITY ALERT

PAGE MUTE   FEEDBACK GUARD

< CPS-120 Wall-Mounted Control Panel

Controls Matrix audio sources and adds Bluetooth® to your system.

Forum 232™

2 AUDIO INPUTS   2 MICROPHONES

RS-232   SECURITY ALERT

ASSISTED LISTENING   FEEDBACK GUARD

The Forum™ 232 is the right fit for virtually any classroom using microphones and multimedia audio sources. The amplifier/receiver supports up to 2 infrared wireless microphones and multiple classroom audio sources all at once. In addition to these must-have features, the Forum™ 232 includes a Digital Feedback Guard (DFG), computer anti-hum circuit, RS-232 input for a wall panel controller, lesson capture recording, and security alert compatibility.

Quantum™ II

PORTABLE

30W AMPLIFIER   2 MICROPHONES

1 AUDIO INPUT   1 AUDIO OUTPUT

TONE CONTROL

The Quantum™ II is a completely self-contained infrared wireless microphone Sound Field system for portable use or permanent installation. Two wireless microphones can be used simultaneously—one for the teacher and one handheld for student participation. Quantum II has a powerful 30-watt amplifier and a full range speaker for audio coverage in a typical classroom.

VoiceLink™ PLUS
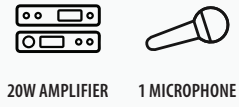
20W AMPLIFIER   **1 MICROPHONE**

1 AUDIO INPUT   **1 AUDIO OUTPUT**
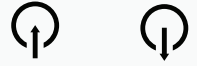
WEIGHT | 6.8 OZ

The VoiceLink™ Plus is an essential complement to the interactive whiteboard system. While the whiteboard is a visual for students, the VoiceLink™ Plus reinforces the instructor's voice and amplifies media sources. The system features a single channel wireless microphone receiver and two 10-watt amplifiers (20 watts total) to power two or four speakers. When paired with our Sapphire™ pendant microphone, the teacher's voice will be clearly heard throughout the room with ease.

NON-AMPLIFIED WIRELESS MICROPHONE SYSTEMS

VoiceLink™ I

A preamp receiver that supports infrared wireless microphones and classroom audio sources.

The VoiceLink™ I system will expand your existing sound system to include voice reinforcement via an infrared wireless microphone. It is solely a preamp receiver and is designed to be plugged into an existing power amplifier or the input of a sound system. With a VoiceLink I infrared wireless microphone system, the teacher's voice will be clearly heard throughout the room. And the auxiliary input on the front panel allows the input of an additional audio device to supplement the instructional program.

WEIGHT | 6.0 OZ   **1 MICROPHONE**   **1 AUDIO INPUT**   **1 AUDIO OUTPUT**

VoiceLink™ III

A preamp receiver that supports infrared wireless microphones and classroom audio sources.

The VoiceLink™ III system is a two-channel infrared wireless microphone system that can be an addition to virtually an existing sound system in virtually any room. It allows for simultaneous use of an instructor and student microphone. An audio input and output make it flexible to add additional media to your classroom audio system, plus it has a dedicated output for lesson capture recording. Infrared technology ensures the highest vocal quality and interference-free transmission.

LESSON CAPTURE   **2 MICROPHONES**   **2 AUDIO INPUTS**   **1 AUDIO OUTPUT**

Speakers

Evenly distribute sound to every seat in the classroom.

CEILING MOUNT SPEAKERS WITH TILE BRIDGE (SP-628)

Full-range speaker with a 6.5" woofer and a high frequency dome tweeter for wide dispersion of critical "consonant" frequencies. Speaker is enclosed in a sealed metal back-can with plenum rating.

LAY-IN PANEL WITH FULL RANGE SPEAKER (SP-628L)

Same SP-628 speaker mounted on a quarter ceiling panel with T-bar attached for labor saving installation. Heavy duty, powder coated for buzz-free performance. Ideal for design continuity.

WALL-MOUNT SPEAKERS WITH BRACKET (SP-2000)

Two-way speaker with a 5" woofer and a high frequency mylar dome tweeter housed in a port-tuned enclosure. Extended bass response for full rich sound. Flexible use as wall-mounted or bookshelf/tabletop speakers.

CONVENIENT ACCESSORIES

Add these convenient accessories to create the perfect storage solution for your Sound Field system.

WC-400 WALL MOUNTING CABINET

Use this low profile wall cabinet to house your amplifier for easy access. The sturdy metal lid is the perfect resting place for the magnetic bottom of the BRC-60 charger.

BRC-60 MICROPHONE CHARGER

Drop-in charger for wireless microphones. Charge up to two Sapphire™ pendant mics and one handheld microphone. Features maintenance charging to keep batteries ready for daily use.

ABOUT OUR WIRELESS
MICROPHONES

TeachLogic® has manufactured innovative infrared Sound Field systems for small and medium-sized listening environments since 1994. We specialize in infrared wireless microphones and audio systems ideal for classrooms.

