

Future Learning Spaces

Integrated Classroom Technology
for In-Person, Hybrid and
Online Teaching

Contents

01

About ClassIn ————— 01

02

Current Challenges & Market Needs ————— 03

03

ClassIn System Architecture Overview ————— 05

All-in-One Smart Interactive Display – ClassIn Board S Series 07

Student Positioning Camera – ClassIn Cam S1 11

Teacher Tracking Camera – ClassIn Cam T1 13

Ceiling Array Microphone – ClassIn Mic DT2 17

Stylus for Large Interactive Display – ClassIn Pencil K1 21

04

Solution Benefits ————— 23

05

Educational Deployment Scenarios ————— 25

About ClassIn

Founded in 2014, ClassIn is a global provider of integrated digital learning platforms and smart classroom solutions. Combining cloud communication, scalable storage, collaborative technologies and proprietary hardware, ClassIn delivers integrated, end-to-end learning environments for online, hybrid and in-person education.

150+

Countries & Regions

60,000+

Schools, Universities & Enterprise Partners

16

Languages Supported

30,000+

Smart Classrooms

50M+

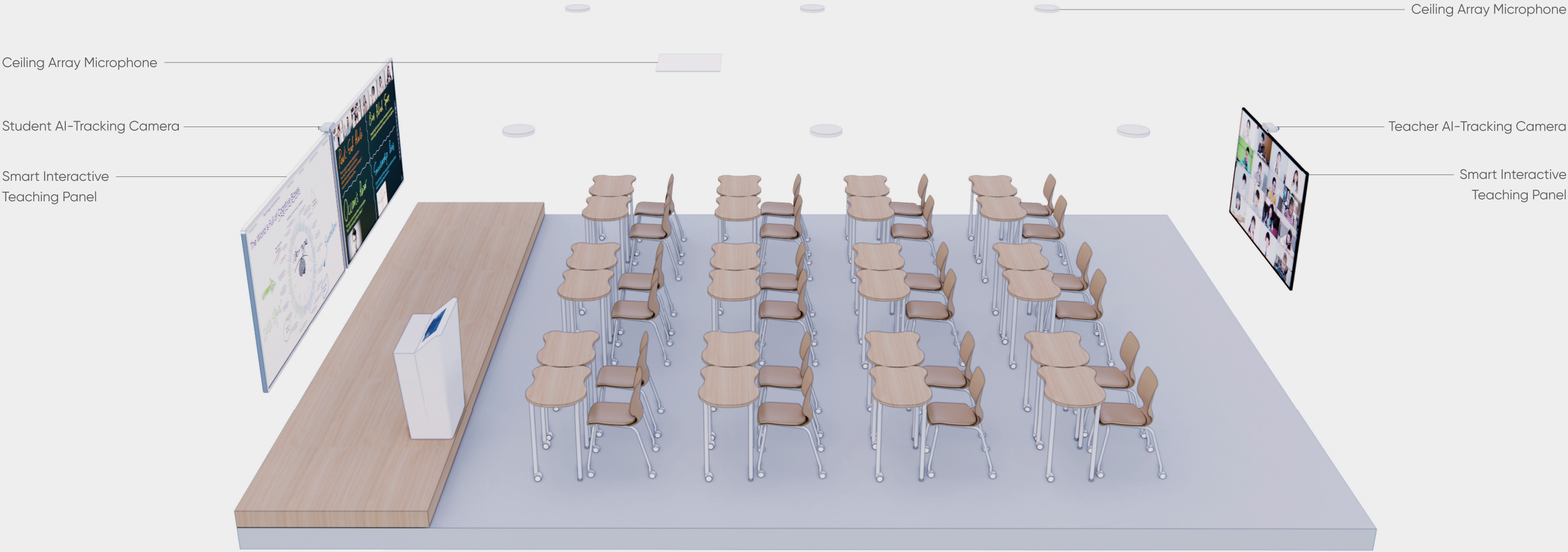
Active Teachers & Students

Trusted Key Partners



ClassIn ClassIn X TeacherIn Flowin NOBOOK Camin

Institutional needs and solution approach



Challenges in Traditional Teaching

- Limitations of Traditional Classroom Delivery:** Disruptions require make-up classes, breaking learning continuity.
- Limited Technology & Rigid Classroom Layouts:** Limited interaction can restrict engagement and critical thinking.
- Limited Support for Interactive and Collaborative Learning:** Conventional classroom environments may not always provide sufficient flexibility for active, collaborative and technology-enabled teaching approaches.

ClassIn's Smart Education Solution

Ensures seamless connectivity and application-driven classroom upgrades to build an intelligent, engaging and human-centric learning ecosystem.

