



REACH Media Master

CL4000 (Beyonsys™)

User Manual

V2.1
2012-01

Shenzhen Reach IT Co., Ltd provides full technical supports for the customers. If you have any inquiries, please contact the local Reach office or directly contact the headquarters of the company.

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Note:

This user manual is compiled to ensure easy installation and configuration of the product. Please read this manual carefully before using the product, so that you can make

best use of all its functions.

This manual is subject to update from time to time without prior notice. If you come across any problem that cannot be solved according to the manual, please contact Reach for solutions. Thank you.

FCC Notice

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct

The interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help
-

This device complies with Part 15 of FCC Rules.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Note: "Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment."

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Chapter 1 Overview

As new generation visual information recorder and propagation equipment, REACH CL4000 Series Media Master is developed by Shenzhen Reach IT Co., Ltd. for recording and streaming meetings for large and medium-sized organizations. Its modular design allows up to 4 modules to be put into the unit. It supports the recording, live streaming and VOD of 4 ways visual signals in free combinations. There are optional SD module, VGA module, HD DVI module, HD SDI module, decoding module for users to configure flexibly according to their needs. Different modules support different signal inputs. These signals include SD video signals (such as composite video), VGA, HD video signals (such as aberration, DVI, HDMI and HD-SDI) and one-way audio signal. The structure of CL4000 is 1U and 19-inch, which is applicable for engineering use. As a highly flexible recording and streaming platform, CL4000 is configurable, expandable and movable, satisfying the needs for recording and streaming the visual information in meeting, training and teaching of large and medium-sized organizations.

The Beyondsystm platform supports multiple operating systems (such as Windows OS and Mac OS) and multiple browsers (such as Internet Explorer, Safari and Chrome). Adopted the play buffer mode, it is applicable for WAN, supporting synchronous recording, live streaming and VOD of up to 3 pictures, as well as image index and server based editing.

The Powolive™ platform supports Recplayer, 1080p@60Hz video, and synchronous recording, live streaming and VOD of up to 4 pictures. The live streaming delay is less than 0.5s and is applicable for WAN.

This manual introduces the CL4000 series using Beyondsystm platform. For better explanation, two-way HD and one-way VGA are adopted as the typical configuration.



Fig. Product appearance

Chapter 2 Installation

2.1 Product Introduction

2.2.1 Product front view

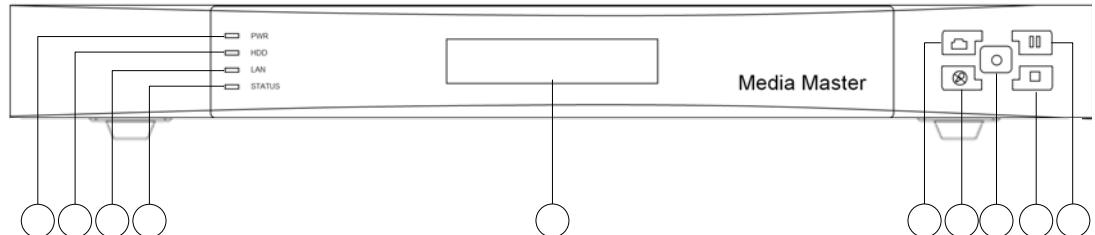


Fig. Product front view

1. Power LED
2. Hard disk LED
3. Network LED
4. Status LED
5. LCD
6. Camera button
7. Mute button
8. Start recording button
9. Pause button
10. Stop recording button

2.2.2 Back view of the basic system

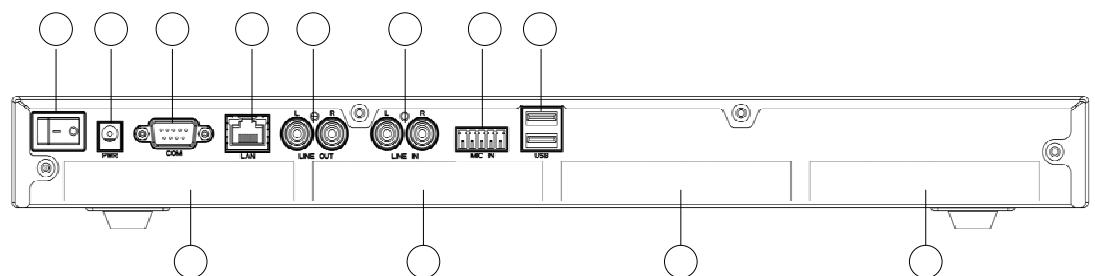
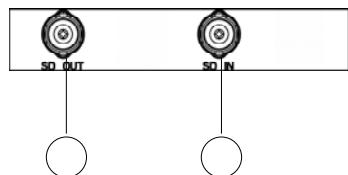


Fig. Back view of the basic system

1. Power switch	8. 2 USB ports
2. Power in	9. Interface position of Module 1
3. RS232 serial port	10. Interface position of Module 2
4. Network interface	11. Interface position of Module 3
5. Line in	12. Interface position of Module 4
6. Line out	
7. MIC in	

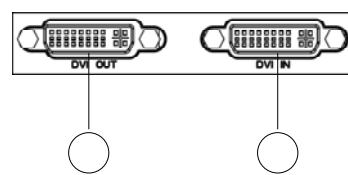
2.2.3 Back view of the interface modules

SD module



Back view of SD module

DVI module

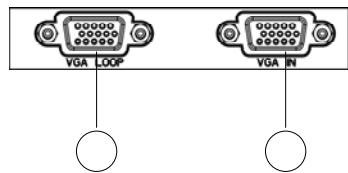


Back view of DVI module

1. Composite video loop out BNC
2. Composite video input BNC

1. DVI loop out port
2. DVI input port

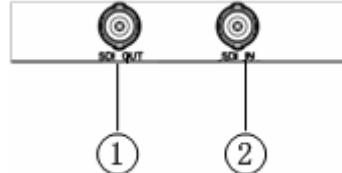
VGA module



Back view of VGA module

1. VGA loop out port
2. VGA input port

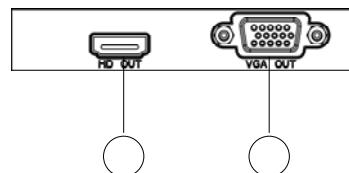
HD SDI module



Back view of HD SDI module

1. HD-SDI loop out port
2. HD-SDI input port

Decoding module



Back view of decoding module

1. HDMI output port
2. VGA output port

2.2 Connection Cable

1. Put the device at the flat position.
2. Connect the SD video source, HD video source or computer signal source to the corresponding module input ports with the corresponding video cables according to the actual modular configuration of the device. To loop out the signals, connect the device loop out port to the display equipment or matrix with the corresponding video cables.
3. Connect the audio source to the audio input port Line In with the stereo audio cable. If there is microphone input, connect the microphone cable to the port Mic In.
4. To control the camera PTZ, connect the camera PTZ control port with the device serial port with the serial port cable.
5. Connect the network cable to the device's network port, so that the device will be connected to the network planned by the network administrator.
6. Connect the power of adaptor to the power interface and plug the adaptor to the power socket.

Chapter 3 Start Guide

3.1 Startup and Shutdown

Before starting the system, please make sure that the cables are properly connected, and then turn on the power switch on the rear panel of the device. The power LED of the device will be constantly on after the startup. The hard disk LED will continually flash fast until the system is started.

To protect the hard disk and prevent data loss, before shutting down, please make sure that the device has stopped recording and the parameters have been stored, and then turn off the power switch on the rear panel of the device.

3.2 LCD Panel

After the startup, some information about the device's status will be displayed on the LCD panel, such as operating status, device model, IP address, subnet mask, gateway, etc.. The device model will be displayed as "CL4000xxxxxx", and the IP address, subnet mask and gateway will be displayed in turn as "xxx.xxx.xxx.xxx".

3.3 Buttons on the Front Panel

The users can use the buttons on the front panel to control the quick record, after the device runs normally. The button's LED indicates the current operating status of the device.

