



Intelligent School System

A/V All in One Intelligent Host

DSP9901



User Manual

Thank you for using our DSPPA public address system. Please read this User Manual carefully to make better use of this equipment.

Guangzhou DSPPA Audio Co., Ltd.

<http://www.DSPPA.com>

<http://www.dsppatech.com>

Matters needing attention



Please read the following before operating the product.



Warning

The following basic requirements must be strictly observed, to avoid potential personal injury and equipment or property damages to you or any person nearby. The basic requirements include without limitation to the following:

Power source/power cable

- Please disconnect the device from power source by pulling the plug other than the power cord. Pulling the power cord may result in damages.
- Please keep the power cord away from heat source. Do not over-bend the power cord or place it anywhere it can be stepped on or may cause to trip.
- This is connected to power source via the plug and any failure or danger occurs, the user can disconnect the device from power source by pulling out the plug out from the socket, therefore, it is required that the power socket should be located somewhere with easy access.
- The device is not completely disconnected from power source when it is switched "OFF". For sake of safety, please disconnect the device from the socket if it is not in user.

Positioning

- Please disconnect the device from power source before relocating the device.
- For avoiding deformation of panels and damages to internal components, please do NOT place the device where there is heavy dust or violent vibration, or where it is extremely cold or hot.
- Please keep this device off water drops or splash or vase filled with water or any other articles of similar nature.

Connection

- Please disconnect other equipment from power source before they are connected to this product. Please tune volume to its minimum level before the device is powered ON or OFF.
- All terminals on the device marked with ⚡ are live and dangerous, and should be connected by trained personnel.

When abnormal conditions are realized

- Please disconnect the device from power source immediately in case the power cord is worn or damaged or if the sound is suddenly cut off or any abnormal odor or smoke comes out from the device, and then have the device inspected and repaired by professional personnel.

Precautions in Operation

- Please do NOT insert any finger into any gap or opening of the device.
- Please prevent foreign objects (paper, plastics or metal etc.) from being inserted or falling into any gap or opening of the device. In such case, please cut off power source immediately.
- Please do NOT put the body or any heavy object on the device and do NOT operate the buttons or switches or connections with excessive force.

Do NOT open

- Please do NOT remove the cover of the equipment, otherwise you may get an electric shock.
- Do NOT attempt to remove any internal component from the device, or to modify the equipment in whatever manner. In case of any abnormal condition, please stop using the device immediately and have it inspected and repaired by professional personnel.

Other Precautions

- Our company shall not be responsible for data loss or damages due to improper use of unauthorized modification to the device.
- The images and screen display in this Manual are only for description and may be different from screen images in actual operation. The screen display depends on the product.

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1. System Introduction

A/V All in One Intelligent school system is an integrated system that combines transmission and control of audio and video and recording. It has super strong coding and decoding capacity which satisfies the need of A/V broadcast, A/V live, A/V interaction, recording and intelligent control. One host to control all classrooms, each of which could be recorded. This system is an ideal choice for schools.

This is a systematic platform that is composed of Intelligent Host, Wall Mount PA Terminal, Integrated A/V Broadcasting Terminal, Audio Broadcasting Terminal and Management Central Console. All devices are connected to Local Area Network. You can just operate on software or device interface.

2 System Topology

3. System Function

3.1 A/V Broadcast

- 1) With timing function
- 2) Support simultaneous play of 64 channels of audio and video stream;
- 3) Support prevailing audio and video formats, support creating program source and uploading to PC software;
- 4) Support public space and private space of program source. Each account could select between public program source and private program source;
- 5) Maximally support video file of 1060P 60 frame.

3.2 Paging business

- 1) Based on IP Network, low delay;
- 2) Support partition and grouping.

3.3 Audio and video live

- 1) With timing function;
- 2) Support signal stitching live broadcast of 2 channels of SDI and 3 channels of HDMI
- 3) Three modes: Single screen, Power mode, and Three screen;
- 4) Support double stream mode;
- 5) Support camera tracking mode;
- 6) Support hardware coding to display high quality image;
- 7) Support real-time preview of 8 camera screens;
- 8) Support zooming of video screen;
- 9) Support compositing screens of 2 cameras and 1 PPT.
- 10) Support recording live audio and video stream and saving as MP4 file;
- 11) Support platform server recording and terminal hard disk recording.

