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2. The names of the products covered in this manual are for identification purposes only and are owned by their manufacturer or brand owner.
Safety Guidelines

1. Before using, please read the Product Instruction carefully;
2. To prevent the body from being damaged or the product being damaged, it is required to turn off the AC power or unplug the AC power cord from the power outlet every time the board is plugged, reassembled, or configured;
3. When moving the product, be sure to unplug the AC power cord from the power outlet;
4. When the product needs to increase / decrease the board, be sure to unplug the AC power;
5. Before connecting or removing any signal lines, please make sure that all power cords have been removed;
6. In order to avoid unnecessary damage to machine from frequent switching, please make sure the 30 seconds waiting time before machine restart.
7. Because some precision devices are sensitive to electrostatic discharge (ESD), upgrades or disassembly and other actions must be completed on the electrostatic discharge table;
8. If there is no electrostatic discharge table, the following methods can be used to reduce the harm caused by ESD;
   ★ Wear an antistatic wrist strap and connect it to the metal part of the corresponding product;
   ★ Touch the metal-back of the product chassis before touching the product part;
   ★ When plugging parts, the body is best to touch the product's metal chassis to release static electricity;
   ★ Avoid unnecessary walking;
   ★ Please only hold the edge when you take the product parts (especially the board);
   ★ Please place the product parts on a grounded, non-electrostatic operational platform. If possible, use a conductive foam cushion (non-component packaging material)
   ★ Do not allow parts to slide on the operating platform.
9. Operate with a Phillips screwdriver, preferably with a strong magnetic screwdriver to avoid the screws left in the chassis. It is important to be careful not to leave the tool or part in the chassis;
10. Please ensure the system’s ventilation and heat dissipation.
Packing List

Thank you for purchasing a video recording machine! Before using the product, please carefully check and confirm if the product packaging and accessories are complete and intact. If you find any abnormality, please contact your dealer in time.

<table>
<thead>
<tr>
<th>No.</th>
<th>Product Name</th>
<th>Model</th>
<th>Quality</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>R8 recording &amp; broadcasting host</td>
<td>R8-042HR</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>Student panorama machine</td>
<td>JC200</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>Binocular PTZ tracking machine</td>
<td>JC100</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>Omnidirectional pickup</td>
<td>MC100</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>Pickup audio cable</td>
<td>5 Meters</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>75-5 video cable</td>
<td>70 Meters</td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>Serial line</td>
<td>30 Meters</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>75-5 head</td>
<td></td>
<td>7</td>
</tr>
<tr>
<td>9</td>
<td>4PIN Phoenix terminal</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>10</td>
<td>9PIN Phoenix terminal</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>11</td>
<td>Power Adapter</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>12</td>
<td>User Manual</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>13</td>
<td>Driver Disk</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>14</td>
<td>Wireless card antenna</td>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>

The above accessories are for reference only. The actual specification shall prevail in kind and the Company reserves the right to modify it.
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Chapter 1  Product Introduction

Brief Introduction

R8 series of high-performance professional recording and broadcasting host is an OPS high-definition modular recording and broadcasting machine. Based on the original OPS function, the recording and broadcasting module adopts 2 IN 1 architecture design and combines with the highly integrated audio and video acquisition, coding, recording storage, automatic tracking, live, direct broadcasting and on-demand function, which is suitable for network centralized management with high performance and lower power consumption. It can integrate and control the multimedia central controller, mixer, control panel, guide console and other major classroom equipment. Support the "resource mode" and "video effects mode" for synchronous real-time recording; support MP4, TS and other standard video streaming media format storage; support live, network on-demand, scheduled recording, timer switch, centralized management. And it can integrate large screen to achieve one-key recording and broadcasting, delay recording and broadcasting, working status instructions, dual-screen recording and other humanized application design requirements.

