

SMART CLASSROOM EMPOWERS EDUCATION DIGILIZATION

Dahua Smart Classroom Solution



SOLUTION SCENARIOS



Classroom



Training Room

BACKGROUND

Demand of Remote Education

In-person classes are restricted in schools sometimes, while the need for remote online classes surged.

Limited Teaching Methods

The teaching method of blackboard writing is not efficient, and manual sharing of course materials is complicated.



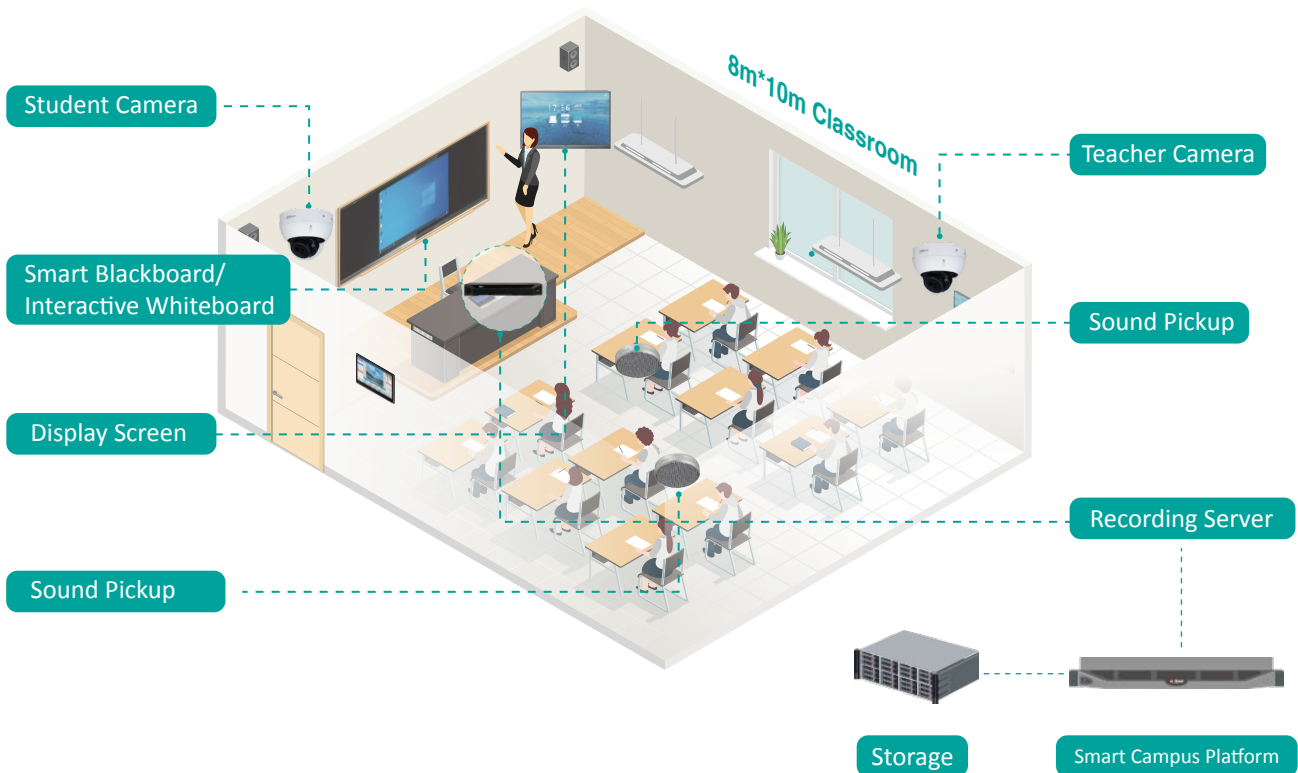
Imbalance of Educational Resources

People in rural areas cannot afford the high costs of education compared with those in urban areas.