3.4 Interactive class

- 1) With timing function;
- 2) Support signal stitching of 2 channels of SDI and 3 channels of HDMI
- 3) Three modes: Single screen, Power mode, and Three screen;
- 4) Support double stream mode;
- 5) Support camera tracking mode;
- 6) Support hardware coding to display high quality image;
- 7) Support real-time preview of 8 camera screens;
- 8) Support zooming of video screen;
- 9) Support compositing screens of 2 cameras and 1 PPT.
- 10) Support recording interaction audio and video stream and saving as MP4 file;
- 11) Support platform server recording and terminal hard disk recording;
- 12) Support application for statement in interactive classrooms.

3.5 Class recording

- 1) Support platform server recording and terminal hard disk recording;
- 2) Three modes: Single screen, Power mode, and Three screen;
- 3) Support camera tracking mode;
- 4) Support signal stitching recording of 2 channels of SDI and 3 channels of HDMI
- 5) Support remote download of recorded files;
- 6) Support playback of recorded files.

3.6 Intelligent control

- 1) Support remote control of projector;
- 2) Support lifting control of projection screen;
- 3) Support control of light;
- 4) Support remote control of air-conditioning, compatible with all air-conditioning product in the market;
- 5) Support control of integrated teaching machine;

6) Support open, control, and open degree of curtains.

3.7 Fire broadcast

- 1) Support 32-channel fire signal of fire alarm machine;
- 2) IP communication, easy to deploy;
- 3) Extendable to 32 fire alarm machines;
- 4) Support audio fire broadcast and video fire broadcast.

3.8 Remote control of broadcast

- 1) Support 100m remote control;
- 2) Support audio broadcast, video broadcast and fire drill broadcast.

3.9 Priority level

- 1) Priority level could be changed by software;
- 2) Default priority is as follows:

NO	Business	Priority level	Note
1	Fire broadcast	0	Highest level, could interrupt other broadcast
2	A/V broadcast	3	Background broadcast, could continue to play after being interrupted
3	Paging business	1	Business broadcast, could interrupt other business with lower priority level and continue to restore previous business after paging.
4	A/V live	2	Business broadcast, could be interrupted by fire broadcast and paging broadcast, and could restore after being interrupted

5	Interactive class	2	Business broadcast, could be interrupted by fire broadcast and paging broadcast, and could restore after being interrupted
6	Class recording	2	Business broadcast, could be interrupted by fire broadcast and paging broadcast, and could restore after being interrupted

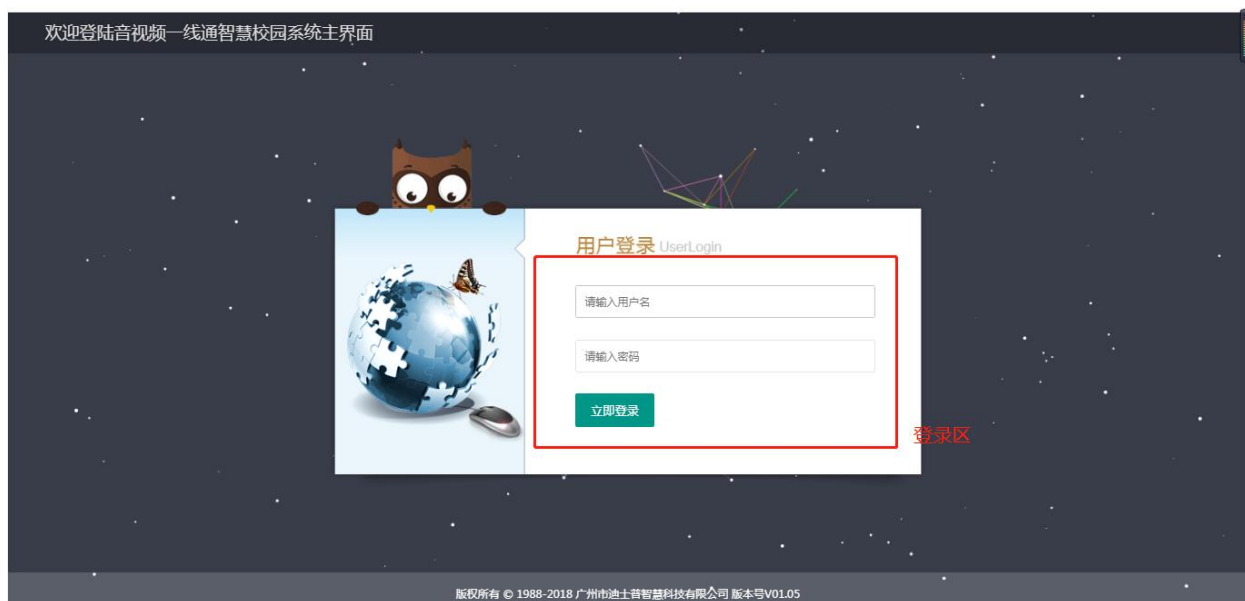
3.10 System log

- 1) Support search by requirements;
- 2) Support export log;
- 3) Longest saving time– half year.

