
SPON
Innovate
For Security.
Better Listening,
Better Learning.
SPON Classroom Sound System
Solution Study

Solution Benefit

SPON integrates balanced classroom reinforcement, quick wireless pairing, and multi-source audio playback—keeping teaching, multimedia, and announcements aligned in one system.

Uniform Sound Coverage

Delivers an even in-room sound field so students hear clearly from different seating positions. Reduces dead zones and the need to raise overall volume.

Teacher-Friendly Wireless

Wireless teaching audio starts quickly and stays stable for daily lessons. Keeps the teacher's voice clear without shouting.

Multi-Source Playback

Supports teaching media playback and classroom audio needs in one solution. Helps keep lesson audio and announcements consistent.

Simple Setup & Control

Remote configuration and network/Wi-Fi connectivity simplify deployment and maintenance. Easy adjustments reduce on-site tuning effort.

Pain Points



Uneven Sound Field

Students in the back or side seats hear weaker, less intelligible speech than those near the teacher. Teachers compensate by turning up volume, which often makes the front row uncomfortable.



Feedback Risk

Open microphones, loudspeakers, and reflective rooms can easily trigger feedback or "howling." When feedback happens, classes get interrupted and teachers lose confidence using the system.



Complex Daily Operation

If the system requires too many steps (pairing, mode switching, adjusting multiple devices), teachers will stop using it. Schools then end up with "installed but unused" equipment.



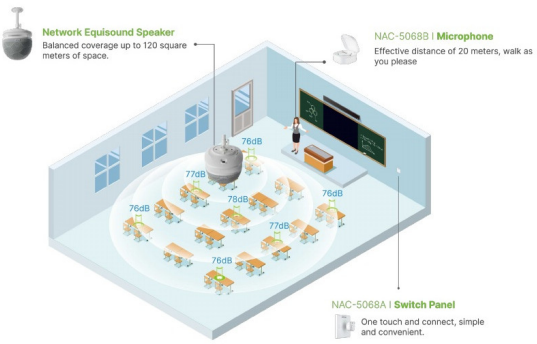
Inconsistent Audio Sources

Teaching voice, media playback, and school announcements come from different systems. This complicates daily operation and increases troubleshooting and maintenance workload.

Solution Overview

Classrooms need a consistent sound field so every student can hear clearly, while avoiding feedback and complicated daily operation.

This solution combines balanced reinforcement, stable wireless teaching audio, and unified handling for voice, media playback, and announcements—making classroom sound easier to deploy and easier to use.



EVEN SOUND FIELD

Balanced reinforcement reduces dead zones and keeps clarity consistent across seating areas.

STABLE WIRELESS TEACHIN...

Reliable wireless pickup helps teachers speak naturally without shouting.

UNIFIED AUDIO CONTROL

Voice, media, and PA announcements stay aligned in one workflow for simpler daily use.



Even Classroom Coverage

- SPL difference within ±3 dB
- Clarity Voice Across Seats

A ceiling-centered design delivers 360° balanced reinforcement across the classroom, keeping volume and tone consistent for students in different seating positions. Corner-to-corner loudness variation stays tightly controlled to improve speech intelligibility and reduce “front loud / back quiet” complaints.



NXT-3602
Intelligent Equalize Sound Speaker

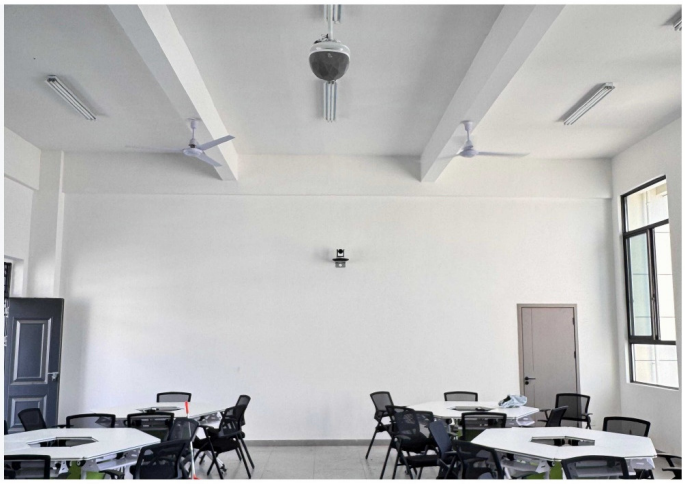
Feedback-Resistant, Clear Speech

- Built-in Howling suppression

Built-in processing supports classroom reinforcement with better stability when the teacher is near the speaker, helping reduce howling risk and improving speech clarity. A dedicated microphone design can further help suppress howling and maintain stable pickup performance.



NXT-3602
Intelligent Equalize Sound Speaker





Expandable For Bigger Rooms

- LINE outputs for expansion
- Speaker Chaining

When a classroom is larger than a single unit can cover comfortably, the built-in audio interface allows the speaker to link with another identical unit for cascaded playback. This enables multiple units to reproduce the same teaching voice and program audio in sync, extending coverage to wider seating areas while keeping operation simple for teachers.



NXT-3602
Intelligent Equalize Sound Speaker

Teacher Mic, Fast Pairing

- 1 Teacher 1 Mic
- 0 Cross-class Interference

Teachers can carry their own microphone and quickly pair it for use in any classroom, reducing shared-device hygiene concerns and eliminating daily handover friction. The whole wireless system uses 2.4GHz wireless technology and supports up to 78 channels to help avoid cross-talk between nearby classrooms, keeping each room stable even when multiple classes run at the same time. For schools, this also simplifies asset management—teachers keep their own mic while classrooms keep fixed reinforcement equipment.



NXT-3602
Intelligent Equalize Sound Speaker



NXT-4052
Digital Audio Processor



NAC-5068A
Wireless Microphone Panel



NAC-5068B
Wireless Tie-Clip Microphone





Multi-Source In One System

- Multi-Source Audio Support
- Less Switching, Fewer mistakes

Teaching voice, multimedia audio, and campus PA announcements can be handled in one system, reducing inconsistent operation and “too many remotes / too many inputs” confusion. The speaker supports audio input, Bluetooth, and network port to receive network PA audio, so daily teaching and notices stay aligned.



NXT-3602
Intelligent Equalize Sound Speaker

Flexible Microphone Styles & Presentation Control

- Multiple Mic Choices
- Page Turning+Laser Pointer Mic

Different teachers have different habits—some prefer a wearable mic, while others prefer a pen-style mic for quick handling. This solution supports multiple wireless microphone forms, and the pen-style microphone can also work as a presentation controller, enabling slide page up/down. With the plug-in control module connected, page turning can be used alongside classroom teaching.

NAC-5068A
Wireless Microphone Panel



NAC-5068B
Wireless Tie-Clip Microphone

NCS-R51
Wireless Pen-Shape Microphone



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