Lack of Learning Resources

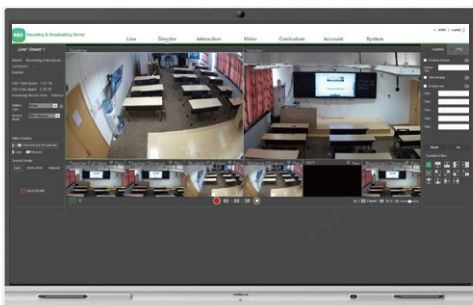
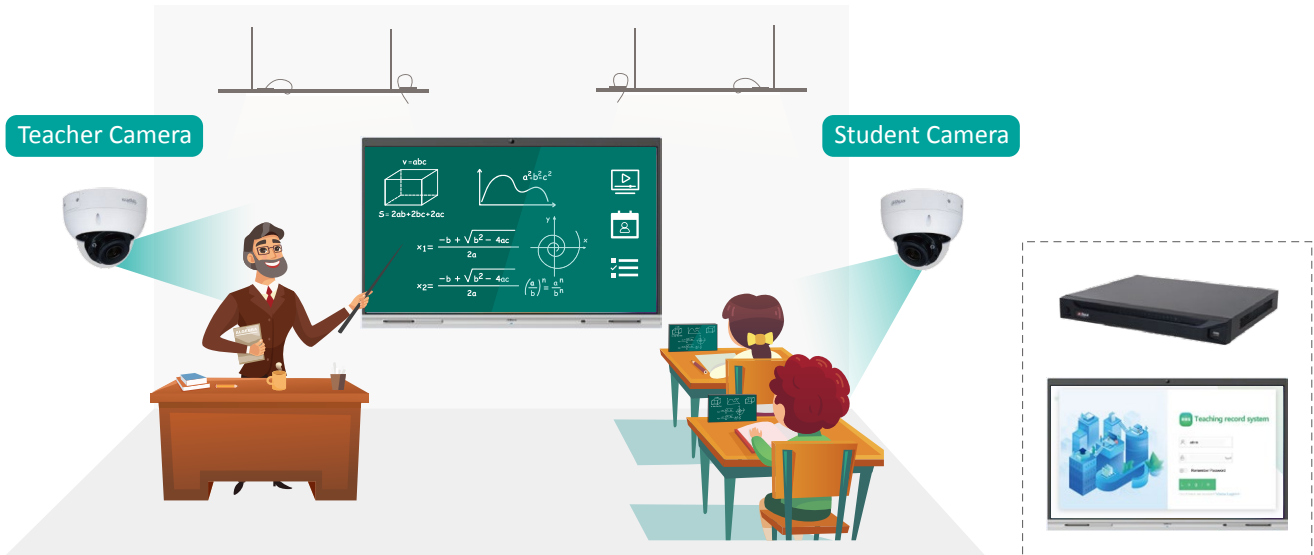
Students must attend classes at specific time and place. There are not enough online resources to review after class.

SOLUTION OVERVIEW



LIVE BROADCAST TEACHING

- Teaching Video Recording System



We use deep learning algorithm and intelligent application to realize real-time accurate tracking of six scenes.

- Teacher standing still:**
The scene shows close-up view when the teacher is not moving.
- Teacher writing:**
Camera focuses on the blackboard to see more details.
- Teacher stepped off the podium:**
The scene changes to the close-up view of the teacher.
- Teacher walking back and forth on the podium:**
Track and provide close-up view of the teacher.
- 1 student stands up and answers questions:**
The camera focuses on the close-up view of the student.
- 2+ students stand up and answer questions:**
The scene changes to panoramic view.

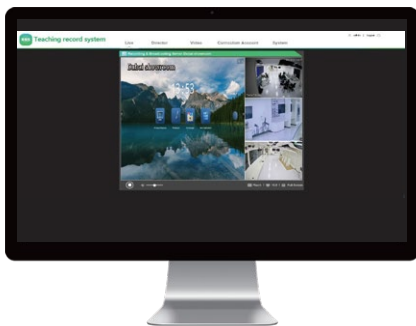


- Students tend to lose concentration when watching online courses.
- Studies have shown that fixed images are more likely to cause distraction and fatigue, with online classes lasting more than half an hour dropping students' efficiency by **70%**.