4. Software Operation Instruction

4.1 Login

Open the Browser and input IP address of the host. After entering login interface, as follows:



you need to enter user name and password then click “Log in” to enter main interface.

4.2 Function introduction

Terminal control, task management, resource management, device management, user management, system log, and network settings.

4.2.1 Terminal control

After logging in, you will see the following control interface:



File play

To play audio and video files. Click “File play” and choose classrooms and programs.



Online live

To give live broadcast and interaction among classrooms and to save class videos. Click “Online live” and “Live broadcast” will pop up. You can set up mode (Single screen, Movie, Three screen, Double stream), host recording (Not record and Host record), live time, main classroom and sub-classrooms. (On the left is Not record,

and on the right is Host recording)



Interactive class

To make interaction among classrooms. Click “Interactive class” and you will be able to choose mode (Single screen, Movie, Three screen, Double stream), host recording (Not record and Host record), live time, main classroom and sub-classrooms.



Class recording

To record teaching videos. Click “Class recording” and the window will pop up. You can input subject, time, choose mode (Single screen, Movie, Three screen, Double stream) and set up recorded classroom.



Playback progress

To show playback progress of audio and video.



Select all

To select all devices except offline device. When selected, the border will turn yellow.



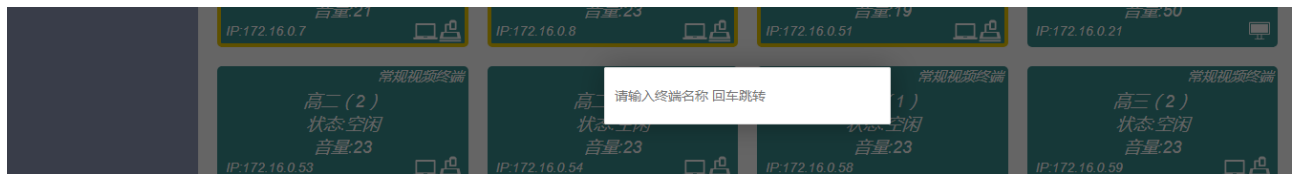
Stop

Select working device and click “Stop” and the device will stop playing. When the device is playing, it is orange. When stop, it is green.



Search

Click “Search” and the window will pop up. Input device name and start searching.



Task Management

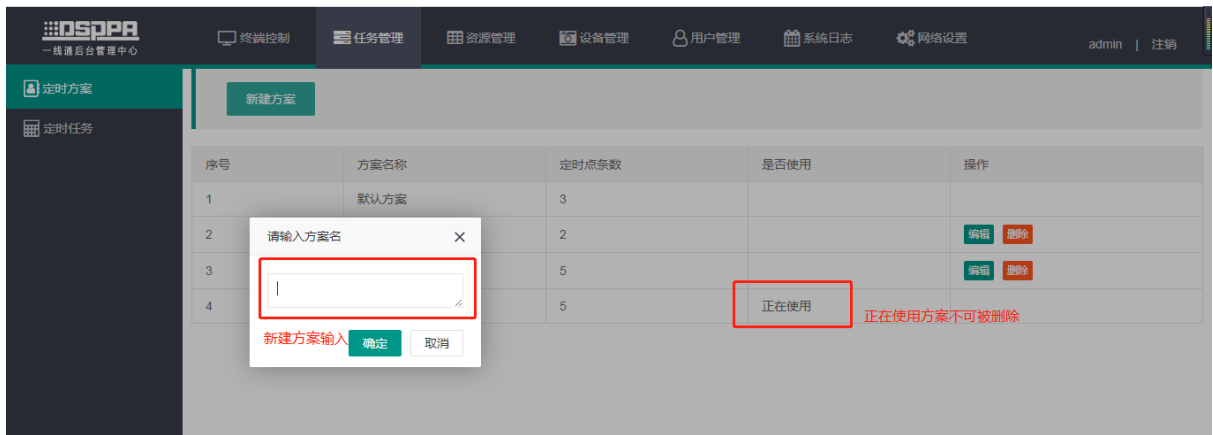
Click “Task Management” to enter the interface.