Sapphire™

The Sapphire™ vocal clarity is unsurpassed. It boasts high level output, reliable connectivity and exceptional definition. It functions as either a neck-worn or handheld mic.

Borrowing from the world of studio recording where crystal clear sound is a must, the Sapphire™ pendant microphone is the clearest and best sounding teacher microphone available. At 1.4 oz, the Sapphire is also the lightest teacher microphone in its class. Worn on a lanyard and powered for up to 8 hours by a rechargeable battery, it's perfect for daily use.

Wearing a wireless microphone allows the teacher's voice to always appear as if he/she is facing the student and the amplified overhead ceiling speakers give the impression that the teacher is only a few feet away.

WEIGHT | 1.4 OZ   SIZE | 3.5" H   SECURITY ALERT

ICS-55
Ceiling Sensor

The ceiling sensor receives the IR transmission from the microphones and passes it to the amplifier/receiver via its provided RCA cable. Six large detecting diodes allow for 360° coverage while minimizing the transmission distance for more reliable performance.

Handheld

Wireless handheld microphone for all TeachLogic infrared audio systems.

The handheld microphone/transmitter is used primarily by students for interactive class participation. This powerful tool can help students gain confidence when presenting or reading aloud while providing improved sound quality and clarity to other students in the classroom.

This unidirectional condenser microphone capsule reproduces excellent vocal quality and the windscreen prevents breath "pops." Additionally, the ergonomic design combines user comfort with very low handling noise and the light-emitting diodes (LED) located at the top and bottom end of the handle provide 360 degrees of transmission and ensure connectivity within all areas of the classroom.

WEIGHT | 10.3 OZ   SIZE | 9 5/8" H

TECHNICAL SUPERIORITY =
ACCESSIBLE PRODUCTS

TeachLogic® helps you succeed with quality, competitively priced products, an extensive knowledge base, and our urgency in responding to your needs.

WHAT'S A CLASSROOM SOUND FIELD SYSTEM?

A classroom Sound Field system is essentially a small public address sound system designed for the confines of a typical classroom of 25 – 30 students.

From a hardware standpoint, the system usually consists of two wireless microphones. One teacher microphone, and a second microphone for student participation. Most Sound Field systems are currently using infrared wireless microphone technology. Since infrared is based on pulsating light, the transmission of the wireless microphones will not penetrate the walls of a classroom into another room. This allows us to set up dozens or even hundreds of classrooms very close to each other with no interference.

DOES MY CLASSROOM SOUND FIELD SYSTEM NEED TO BE INSTALLED?

In most cases, yes. Each system is complete with everything needed to install and operate the system. The type of speaker choice will determine the difficulty of installation. TeachLogic has a nationwide network of top integrators to provide immediate sales, service and installation support. Our service department is available to answer any questions.

WHAT SETS TEACHLOGIC APART FROM ITS COMPETITORS?

Not all classroom audio companies are the same. TeachLogic is committed to: listening to our customers; always responding to their needs to the best of our abilities; designing and manufacturing innovative, high-quality products at fair and reasonable prices; and operating our business with integrity. Additionally, TeachLogic has a nationwide network of top integrators to provide immediate sales, service, and support. With a dedicated commitment to customer satisfaction, TeachLogic is the ideal choice for your audio needs.

WHAT IS THE EXPECTED LIFE SPAN OF A CLASSROOM SOUND FIELD SYSTEM?

With proper maintenance, a classroom Sound Field system should last at least 10 years.

HOW DO I ORDER FROM TEACHLOGIC?

TeachLogic has a nationwide network of top integrators to provide immediate sales, service and support. Visit the website or give us a call to find a local dealer in your area.

760-631-7800

TEACHLOGIC LIMITED WARRANTY

Visit TeachLogic.com/warranty for details.

TeachLogic™

At TeachLogic®, we know that when students hear more, they learn more. We believe that every classroom in the world can benefit from Sound Field technology, so we develop reliable, easy-to-use classroom audio systems.

Since 1994, TeachLogic has provided high-quality Sound Field systems for small and medium-sized presentation environments, originally making our mark by equipping customers with superior UHF wireless classroom sound systems. Today, with extensive experience in superior Sound Field technology, we have specialized in developing infrared wireless microphone systems for classrooms and have solidified our position as a true leader in the Sound Field industry.

TeachLogic has a nationwide network of top integrators who provide immediate customer sales, service, and support. With a dedicated commitment to customer satisfaction, TeachLogic is the ideal choice for your audio needs.

TeachLogic LLC

info@teachlogic.com
P: 760-631-7800

teachlogic.com

"I've enjoyed the classroom sound system. I do feel that the children are more attentive. The second microphone allows the student's response to be heard by all students. The mic also encourages the students to answer questions more completely. It is a great motivator."

Paul Neiss, Principal,
Greentown Elementary, Canton, OH