MODERN COMMUNICATION TECHNOLOGY

Smart School Solution

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CONTENTS

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01 Background

02 Solution

03 Design

04 Application case

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Construction Background

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Existing Problem

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I Isolated Information

- Application system construction standards are not uniform
- Different application systems with independent content
- Multiple client terminals are inconvenient to use

R Lack of educational resources

- Lack of lesson plans or courseware for online learning
- No high-quality educational resources in remote areas
- Lack of high-quality materials for teaching activities

M Complicated management

- Teaching affairs take up a lot of time for teachers
- Difficult for managers to obtain information data
- Difficult to integrate and manage application systems

C Lack of information channels

- Lack of information-based learning channels and teaching tools
- Low application rate of information-based teaching software
- Insufficient integration of information technology and curriculum

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Construction Goal

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- 5G empowers educational environmental informatization
- Promote education equity and improve education quality
- Improve construction benefits of regional education informatization
- Build a smart campus benchmark and lead smart education
- Integration of information technology and education
- Realize educational innovation in the information age

Use 5G, cloud computing, big data, artificial intelligence, and other advanced technologies, with smart classrooms and interactive teaching as the core, to form an educational ecosystem with students as the main body, realizing the deep integration of information technology and teaching application.

- Centralized management and control of systems
- Provide real-time updates to serve the entire domain
- Secure isolation of internal and external networks
- Big data collection, centralized analysis, and scientific research
- Real-time collection and intelligent analysis of school information status
- Create a benchmark for industry solutions

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Overall Vision

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Student

- High-quality learning environment
- Enhance learning interest
- Improve learning ability
- Comprehensive development

School

- Science schedule
- Sufficient resources
- Cut costs
- Improve management efficiency

Education Bureau

- Unified public service system
- Promote balanced development of education
- Information sharing
- Sufficient high-quality resources

Teacher

- Improve lesson preparation efficiency
- Diversified teaching methods
- Convenient interaction with students
- Multi-channel teaching experience

Parents

- Realize home-school co-education
- Learn about education trends
- Master the situation of students in school
- Receive school notifications on time

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Construction Solution

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Educational informatization" relies on the construction of "cloud, network and terminal

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1

Education cloud platform

- Used to host educational resources
- Easy access of resources for teachers and students
- Meet the daily needs of learning
- Upload and share educational resources
- Create a high-quality public learning environment

2

Education Network

- Basis for the underlying device to obtain resources
- Open up the network of schools and education bureau
- Efficiently transmit teaching information
- Realize education informatization
- Weaken the status quo of "isolated information"

3

Smart education terminal

- Direct contact with teachers, students and parents
- Enjoy information education based on software and hardware
- Convenient use of educational equipment
- End-to-end intelligent connection and interaction
- Implement after-school services

Solution Architecture

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Portal + Space

Regional Education Cloud Portal

- Teacher space
- Student space
- Parent space
- Administrator space

Platform

- Digital resource education platform
- Synchronous cloud classroom platform
- Mobile learning platform
- Precision teaching big data platform

Network collaboration

Campus network

Flexible activation

Excellent performance

Network Collaboration

Software Defined Networking

Network Function Virtualization

Elastic bandwidth

Powerful and reliable

Campus network

Education terminal

Smart campus system

HD recording classroom

Smart interactive classroom

Smart listening and learning

Learning situation analysis

Campus big data

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Scene Construction

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Regular Teaching

- Regular classroom
- Recording classroom
- Sound reinforcement classroom

Public Area

- Campus security
- Campus broadcast
- Information management

Smart Classroom

- Recording classroom
- Online class
- Famous teacher class

Smart Management

- Handling of emergencies
- Implementation of measures

Cultural and Sports Venues

- Campus lecture hall
- Campus stadium
- Playground

Smart meeting

- Staff meeting
- Teaching Seminar

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Scene Design

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PART 01

Smart Classroom

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General Classroom

https://www.720yun.com/t/17akn78ms8y

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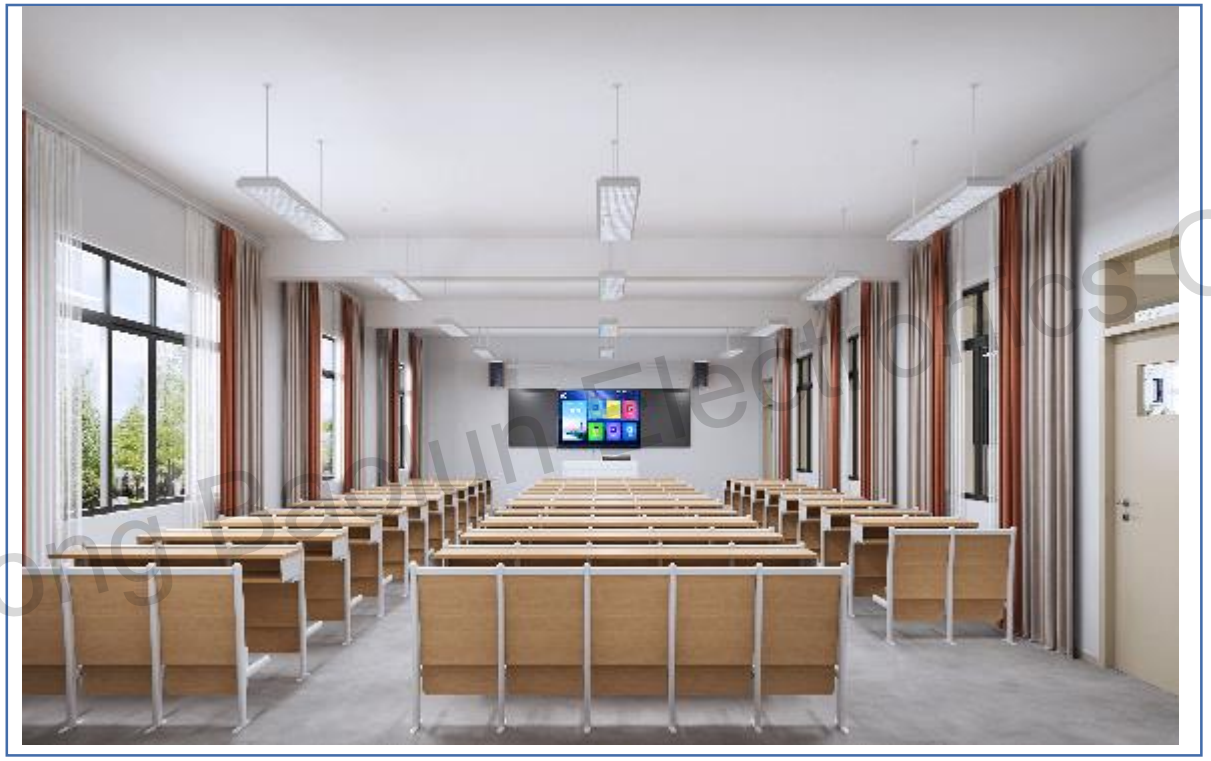
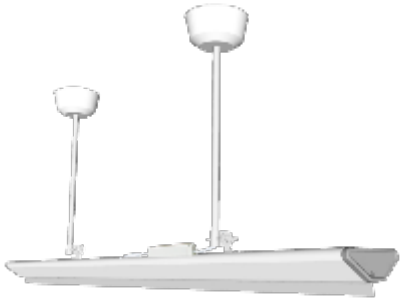
General classroom

Smart Class Information Board



Smart Blackboard



Classroom Lighting

Classroom Multimedia Terminal

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Interactive Recording Classroom

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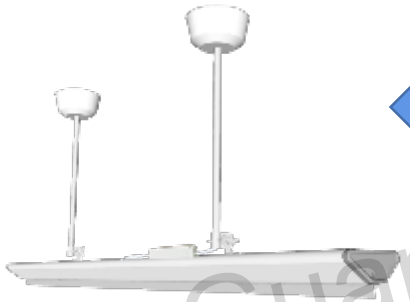
Interactive Recording Classroom