Timing scheme

To set up time scheme. Click “New scheme” and the window will pop up. Input name to create new scheme. “Modify” is to modify name and “Delete” is to delete name. (Default scheme and scheme that is being used

cannot be deleted.)



Timing task

After choosing scheme, you can set up timing task. Input task name to view its timing point. “Modify” is to modify name and “Delete” is to delete timing point that is not needed.



Click “Create timing point” and the window will pop up. You can set up by inputting timing point period, time, program, partition and play mode.



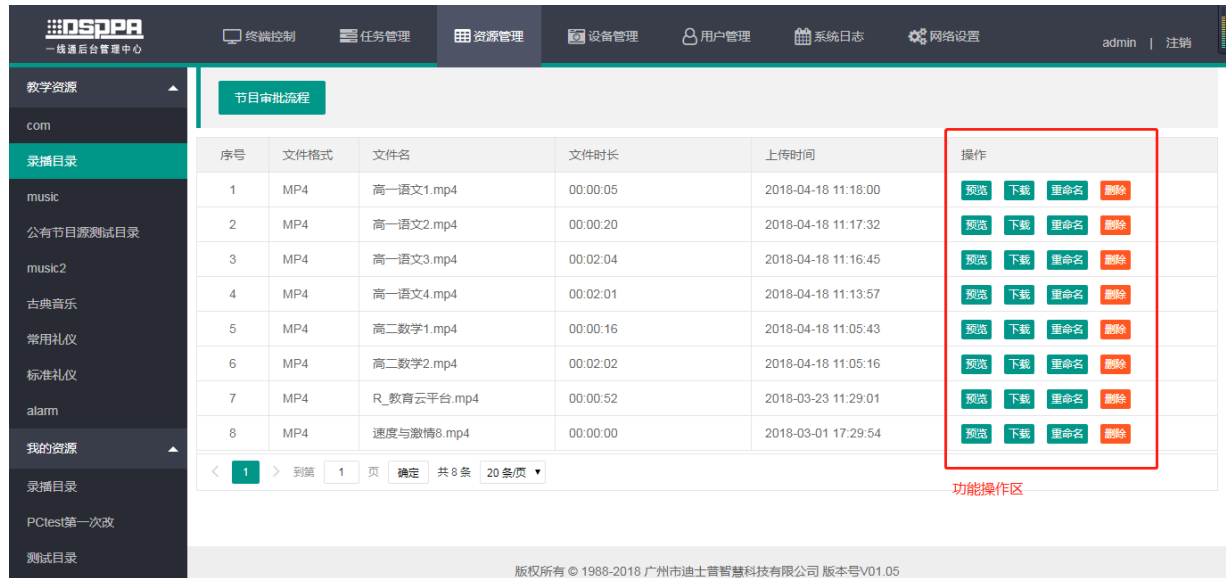
4.2.2 Resource management

Click “Resource management” and you will see the following interface, including Teaching resource and My resource.