Host Specifications Introduction

Processor ( CPU)
- Support Intel® LGA1151 interface processor, power consumption 65W

Chipset
- Adopt the Intel® H110/Q170 chipset (optional)

System memory
- Onboard two 204pin DDR4 SO-DIMM slots, the maximum memory capacity can be extended to 16GB

Expansion Bus Slot
- Onboard 80pin OPS test board slot
- Onboard 40pin expansion slot, can connect an external USB, COM, HDMI devices
Graphics Card

- Intel built-in HD high-speed graphics processor
- Support HD 1080P MPEG2, H264 and VC1 full hardware decoding capabilities
- Support maximum resolution: 4096 × 2160

Onboard Network Card

- Onboard two Gigabit Ethernet controller interfaces
- Onboard a wireless card module

HDD

- 1 X 1TB recording and broadcasting storage hard drive
- 1 X M.2 port

USB Output Interface

- 2 USB3.0 standard output interface
- 2 USB2.0 standard output interface

Onboard Voice Card

- Encoding and decoding support 5.1-channel high-fidelity sound

IO backplane

- 1 X HDMI IN recording and broadcasting card input interface,
- 1 X HDMI OUT PC output connector
- 2 x RJ45 interface
- 2 X USB2.0 interface, can be backward compatible with USB1.1
- 2 X USB3.0 interface, can be backward compatible with USB1.1 / USB2.0
- 2 X audio interface (Mic in + Line out)
• 1 X RESET button

• 1 X computer work indicator light

• 1 X recording and broadcasting light

• 1 X 4PIN Phoenix terminal, connect the pick-up

• 1 X 9PIN Phoenix terminal, connect the tracking camera

• 3 X SDI

• 2 X WiFi Antenna Interface

**BIOS Features and IO Control Chip**

• Using AMI BIOS, support advanced power management; real-time monitoring to CPU temperature, fan, speed and system voltage

• Using IT8786 IO chip

**Power Supply**

• Support input power DC 12V-19V, support 65W and above power consumption
Performance of the Machine

Environment and size

- Dimension: 195mm*180mm*42mm
- Operating temperature: -10~45°C
- Relative humidity: 5%~95% No frosting
- Storage temperature: -20°C~70°C

Ventilation and cooling

- Using double roller fan cooling

Electromagnetic compatibility

- Radio disturbance limits comply with GB9254-1998 standard A level
- The immunity complies with the limits of GB / T 17618-1998

Reliability

- Average trouble-free working hours: MTBF≥5000h
- Average maintenance time: MTTR≤0.5h

Safety

- Meet the basic requirements of GB4943

Environmental requirements

- Climate and environment adaptability

  In line with the requirements of level 2 in 4.8.1 of GB / T9813

- Mechanical environment adaptability

  Anti-vibration: 5-19Hz / 1.0mm amplitude; 19-200Hz / 1.5g acceleration.
  Impact resistance: 15g Acceleration, 11ms cycle.
Transportation and Storage Requirements

※ Transportation:
Packaged products can be transported to any location by any means of transport. They can not be packed in open spaces and compartments during long distance transport. They can not be stored in open storage at midway and are not allowed to be flammable and explosive during transport. Corrosive items are shipped with the vehicle (or other means of transport) and the product is not allowed to withstand rain, snow or liquid substances and mechanical damage.

※ Storage:
The product should be stored in the original box, the storage of the product storage environment temperature of 0 °C ~ 40 °C, relative humidity of 20% to 85%. Warehouse does not allow a variety of harmful gases, flammable, explosive products and Corrosive chemicals, and no strong mechanical vibration, shock and strong magnetic field effect. The box shall be at least 10 cm from the ground and at least 50 cm from the wall, heat source, cold source, window or air inlet.
Chapter 2  Introduce of machine Appearance

Product Appearance

Front Panel Appearance

IO Backplane Appearance
Chapter 3  Device Installation

Hardware Requirements of Machine Host

The recording and broadcasting machine host supports the minimum configuration of 10/100 / 1000Mbps network card, Windows7 / 8/10 / vista and the latest version of Service pack, IE 10.0 or above