Mute button: The LED is off by default. It will be on after the button is pressed, indicating that the sound is disabled during live streaming. Press it again, the LED will be off and the system will recover to the normal live streaming.

Start recording button: The LED is off by default. When it is in stop record or pause mode, the LED will be on and the system will start to record after this button is pressed. Meanwhile, the Stop Recording LED or Pause LED will be off. It will start to record all the audio, video and computer screen signals connected with the device.

Stop recording button: The LED is on by default. When it is in recording mode, the system will stop recording and the Stop Recording LED will be on after this button is pressed. Meanwhile, the Start Recording LED will be off.

Pause button: The LED is off by default. When it is in recording mode, the system will pause recording and the Pause LED will be on after this button is pressed. Meanwhile, the Start Recording LED or Pause LED will be off. Press the "Start Recording" button to recover to the recording mode.

Camera button: Not available yet.

3.4 Network

Set the network parameters properly according to the requirements of the network administrator, making sure that the control computer can fully access the device through network.

Enter the IP address of the device in the IE browser, and then press Enter key to visit
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the Web interface.



Fig. Login interface

The user name and default password of the super administrator are both “admin”. The administrator can set the user name and password for the common users. Please refer to the user setting section for detailed information.

After logging on as the super administrator, you will see the following interface.

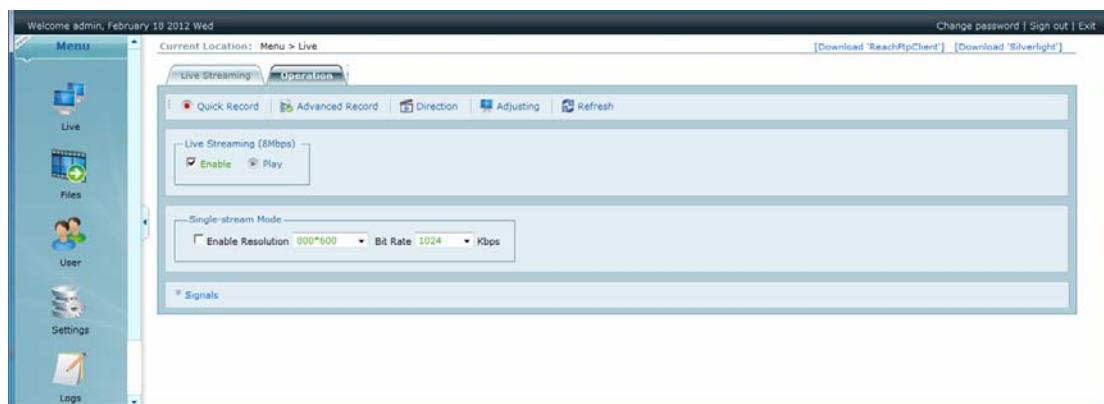


Fig. Interface after logging on as the administrator

The input information of the device is hidden by default. You may click “Signals” to view it.



Fig. Device input information management

After logging on as the common user, you will see the following interface.

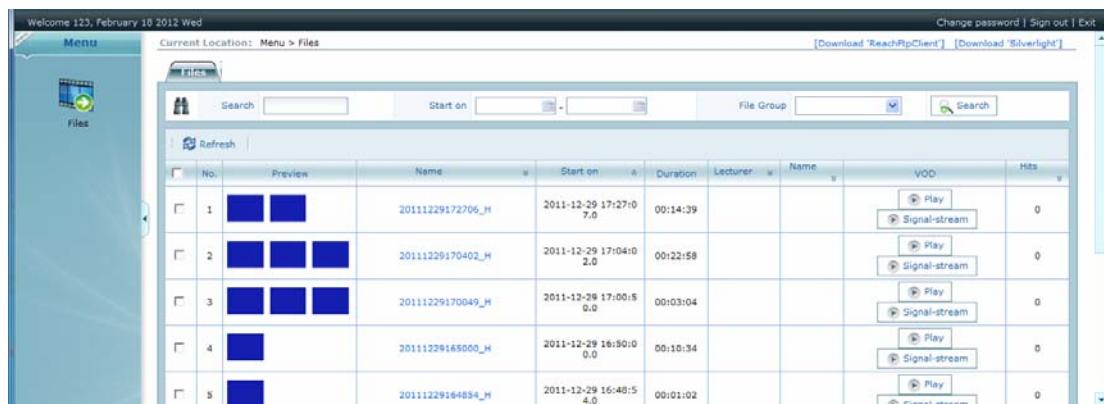


Fig. Interface after logging on as the common user

3.5 Install and Download Plug-ins

For easy downloading the recorded multimedia documents in the future, you may click the link of “Download ReachFtpClient” when first logging on to download and install the ReachDownload tool, and then click the link of “Download Silverlight” to download Microsoft Silverlight plug-in. You may also download the latest version of Silverlight plug-in from the Microsoft official website.

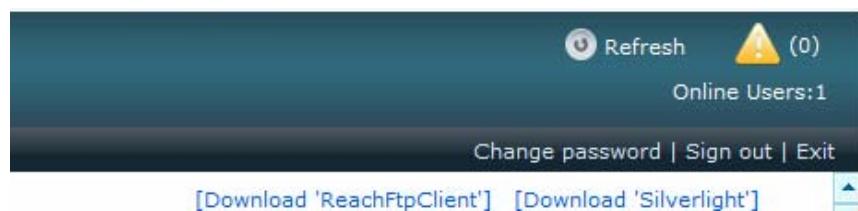


Fig. Download plug-ins

Chapter 4 Live streaming

4.1 Watch Live streaming as a Super Administrator

Sign in the device with the name of admin.

You will see the home page by default or you may click the “Live” menu on the left.

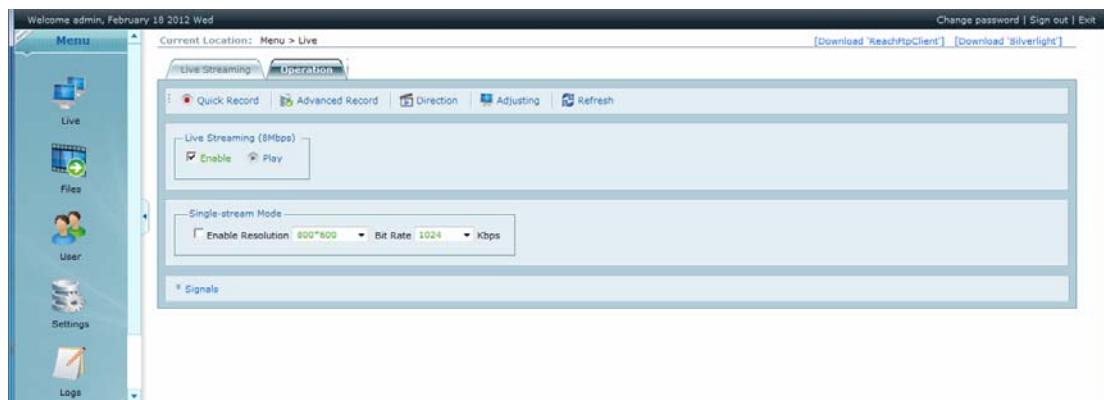


Fig. System management interface

Click “Play” button, the browser will open a new page of the live streaming player for you to watch the live streaming.

If “Low Quality Stream” is selected, you can play streaming with low quality while HD live streaming.