Seamless Connectivity

Hybrid Teaching: Flexible Online/Offline Switching

Swift emergency response for uninterrupted learning. Synchronised online/offline learning - ensuring continuity for every student.

Pedagogy-Driven Technology

Smart Classrooms Built for Pedagogy

Flexible smart classroom environments designed to support diverse teaching approaches. Enables effective interaction and collaborative learning.

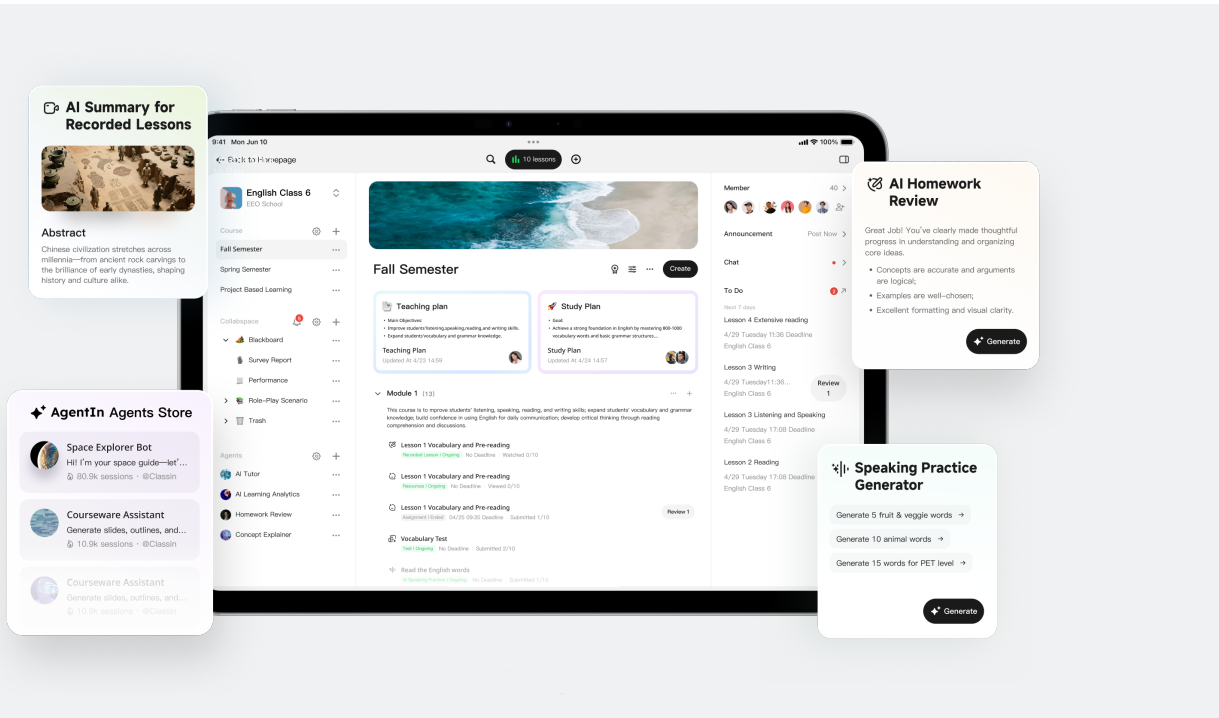
AI-Enabled Teaching & Learning

AI-Integrated Teaching & Learning Models

Learner-centred approaches that enhance teaching efficiency while reducing workload. Data-informed insights that support inclusive learning and provide greater visibility into student progress.