Machine Installation Description

The R8-042HR plug-in recording and broadcasting host at the interactive flat panel display interface at the vertical insert, pay attention to the interface orientation. Please video signal SDI line, audio signal lines, etc. access to the appropriate interface, and do the corresponding audio and video ring out of the connection. Specific function interface connection device described below:
<table>
<thead>
<tr>
<th>No.</th>
<th>Interface Specification</th>
<th>Connection instructions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>40 pin expansion slot</td>
<td>Connected to the recording 40pin tail board</td>
</tr>
<tr>
<td>2</td>
<td>80pin test board interface</td>
<td>Connect the motherboard 80pin daughter card</td>
</tr>
<tr>
<td>3</td>
<td>Power adapter interface</td>
<td>Connect the power adapter to support power input 12V / 19V, power consumption 65W and above</td>
</tr>
<tr>
<td>4</td>
<td>USB2.0 Interface</td>
<td>USB2.0 interface can be backward compatible with USB1.1, you can connect USB mouse, keyboard, U disk and other mobile devices</td>
</tr>
<tr>
<td>5</td>
<td>USB3.0 Interface</td>
<td>USB2.0 interface can be backward compatible with USB2.0 / 1.1, you can connect USB mouse, keyboard, U disk and other mobile devices</td>
</tr>
<tr>
<td>6</td>
<td>Computer HDMI output display interface</td>
<td>Connect to the HDMI display output connector via HDMI cable</td>
</tr>
<tr>
<td>7</td>
<td>Recording &amp; Broadcasting card HDMI input display interface</td>
<td>Connect to the SD card input via HDMI cable</td>
</tr>
<tr>
<td>8</td>
<td>network port</td>
<td>Connect the network crystal chuck to this network port</td>
</tr>
<tr>
<td>9</td>
<td>Audio output interface</td>
<td>Can access the sound, headset equipment</td>
</tr>
<tr>
<td>10</td>
<td>Audio input interface</td>
<td>Can access the microphone device</td>
</tr>
<tr>
<td>11</td>
<td>9pin Phoenix terminal interface</td>
<td>Through the 30-meter serial data cable connected to the tracking camera serial port (R232)</td>
</tr>
<tr>
<td>12</td>
<td>4pin Phoenix terminal interface</td>
<td>Connect to the pickup interface via a 5 meter audio cable. Please connect from the screen 12V pin.</td>
</tr>
<tr>
<td>13</td>
<td>Reset button</td>
<td>Restart the computer system</td>
</tr>
<tr>
<td>14</td>
<td>Recording&amp;Broadcasting light</td>
<td>Green is on: the recording is starting; the indicator is off: the recording is off</td>
</tr>
<tr>
<td>15</td>
<td>Computer working indicator light</td>
<td>Indicator light is red, the computer is in the working state; indicator light off: the computer is turned off</td>
</tr>
<tr>
<td>16</td>
<td>SDI-1</td>
<td>Connect the SDI video signal cable to the analysis camera interface of the teacher tracking camera</td>
</tr>
<tr>
<td>17</td>
<td>SDI-2</td>
<td>Connect to the tracking camera interface of the teacher tracking camera via the SDI video signal cable</td>
</tr>
<tr>
<td>18</td>
<td>SDI-3</td>
<td>Through the SDI video signal cable connected to the student one (shooting) camera interface</td>
</tr>
<tr>
<td>19</td>
<td>Antenna interface</td>
<td>Connect the wireless network antenna to this connector</td>
</tr>
</tbody>
</table>

**9pin Phoenix terminal interface, 4pin Phoenix terminal interface, SDI interface installation connection:**

1. 4pin connection between Phoenix terminal and pickup:

![Audio signal cable connector](image1)

1. connect with 3

![Pickup](image2)

1. and 4

![4pin terminal interface](image3)

2. and 4
2. 9pin terminal interface and teacher tracking camera serial port connection:

3. SDI interface: Student tracking camera, teacher tracking camera and host SDI connector on the SDI connector specifications are the same, SDI video signal line connector at both ends of the same specifications, so the connector 1, 2 and SDI connector can be any match.

