

actual size

PentaClass

hear. understand.



Children

Hear, understand
and learn



Teachers

Improved working
conditions and health



Society

Education is the
key to success



Design

Innovative and
functional



Technology

Secure and
reliable

Power of harmony

360° classroom audio system.

PentaClass

hear. understand.

Children improve their results by about 30%.



ONE CLASSROOM - ONE SPEAKER

Thanks to its special design, just one Certes PentaClass speaker is able to spread sound evenly in the classroom and is suitable for room sizes of up to 120m² (1291 sq ft).



SECURE WIRELESS BLUETOOTH CONNECTIVITY

Available on AB and ABM models

Certes PentaClass AB and ABM can be connected to tablets, laptops, smartphones, and it can transmit high-quality video or audio sound via Bluetooth.

To avoid unexpected connections, the Bluetooth channel is invisible to students and can only be opened by the teacher.

ROBUST DESIGN

The plywood box, aluminium speaker protector and durable plastic parts combine to ensure a long-term lifespan for Certes PentaClass. Thanks to its design, it will fit into any interior.

BUILT-IN MIXER

The built-in mixer allows you to mix analogue input with Bluetooth channels without unplugging the cables or disconnecting the Bluetooth connection.



Children spend 75% of their day listening.

UPGRADABLE

Upgrades are available on A and AB models

Thanks to the modular system, you can upgrade from the Certes PentaClass A to Certes PentaClass AB version (which has Bluetooth) or the full version: Certes PentaClass ABM (which has Bluetooth and a microphone). Simply purchase the upgrade pack.

Common features to all Certes PentaClass models



ALL-IN-ONE DEVICE

Certes PentaClass combines the speaker, amplifier and mixer all in one.



AUDIO PRESETS

This allows you to choose the audio mode by switching between voice, multimedia and music presets.



SIMPLE INSTALLATION

In a matter of minutes you can install Certes PentaClass using the mount on the ceiling or wall.



SYSTEM STATUS INDICATION

Depending on the Certes PentaClass status, it will illuminate a specific light.



HI-FI ACOUSTIC DESIGN

The Certes PentaClass design ensures sound clarity on voice, the full range for multimedia and a rich bass for music.



REMOTE CONTROL

All Certes PentaClass versions come with a remote control for the easy operation of devices.

Improved
teacher speech
recognition
and health.

Certes PentaClass ABM comes with the smallest teacher's microphone on the market

Certes PentaClass ABM comes with the smallest teacher's microphone on the market, which is not bigger than a thumb, with a size of 60x25x13mm (2,36"x0,79"x0,39"), it weighs just 20 grams (0,71 ounces).



MICROPHONE WITH RECHARGEABLE BATTERY

Forget about changing batteries, the built-in Li-Po battery ensures up to 6 hours of operating time. You can recharge it by using a regular micro USB cable.

MICROPHONE 2-IN-1 FEATURE

The microphone has dual functionality – the microphone and a remote control. When it is not used for voice transmitting, it serves as a remote control.



MICROPHONE WITH TWO WEARING OPTIONS

Thanks to its size, the microphone can be worn with a lanyard or clip. Just choose the option that suits you the most.

FREQUENCY HOPPING

This ensures that only the cleanest frequency bands are automatically selected for the connection between the microphone and Certes PentaClass.



UN-COMPRESSED VOICE

The Certes PentaClass microphone uses a state-of-the-art transmitter and receiver that operate in the 2.4 GHz worldwide license-free band. Thanks to digital transmission, you get pristine, high-definition voice reproduction.



360°

360° OMNIDIRECTIONAL SOUNDFIELD

Enjoy the truly rich sounds whenever you are seated in the classroom.

HEARING LOOP DEVICES READY

Thanks to the mixed Aux output, you can connect Certes PentaClass to any hearing loop device.



POWER-SAVING MODE

The automatic power-saving mode switches on if there is no incoming signal for more than 20 minutes.