ClassIn System Architecture Overview

Software Application



Hardware Deployment



ClassIn
Integrated Teaching & Learning Platform



Audio & Video Interaction



Blackboard Writing



Cloud Storage



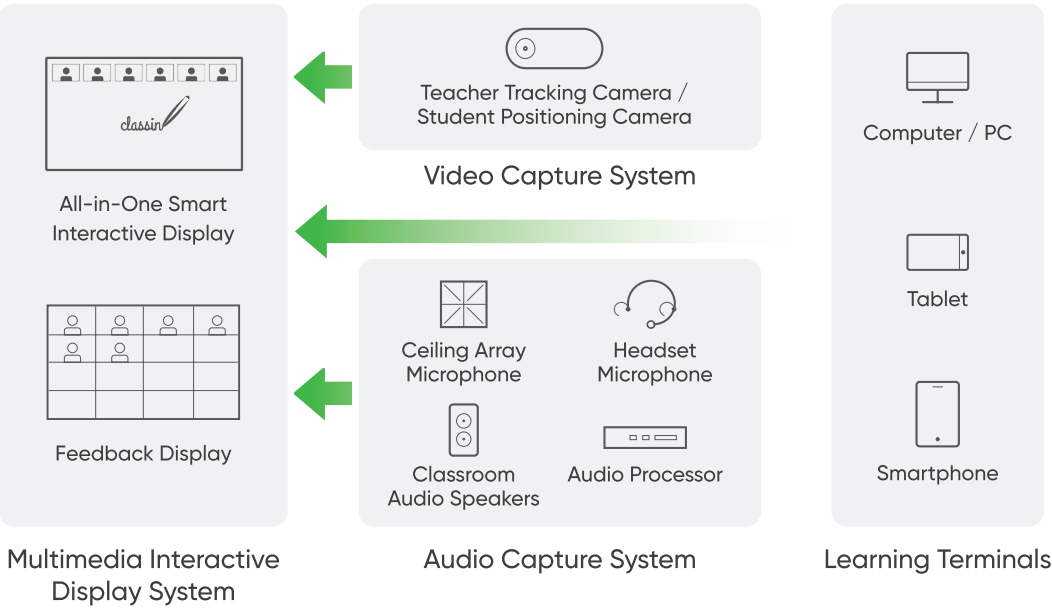
In-Class Teaching Tools



Multi-User Collaboration



Teaching Data Analytics



01 All-in-One Smart Interactive Display

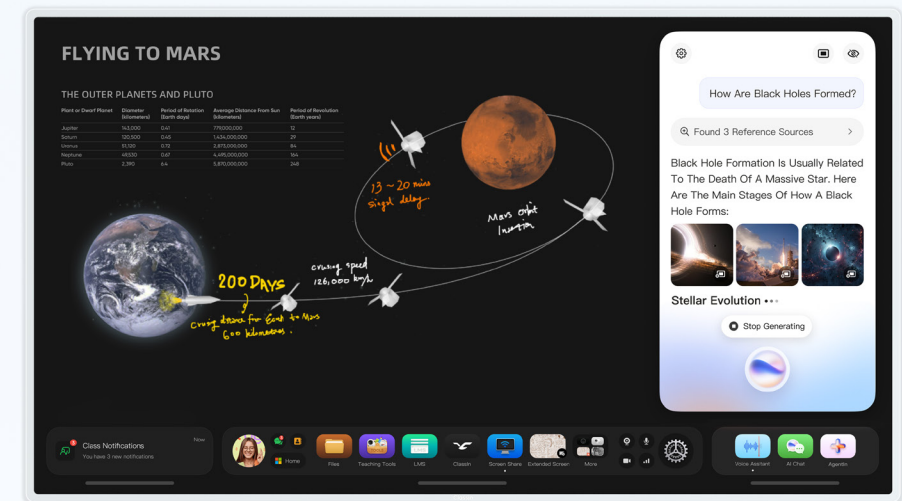
ClassIn Board S Series

Natural Writing & Seamless Connectivity

Designed for smart classrooms and lecture halls, the ClassIn Board S Series combines human-centric design with advanced hardware. Features include a 4K Ultra-HD display with hardware-level blue light protection, ultra-low-latency writing and flexible interactive controls to support engaging and collaborative teaching and learning.



Core Strengths



4K Ultra-HD Large Screen

Delivers crisp, vivid visuals for clear and efficient instruction.

0.03s Ultra-Low-Latency Writing

Powered by proprietary acceleration technology for a natural, fluid pen-on-paper feel.

Nano-Etched Anti-Glare Glass

Chemically etched glass converts direct reflections into diffuse light for a durable, non-fading finish.

Hardware-Level Blue Light Protection

Reduces short-wave blue-light emission by up to 90% compared with conventional display mode.

Smart Gesture Touch Control

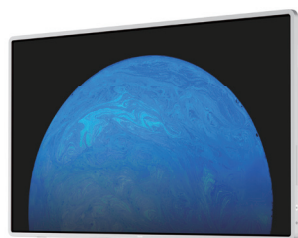
- 1-finger drag
- 2-finger page turn / box select
- Palm / back-of-hand erase
- 4-finger shortcut dial
- 5-finger pinch to launch AI Assistant
- Side swipe-down for "Half-Screen" mode

Full Lamination (OCA)

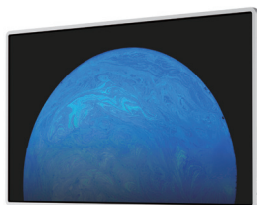
Seamless bonding eliminates internal reflections, offering >90% light transmittance and ultra-wide viewing angles.