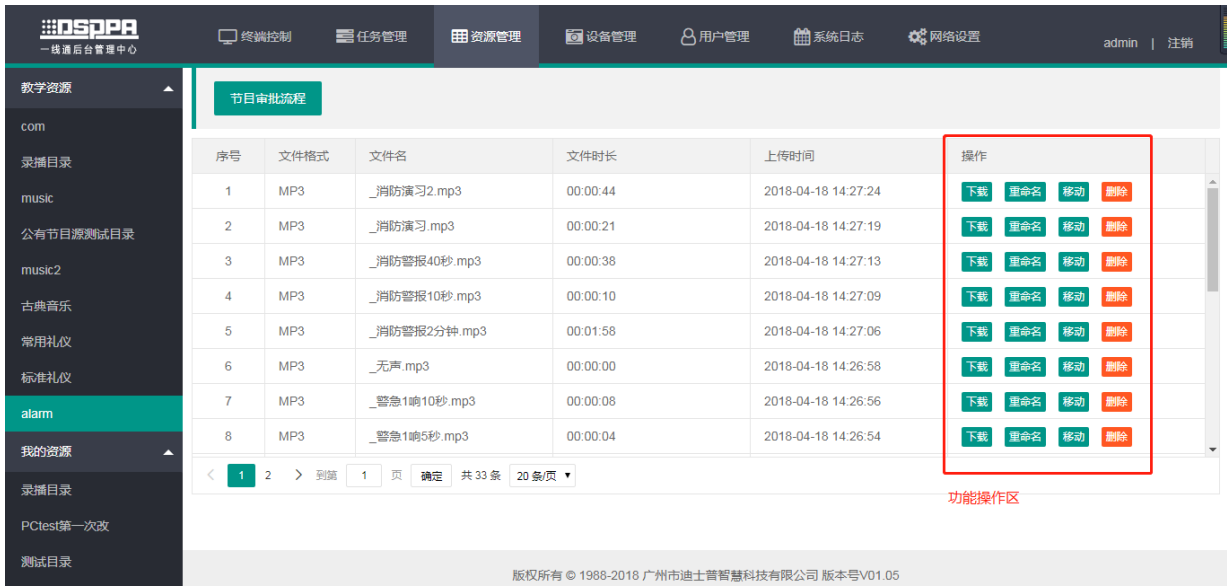


Teaching resource

Mainly are public resources. “Preview” is to preview video. “Download” is to download video. “Rename” is to rename file. “Delete” is to delete this file. (Only recording directory could be previewed but is irremovable).



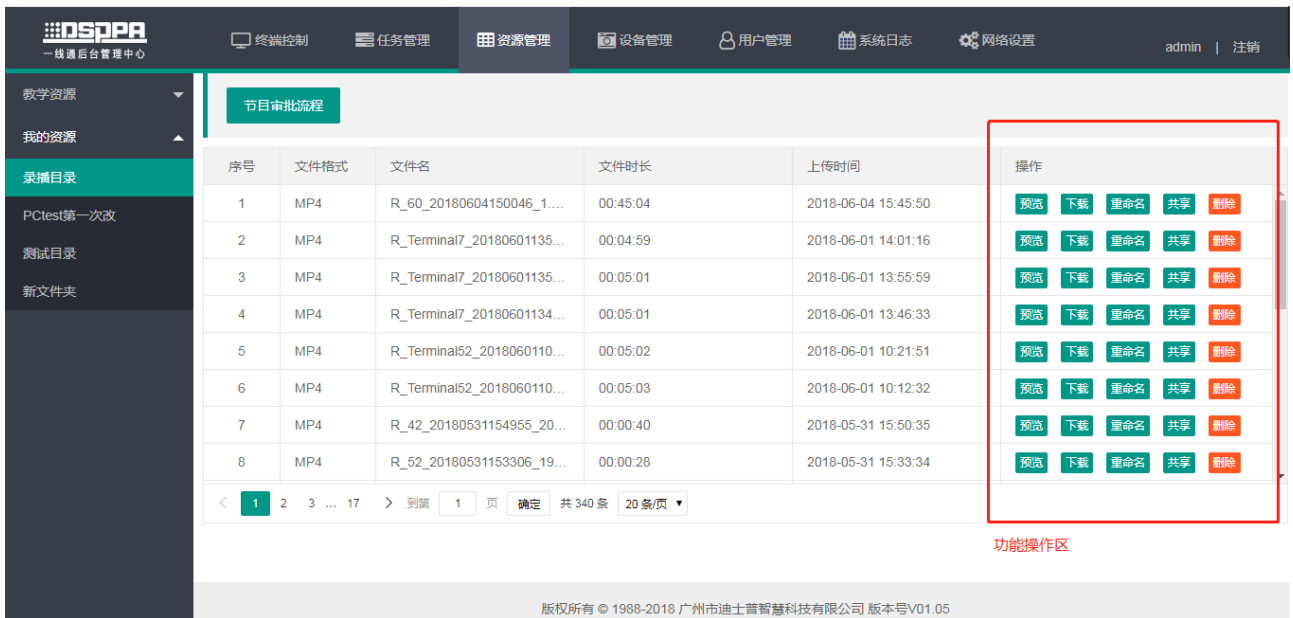
“Download” in other directory is to download the video. “Rename” is to change the name of files. “Move” is to move the video to folder other than recording files in teaching resource.



