



Description

It is a comprehensive management system applied to classroom audiovisual and lighting services. The system fundamentally changes the traditional control mode of classroom equipment and builds an intelligent and collaborative teaching environment.

Feature

- * The platform software controls classroom terminals and peripheral equipment to realize functions such as audio broadcasting, video push, live video, teacher attendance, classroom management, classroom inspection, platform resources, power consumption statistics, and environmental monitoring.
- * The system adopts B/S architecture and C/S architecture, and supports 8 control terminals including teacher web terminal, admin web terminal, Android APP, Apple APP, control panel, H5, WeChat applet, DingTalk applet, and more, realizing multi-channel interaction, unified and convenient operation, and real-time status synchronization.
- * The system supports connecting with high-precision GPS-based timing systems, and can independently perform broadcast system timing services without the Internet, making the system time error less than 1/300,000 of a second per year.
- * Provide full-duplex voice data exchange, respond to calls and call requests from various intercom terminals, support call modes such as one-key call, one-key intercom, one-key help, one-key alarm, support auto answering, manual answering, and support custom answering tone.
- * Support account memory function, you can switch accounts freely to log in, and can switch between 3 accounts at the same time; support automatic logout if no operation is performed for a long time to prevent password loss.
- * Support role management function, the administrator assigns roles to users, thereby assigning corresponding permissions, so that users cannot perform functions higher than their own permissions. By default, the system has roles such as administrator, teacher, and common user, which are convenient for users.
- * Support account management function, you can view and manage information such as username, gender, login account, login password, phone number, role permissions, valid time, login time, and login times; support importing excel sheet to create users in batches, and provide imported templates; support exporting user information in batches. Users can modify their account and basic information such as username and gender.
- * Support data overview function, you can view data information such as the number of all terminals and online status, real-time and scheduled tasks being executed, and ranking of device power consumption.
- * Support real-time audio broadcasting, you can choose music library files or upload local voice files for broadcasting; it supports list playback, loop playback, shuffle playback and other playback modes. It supports pushing audio to each classroom, prompting whether the classroom is performing tasks, and choosing whether to force to push tasks. It supports text broadcasting; input text or upload a text file, convert the text into speech, and then the system automatically recognizes Chinese and English and reads and broadcasts it; it supports setting the number of cycles, and supports adjusting the speed of the broadcast.
- * Support scheduled audio broadcasting, set the task start and end date, cycle, priority, and task volume, and perform broadcast tasks regularly; support music playback, terminal collection, and sound card collection methods. Music playback supports multiple selection of music files and setting loop playback, duration, playing tracks, etc. Terminal collection supports setting terminals, collection sound quality and end time, etc. And sound card collection supports setting selection of sound cards, setting duration and collection sound quality, etc. Holiday mode is supported, and scheduled audio broadcast tasks will not be executed during holiday mode.
- * Support one-click alarm tasks, view alarm track folders, support audition of alarm tasks and viewing terminal and classroom groups.