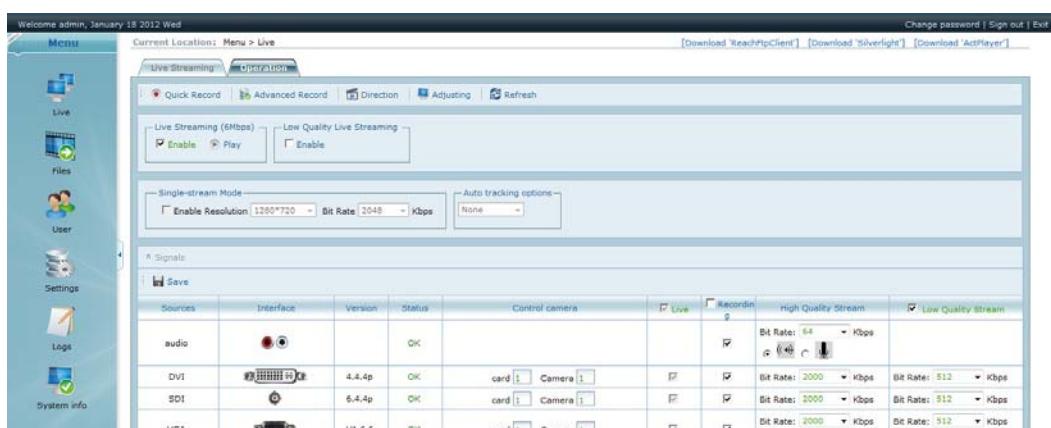


Fig. Play streaming with high/low quality

4.2 Watch Live streaming as a Common User

Sign in the device with the name of a common user that has the authority of live streaming.

Click “Play”, the browser will open a new page of the live streaming player for you to watch the live streaming.

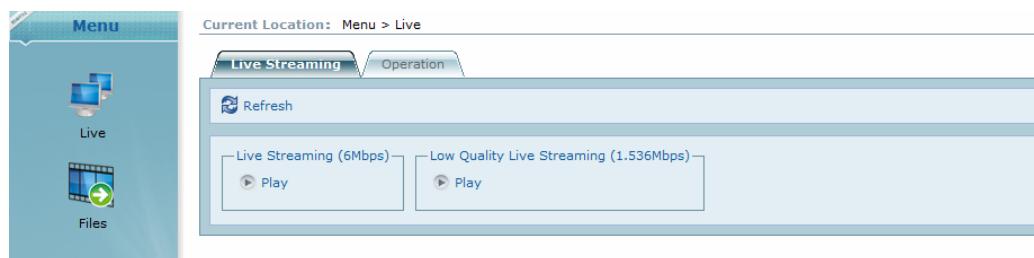


Fig. Play streaming as a Common User

4.3 Introduction to the Live streaming Player

The live streaming player on the webpage will be started when you watch the live streaming.

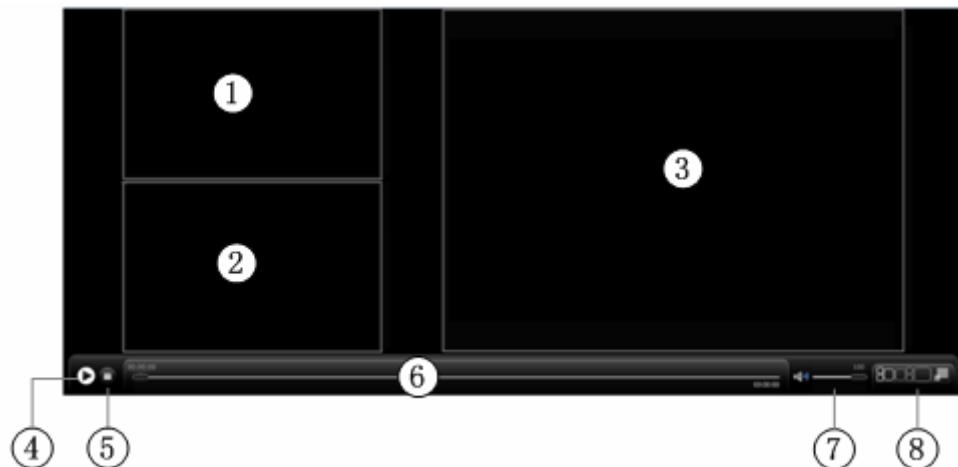


Fig. Live streaming player

1. Video window 1	5. Stop button
2. Video window 2	6. Progress bar
3. Video window 3	7. Volume control field
4. Play button	8. Picture control field

You may double click the video window to zoom in, or change its position by dragging.

The number of video window depends on that of the video source.

You may drag the progress bar, which indicating the current play time and total length, when you are playing the file on demand.

Icon	Definition
------	------------

	Play button
	Stop button
	It is in playing state and you may click the button to enter into the mute state.
	It is in mute state and you may click the button to play the sound.
	To adjust the volume
	You may click the button to get a layout where the left pictures are small and the right picture is big.
	You may click the button to get a layout where the left picture is big and the right pictures are small.
	You may click the button to get a single picture layout.
	Full screen button

Table Definitions of the icons in the live streaming player

Chapter 5 Record

5.1 Quick Record on Web Interface

Sign in the device with the name of admin.

Click “Live” menu to enter the device Live management interface.

Select the desired audio and video source from “Signals”.

Click “Quick Record”, and the device will start to record in a few seconds. The recorded multimedia file is named as “yyyyddmmhhmmss_H”, which is formed with the recording year, month, date, hour, minute and second, and “_H” means high stream recording and “_L” means low stream recording. You cannot change the audio and video sources as well as their attributes while recording.

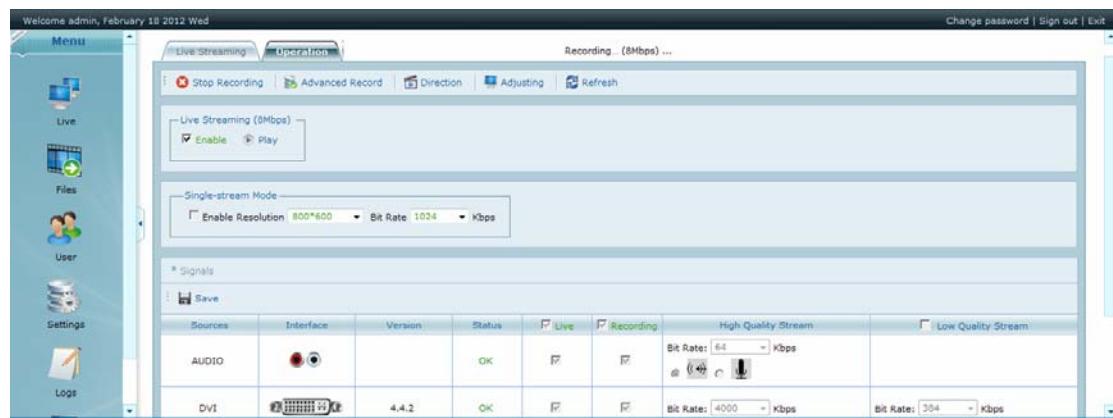


Fig. Device in recording mode

5.2 Advanced Record on Web Interface

Sign in the device with the name of admin.

Click “Live” menu to enter the device Live management interface.

Click “Advanced Record” to prompt the “Advanced Record” window.

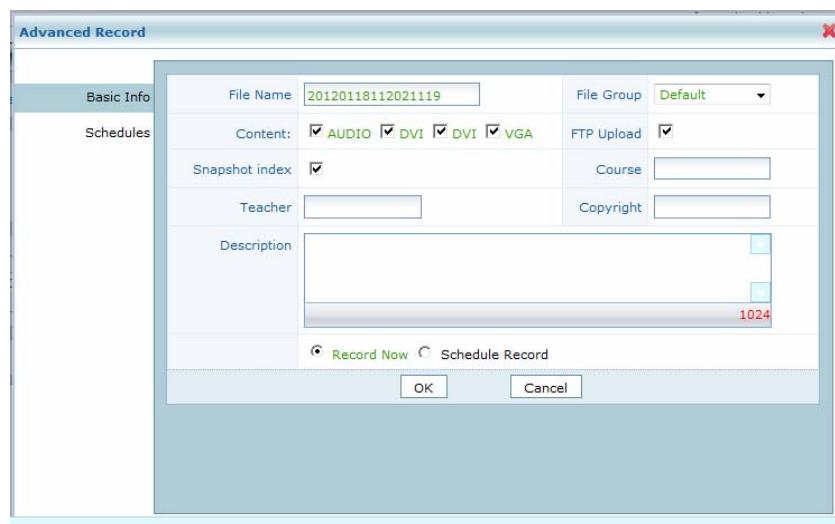


Fig. Advanced record window

You can define the record attributes on the advanced record page.