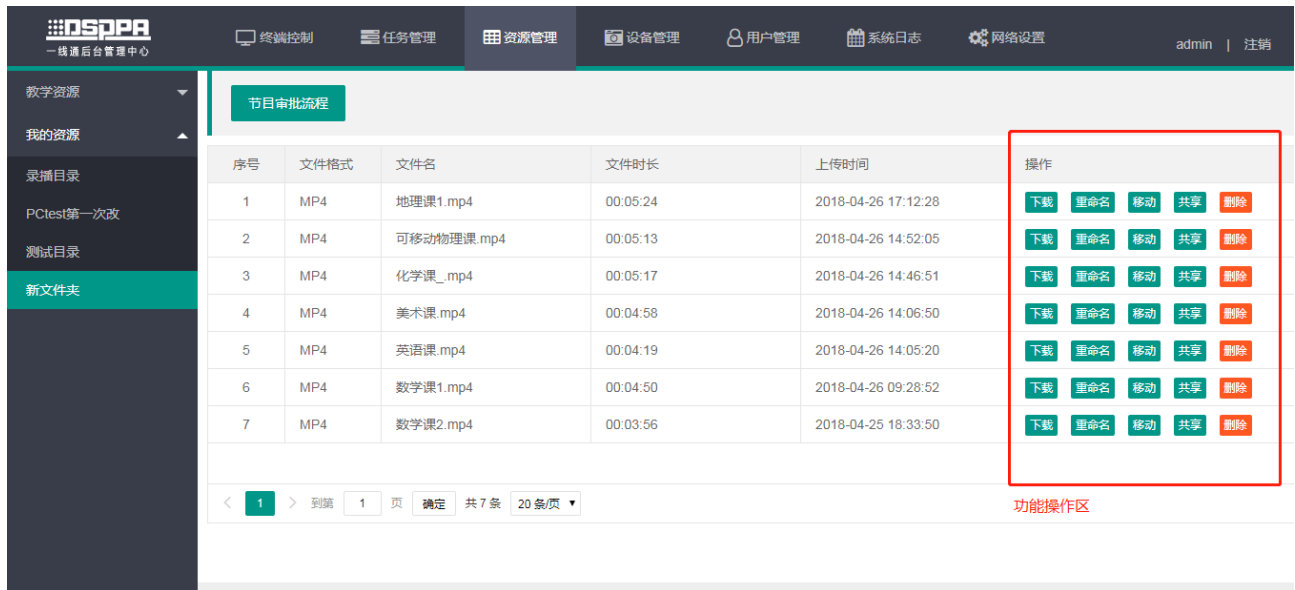
Note: files in recording directory of teaching resource is the ones when there is no user name.

4.3.3 My resource

To view the program source of private account. “Preview” is to preview video. “Download” is to download video. “Rename” is to rename file. “Delete” is to delete this file. “Share” is to share the resource to other folders other than recording directory.



“Download” is to download video. “Rename” is to rename file. “Move” is to move the video to My video folders other than recording directory. “Delete” is to delete this file. “Share” is to share the resource to other folders other than recording directory.



4.3.4 Device management

Click “Device management” to enter the interface. You can sort and rename devices. “Delete” is to delete offline devices.



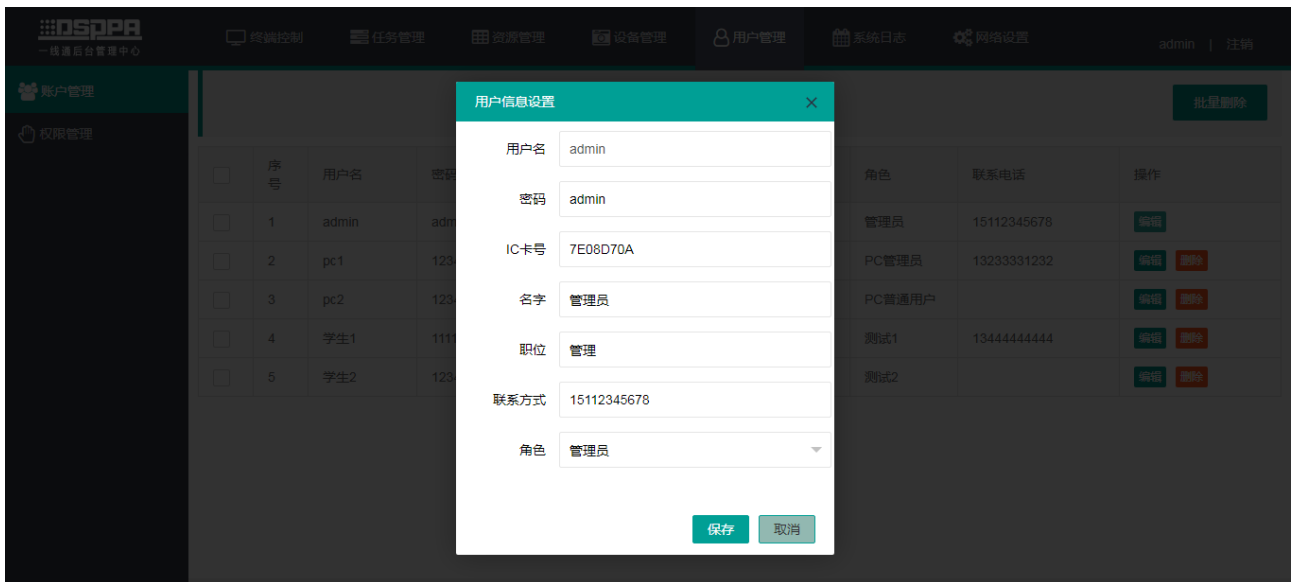
4.3.5 User Management

Click “User management” to enter the interface. You can set up basic information and user access.