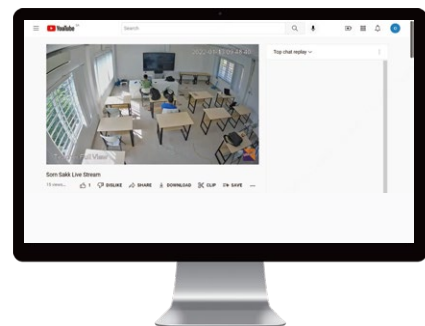
- Statistically, after the deployment of the Smart Classroom, the attendance rate of students in online courses has increased by **35%**, the scores of the in-class quiz have increased by **60%**, and the excellence rate in the final exam has increased by **40%** (according to data gathered from a successful case in a senior high school).

• LAN & Internet



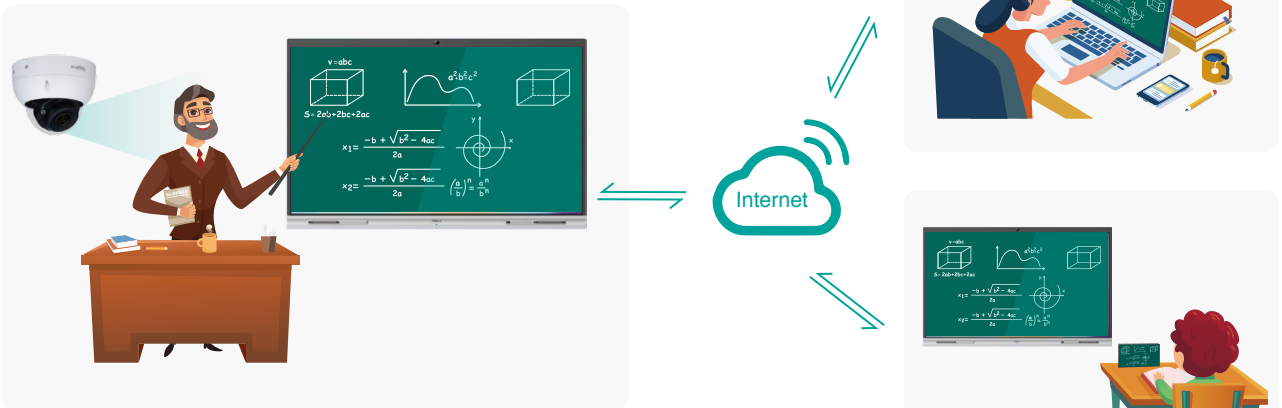
With Local Area Network (LAN), users can watch the current classroom's live broadcast online through the Live portal of the teaching video recording system homepage.

Through RTMP streaming, the output image of the recording server can be broadcast on a third-party platform (YouTube), so that teachers and students can watch it on the Internet.