Name	Definition
File name	The name of the recorded multimedia file
Description	The description of the recorded multimedia file
Content	Select the audio and video signal sources you want to record, or skip this operation.
Snapshot Index	When it is selected, it will automatically generate an image index

	for the tested VGA picture and the multimedia file.
Course	The name of the recorded course
Teacher	The name of the teacher for this course
Copyright	Copyright information
File Group	Dividing the files into groups for easy search and classification
Record Now	Click “OK” button to start recording
Schedule Record	Record by schedule

5.3 Scheduled Record

The scheduled record tasks can be set on the advanced record page. You can define the timing for the scheduled record and set the timing cycle record task for every day, every week and every month.

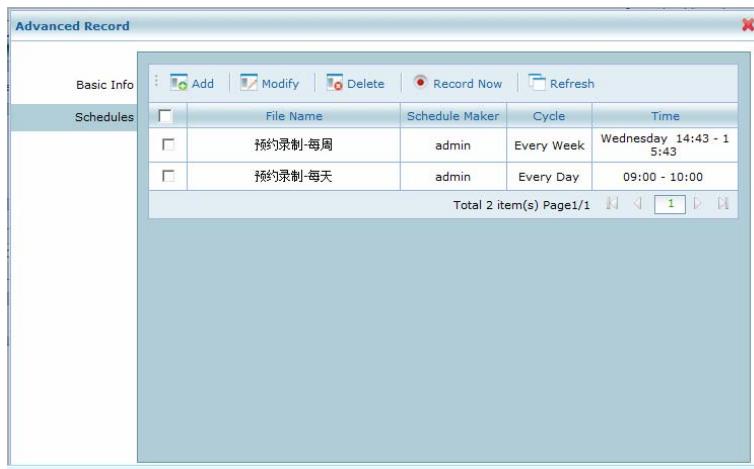


Fig. Scheduled record

5.3.1 Add scheduled record

Click the “New” button on the “Scheduled Record” page, a new scheduled record dialog box will pop up for you to set the file name, file group and other information. After select the “Scheduled Record”, you can set the scheduled period and time, the record time of every day, every week and every month, and then click “OK” button to save the

settings.

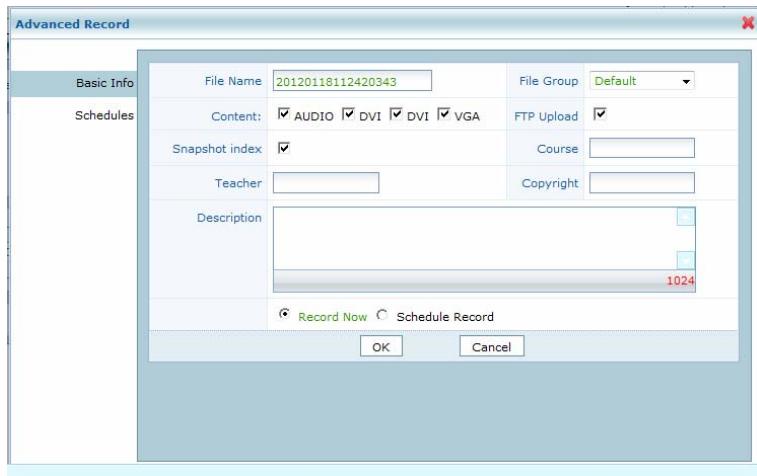


Fig. Add new scheduled record task

5.3.2 Modify scheduled record

Select the scheduled record task on the “Scheduled Record” page and click the “Modify” button, the modification dialog will pop up. You can click “OK” button to save the settings or click “Cancel” button to cancel the modification.

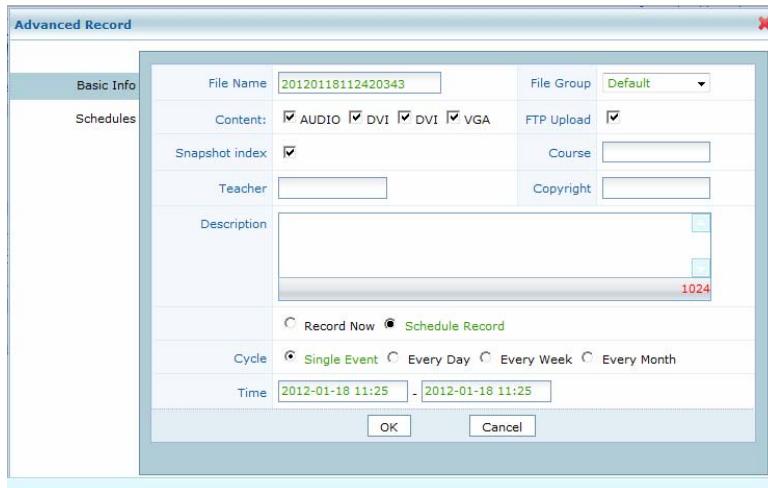


Fig. Modify scheduled record task

5.3.3 Delete scheduled record

Select the scheduled record task to be deleted and click the “Delete” button, a dialog will appear to prompt the user to delete. You can click “OK” button to delete or click “Cancel” button to cancel the deletion.

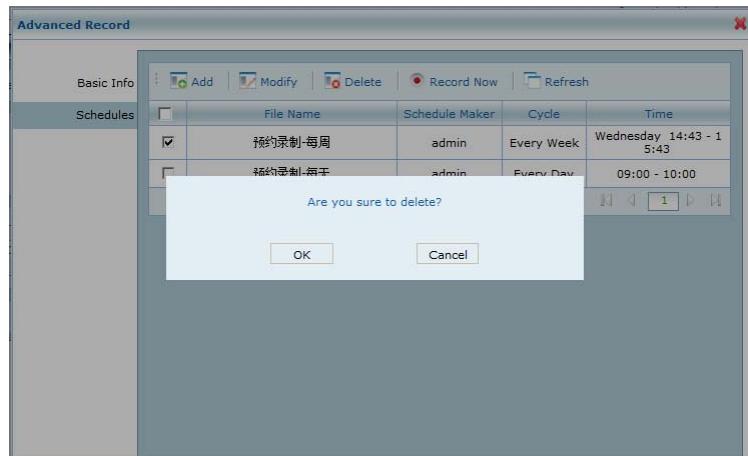


Fig. Delete scheduled record task

5.3.4 Record immediately

If the device has not started recording, it will start to record immediately once you click "Record Now" after selecting a recording task on the "Schedule Record" page. If the device is recording, a dialog box will appear to provide the conflict prompt. Clicking "Record Immediately" will not change the attribute settings of original scheduled record task.

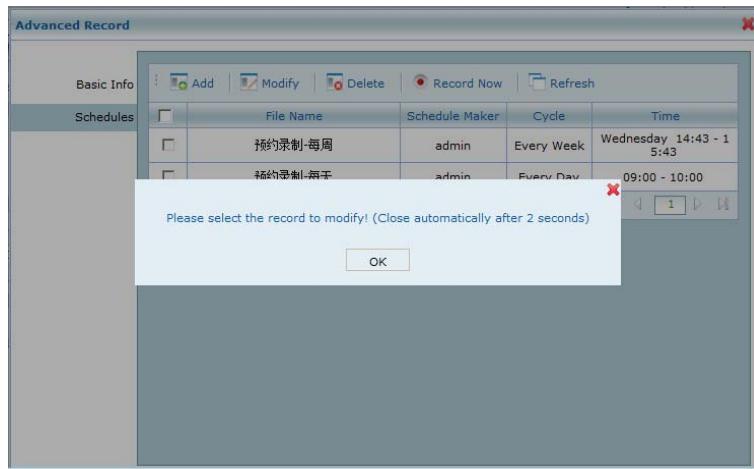


Fig. Record immediately

5.4 Stop Record on Web Interface

Sign in the device with the name of admin.