SDI interface in student camera

Rotation, connection is complete

SDI interface in teacher tracking

Rotation, connection is complete

SDI interface in host

Rotation, connection is complete

Video signal connector
Chapter 4  System Login

System Login

Related software application and management functions have been built into the recording and broadcasting module, directly log recording and broadcasting system can be equipment management and guidance control. Recording and broadcasting module using B / S remote network management mode. The login information is as follows:

• Record the initial module IP: 192.168.1.10, administrator account: admin, the initial password: admin.

• When recording and broadcasting system is used for the first time, the management computer should be in the same network as the recording and broadcasting module. Please set the same 192.168.1.10 network segment as the initial IP of the recording and broadcasting system. Otherwise, it may not be connected to the recording and broadcasting system.

• Start the recording and broadcasting host, open the browser (support the use of IE browser), in the address bar enter the recording and broadcasting system IP address (http://192.168.1.10), you can appear the following login interface, enter the initial account admin and Initial password admin login recording system.
Chapter 5  Remote pilot system control

After successfully landing recording and broadcasting system, the first appears is the remote guide interface, as follows:

Remote guidance system window function introduction

- **Record button**: Click the recording button to start recording; when you pause recording, click this button. Gray is not open for recording, red for already recorded.
- **Recording mode**: The recording mode has "Movie mode" and "Movie + resource", the option bottom blue is enabled, white means not enabled.
- **Guide to the strategy**: Guide to the manual control and automatic control options.
  1. Automatic control mode: white bottom frame is not enabled, blue bottom frame is enabled. When the automatic control mode is enabled, the recording and broadcasting system enters the automatic shooting function without human intervention.
  2. Manual control mode: white bottom frame is not enabled, blue bottom frame is enabled. When the manual control mode is enabled, the recording and broadcasting system enters the manual guidance control mode. As shown below:
Note: The control function of this control window is only valid for the current video screen control.

1) The screen moves: the screen moves up and down.
2) Speed: Picture movement speed setting. Pull the scroll bar to the left, indicating that the picture is getting slower and slower, and the right pulls the picture faster and faster.
3) Zoom: Zoom in and out. The left to set the zoom, the right to enlarge the settings.
4) Preset: Each camera can be set to six preset positions, click to select the corresponding camera window, select the preset number, click "1,2,3,4,5,6" to set the preset. The light gray box is not enabled; the dark gray box is enabled.
5) Layout: In the layout window can be set for the video screen layout, including two-screen, three-screen, picture-in-picture and other layout mode. The system temporarily provides four fixed layout mode; light gray box is not enabled; dark gray box is enabled.

- **System time**: Displays the current recording and broadcasting host system time.
- **Disk Information**: Displays the total capacity and available capacity of the current recording and receiving host's hard disk.
- **Guide system application settings key**: Click this button to enter the guidance system application related settings.
- **Guide the main screen to switch**: guide the main screen with computers, teachers, students, teachers, four panorama picture. To switch the screen, please do the following: first want to switch the screen left click to select, and then double-click, the screen appears orange border, it means that has switched to this screen. As shown below:
Chapter 6  System Configuration

Basic Configuration

In the basic configuration, you can view the version information and set the network and system.

• Version Information: Version information includes basic information and software upgrades.
1. Basic information: basic information, you can understand the recording and broadcasting product model, recording and broadcasting system version, recording and broadcasting server version, play plug-in version, IP address, MAC address.

2. Software upgrade: In the software upgrade, you can upgrade the server version and system version.

**Update steps:**
(1) Click the "Browse" button to find the server file to be upgraded;
(2) Click the upload button, upload is complete, click the upgrade button;
(3) Pop-up "upgrade is complete" that the software upgrade is successful.
(4) The System Upgrade step is the same as the Server Upgrade.