ClassIn Board S Series

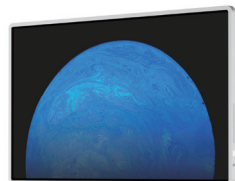
Specifications



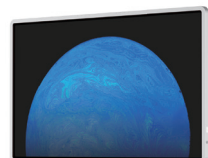
ClassIn Board
S110



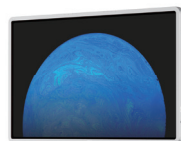
ClassIn Board
S98



ClassIn Board
S86



ClassIn Board
S75



ClassIn Board
S65

System Specs	Panel Size	110 inches	98 inches	86 inches	75 inches	65 inches
	Dimensions	L: 2520.55 mm H: 1457.20 mm D: 110.00 mm	L: 2227.92 mm H: 1287.43 mm D: 100.60 mm	L: 1976.63 mm H: 1153.31 mm D: 95.50 mm	L: 1730.63 mm H: 1015.22 mm D: 95.50 mm	L: 1508.71 mm H: 889.87 mm D: 94.79 mm
Display Specs	Resolution	4K	4K	4K	4K	4K
	Viewing Angle	178°	178°	178°	178°	178°
	Aspect Ratio	16:9	16:9	16:9	16:9	16:9
Touch Specs	Touch Points	50 Points	50 Points	50 Points	50 Points	50 Points
	Touch Technology	Infrared Touch	Infrared Touch	Infrared Touch	Infrared Touch	Infrared Touch
	Response Time	2 ms	2 ms	2 ms	2 ms	2 ms
	Recognition Diameter	1.5 mm	1.5 mm	1.5 mm	1.5 mm	1.5 mm
	Touch Height	1 mm	1 mm	1 mm	1 mm	1 mm
	Half-Screen Slider	Dual-sided	Dual-sided	Dual-sided	Dual-sided	Dual-sided
Audio Specs	Built-in Mic	/	8-Microphone Array	8-Microphone Array	8-Microphone Array	8-Microphone Array
	Speaker Channel	2.0	2.0	2.0	2.0	2.0
	Speaker Output	2 × 15 W	2 × 15 W	2 × 15 W	2 × 15 W	2 × 15 W
Accessories	Mount (Separate)	Wall Mount & Mobile Cart				
	OPS Module	Standard High-Performance OPS PC Module				

02 Student Positioning Camera

ClassIn Cam S1

120° Ultra-Wide Coverage

Capturing the Whole Classroom

The ClassIn Cam S1 captures the classroom with a 120° ultra-wide field of view, helping ensure every student remains visible during instruction. Featuring an 8.42-megapixel sensor, seamless switching between wide-angle and close-up views, and intelligent tracking, it supports automated classroom capture without requiring manual camera operation.



Core Strengths

8.42 MP High-Resolution Sensor

Captures sharp, detailed classroom moments.

Smart Auto-Tracking

Automatically locks onto and follows student interactions.

Switchable panoramic and Close-up views

Toggles dynamically between full-room views and individual close-ups.

IP Network Connectivity

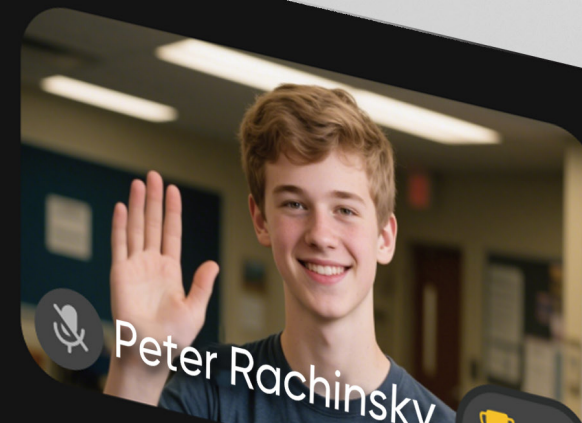
Integrates seamlessly into teaching management systems with stable, high-quality transmission.

120° Ultra-Wide Field of View

Provides wide-area classroom coverage and helps minimise camera blind spots.

Flexible Power Options

Supports PoE, DC 12V, and USB power for easy, versatile installation.



TRAVEL IN
OCKET

03 Teacher Tracking Camera

ClassIn Cam T1



Intelligent Teacher Tracking & High-Resolution Capture Capturing Every Teaching Detail

Traditional classroom recording setups often fail to capture complete teacher movements or blackboard writing, and often require complex cabling. Mounted on the rear wall of the classroom, the ClassIn Cam T1 uses an 8.42-megapixel sensor to capture clear imagery, zoom in on blackboard writing, and intelligently lock onto teacher movements.

Core Strengths



8.42 MP Resolution

Captures instructional details and blackboard content with exceptional clarity.