Click "Live" menu to enter the device Live management interface.

The "Quick Record" button will become "Stop Recording" button in recording mode.

Click "Stop Recording", and then it will stop in a few seconds.



Fig. Stop recording

5.5 Record with Buttons on the Front Panel

When the device is not in record mode, the Stop Record LED is on. Press the “Record” button now, the Record LED will be on and the Stop Record LED will be off, then you can start to record.

When the device is in record mode, once the “Pause” button is pressed, the Pause LED will be on and the Record LED will be off, then you can pause recording. Repress the “Record” button to continue recording without generating a new file name.

When the device is in record mode, press the Stop Record button to stop it, the Stop Record LED will be on and the Record LED will be off.

Chapter 6 VOD

6.1 VOD as Super Administrator

Sign in the device with the name of admin.

Click the “VOD” menu on the left to enter the VOD management interface.

No.	Preview	Name	Start on	Duration	Lecturer	Name	VOD	Hits
1	[Preview thumbnail]	20120118113022454_H	2012-01-18 11:30:2 2.0	00:01:24			<input type="button" value="Play"/> <input type="button" value="Signal-stream"/>	0
2	[Preview thumbnail]	2012011811712375_H	2012-01-18 11:17:1 3.0	00:03:31			<input type="button" value="Play"/> <input type="button" value="Signal-stream"/>	0
3	[Preview thumbnail]	20111229172706_H	2011-12-29 17:27:0 7.0	00:14:39			<input type="button" value="Play"/> <input type="button" value="Signal-stream"/>	0
4	[Preview thumbnail]	20111229170402_H	2011-12-29 17:04:0 2.0	00:22:58			<input type="button" value="Play"/> <input type="button" value="Signal-stream"/>	0
5	[Preview thumbnail]	20111229170049_H	2011-12-29 17:00:5 0.0	00:03:04			<input type="button" value="Play"/> <input type="button" value="Signal-stream"/>	0
6	[Preview thumbnail]	20111229165000_H	2011-12-29 16:50:0 0.0	00:10:34			<input type="button" value="Play"/> <input type="button" value="Signal-stream"/>	0

Fig. File management interface for the super administrator

If file list has many pages, you can turn the pages by clicking “Next Page” and “Last Page”, or change the displaying number on each page.

To sort the files, click “Name”, “Record on”, “Lecturer”, “Course Name” or “Hits”.

If you cannot find the recorded file, click “Synchronize” or “Refresh” to refresh the file list to search it again.

Click the “VOD” button, you will open a new page and enter the VOD player in a few seconds to play the corresponding file.

6.2 VOD as Common User

Sign in the device with the name of a common user that has the VOD authority.

Click the “VOD” menu on the left.

No.	Preview	Name	Start on	Duration	Lecturer	Name	VOD	Hits
1	[Preview thumbnail]	20120118113022454_H	2012-01-18 11:30:2 2.0	00:01:24			<input type="button" value="Play"/> <input type="button" value="Signal-stream"/>	0
2	[Preview thumbnail]	2012011811712375_H	2012-01-18 11:17:1 3.0	00:03:31			<input type="button" value="Play"/> <input type="button" value="Signal-stream"/>	0
3	[Preview thumbnail]	20111229172706_H	2011-12-29 17:27:0 7.0	00:14:39			<input type="button" value="Play"/> <input type="button" value="Signal-stream"/>	0
4	[Preview thumbnail]	20111229170402_H	2011-12-29 17:04:0 2.0	00:22:58			<input type="button" value="Play"/> <input type="button" value="Signal-stream"/>	0
5	[Preview thumbnail]	20111229170049_H	2011-12-29 17:00:5 0.0	00:03:04			<input type="button" value="Play"/> <input type="button" value="Signal-stream"/>	0
6	[Preview thumbnail]	20111229165000_H	2011-12-29 16:50:0 0.0	00:10:34			<input type="button" value="Play"/> <input type="button" value="Signal-stream"/>	0

Fig. VOD as Common User

If file list has many pages, you can turn the pages by clicking “Next Page” and “Last Page”, or change the displaying number on each page.

To sort the files, click “Name”, “Record on”, “Lecturer”, “Course Name” or “Hits”.

If you cannot find the recorded file, click “Synchronize” or “Refresh” to refresh the file list to search it again.

Click the “VOD” button, you will open a new page and enter the VOD player in a few seconds to play the corresponding file.

6.3 Search Files

Sign in the device with the name of admin.

Click the “VOD” menu on the left to enter the VOD management interface.

The Search bar is on the top of the file list.

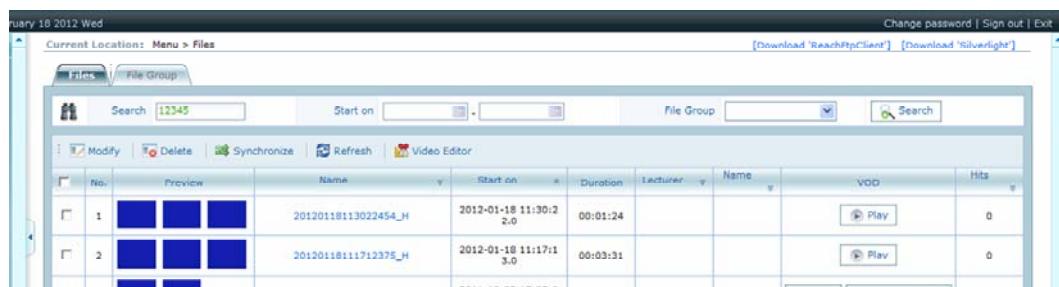


Fig. Searching courses

On the Search bar, you may use the file name, record time and file group as the key words for Search. Enter related key words and then click “Search” to get the result.

6.4 Modify Files

Sign in the device with the name of admin.

Click the “VOD” menu on the left to enter the VOD management interface.

To preview the thumbnail of the file, move the cursor to the preview area.

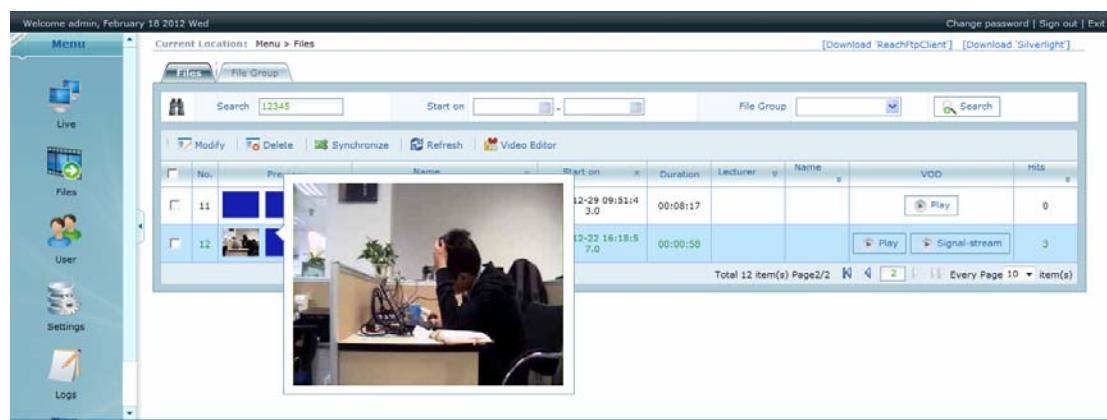
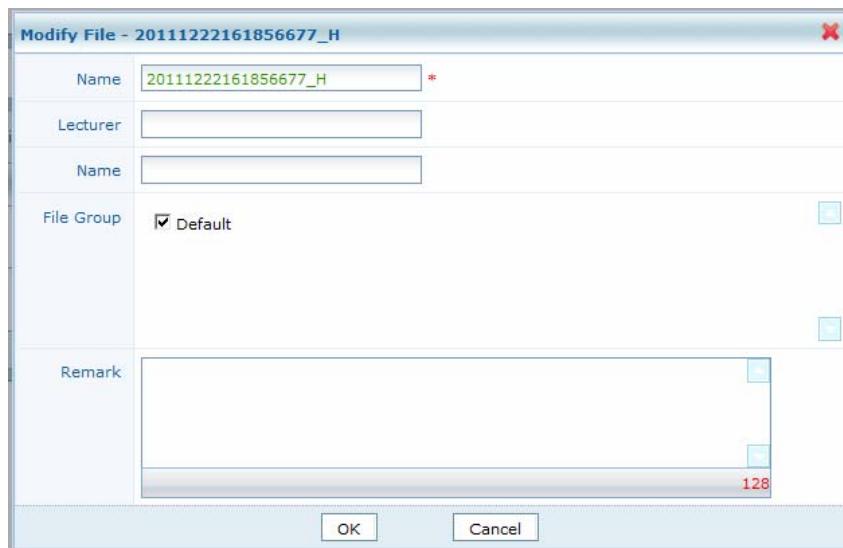


Fig. Previewing the file image

Click the file name to view the details of the current file.