Account management

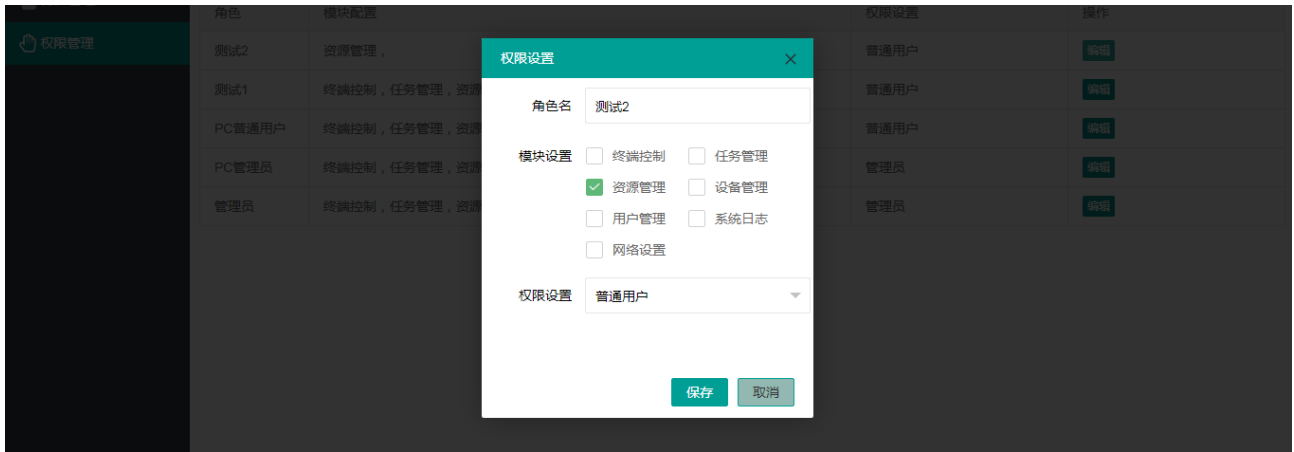
To modify current account. Click “Edit” and the window will pop up. You can change user information. “Delete” is to delete the selected account.



Permission management

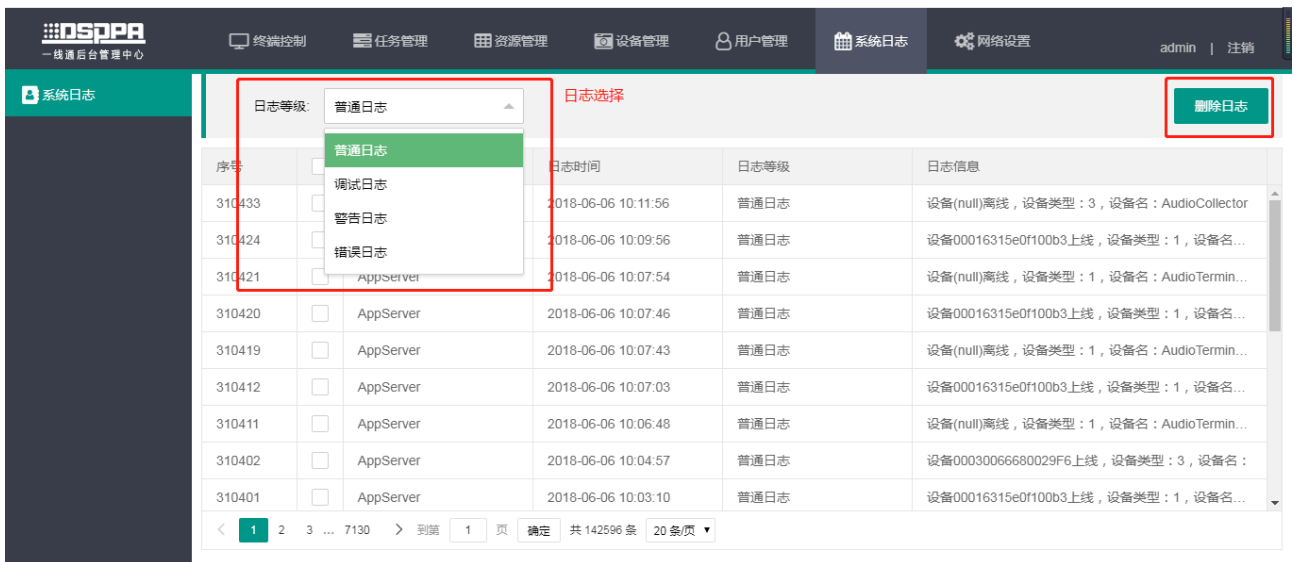
To set up permissions. Click “Edit”. Then you can change character name, module settings and permission settings. Click “delete” to delete selected character. (Only characters that will not be used can be deleted.)