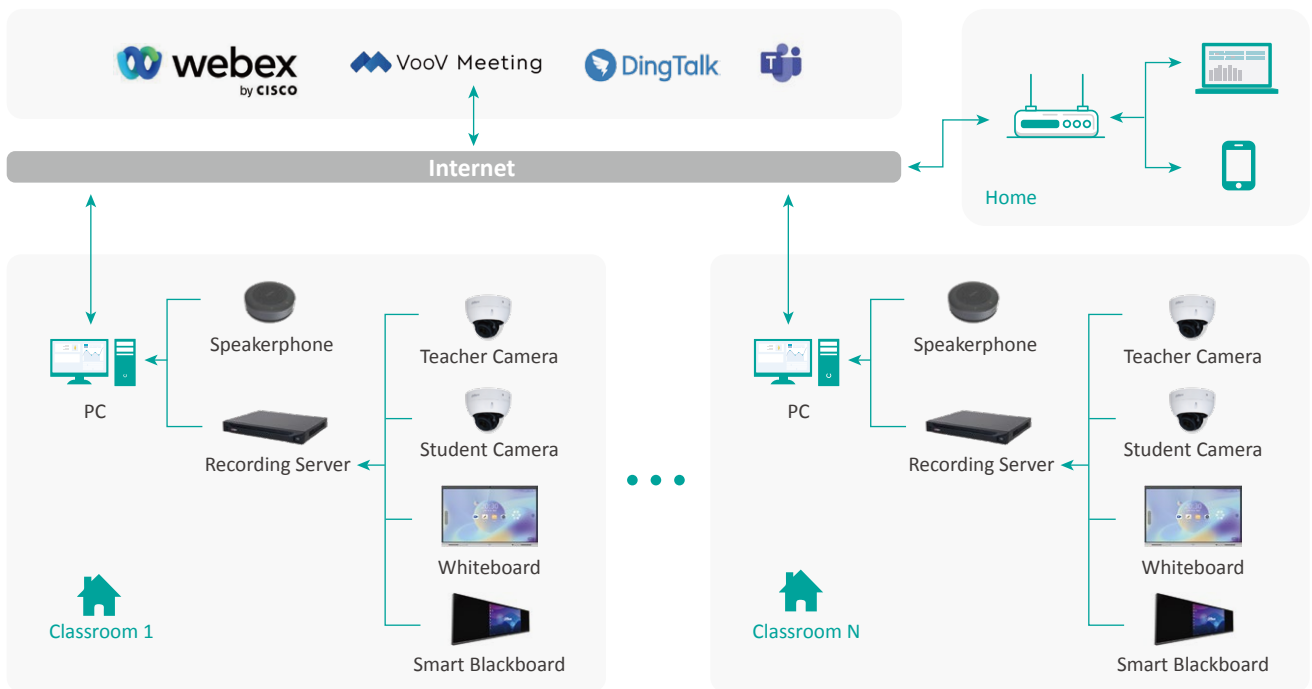
INTERACTIVE TEACHING

More interaction between teachers and students



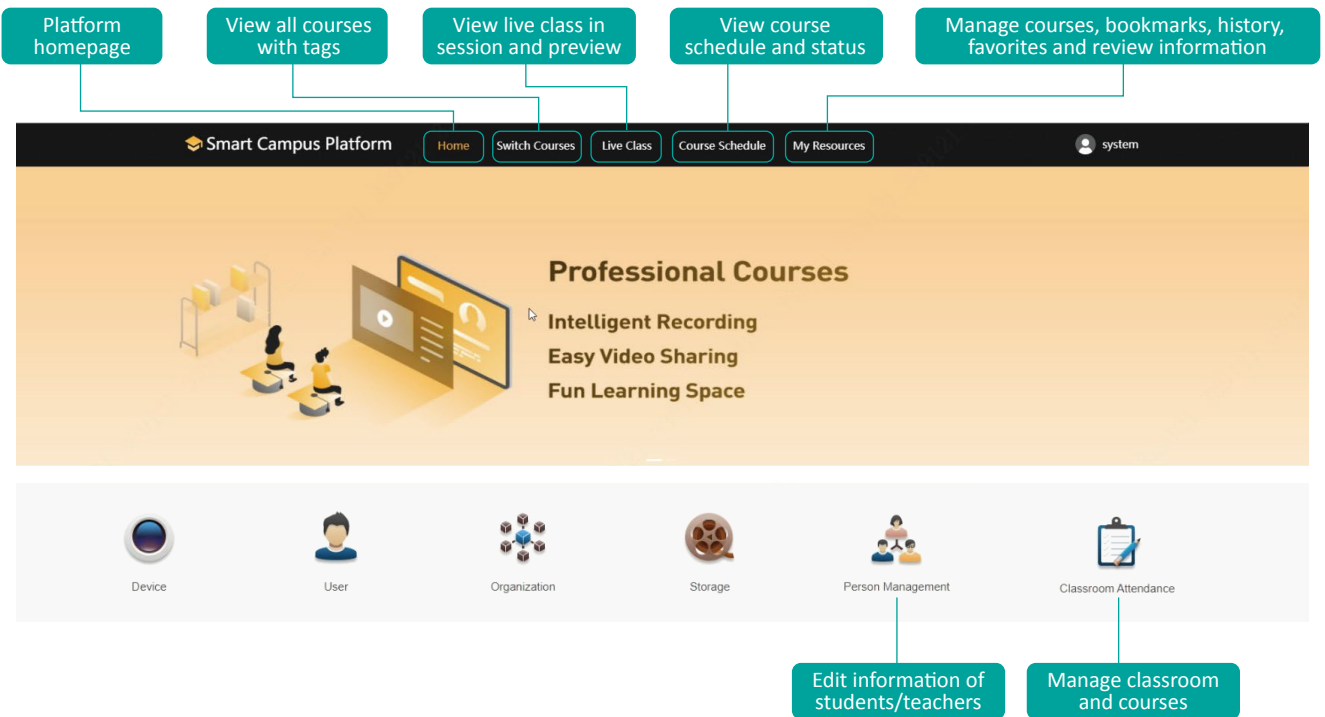
More immersive teaching and learning experience