Select a file and click the “Modify” button, then you can modify the basic information of the file.



Click “OK” to save after the modification.

6.5 Delete files

Sign in the device with the name of admin.

Click the “VOD” menu on the left to enter the VOD management interface.

Select the file to be deleted and click the “Delete” button on the top, the confirmation dialog box will pop up. You can click “OK” to delete or click “Cancel” to cancel and return to the VOD management page.

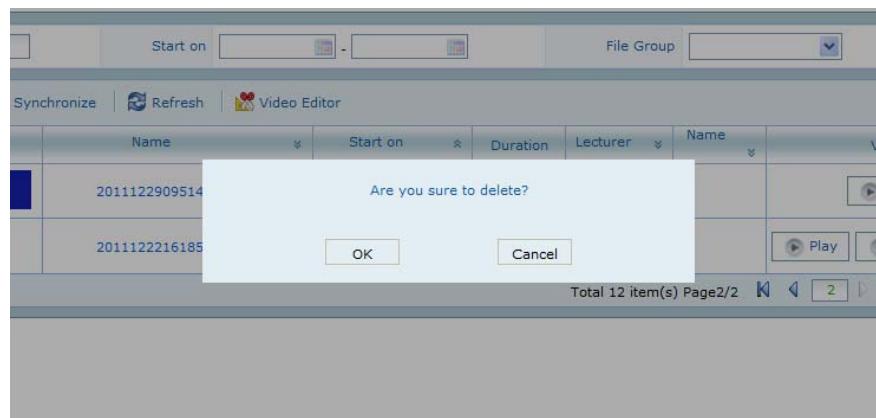


Fig. Confirmation dialog box for deleting files

6.6 Synchronize Files

After the system is upgraded or the database is updated, the file may be not displayed in the list. Click the “Synchronize” button on the VOD management page, the files recorded in the old database will be displayed. The “Refresh” button is used to refresh the current file list information.

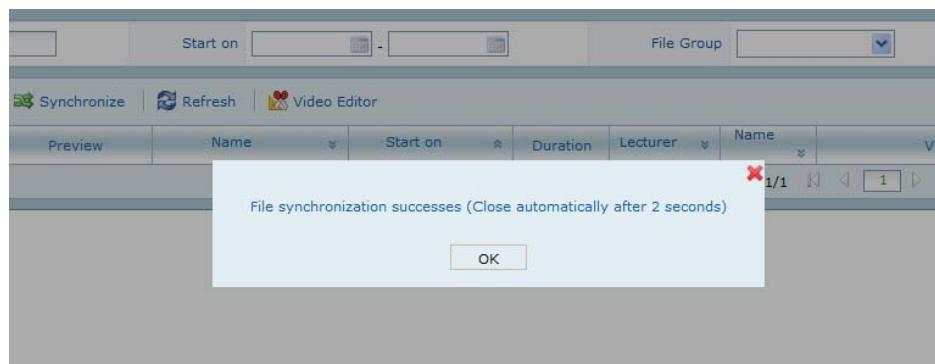


Fig. Synchronizing files

6.7 Introduction to VOD Player

The VOD player on the webpage will start up when you watch the VOD file. There are some differences between the functions of VOD player and live streaming player.

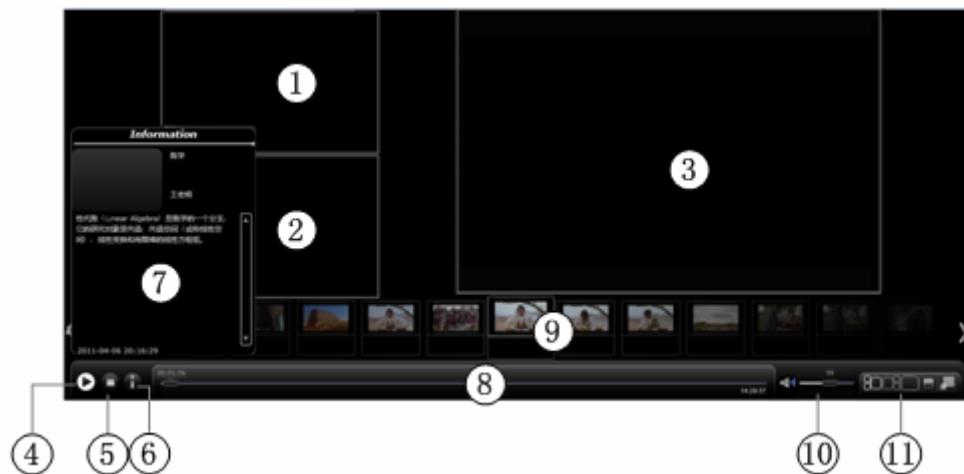


Fig. VOD player

1. Video window 1	7. Information window
2. Video window 2	8. Progress bar
3. Video window 3	9. Snapshot index field
4. Play button	10. Volume control field
5. Stop button	11. Picture control field
6. Information button	

You may double click the video window to zoom in, or change its position by dragging.

The number of video window depends on that of the video source.

The information window, which shows information such as the course name, teacher name, description and recorded time, can be hided or displayed by clicking the information button.

The PowerPoint snapshot index (if any) of the VOD file will be displayed in the snapshot index field. You may drag the index left or right, or click the arrows on the left and right sides in the field to view the index. To skip to the corresponding video, click the index.

You may drag the progress bar, which indicates the current playtime and total length.

Icon	Definition
	Play button
	Pause button, which appears when the mouse pointer is suspended on the play button during playing the file.
	Stop button

	Information button
	Browsing arrows for snapshot index
	It is in playing state, and you may click the button to enter into the mute state.
	It is in mute state, and you may click the button to play the sound.
	To adjust the volume
	You may click the button to get a layout where the left pictures are small and the right picture is big.
	You may click the button to get a layout where the left picture is big and the right pictures are small.
	You may click the button to get a single picture layout.
	You may click the button, which indicating the state of image index, to switch the index state.
	You may click the button, which indicating the state of image and text index, to switch the index state.
	You may click the button, which indicating the state of text index, to switch the index state.
	You may click the button, which indicating the state of no index, to switch the index state.
	Full screen button

Table Definitions of the icons in the live streaming player

Chapter 7 Download

Start the download tool ReachDownload.

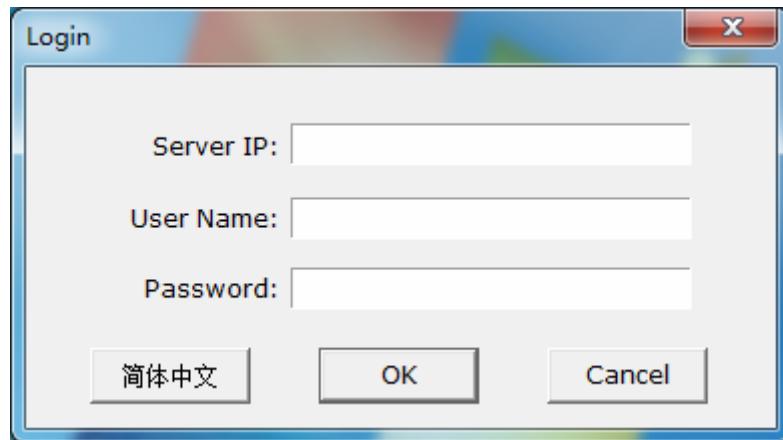


Fig. Login interface of ReachDownload

You may click "English" to switch to English interface.