4.3.6 System log

Click “System log” to enter the interface. You can view and delete logs. “Log level” is to view level of logs.



4.3.7 Network settings

Click “Network settings” to enter the interface. You can modify IP address, subnet, and gateway.



Safety Precautions

1. Safety Precautions

- Please do NOT connect this device to the power source, before the system is correctly wired.
- It is important to ensure that input voltage to the device is the same as required voltage of the device, otherwise the device may be damaged.
- There is dangerous voltage in the device, which may cause personal electric shock. Please do NOT open the case without permission, to avoid potential risks of electric shock.
- The device is not completely disconnected from power source when it is switched "OFF". For sake of safety, please disconnect the device from the socket if it is not in use.
- Please do NOT place the device where it is extremely cold or hot.
- Good ventilation must be provided in the working environment of the device, to avoid excessive temperature during its operation, which may cause damages to the device.
- Please unplug the device from power socket in raining and wet days or if the device is not in use for a long time.
- Please disconnect the power plug from sockets, to ensure the device has been completely disconnected from power source, before any component is removed from or re-installed in the device or before any electric connector of the device is disconnected or reconnected.
- In case of any failure of the device, please do NOT open the case and repair without permission from a professional personnel, to avoid accident or additional damages to the device.
- Please do NOT place any corrosive chemicals near or on the device.

2. Matters needing attention

- Our company provides a three-year free warranty service (including free replacement parts) over quality issues as from the date of purchase, provided that the device is installed and used in accordance with requirements specified in the User Manual.
- For warranty, the user must show the Warranty Card and the receipt kept by the user and purchase invoice of the device as supporting documents.
- The following conditions are beyond the scope of warranty:
 1. Product damage due to improper installation, use or handling;
 2. Product damage due to abnormal conditions (such as excessive power source voltage or ambient humidity);
 3. Product damage due to acts of God;
 4. Product SN is changed, altered or removed;
 5. Product has been repaired or modified by any person without duly authorization from our company;
- Please keep the User Manual and Warranty Card in good custody.
- For issues and precautions not mentioned in this User Manual, if required, please contact the distributor or visit our website at <http://www.dsppatech.com>.
- In case of any failure in the warranty period, please contact service personnel (or distributor) of our company for service. The company shall not be made liable for damages due to unauthorized dis-assembly or maintenance or service by unauthorized personnel.

Packing List

No.	List	Quantity
1	DSP9901 Intelligent host	1
2	User manual	1
3	Certificate	1
4	Warranty card	1
5	4*8 countersunk head screw	4

Specification

Note: The performance specifications are subject to changes without further notification.

Operation System	Linux server
Processor	IntelXeon E5-2600V3/V4,15MB cache
Hard disk	2T 7200 RPM SATAIII 3.5 inch Hard disk
Memory	8GB 2400MHz DDR4 ECC memory
Input	RJ45×2, VGA×1, LTP×1
Output	USB2.0×6, RS232×2, VGA×1
Shell material	Anodic oxidation Metal, thickness 1.2mm, SGCC dustproof, Shock absorption, radiation protection
Installation method	Rack-Mount Installation
Color	Black
Dimension (L×H×D mm)	482×177×500MM
Power supply	AC220V 50/60HZ
Power	350W
Weight	16.5KG
Working temperature	-5°C~45°C
Storage temperature	-25°C~65°C
Working humidity	5%~95%
Storage humidity	5%~95%

Caution

- The device is not completely disconnected from power source when it is switched "OFF". For sake of safety, please disconnect the device from the socket if it is not in use.
- Please keep this device off water drops or splash or vase filled with water or any other articles of similar nature.
- Please do NOT remove the cover of the equipment, otherwise you may get an electric shock. Where necessary, repair to the equipment should be conducted by qualified professionals.

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