• **Network Setting**: In the network parameter, you can set the network address, subnet mask, gateway address and network setting (MAC address) of the recording and broadcasting host. After setting, click OK to take effect.
• **System configuration:** The system configuration includes system time setting, power-on mode selection and system setup.

1) **system time:** click button. You can set the recording start date and time, select the date after the click on the date, it will pop up time selection, select the right date and time, click OK; click "sync local time" set recording and recording system time and recording and broadcasting host System time synchronization.

2) **Power-up mode:** Power-on mode can be set to boot mode and shutdown mode. Set the boot mode, said the recording and broadcasting host connected to the power, boot operation; set shutdown mode, the recording and broadcasting host power, still in the shutdown state, you need to press the host on the boot button.

3) **System settings:** Set the recording and broadcasting system shutdown and restart function. Set off, turn off the recording and broadcasting system; set the restart, restart the recording and broadcasting system. When using the system settings shutdown function to close the recording and broadcasting system, re-login recording and recording system through the recording and control application software boot function to open the recording and broadcasting system, or log the recording and broadcasting system. As shown below:
Advanced Configuration

Advanced configuration includes Aisle settings, Tracking settings, Video recording settings, subtitle and logo, class information, Title and Trailer.

- **Aisle settings:** the recording and broadcasting module support four aisles. Computer, teacher, student, teacher panorama, student panorama and blackboard can be switched between aisle one, aisle two, aisle three and aisle four.

1) Special effect: You can set the effect of the video screen cut, including left to right, right to left, down to the top, top to bottom, left to right, left to right, right lower left, upper right to lower left, fade, Kind of special effects, select "no", no special effects.

- **Tracking settings:** Tracking mode enabled and related tracking settings, tracking function with the tracking device to complete the camera.

1) Power on: Selectable features are automatically enabled, policy tracing, not enabled.
2) Camera model: Show the camera model about the tracking function.
3) Close-up Size: Adjust the size of the close-up screen area.
4) Default location: Tracking camera can be 360 degrees tracking, you can shoot to different areas of the screen. The default position is to set the default tracking camera screen position, adjust the position, the camera tracking webcam will also change the direction of tracking.
5) The close up size and default location can change the settings. As follows:
A. Close-up size setting: For the close-up to the screen and set the size of the close-up screen area, you can set the size of the close-up screen area according to your own needs;

B. Call the close-up position: If you have set the size of the close-up screen area, even if you use the upper and lower left and right to move the screen, click on the "call close-up position" can immediately return to the previously set close-up screen area location.

C. Default location setting: means that you can set the location of the camera to track.

D. Call the default location: If you have set the tracking camera area, even if you use the up and down left and right to move the screen, click "call the default location" can immediately return to the previous set the default camera area.

E. Focus: This icon is an enlarged screen function. This icon is a reduced screen function.

6) Detection settings: Click "Settings" to preview the close-up position, close-up screen size, the default tracking camera screen position effect screen.
- Video recording Setting: The video recording setting is to set the parameters such as rate, frame rate, resolution, recording file format, file name and other parameters of the video screen of each channel. Each channel can be generated separately for independent video data, and four channels together produce video for "movie" format.
• **Subtitles and logo**: Including subtitle parameter settings and logo parameter settings.

1) Subtitle parameter settings: You can enter the subtitle text content, and set the font, size and color of the subtitle content.
   A. Text: You can enter the text in the text box that you want to render on the video screen.
   B. Font: you can set your favorite fonts, Arial, Regular scripts , Founder, black letter four fonts for choice.
   C. Size: You can set the size of the subtitle font. Optional 9,10,11,12,13,14.
   D. Color: You can set the subtitle content text color. Options are white, black, red, green, blue.