Enter the server IP address, user name and password. The default user name and password are both "admin".

Click the "OK" button.

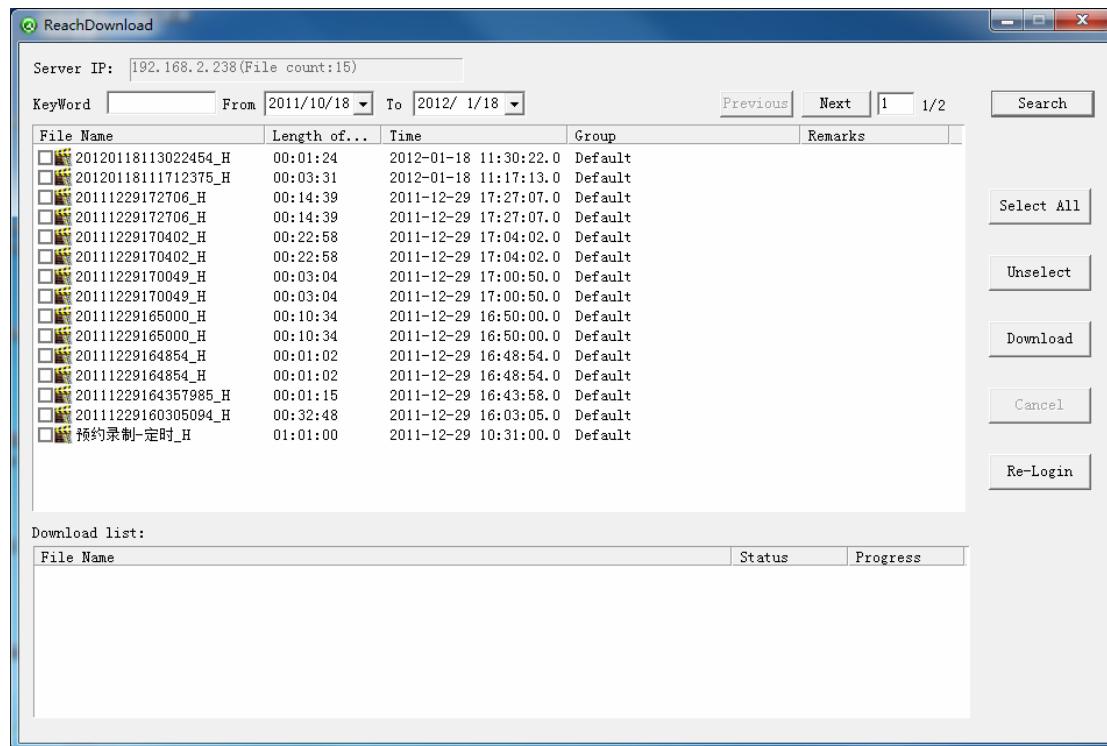


Fig. ReachDownload interface

Select the course that you want to download from the left column.

You may Search a specified file with the file name as key word or select the file you want to download with the "Select All" and "Deselect All" button.

Click "Download", select the save path and then click "OK" button to download the

course. It is not recommended to perform other operations while downloading files.

Open the directory after the download and you will find the course in the corresponding folder.

Double click and open the player.html file in the course folder, and then the player that being embedded in the browser will play the course downloaded.

Chapter 8 Server based editing

Sign in the device with the name of admin.

Click the “VOD” menu on the left to enter the file management interface and then click “File Editing” to enter the server based editing page.

Choose courseware							Total found file:20
Head Pic	Name	Teacher	Size(M)	Length	Modify date	Created date	Subject
<input type="checkbox"/>	20120118113022454_H_R		46M	00:01:24	2012-01-18 11:30	2012-01-18 11:30	
<input type="checkbox"/>	20120118111712375_H_R		120M	00:03:31	2012-01-18 11:17	2012-01-18 11:17	
<input type="checkbox"/>	20111229172706_H_M		64M	00:14:39	2011-12-29 17:27	2011-12-29 17:27	
<input type="checkbox"/>	20111229172706_H_R		132M	00:14:39	2011-12-29 17:27	2011-12-29 17:27	
<input type="checkbox"/>	20111229170402_H_M		101M	00:22:58	2011-12-29 17:04	2011-12-29 17:04	
<input type="checkbox"/>	20111229170402_H_R		206M	00:22:58	2011-12-29 17:04	2011-12-29 17:04	
<input type="checkbox"/>	20111229170049_H_R		28M	00:03:04	2011-12-29 17:00	2011-12-29 17:00	
<input type="checkbox"/>	20111229170049_H_M		14M	00:03:04	2011-12-29 17:00	2011-12-29 17:00	
<input type="checkbox"/>	20111229165000_H_M		46M	00:10:34	2011-12-29 16:50	2011-12-29 16:50	
<input type="checkbox"/>	20111229165000_H_R		94M	00:10:34	2011-12-29 16:50	2011-12-29 16:50	
<input type="checkbox"/>	20111229164854_H_R		8M	00:01:02	2011-12-29 16:48	2011-12-29 16:48	
<input type="checkbox"/>	20111229164854_H_M		4M	00:01:02	2011-12-29 16:48	2011-12-29 16:48	
<input type="checkbox"/>	20111229164357985_H_M		5M	00:01:15	2011-12-29 16:43	2011-12-29 16:43	
<input type="checkbox"/>	20111229164357985_H_R		10M	00:01:15	2011-12-29 16:43	2011-12-29 16:43	
<input type="checkbox"/>	20111229160305094_H_R		296M	00:32:48	2011-12-29 16:03	2011-12-29 16:03	
<input type="checkbox"/>	预约录制-定时_H_R	王老师	2124M	01:01:00	2011-12-29 10:31	2011-12-29 10:31	高数
<input type="checkbox"/>	20111229095142730_H_R		286M	00:08:17	2011-12-29 09:51	2011-12-29 09:51	

Fig. Server based editing

When the files stored in the device are inconsistent with the course list, please click the “Refresh” button.

8.1 Search Courses

Click “Search courses”.

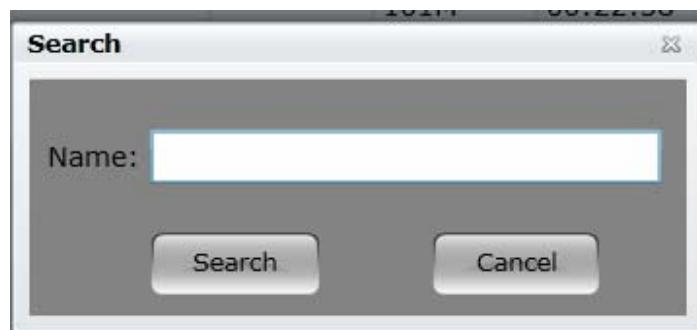


Fig. Searching courses

Enter the course name and click “Search”, and then the system will list the matching courses.

8.2 Edit Courses

Select the course that you want to edit.

Click the “Edit Courses” button.