Intelligent Auto-Tracking

Auto-locks onto and follows teacher movement around the classroom.

Switchable panoramic and Close-Up Views

Seamlessly toggles between broad classroom views and focused teacher shots.

Digital Zoom

Magnifies teacher gestures and written notes without hardware movement.

IP Network Camera

Supports network control and seamless system integration for remote observation and recording.

Flexible Power Options

Supports PoE, DC 12V, and USB power for easy, versatile installation.

Specifications

ClassIn Cam

S1

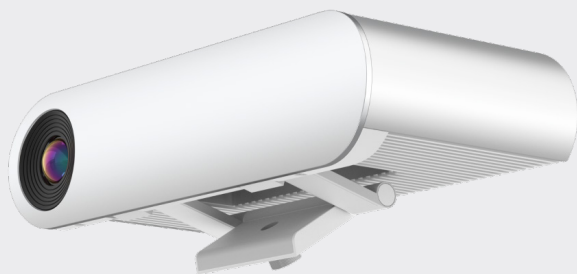


Image Capture & Processing

Image Sensor	1/2.8" 4K CMOS
Pixels	8.42 Megapixels
Lens	2.4 mm / 7.9 mm
FOV	H: 120°, V: 87°
Image ISP	AE (Auto Exposure), AWB (Auto White Balance)
Digital Noise Reduction	2D/3D
Max Resolution	4K @ 30 fps
SNR (Signal-to-Noise Ratio)	≥50 dB
Video Adjustment	Brightness, Hue, Saturation, Contrast, Sharpness

Network & Transmission

Network Interface	RJ45 10/100M (PoE Supported)
Network Protocols	HTTP, TCP, UDP / RTSP, RTMP, ONVIF
Control Protocol	IP VISCA Control Protocol
Video Compression	H.265/H.264
Audio Compression	AAC
Stream Output	Up to 4 Streams

General Specs

Power Supply	3 Options: PoE / DC 12V Power Adapter / USB Power
Power Consumption	<10 W
Operating Temperature	0°C ~ +40°C
Storage Temperature	-20°C ~ +60°C
Product Dimensions	190 × 76 × 58 mm
Weight	<0.5 kg

Smart Features

Smart Feature	Student Positioning Tracking
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USB Transfer

USB Interface	1 × USB 2.0 (Supports USB Power)
USB Protocol	UVC 1.1 / UAC
Video Compression	H.264, H.265, MJPG

ClassIn Cam

T1



Image Capture & Processing

Image Sensor	1/2.8" 4K CMOS
Pixels	8.42 Megapixels
Lens	2.4 mm / 7.9 mm
FOV	H: 42°, V: 25°
Image ISP	AE (Auto Exposure), AWB (Auto White Balance)
Digital Noise Reduction	2D/3D
Max Resolution	4K @ 30 fps
SNR (Signal-to-Noise Ratio)	≥50 dB
Video Adjustment	Brightness, Hue, Saturation, Contrast, Sharpness

Network & Transmission

Network Interface	RJ45 10/100M (PoE Supported)
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Smart Features

Smart Feature	Teacher Tracking, Blackboard/ Board Writing Detection
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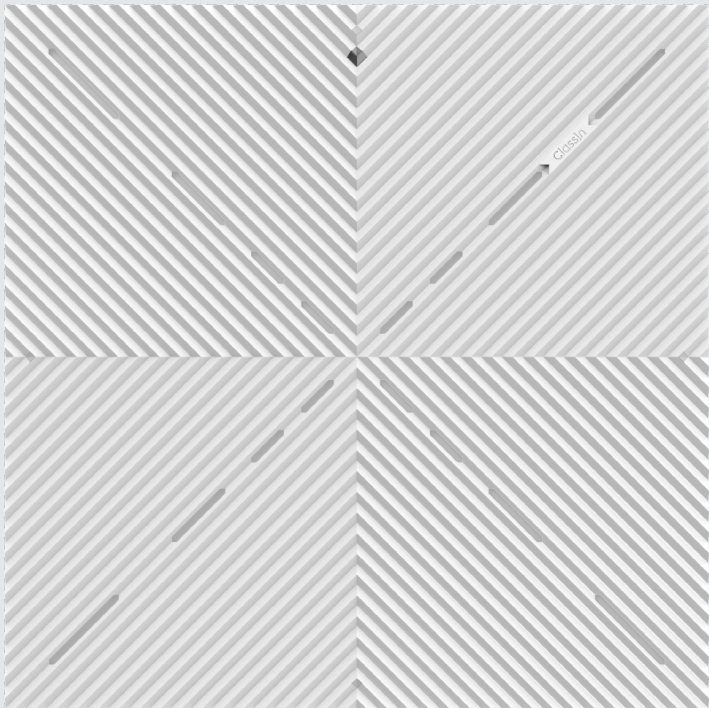
USB Transfer