•Video Conference Software



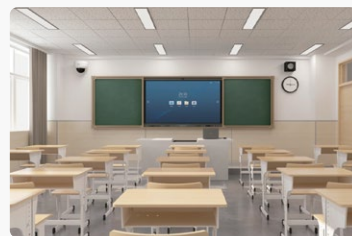
ONLINE LEARNING

Smart Campus Platform



TEACHING ASSISTANTS

Smart Interactive Whiteboard/Blackboard



*The interactive whiteboard combined with ordinary blackboard can be flexibly used through push and pull.

Featured:

- 65"/75"/86" to choose
- 4K Zero Air Gap
- Superb Writing
- Screen Sharing
- Office document support

Unrecognizable texts cause information loss

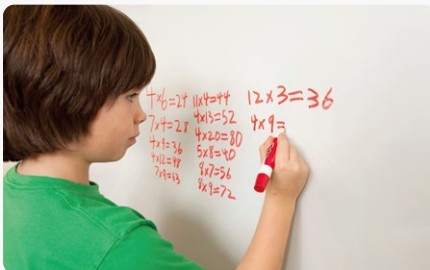
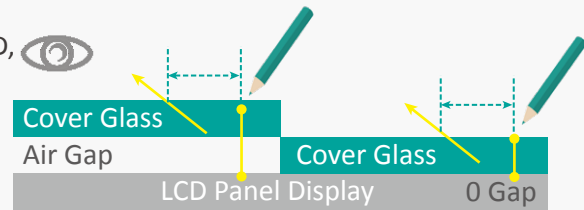


4K Display

- **More Details**
Crystal clear presentation
More readable texts on big screen
- **Future Proof**
4K UHD content support

Zero Air Gap

- **Better Viewing Angle & Color**
Less internal reflection between the glass and LCD, especially in large viewing angles
- **Better Writing Experience**
Fewer distance between pen tip & display (parallax), more solid writing

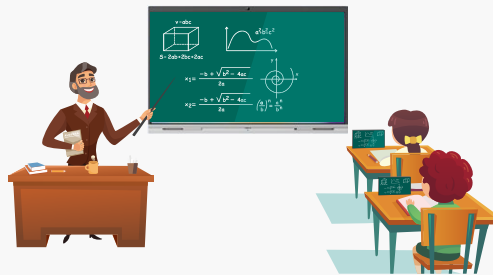


Advanced Writing

- **Natural, Consistent, Fast & Accurate Writing**
Zero air gap, low parallax
Less than 10ms touch response
Ink-like handwriting
Multi-touch (20 points)
- **Instant Annotation**
Annotate anytime on any sources displayed on the screen

Easy Save & Share

- **QR Code Sharing**
Scan QR code to quickly download content to your device
- **E-mail Sharing**
Easily send files and content via email
- **Easy Local Saving**
Save your whiteboard content locally and start right where you left last time



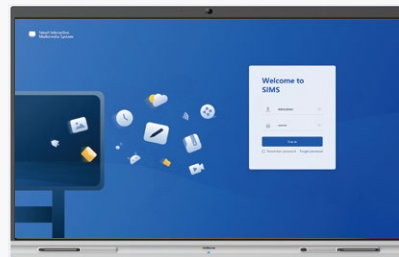
Wireless Projection

Students can interact with the teacher using their electronic devices. They are able to receive the content, write on the same canvas, take a quiz, or project their answers.

• SIMS

Remote Device Management

Mutiple device status overview;
Screenshot, restart, upgrade and more.



Smart Interactive Multimedia System