Smart Class Information Board



Classroom Lighting System

Smart Blackboard

Professional Sound System

Classroom Multimedia Terminal

Interactive Recording and Broadcasting System

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Excellent Recording Classroom

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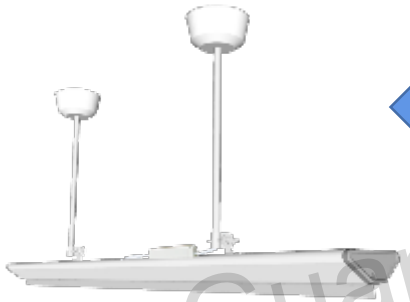
Excellent Recording Classroom

Smart Class Information Board



Classroom Lighting System

Smart Blackboard

Professional Sound System

Classroom Multimedia Terminal

Excellent Recording and Broadcasting System

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Lecture Theater

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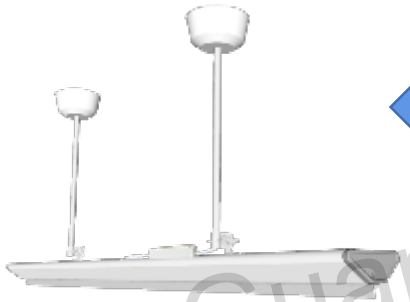
Lecture Theater

Smart Class Information Board



Classroom Lighting System

Display System

Professional Sound System

Classroom Multimedia Terminal

Voice Transcription System

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Teaching Display

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Education Integrated Flat Panel

Smart Blackboard

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Teaching Display System

Provide a variety of teaching display systems according to different scenarios. Smart blackboard for general classroom to provide unlimited blackboard writing for teachers. Smart education integrated flat panel for multi-screen interactive group discussion teaching activities. Large-scale teaching places such as lecture theaters are equipped with high-definition LED screens.

- Ultra low blue light
- Ultra-wide viewing angle
- NTSC high color gamut
- 4K UHD display
- Anti-collision
- Anti-glare glass
- Surface light imaging
- Arbitrary annotation
- Gesture recognition

Health Lighting

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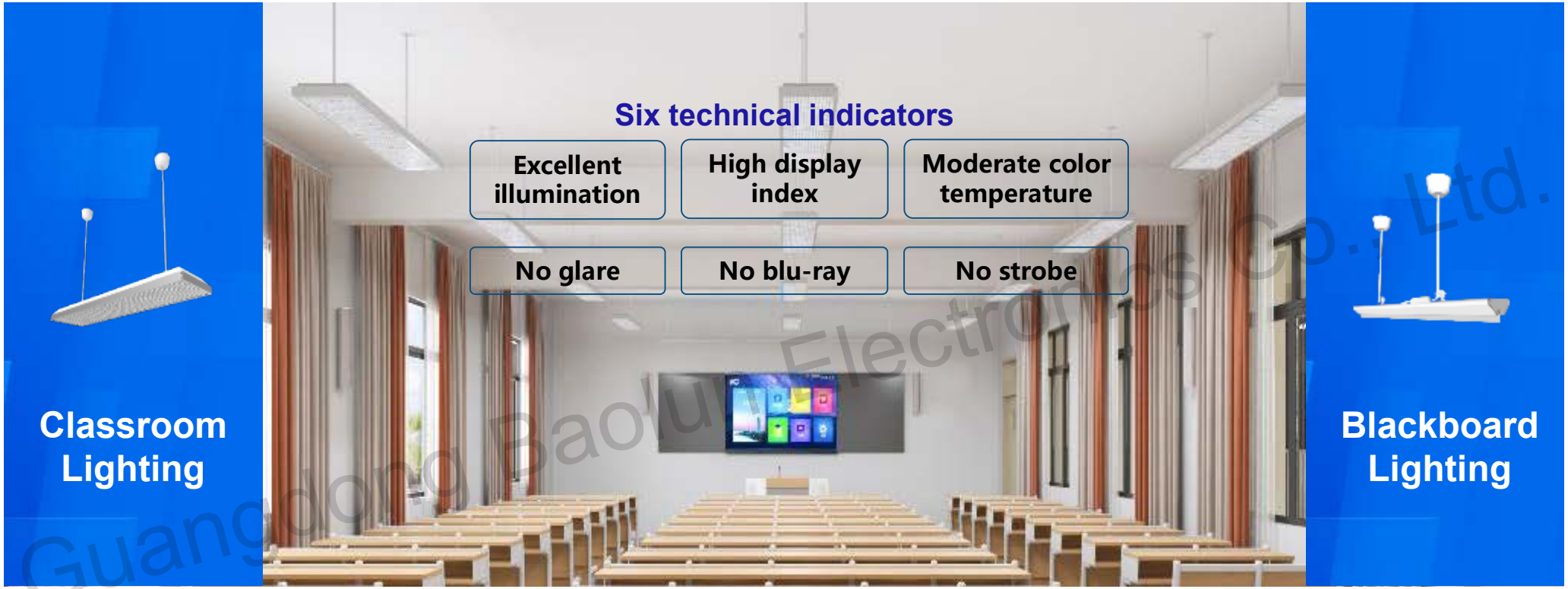

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Classroom Lighting System

In the student area, lights should be arranged vertically to reduce the glare area of the classroom and the reflection area.

In the podium area, special lights for blackboards should be used to avoid glare to teachers and students.

- Anti-glare
- Ra ≥95
- Back light
- Emergency lighting
- Angle adjustment
- Fall arrest structure
- Ultra high uniformity
- Environmental friendly material

Teaching Professional Sound System

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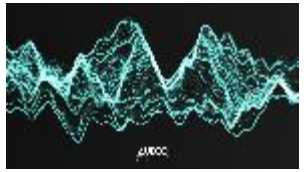
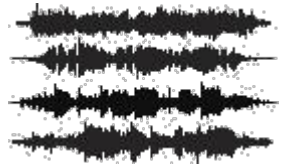
Classroom Professional Sound System

Intelligent control · Clear sound

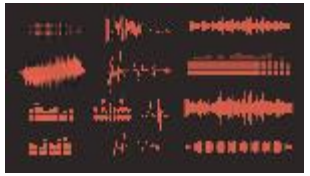
Equipped with a comprehensive solution for large classrooms/lecture theaters to meet the sound reinforcement needs for both walking lectures or fixed lectures, providing clearer sound.



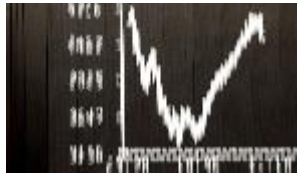
Automatic Sound Field Test



Automatic Gain Control



Environmental Noise Cancellation



Adaptive Feedback Control

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Interactive Classroom Recording System