USB Interface	1 × USB 2.0 (Supports USB Power)
USB Protocol	UVC 1.1 / UAC
Video Compression	H.264, H.265, MJPG

04

Ceiling Array Microphone

ClassIn Mic DT2 Pro



Clear Audio for Every Voice

As education undergoes digital transformation and blended online-offline teaching becomes more widespread, reliable classroom audio pickup and amplification have become increasingly important. Traditional equipment may suffer from feedback, limited pickup range, hands-on operation or insufficient battery life, while teacher movement can cause uneven sound levels across the room.

ClassIn Mic DT2 Pro delivers precise voice pickup and intelligent noise reduction, and can be integrated with ceiling speakers to provide balanced room-wide sound reinforcement. Teachers can move freely without carrying additional equipment, ensuring clear, consistent audio throughout the classroom.

Specifications



Basic Parameters

Product Description	3-in-1 Ceiling Microphone Array + Audio Processor + Power Amplifier
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Microphone specifications

Microphone Type	Electret Condenser Microphone
Microphone Quantity	32
Frequency Response	80 Hz-19 kHz
Signal-to-Noise Ratio (SNR)	76 dB

Interfaces & Accessories

Communication Interface	USB2.0
Input Interface	4-Channel Analog Input
Output Interface	4-Channel Analog Output
Power Amplifier	4-Channel, 50 W per Channel
Control Interface	RS-232
Pickup Distance	5 m

Audio System Parameters

Pickup Radius	8 m
Microphone Cascading	Supported
Minimum System Latency	8 ms
Operating Modes	Simultaneous Voice Pickup + Sound Reinforcement
Pickup Mode	Automatic Voice Tracking + Configurable Pickup Zones
Reverb Suppression	Supported
AEC - Automatic Echo Cancellation	Supported
AFC - Automatic Feedback Control	Supported
AGC - Automatic Gain Control	Supported
AI Noise Suppression (ANS)	Supported

Physical Specifications

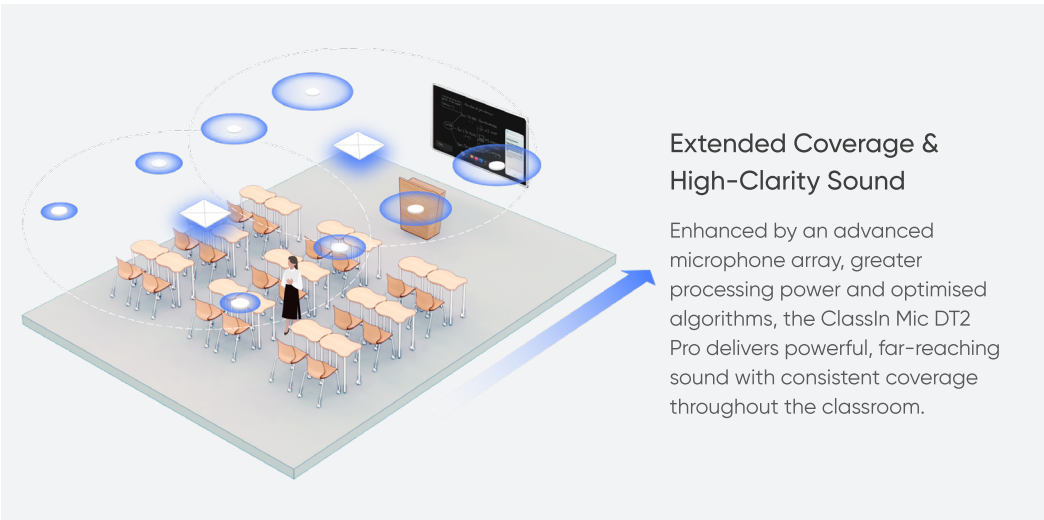
Product Dimensions	595 × 595 × 49 mm
Net Weight	4.3 kg
Power Supply	24 V Power Adapter



Core Strengths

Full-Room Balanced Amplification

Powered by the ClassIn Mic DT2 Pro, the system divides the classroom into 3-5 m zones for uniform sound distribution. Dynamic beam tracking pinpoints active speakers, delivering consistent, crystal-clear audio to students in every row.



Extended Coverage & High-Clarity Sound

Enhanced by an advanced microphone array, greater processing power and optimised algorithms, the ClassIn Mic DT2 Pro delivers powerful, far-reaching sound with consistent coverage throughout the classroom.