- * Support setting patrol tasks and viewing patrol records. Patrol tasks allow viewing of start and end times, selection of repeat dates, and viewing of terminal and classroom groups.
- * Support setting remote control and remote microphone tasks, viewing tasks and remote control names, buttons, task volume and priority, viewing media files and folders, auditioning remote control tasks, and viewing terminals and classroom groups.
- * Support electronic map function, you can check the terminal status in real time on the navigation map or online map.
- * Support terminal audiovisual decoding function. With a live video terminal, it can realize the function of video live broadcast in the school.
- * Support video push function. You can choose video files or video streams to push to designated classrooms in groups; it supports message reminder and preview and other functions.
- * Support video insertion function. You can choose a single classroom or grade group to push the live broadcast content uniformly. If the device is turned on, the classroom display device will switch to the live content.
- * Support audiovisual mixing push function. After this mode is enabled, when the task of pushing video files is initiated, the audio decoding terminal can play the audio content corresponding to the video content; if this mode is not enabled, only the video decoding terminal can play the video content, and the audio decoding device cannot play the corresponding audio.
- * Support the floating window function. You can control the task in execution at any time, view the task status, and can cancel task playback, control playback progress, and adjust the volume, etc.
- * Support educational publicity function, push pictures, video files, video streams and other information to educational publicity terminals or large screens; support adding multiple pictures or video materials from local files or resource libraries; support drag-and-drop sorting of materials; support setting the material carousel time. Support multiple playback modes such as timed playback, interstitial playback, immediate start, specified time start, and idle playback.
- * Support recording controller management, manage and operate recording controllers in batches, and check the online status, device name, IP address, bound classroom and other information of the recording controllers. Support viewing the recording task list, viewing the recording start and end time, recording duration and other information, jump to view or download the recording file.
- * Support on-demand classroom inspection function. When viewing the inspection screen by classroom or classroom group, if there are multiple recording cameras in the classroom, it is allowed to view and switch to the corresponding single-screen or multi-screen images. Support direction control of the PTZ camera, and support custom evaluation of the classroom.
- * Support terminal anti-dismantling alarm, terminal disassembly trigger alarm or other terminal linkage trigger alarm; support alarm task to automatically cancel the alarm function.
- * Support batch configuration, and apply configuration information such as device binding, scene mode, trigger linkage, and startup initialization to other terminals to achieve rapid debugging.
- * Support remote batch firmware and classroom computer housekeeper client upgrades for terminals.
- * Support connecting with third-party IoT gateways and supporting IoT devices to realize real-time detection of classroom environment temperature and humidity, PM2.5, smoke, door and window opening/closing, and whether there are people.
- * Support multiple trigger linkage modes. Through triggering methods such as terminal interfaces, sensors, and user IC card, functions such as automatically turning on the projector, automatically adjusting the temperature and humidity of the classroom environment, teachers swiping cards to enter exclusive scenes, and network commands triggering scene modes can be realized.
- * Support configuring the initial boot command and customizing the terminal boot command.
- * Support both zonal and all-zone fire linkage, support fire N±N mode, support manual alarm and digital alarm. Support configuring alarms to trigger terminal collection tasks.
- * Support a variety of classroom control panel setting strategies, and use the combination of card swiping and control panel to control the terminal to avoid accidental operations.
- * Support the management of monitoring equipment, support viewing the name, model, bound classroom, stream address, activation and deactivation status and other information of the monitoring equipment, and support connecting to third-party monitoring platforms.
- * Support the management of the central controller of the conference. Upload or download central control engineering software or interface control software. Scan the QR code through WeChat or a browser, you can enter the control interface, and realize the control of the conference central controller. Support password permission setting.
- * Support viewing the terminal name, IP address, device model, serial number, online status, bound classroom, and scene mode, etc. Support searching for devices by filtering the above information.
- * Support viewing the device information and running status of the terminal's built-in computer, including IP address, on/off status, CPU usage, memory usage, CPU temperature, cumulative boot time, system disk space, MAC address, upgrade logs, etc. Support the control of the built-in computer on/off.
- * Support remote control of a single terminal to achieve classroom volume control, video switching, scene calling and other functions, support viewing the device status and control logs.
- * Support batch management of multiple cloud-controlled classroom terminals to enter the Class begins or Class ends mode; support disabling cloud-controlled classroom terminals to facilitate maintenance by operation and maintenance personnel.



- * Support teacher attendance management function. Each teacher has an IC card, and only needs to swipe the card before class, and the server background will automatically generate attendance records. The user name, card number, role, swiping time, classroom, equipment and other swiping attendance records can be viewed in the background.
- * Support configuration of various exclusive scene customization, each scene supports multi-device linkage and multi-independent command combination, and 300+ custom icons.
- * Built-in infrared file database, users can configure it for terminal use, or manually add general infrared code instructions, and the terminal device can receive and process the infrared instruction control after learning.
- * Support audio file management function, support adding mp3 audio files, support classifying folders according to folders, support downloading/auditing/deleting audio files, and support audio push to classroom terminals as audio broadcasting materials.
- * Support video file management function, support uploading files in various video formats such as wmv, mpeg, mpg, avi, mov, ram, mp4, mkv, etc., and perform automatic transcoding, which can be pushed to classroom terminals or large screens as video broadcast materials and educational publicity materials.
- * Support video stream management function, support adding rtsp, rtmp, flv and other types of stream addresses, which can be pushed to classroom terminals or large screens as video broadcast materials and educational publicity materials.
- * Support the teaching resources management function, and support uploading files in various formats such as xls, xlsx, doc, docx, ppt, pptx, pdf, etc. Teachers can view them through the mobile app or web terminal to realize collaborative lesson preparation.
- * Support the power consumption statistics function, support the statistics of the equipment power consumption, equipment dynamics, equipment total power trend, equipment real-time status, equipment usage time and other information in the classroom by day, week, and month, and support exporting details in excel form.
- * Support the environmental detection function, support the statistics of the temperature trend, humidity trend and PM2.5 trend in the classroom by day, week and month, and support exporting the details in excel form.
- * Support classroom group management function. Create a new classroom group to manage the terminals, ranging from 1 to 5 levels; support batch import or export of group information in a table.
- * Support the creation of class schedules by importing excel sheets, or manually creating class schedules by filling in information such as class hours, subjects, teachers, and classrooms; support exporting class schedules in the form of excel sheets; support setting to perform tasks according to the class schedule, and intelligently identifying task conflicts to prevent task conflicts.
- * Support statistics on server memory usage, CPU usage, memory space, disk space, etc. Support synchronizing server time.
- * Support the recycle bin function, which can perform secondary recycling disposal on deleted resources.
- * Support manual backup and automatic data backup. The backup time, file size, and backup information of the backup file can be viewed; support scheduled backup according to the execution time or cycle.
- * Support asset management function: add assets and automatically generate asset QR codes, record information such as requisition, loan, repair, total assets, and damage, and graphically display and export in the form of line charts and tables.