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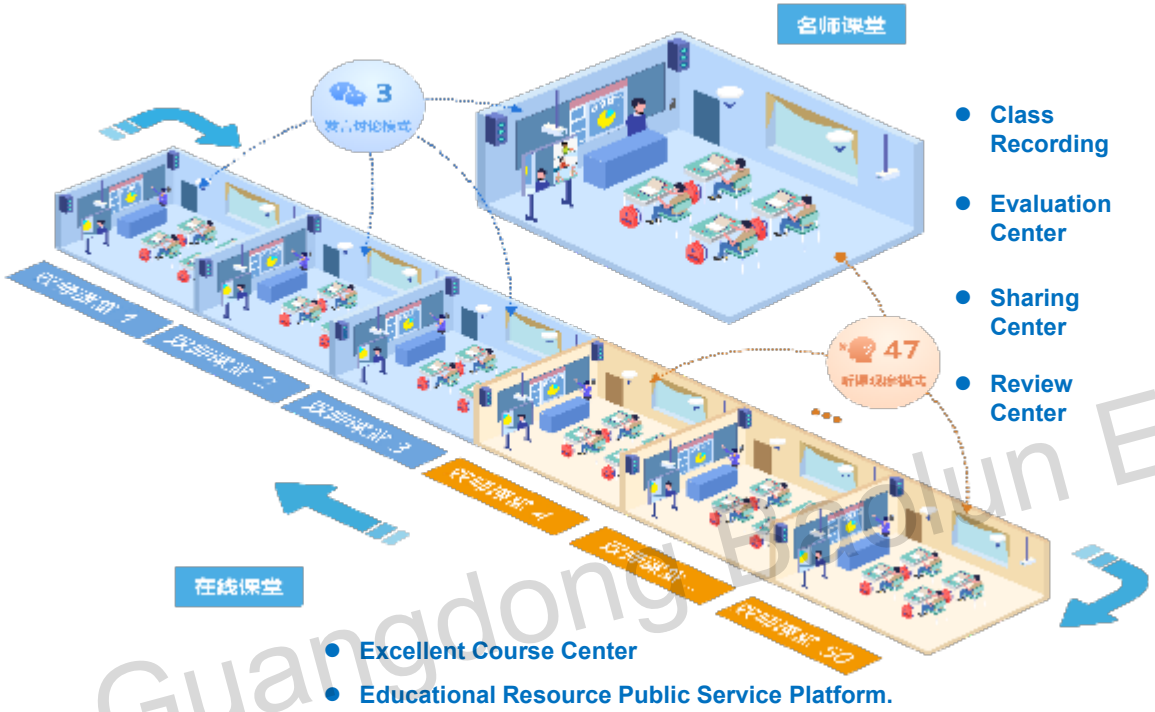
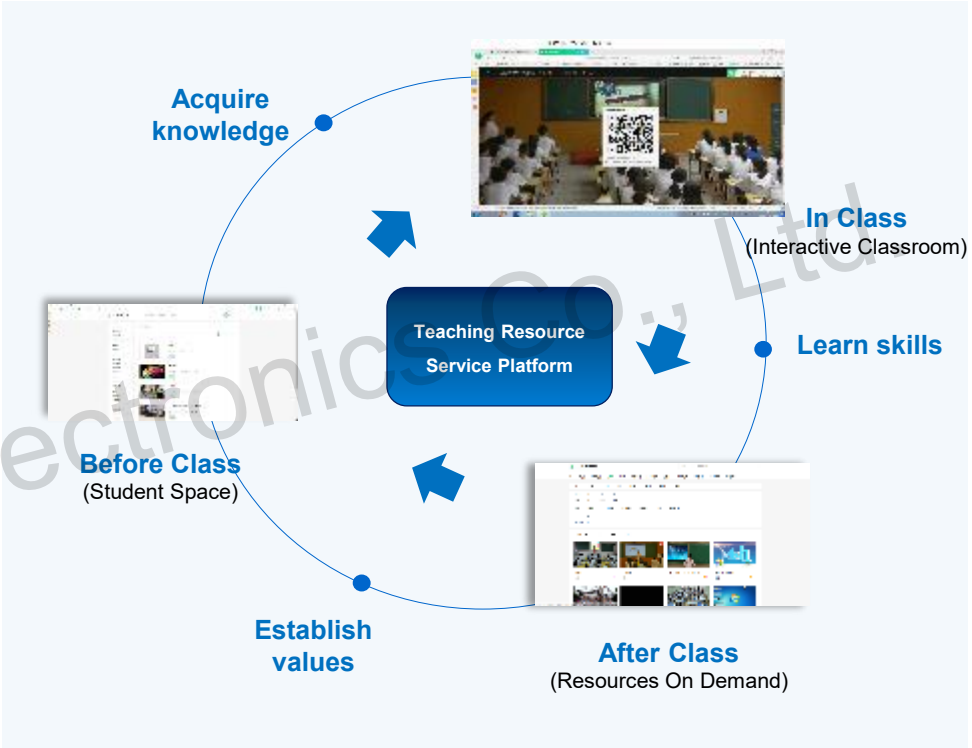


- Class Recording
- Evaluation Center
- Sharing Center
- Review Center

- Excellent Course Center
- Educational Resource Public Service Platform.



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1. Adopt itc "cloud + network + terminal" technology to build an online classroom teaching model.
2. Support interactive discussion mode to realize distance teaching.
3. Resource sharing solves the problem of isolated information.
4. Achieve real-time management, learning situation feedback, and data analysis.

- **In-class data synchronization**
- **Learning situation analysis**
- **View announcement**
- **Complete homework online**

Excellent Recording System

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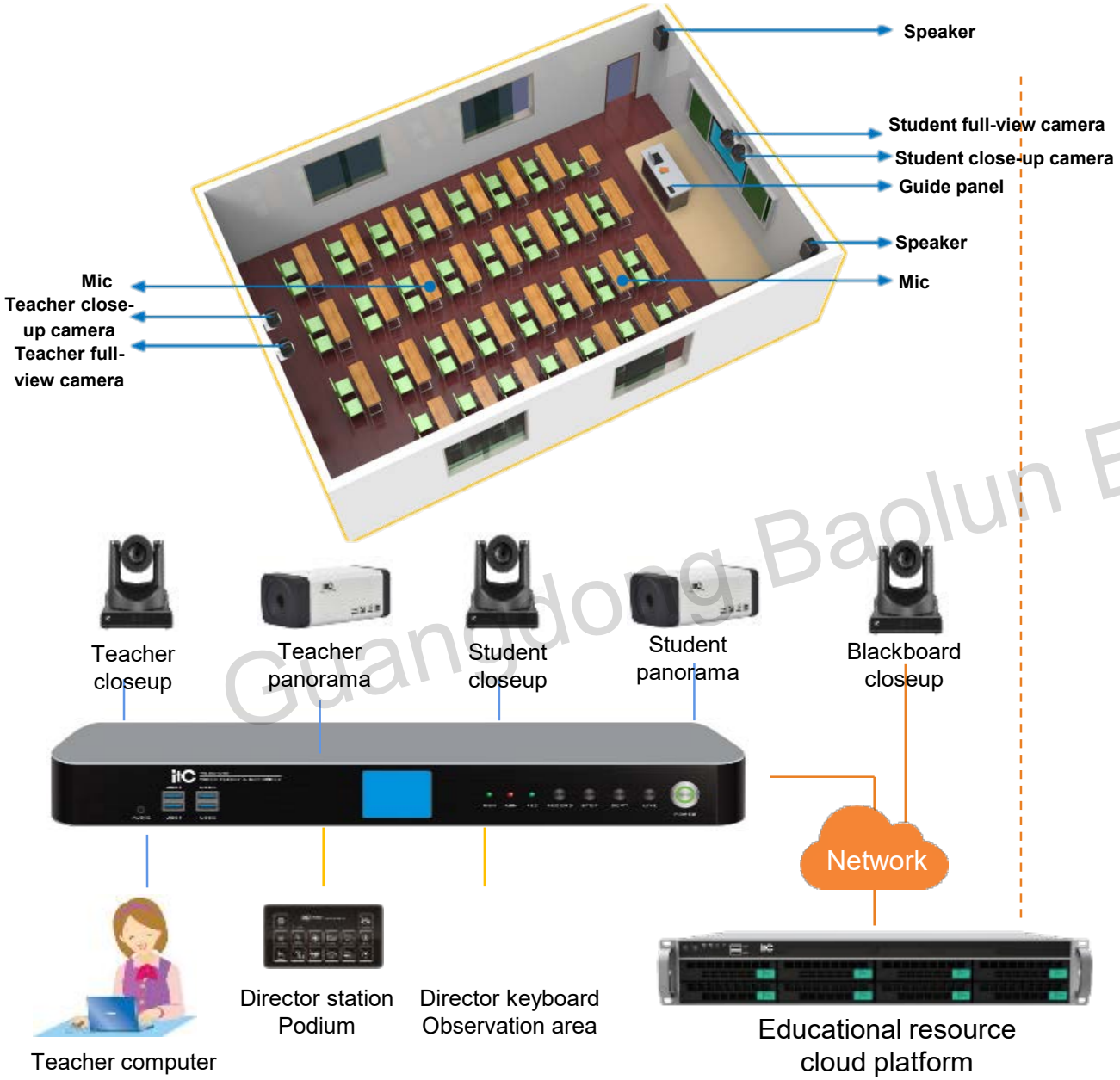

System construction

- Fully automatic five-camera solution to realize tracking of panoramic and close-up of teachers, students and blackboard
- High-fidelity audio acquisition, with audio processing capabilities such as noise reduction, echo cancellation, feedback suppression, and background noise cancellation
- Indoor hardcover: decoration, lighting, and sound design all meet the standard recording requirements

Excellent course recording application

- Record UHD 4K video, restore live images.
- Built-in camera automatic tracking module, with precise tracking technology and smooth screen switching
- Adopt director station for one-click recording and automatic recording, improving efficiency.
- Recorded classes are automatically uploaded to the cloud platform to meet the needs of large capacity for live broadcast, after-class on-demand, excellent course selection, micro-course production, etc.
- High-quality teaching resources are recorded and shared to other regions to achieve teaching resource sharing and education balance.