32-Microphone Array

High-fidelity 32-microphone array designed for hybrid teaching and lesson-recording scenarios in classrooms of up to 80 m².

Multi-Device Cascading

Supports cascading multiple devices to extend amplification coverage. It can also work with the built-in microphones of the ClassIn Board S Pro, maintaining clear voice pickup and balanced amplification even when the teacher is facing the board.

High-Fidelity Audio

Effectively reduces background noise and filters more than 3,000 types of noise, preserving clear, high-fidelity speech.

Dynamic Beamforming

Supports omnidirectional sound-source detection. The built-in high-speed DSP identifies and locates the active speaker while applying real-time noise reduction to the captured audio.

05 Stylus for Large Interactive Display

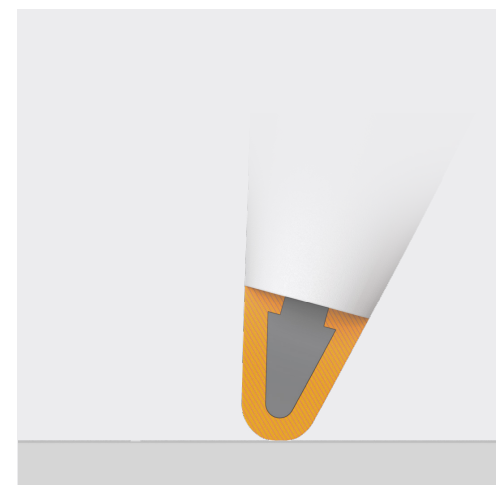
ClassIn Pencil K1

Smooth, Agile Writing for Digital Classrooms

Tailored for the ClassIn Board, the Pencil K1 combines precise writing, effortless controls, and magnetic storage for a seamless smart teaching experience.



Core Strengths



Precise Writing

Wear-resistant soft tip dampens vibration for a natural pen-on-paper feel.



Page Navigation

One-touch buttons to flip pages quickly and maintain lesson flow.

Barrel Erasing

Instantly erase notes with the pen barrel—without switching tools.

Magnetic Attachment

Snap directly onto the ClassIn Board frame to prevent loss.

Magnetic Charging

Magnetic pogo-pin charging enables quick, hassle-free charging.

Specifications

Basic Specs

Product Name	ClassIn Pencil K1 ClassIn Pencil K1 Pro
Material	ABS+PC
Colour	Wood Grain
Buttons*	Top Button (Page Up), Bottom Button (Page Down)
Compatible	Windows 7 or later

Charging & Indicators

LED Light*	Solid white on button press; flashing red on low battery; solid red while charging; solid white when fully charged
Charging Method*	Magnetic charging
Sleep Mode*	Automatically enters sleep mode; wakes instantly when a button is pressed.

*Exclusive functions included in K1 Pro

Solution Benefits

The Future Learning Spaces solution brings together classroom infrastructure and digital teaching tools in one environment, supporting consistent in-person, online and hybrid learning experiences.

Panoramic Display & Global Connectivity

The 110-inch display provides a shared digital canvas for teaching and learning, connecting physical and online learning environments and enabling real-time access to digital resources.

Multi-Angle Capture & Immersive Audio

Omnidirectional tracking captures classroom interactions from multiple angles, while AI-enabled 360° voice pickup and amplification support clear, natural communication in hybrid learning environments.

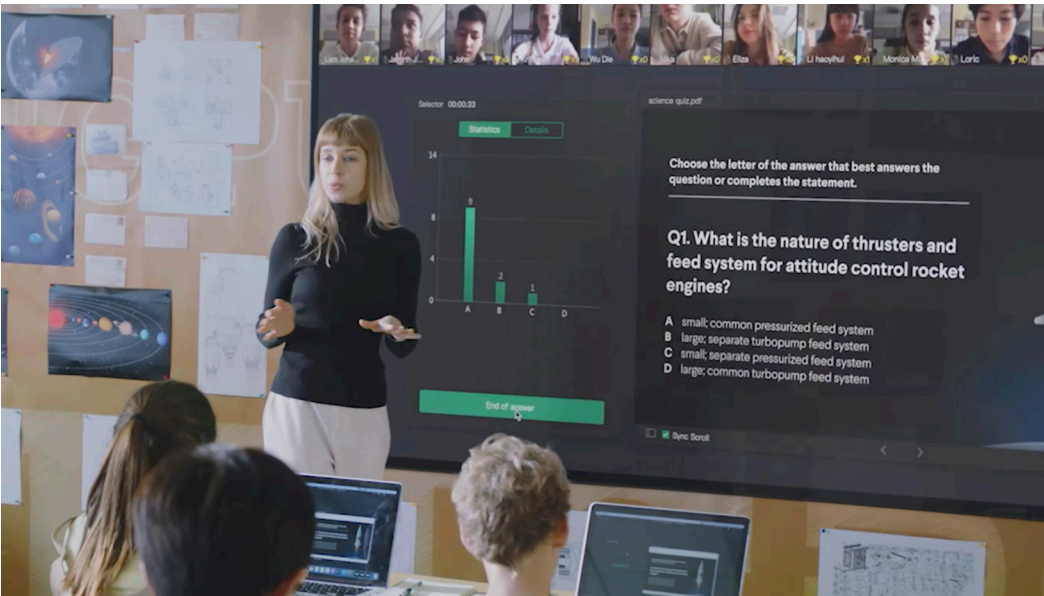
Unified Ecosystem & Low-Maintenance Operation