2) The logo parameter settings: You can set the LOGO displayed on the recording and playback video screen.
   A. The logo support the PNG format picture.
   B. The logo position can be set according to X \ Y coordinates, X coordinate range 0-1920, Y coordinate range 0-1080.
   C. The added logo can not exceed the video display range, or can not display the logo.
   D. Click "Browse" to add the logo that meets the requirements of the recording and broadcasting module, set the width (W) and height (H) of the logo picture according to the requirement, adjust to the appropriate size.
- Class information: Set the relevant information in the course, enter the information you want to set in the blank space below, and click Save to complete the setting.

- Title and Trailer: The title and the trailer display setting, including the titles, the trailer, and the titles of the titles. Note: The titles of the titles are only supported in 24-bit or 32-bit bmp format, and the duration is displayed in seconds.
- Content management: File management functions.

1) File management: The "File management" module is used to manage recorded video files, including file search, file information query, file download and delete, file playback.

A: File information query: You can view the name, file type, recording time, and file length of the recorded video file.

B: File download: Click the "Download" button on the right side of the corresponding video file to enter the download window, select the file to download, customize the download path, click "OK" to complete the download, click "Cancel" to cancel the download operation.

C: File delete: Click the "Delete" button on the right side of the corresponding video file. The Delete dialog box will pop up, select the file you want to delete, click "Delete" to delete the file. Click "Cancel" to cancel the deletion.

D: File playback: Click the "play" button on the right side of the corresponding video, you can play back the video file in the main window, you can also see the video playback related information, such as creation time, file length, file rate, video encoding, video resolution, , Audio coding, audio sampling, audio channels and other information.
• **User management:** The "User Management" module is used to add and remove users, password modification, user type and privilege settings. You can query the user status, online user information, and offline user information in the module window. The function window is shown below:

I. **Username:** The username is a combination of letters, numbers, or alphanumeric characters.

II. **User priority:** Select the user type, admin / users / visitors. Administrators can disable normal users / visitors.

III. **Online user details:** Click "View" to view the online user's client system, client platform and client IP information.

IV. **Change passwords:** Click "Change passwords" to change the passwords. Enter the user password modification interface, enter the original login password then enter the new passwords and confirm the new passwords, click "OK" to complete the passwords modification.

V. **Add User:** Click “Add users”, the follow interface will pop up:

According to the above operation interface, one by one operation, enter the username, login password, reconfirm the password, user type(according to the demand, the user type to choose from: administrators, ordinary users, visitors), click OK to complete the action.

VI. **Delete user:** Click “delete user” then you can delete the user which you want.
### Appendix: A List of Product Toxic Substances or Elements

根据中华人民共和国信息产业部发布的《电子信息产品污染控制管理办法》所展开的 SJ/T 11364-2006 标准要求，本产品污染控制标识以及有毒有害物质或元素标识说明如下：

产品有毒有害物质或元素标识：

<table>
<thead>
<tr>
<th>部件名称</th>
<th>有毒有害物质或元素</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>铅(Pb)</td>
</tr>
<tr>
<td>PCB板</td>
<td>X</td>
</tr>
<tr>
<td>结构件</td>
<td>O</td>
</tr>
<tr>
<td>芯片</td>
<td>O</td>
</tr>
<tr>
<td>连接器</td>
<td>O</td>
</tr>
<tr>
<td>被动电子元器件</td>
<td>O</td>
</tr>
<tr>
<td>焊接金属</td>
<td>O</td>
</tr>
<tr>
<td>线材</td>
<td>X</td>
</tr>
<tr>
<td>助焊剂、散热膏、标签以及其他耗材</td>
<td>O</td>
</tr>
</tbody>
</table>

○：表示该有毒有害物质在该部件所有均质材料中的含量均在 SJ/T 11363-2006 标准规定的限量要求以下。
X：表示该有毒有害物质至少在该部件的某一均质材料中的含量超出 SJ/T 11363-2006 标准规定的限量要求。
备注：×位置的铅的含量超出 ST/T11363-2006 标准规定的限量要求，但符合欧盟RoHS指令的豁免条款。