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Voice Transcription System

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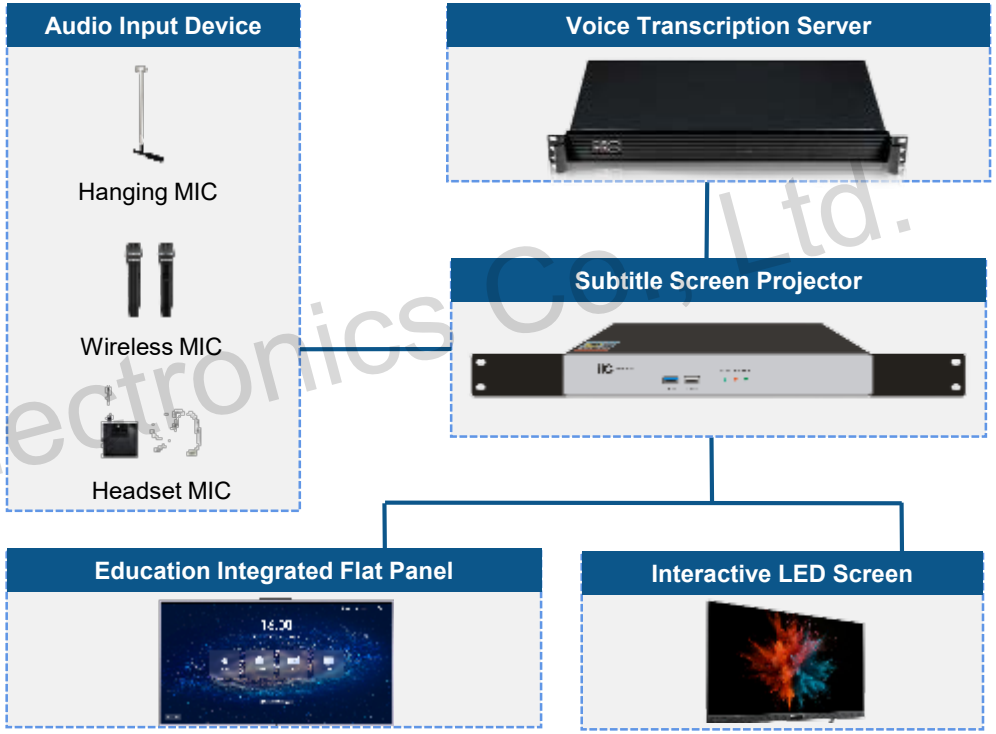

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Voice Transcription System

The classroom voice transcription solution provides **real-time voice transcription to subtitles** for teachers' lecture content. Teachers can freely switch this function. One voice transcription server can support 10 channels of audio input and output, providing voice transcription services for 100 classrooms.

- Class Notes
- Class recording
- Floating window display
- Sync subtitles
- Real-time subtitles
- Automatic segmentation
- Multilanguage
- See and hear clearly
- Multi-classroom interaction

Multimedia Central Control System

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Through real-time monitoring of classroom **temperature, humidity, and PM2.5** content:

1. The system can automatically adjust the ambient temperature, brightness and air quality of the classroom before class;
2. The system can automatically turn on the lights;
3. The system can automatically turn on the classroom air conditioner;
4. The system can automatically turn on the fresh air system.

- **Lightweight and easy to install**
- **Data status updated in real time**
- **Support major environmental data monitoring**
- **Link scene control based on monitoring data**

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Smart Class Information Board

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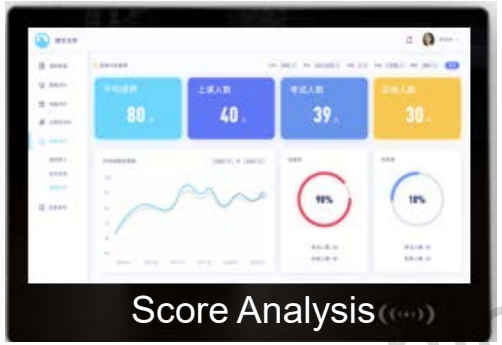
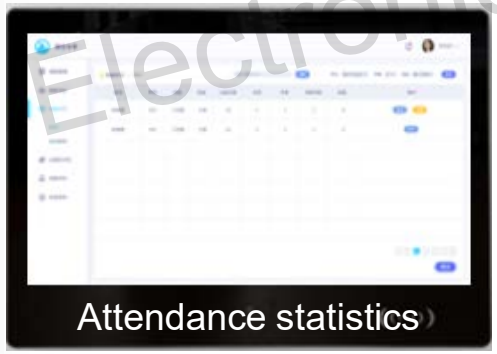
Smart Class Board Interface



Score Analysis



Attendance statistics

Message push in teacher terminal

School can master sign-in information of students in real time.

Campus Card

Face Recognition

Quick Attendance

Schedule	Course information	Ask for leave
Course selection	Schedule adjustment	Campus culture
Result inquiry	Weather information	Emegency notice

Smart Class Information Board

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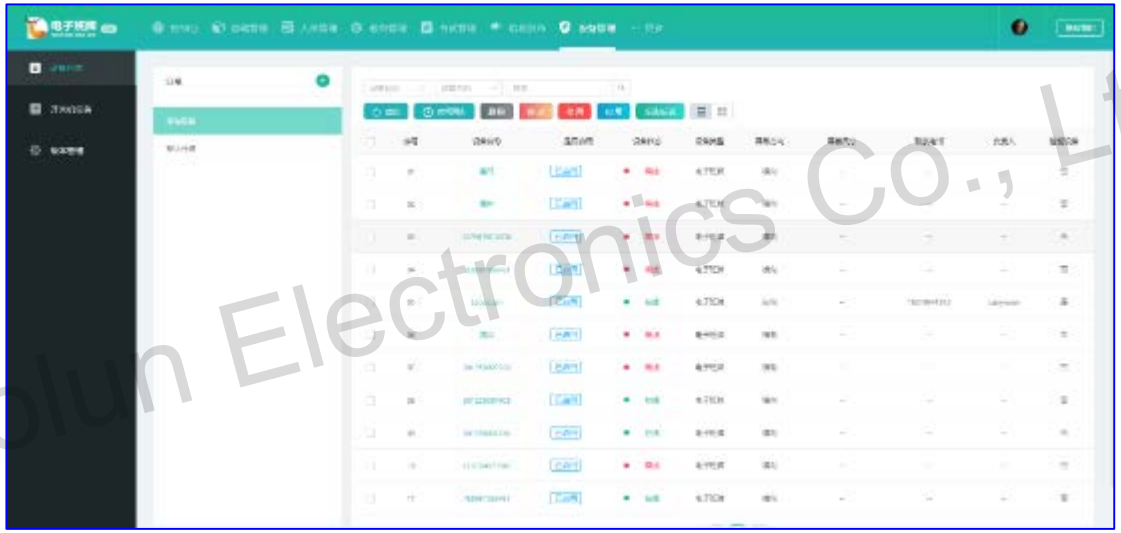

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Through authority division and group management of login accounts:

1. The system can group primary school and junior high school;
2. The system can group different grades in primary school;
3. The system can group different grades in junior high school;
4. Class boards are installed at different heights according to different grades. The installation height of the primary school is about 1.2 meters, and that of the junior high school is about 1.5 meters.