The integrated hardware-software environment is designed for centralised deployment and simplified classroom operation, helping reduce day-to-day support complexity.



Educational Deployment Scenarios

Digital Classroom | Blended Classroom | Extended Classroom | Master Teacher Classroom
Smart Classroom | Remote Teaching | Connected Classroom | Dual-Teacher Classroom
Campus Activities | Lesson Recording | Character & Values Education



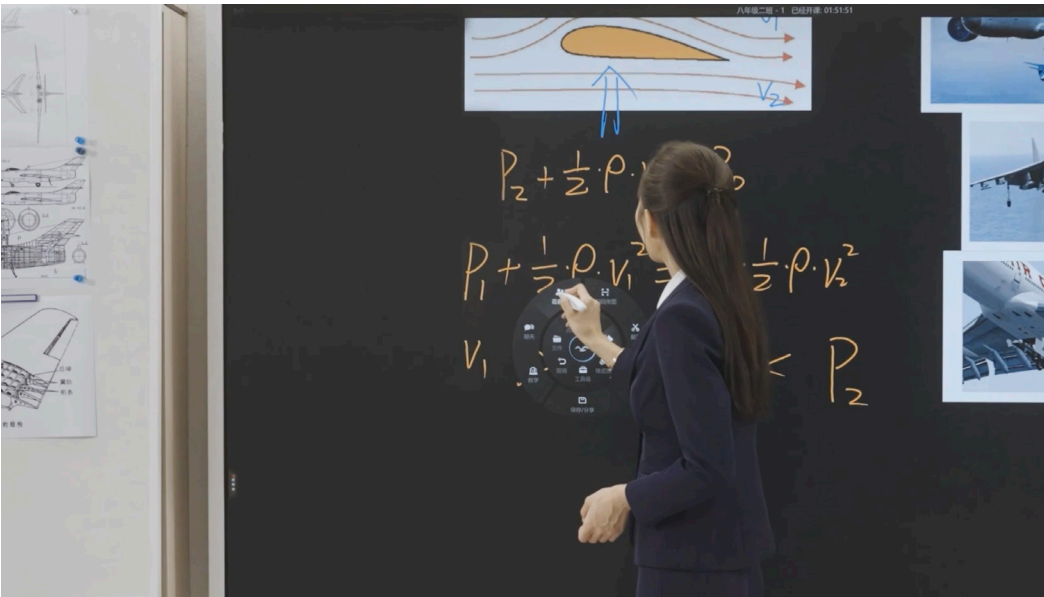
Hybrid / HyFlex Classroom

Flexible scheduling and use of space
Real-time audio and video interaction
Synchronised multi-location learning



Simulation and Virtual Experiments

Physics, Chemistry, Biology and Primary Science
Contextual learning, phenomenon demonstrations and explanation of principles



Digital Classroom Upgrades

Interactive tools and teaching assistants
Intuitive gesture controls and digital resource integration
Blackboard writing, annotation and QR-code sharing



Flexible Teaching Models

Supports instructor-led, discussion-based, collaborative, project-based and team-based learning approaches.

Future learning spaces should adapt to pedagogy—not the other way around.
By connecting classroom infrastructure, digital teaching tools and learning data within a unified environment, ClassIn enables institutions to design flexible learning spaces for evolving teaching and learning needs.





Branch Office Locations

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048580

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Seoul

Room 806, 233-1 Mokdongdong-ro,
Yangcheon-gu, Seoul, Republic of Korea

Tokyo

8F, Coretas Takadanobaba, 2-8-2
Takadanobaba, Shinjuku-ku, Tokyo,
Japan

Manila

3F, Colours Town Center, Marcos
Alvarez Avenue, Las Piñas City 1747,
Philippines

Beijing

Suitong Building, No. 2 Haidian Avenue,
Haidian District, Beijing, China

Shenzhen

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Building, Yuehai Street, Nanshan
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