DYNAMIC RANGE COMPRESSION

Whether you are listening at a low or high volume, the DRC ensures the quality of non-distorted sound.

DRC



Compare Certes PentaClass models



Certes PentaClass A

Certes PentaClass A is a specially designed multimedia system for classrooms with an omnidirectional 360 °soundfield.

This solution involves creating simple audio connections by using audio cables.

Certes PentaClass AB

Certes PentaClass AB is a multimedia classroom system with omnidirectional 360° soundfield. It has been designed for both wired and wireless audio connectivity with a Bluetooth audio-ready device. Certes PentaClass AB is the perfect solution for contemporary teachers using Bluetooth - enabled devices. Certes PentaClass AB is recommended for rooms where voice amplification is unnecessary.

Certes PentaClass ABM

Certes PentaClass ABM is a fully equipped omnidirectional classroom audio system.

The wireless microphone (which is designed for comfortable all day use), the Bluetooth connectivity and all the many other features allow you to experience all the benefits offered by Certes PentaClass.

Certes PentaClass specifications

SPEAKER SPECIFICATION

Frequency Response	80 Hz - 20 kHz
Output	45 W @ 8 Ω
Loudness	86 dB
Signal to noise ratio (typical)	106 dB
Total harmonic distortion + noise (typical)	0.07% @ PO = 1 W
Inputs	1 x AUX, 3.5 mm stereo
Output	1 x AUX, 3.5 mm stereo, mixed
Bluetooth (only in AB and ABM models)	Range up to 15 m (depends on wireless environment)
Microphone receiver (only in ABM model)	2.4 GHz radio frequency with frequency hopping
Power Requirements	110V/240V AC 50-60Hz 1A
Power saving mode	Turning off system after 20 min. inactivity
Amplifier	Class D, 44 100 kHz sample rate, 24 bit resolution, digital audio processor (DAP), dynamic range compression (DRC), soft mute
Mixer	Built in A UX, Bluetooth (AB and ABM models), and AUX, microphone (ABM model)
Control	Infrared remote control with 7 buttons (Speaker power on/off, Mute, Audio presets, Speaker volume up, Speaker volume down, AUX on/off, Bluetooth on/off (enabled for AB and ABM models))
Built in equalizer presets	Speech, multimedia, music
Acoustics	Omni-directional, plywood sound box, fine tuned port. Designed for rooms up to 120 m ² (1291 sq ft).
Dimensions (W x H x D)	24 x 24 x 23 cm (9.45 x 9.45 x 9.06 in)
Weight	3 kg (6.61 lbs)
Mounting	Universal wall/ceiling mount supplied
Included accessories	Power supply, power cord, remote control, wall/ceiling mount, user manual

MICROPHONE SPECIFICATION (only in ABM model)

Signal transmitter	2.4 GHz radio frequency with frequency hopping
Built in microphone	Dual microphone system with feedback cancelation
Level control	AGC (Auto Gain Control)
Total harmonic distortion (typical)	0.004 % @ 1 KHz
Signal to noise ratio (typical)	92 dB
Power	Built in rechargeable Li-Po battery
Battery life with full charge (active mode)	up to 6 hours
Recharging time	up to 4 hours
Dimensions (W x H x D)	2.5 x 6.0 x 1.3 cm (0.79" x 2.36" x 0.40")
Weight	20 g (0.71 ounces)
Charger	Micro USB supplied. Power Requirements 110V/240V AC 50-60Hz 1A
Control in remote control mode	Infrared remote control built in with 3 multifunctional buttons (Speaker power on/off, Mute, Audio presets, Speaker volume up, Speaker volume down, AUX on/off, Bluetooth on/off)
Control in microphone control mode	3 multifunctional buttons (Microphone on/off, Mute, Microphone volume up, Microphone volume down)
Wearing options	Lanyard or clip (both included)
Included accessories	Charger, lanyard, clip

Features and specifications are subject to change without prior notice.

Winner of German "Innovation" Business Award in Latvia 2014