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PART 02

Smart Recreation and Sports

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Multi-function Lecture Hall

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Performance mode

- **LED system**
  4K UHD seamless splicing slim design
- **Prof. Sound System**
  Prof. sound reinforcement technology, hifi sound quality
- **Stage light, curtain system**
  Combining perf. and conf. mode, curtains controllable
- **Central control matrix system**
  Command and control, centralized control device
- **Digital conference system**
  Long distance sound pickup, wireless conferencing
- **HD recording system**
  HD recording storage for important conferences and performances

Lecture hall application program

According to the needs of different lecture hall scene including school conference sound reinforcement, cultural performances, itc builds one-stop solution integrating LED screen, professional sound reinforcement, stage lighting, distributed central control, digital conference, HD recording system, with UHD display, hifi sound quality, multi-mode lighting, wireless conference, and HD recording, which can satisfy scene demands containing school's various kinds of large-scale conferences, academic lectures, presentations, parent-teacher conferences, speeches, competitions. Meanwhile,, it also has the function of cultural performances, which can bring the perfect conference experience to the teachers and students.

LED UHD Display System

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LED UHD Display System

itc UHD LED display system adopts China's first-line brand lamp beads, chips, with seamless display of the whole screen, ensuring the accurate display of digital signals, graphic signals and text signals. Support for multi-channel video display, superposition. High reliability ensures that the LED screen works stably for the whole day. With low brightness, high gray, high refreshment LED display. Viewers will not suffer from visual fatigue even after long-term viewing. Dual backup of power signal to ensure stable operation of screen body.

- Ultra HD lossless
- High refresh
- High grayscale
- Image correction
- Large view angle
- 3D display
- Brightness adjustable
- Silent design
- Light weight
- Fast heat dissipation
- Low power consumption
- Stable and reliable

Mic Pickup System

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Performance mic: for presenters' speeches, mobile use

Conference mic: for presentation meetings, symposiums

Report mic: for interviews and leadership speeches

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Mic pickup system

Based on the computer network as a platform, digital conference system uses all-digital network transmission and control, which can be widely used in: round table conference room, square table conference room, multi-function hall, banquet hall, lecture hall and other meeting places. Aiming at the problems of difficult sound reinforcement, easy to produce howling and complex deployment in the meeting room, it provides a better solution. Also, it is capable of realizing the functions such as role separation, digital recording, Mix Minus and seamless backup, and so on.

- Digital recording
- Mix Minus
- Seamless backup
- Convenient operation
- Fidelity sound quality
- Long battery life
- Seperate frequency band
- Ultra-low delay
- High scalability

Professional Sound System

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Professional sound system

Professional sound system mainly covers program signal source, signal processing, amplifier, speakers, etc. Through advanced design concepts and high-quality device configurations, it creates perfect acoustics to satisfy the needs of speeches, reports, lectures, discussions and others in multi-function lecture halls, and it can achieve clear feedback of the human voice speeches.

- Four-frequency two-driver design
- Three-frequency design
- Beam control technology
- Wide bandwidth pointing control

Acoustic Design

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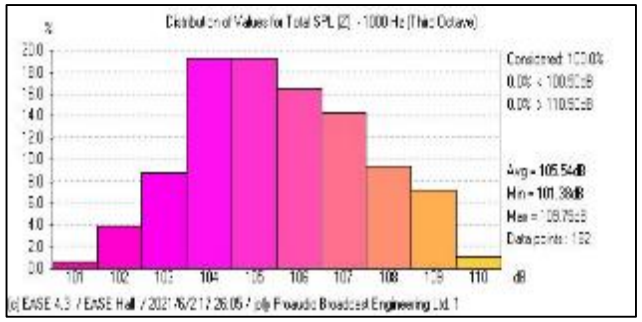
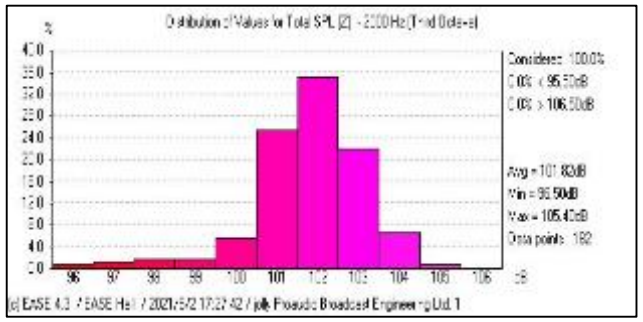
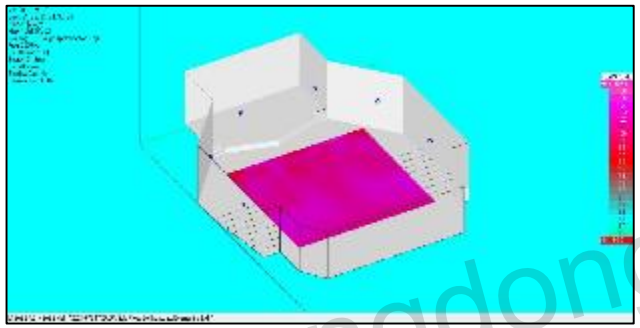


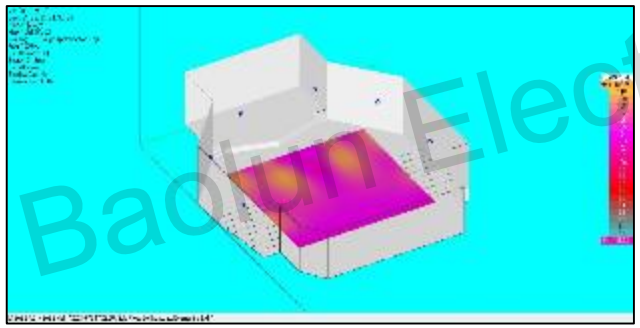
Distribution of direct SPL at 1000 Hz



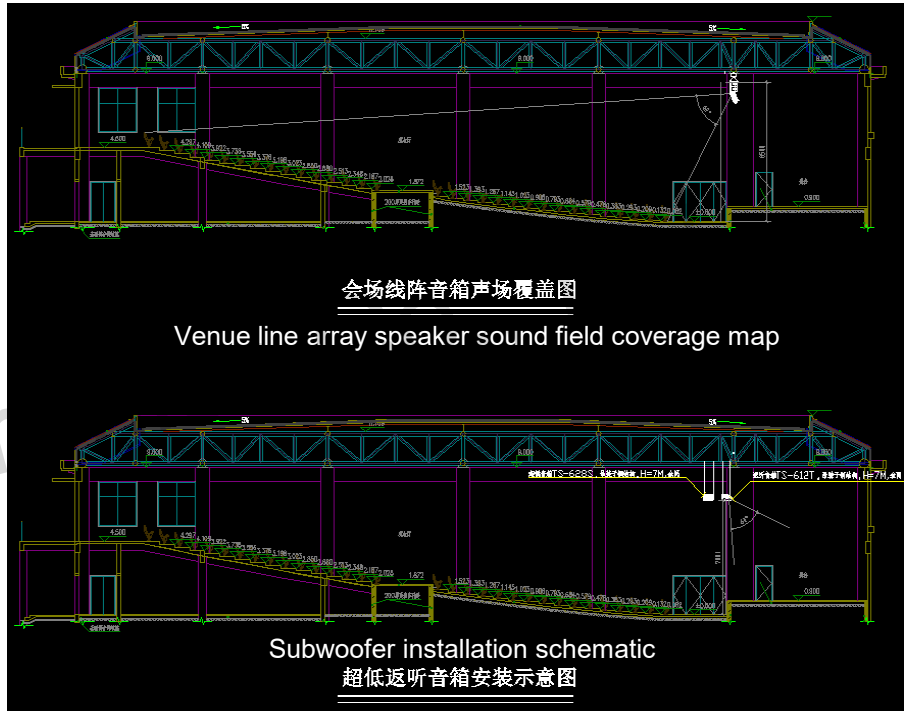
Distribution of direct SPL at 2000 Hz



Statistical plot of distribution of direct SPL at 1000 Hz



Statistical plot of distribution of direct SPL at 2000 Hz



Venue speaker selection and elevation diagram

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EASE4.4 acoustic design

itc provides professional and detailed acoustic design solutions for the construction of professional sound systems in large venues such as lecture halls and stadiums. According to the decoration material, overall structure and the use of the lecture hall, combined with the principle of architectural acoustics design, the solution will make reasonable selection of suitable venue audio; then use EASE4.4 professional sound field simulation and analysis software to establish a 1:1 building 3D model, thus creates the best acoustic design scheme to ensure of sufficient SPL , even sound reinforcement, and comprehensive coverage in the scene.

- EASE4.4 sound field analysis
- Sound reinforcement system analysis
- Smooth transmission characteristics
- High sound transmission gain
- Excellent sound field uniformity
- Sufficient SPL
- Hidden installation
- Multi-scene switching
- .....

Stage Lighting System

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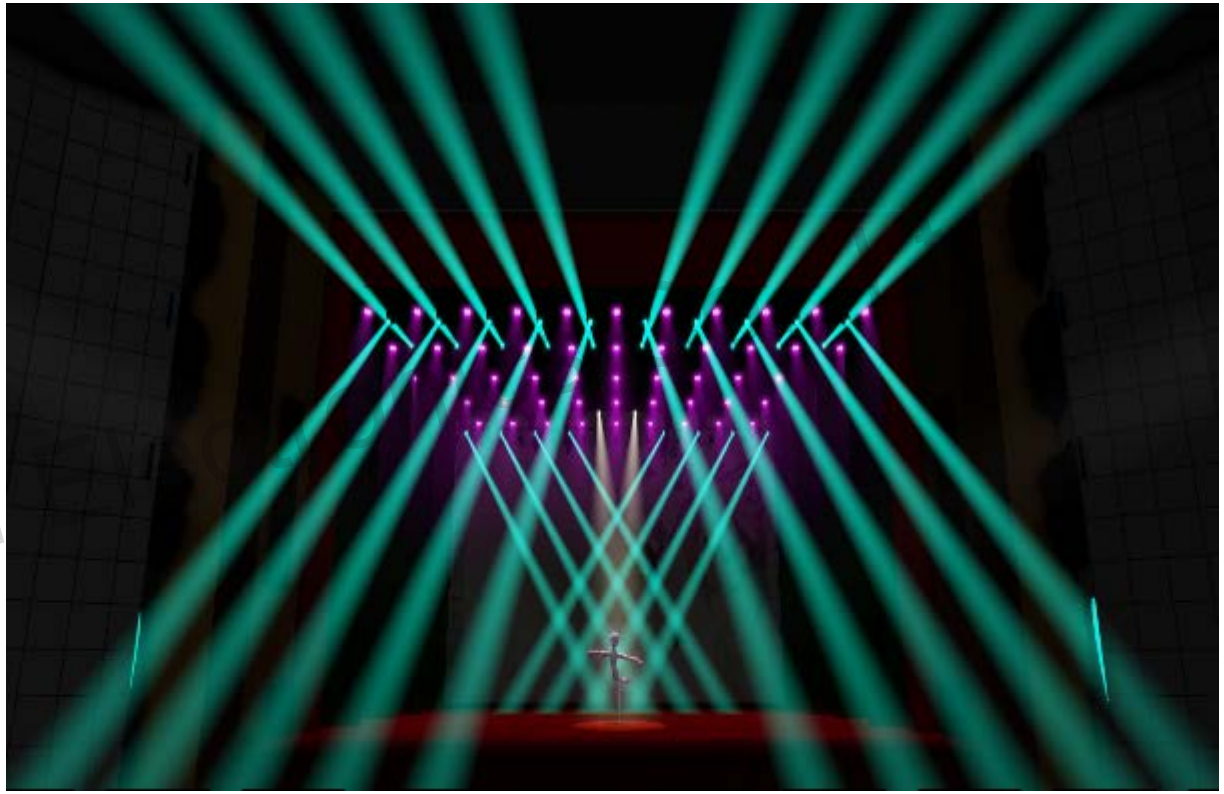

Stage lighting system

The design, configuration and layout of the lecture hall stage lighting system can also meet the requirements of daily meetings and artistic performances. The lighting of the whole stage is scientific, reasonable and beautiful. It can meet the needs of various kinds of meetings such as large-scale report meetings and summarization meetings. In the performance mode, the stage lighting can do different stage lighting effects according to the content of the performance.

- Long life
- High compatibility
- Shorter response time
- Energy saving and high efficiency
- Bright and rich colors
- Strong mobility
- Conference mode
- Performance mode
- ……

HD Recording System

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HD recording

LAN live streaming

Post-meeting on-demand via internal LAN

Easy to control

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HD recording system

For major meetings, decision-making meetings, their contents often require recording. Conference recording system can record pictures, PPT scripts, speech sounds, multimedia audio and so on during the meeting, and can provide online live broadcasting, post-conference on-demand broadcasting, resource integration and other application functions.

- HD recording
- One-touch tracking
- Low bandwidth demand
- Face tracking
- CD-quality sound
- AAC coding technology
- Easy to use
- DSP acquisition
- ……

Stadium Application Program

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Stadium application program

itc actively guides and encourages schools to carry out sports activities, making full use of the existing sports venues, encouraging schools to carry out various sports, mobilizing teachers and students sports enthusiasm, and striving to enhance the physical quality of the students.

Info release

Announce events in advance

LED screen

Audio and video visualization, distributed scheduling

Prof. sound reinforcement

Indoor area full coverage of hifi sound quality

Pickup system

Long-distance pickup, maintain order at the scene

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PART 03

Faculty and Staff Conference Room

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Conference Management

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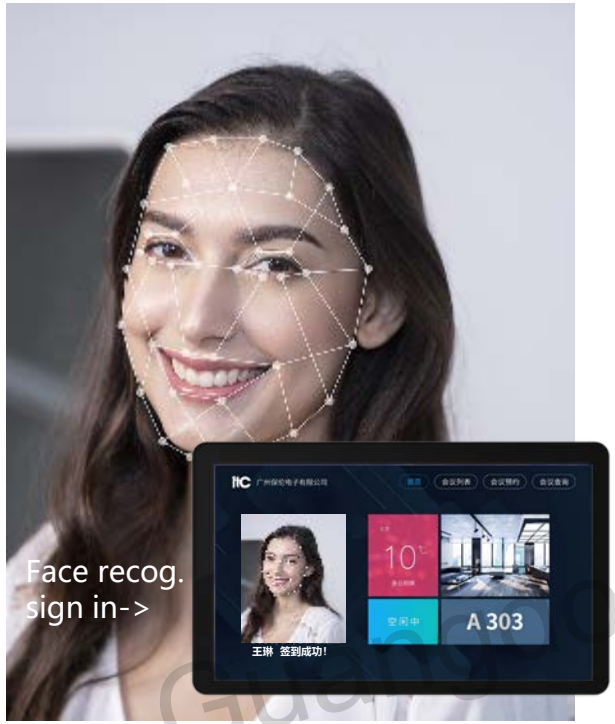

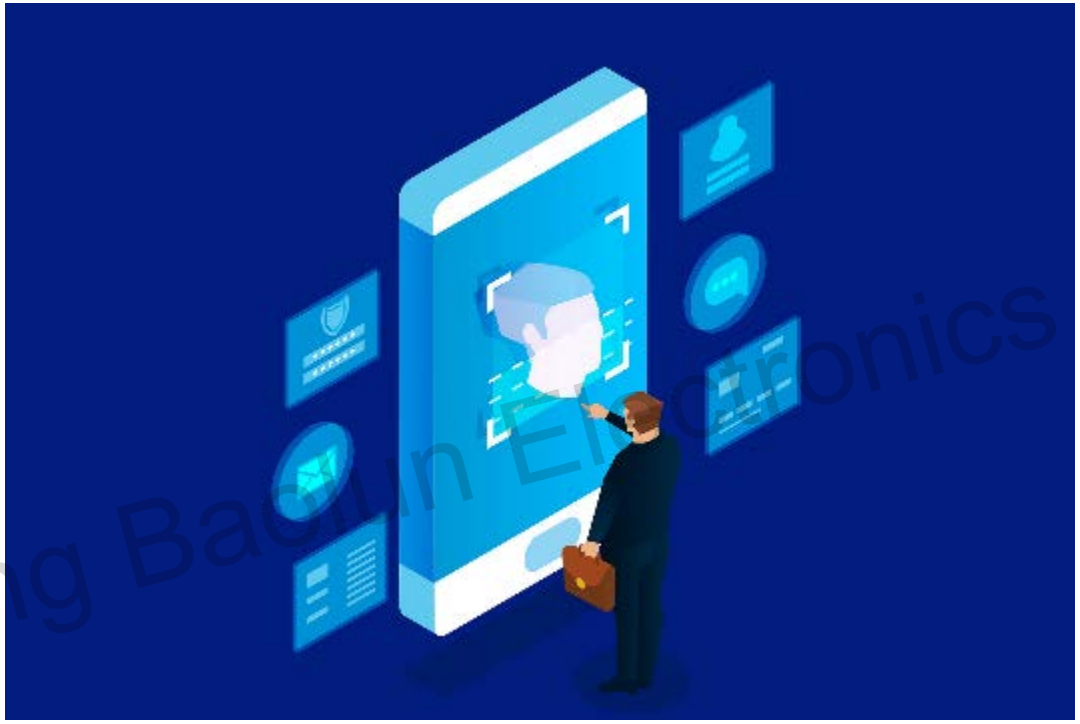

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- Face recog. sign in
- Door control mgt
- Conf. reservation
- Attendance
- Seat management
- Info release
- Conf. services
- Conf. envir. control
- Asset management
- Integrate & interface with internal systems
- Data analysis
- .....

Cloud Conf. Mgt Platform -
Multiple Expanded Functions · Facilitate Campus Conf.

itc conf. mgt system through the PC terminal, mobile phone, conference room reservation control screen and other ways to launch the meeting. Based on the specific requirements of the meeting scene, one key to set up, remote control of the conference room environment. Hardware terminals are used to implement the multi-party video conferencing function between conference rooms and sub-meetings, docking and supporting various types of meeting needs, and can be applied to a variety of scenarios.

Conference Display

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Business LED - Perfect combination of interactive whiteboard and LED display screen

- Standard resolution and display ratio, using PWM control technology, with low brightness and high gray, 16:9 display ratio
- Static and high dynamic images are fine and non-destructive. No optical splicing 1920*1080 resolution
- The installation mode depends on the actual situation, supporting wall-mounting, floor-mounting
- Suitable for meeting rooms, lecture halls, exhibition halls, command and monitoring centers, office building lobbies and other application scenarios.

Multi-Screen Interaction
• Wireless Sharing

- 110″: suitable for 20~40 people, 50~80㎡ space
- 138″: suitable for 30~60 people, 80~120㎡ space
- 165″: suitable for 60~100 people, 120~150㎡ space
- 220″: suitable for 100~200 people, 150~350㎡ space

Paperless Office

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- Silky lift panel
- Biometric sign-in
- Conf. note retention
- Smart shared screen
- Local off-site interconnection
- Website search for info
- Handwritten annotation
- Scan to take notes away
- System confidentiality agreement
- System integration and interfacing

Education Bureau Meetings • Teachers' Wrap-up Meetings • Teaching Seminars • Reading Exchange

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Faculty & Staff Paperless Conference System · Covering Teaching and Office Life

- Integrated OA system, one touch to complete course schedule issued, office approval, attendance leave, collaborative data meetings and other information campus office, docking video conferencing, teaching recording and broadcasting and other systems
- Helps to realize paperless, energy-saving and environmentally friendly office meetings and efficient collaborative training.

Paperless Operating System · High Security for System Confidentiality

- Meet the high security requirements of application systems in government, defense, finance, electric power, confidentiality and other fields.
- Support CPU hardware such as Loongson, Zhaoxin , Phytium, Kylin, etc., with NeoKylin operating system, exclusive operation interface, and high security.

Smart AI Conference Minutes

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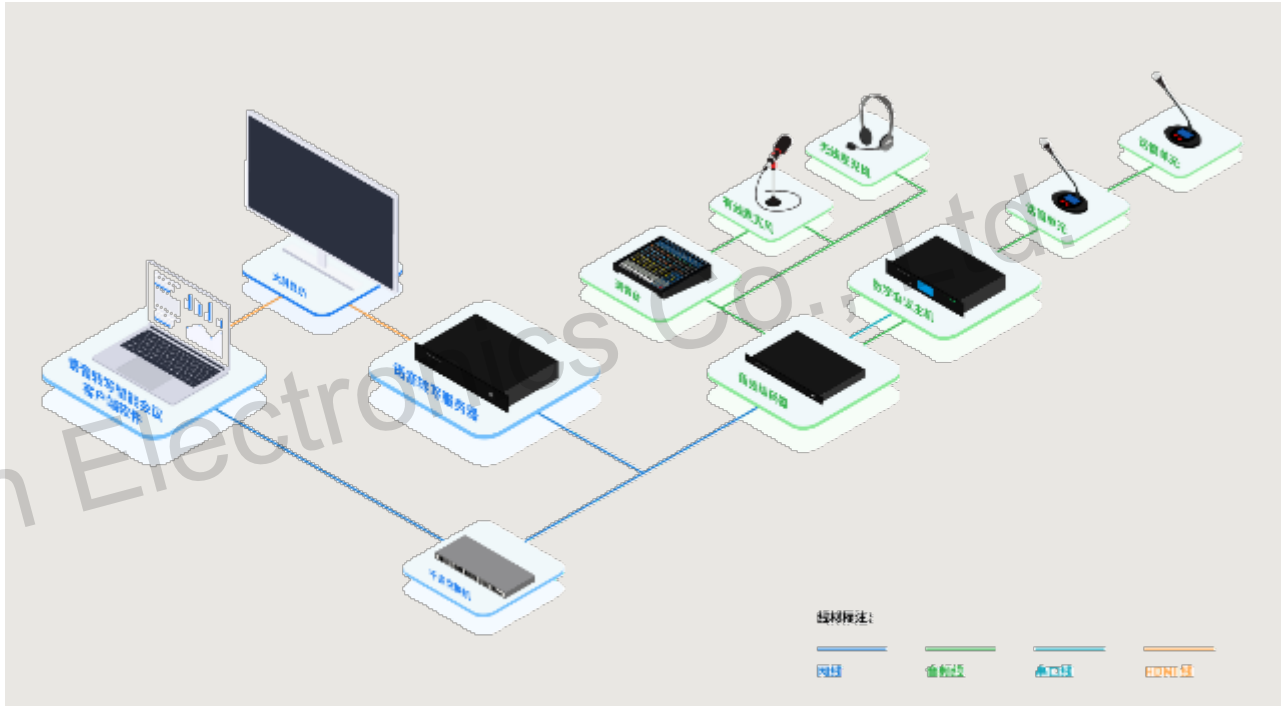

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- Role separation
- Keyword optimization
- Conference recording
- Emphasis mark
- Paragraph & phrasing
- Key content mark
- Word-sound syn
- Modal particle filtering
- Fluent speech
- Lexical substitution
- Taboo word blocking
- Custom banner

High accuracy, ultra-fast recognition speed: using IFLYTEK's top voice transcription technology, real-time voice transcription efficiency of ≤ 200ms. **5-10 minutes** to complete the audio transcription of 1 hour, the correct rate of standard Mandarin can reach **more than 98%**. Support batch import and transcription of **50 audios**.

Remote HD Video Conferencing

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- Sound source location
- MCU union
- 4K image quality
- Multi-tier architecture
- Virtual conf. room
- Easy deployment
- Hot standby
- Hifi sound quality
- IP camera access
- IRDA control

Remote Video Conference System

Integrating HD audiovisual technologies, supporting seamless docking and rapid data sharing among different platforms, realizing off-site video interconnection meetings. With rich conference management features, teachers can carry out remote interactive teaching, discuss academics, instantly convene a meeting, etc., greatly improving office efficiency.

Professional conference sound reinforcement

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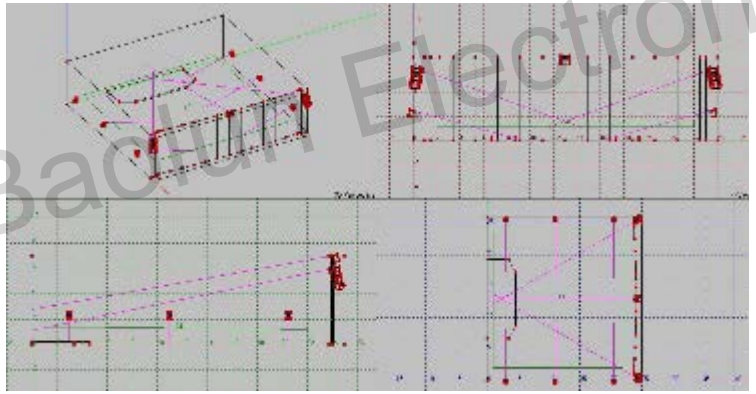

Speech system

Mixer

Audio processor

Prof. speaker

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Conference room professional sound reinforcement

Design should fully consider the sound and decoration environment, using EASE4.4 system software, based on Indices of Acoustic Characteristics for Sound Reinforcement System in Halls and Rooms, Methods of Measurement for the Characteristics of Sound Reinforcement in Auditoria; select the right speaker to ensure of optimal sound reinforcement effect without affecting the aesthetics, and to meet the sound reinforcement, which requires clear language, no distortion, sufficient sound pressure margin, uniform sound field distribution, no howling.

- Mix Minus
- Dynamic EQ
- Transmission gain
- Even sound pressure
- EASE4.4 design
- High definition
- Howling suppr.
- Hifi sound qlty
- ...

PART 04

Public Area

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PA System

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Classroom

Campus perimeter

Cafeteria for teachers&students

Security office

PA System

PA system provides daily automated **background music, business notification broadcast, fire emergency evacuation** for campus personnel;

Play different music based on different environments and atmosphere. It can insert broadcast, send people search broadcast, emergency broadcast and so on;

Meet the demand for full coverage of business broadcasting such as public area broadcasting, classroom point-to-point control, perimeter help alarms, security office scheduling, and so on;

PA System

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Primary school building

(Schools: Primary + Middle School)

Middle school bldg 01 sub-area
Middle school bldg 02 sub-area
Middle school bldg 03 sub-area
Middle school bldg 04 sub-area
Middle school bldg 05 sub-area

Middle school building

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Arbitrary zoning

- Set up any number of groups (zones) according to the primary and middle school divisions to broadcast designated programs;
- Broadcast speech to any designated group;
- The digital broadcasting system can realize unlimited zones without being limited by the number of zones, which is convenient for the expansion of areas and functions.

Zone control

- Support power control zone setting for 8-channel power zone terminals, and the zone can be easily set up through the web page backstage or the sub-control client.

Public Areas -- Security Aerts

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In recent years, campus safety issues have been particularly prominent. Campus fire safety incidents, laboratory safety incidents, apartment safety incidents are on the rise, deeply affecting the safety of students on campus. So enhancing the awareness of teachers and students of safety precautions, add safety warning facilities has been imminent.

Unilateral disconnection

Alarm buttons are set up in dormitories, academic buildings and other venues to provide protection for students seeking help, and students are unable to hang up on their own initiative after dialing.

Safety management

Unified management of safety bulletins, safety system documents, safety task management, safety information filling, safety duty statistics and safety data.

Security broadcast

In the event of an emergency contingency, the linkage broadcast system emergency plan evacuates people and ensure the safety of students.

Safety management

Safety education

Safety emergency

Call for help and alarm

- Meet the demand for full coverage of business broadcasting such as public area broadcasting, classroom point-to-point control, perimeter help alarms, security office scheduling, and so on;
- Installation free. Log in to use it.

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Application case

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Selected Cases of high education

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Beijing Institute of Technology

Tsinghua University

East China University of Political Science and Law

Fudan University

Sun Yat-sen University

Xiamen University

National Defense University,Turkey

Kazakh National Pedagogical University

Swinburne University in Sarawak, Malaysia

Singapore Polytechnic School

South China University of Technology

Nanjing University of Technology

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✓Lake Joondalup Baptist College , Australia
✓IP Network Public Address System

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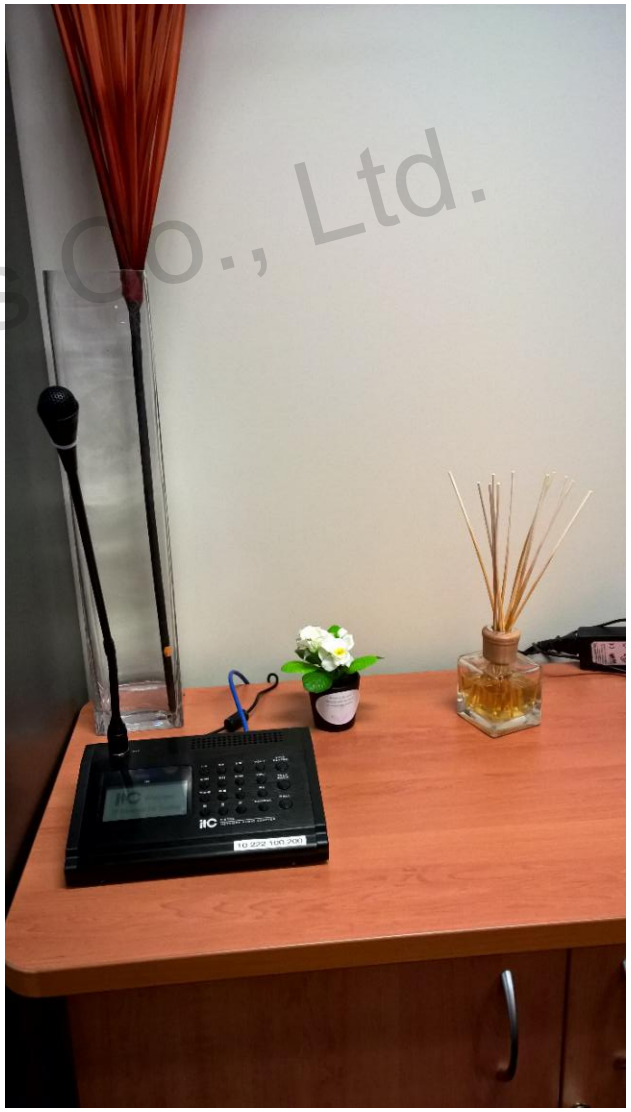

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✓Lawrence S.Ting School,HCMC，Vietnam
✓AV system

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Guangzhou Baolin Electronics Co., Ltd.

✓Singapore Polytechnic School
✓ITC IP PA System

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Modern Communication Technics Co., Ltd.

✓Swinburne University in Sarawak, Malaysia
✓ITC Pro Sound System

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Guangzhou Jingjun Electronics Co., Ltd.

THANKS

Science and Technology Create Future, Strength Create Brand

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