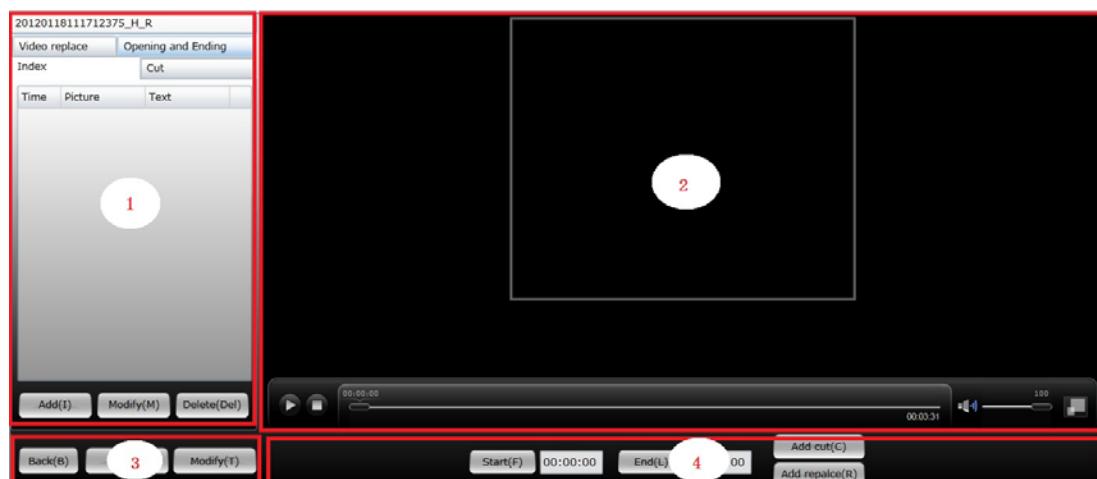


Fig. Editing courses

1. Function selecting field
2. Video preview field
3. Editing and executing field
4. Time control field

You may select the corresponding function label in the function-selecting field.

You may preview the course that you want to edit in the video preview field.

In the editing and executing field, you may execute the defined editing, modify the file attribute or exit editing.

In the time control field, you may set the time attribute of some editing functions.

8.2.1 Edit the snapshot index

Click the “Index” label.

Button	Definition
Add index	You may click the button to add an image-text index at the current position. The picture can be the video screenshot that automatically generated by the system or selected by you.
Modify index	You may select and click an index to modify the picture and text description of the index.
Delete index	You may select and click an index to delete it.

Fig. Definitions of the buttons for editing the index

After the index is edited, click “Save All the Operations” to save the new index to the edited file.

8.2.2 Edit the opening and ending

Click the “Opening and Ending” label.



Fig. Editing the opening and ending

Button	Definition
Opening picture	Open
	Delete
	Length

Ending picture	Open	Open and select a picture on a hard disk as the ending picture.
	Delete	Delete the current ending picture.
	Length	Set the display time length of the ending picture.

Table Definitions of the buttons for editing the opening and ending

After finishing the index editing, click “Save” to save the opening and ending to the edited file.

8.2.3 Cut videos

Click the “Cut Video” label.



Fig. Cutting videos

In the time control field, enter the start time and end time of the video segment that you want to cut.

You may also click “Start Time” when the video is played to the segment that you want to cut, the system will automatically enter the current play time as the start time. While you may click “End Time” when the video that you want to replace ends, the system will automatically enter the current play time as the end time.

Click the "Add Cut" button.

Repeat the above procedures until all the video segments that you want to cut have been added to the left field.

If you want to delete the wrong item added, please select it and click “Delete”.

If you want to get a new course without changing the original video, please select

“Generate New Course”.

Click “Start” to cut the video. If you want to generate a new course, enter the course name as the system requires and then click “OK”.

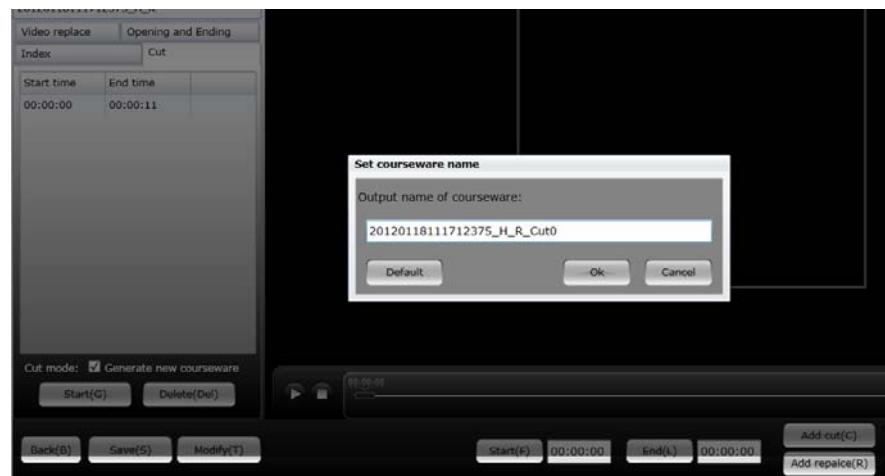


Fig. Setting the course name

The system will prompt you the successful cutting in a few seconds.

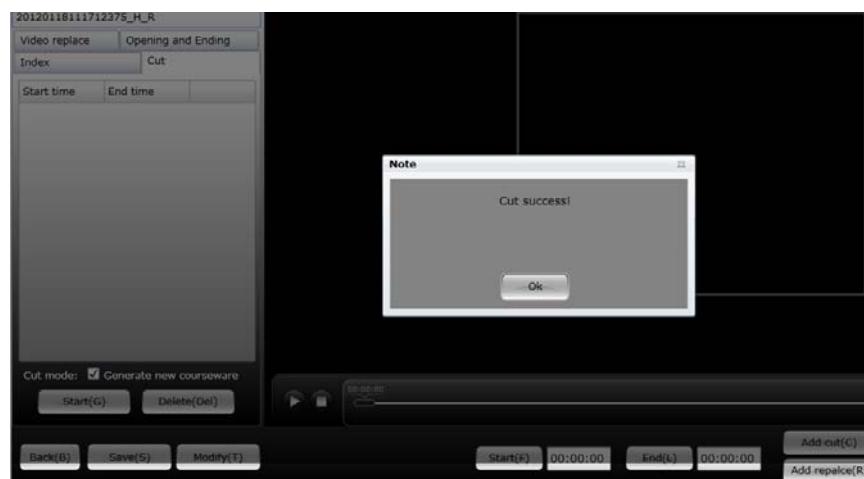


Fig. Successful cutting

8.2.4 Video Replace

Click the “Video Replace” label.



Fig. Replacing videos

In the time control field, enter the start time and end time of the video segment that you want to replace.

You may also click “Start when the video is played to the segment that you want to replace, the system will automatically enter the current play time as the start time. While you may click “End” when the video that you want to cut ends, the system will automatically enter the current play time as the end time.

Click the “Add replace” button.

Repeat the above procedures, until all the video segments that you want to replace have been added to the left field.

You may select the item that you want to replace, and click “Modify” to modify the existing item.

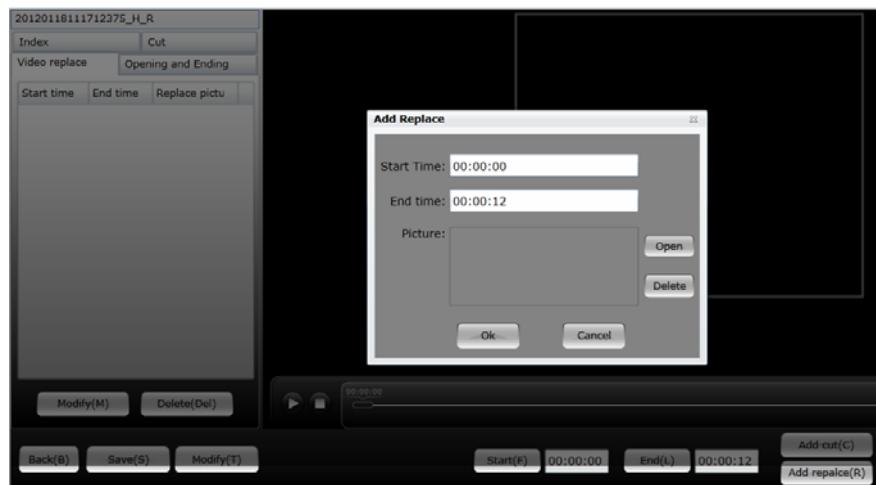


Fig. Modifying replaced item

To delete the replaced item, select it and click “Delete” to delete it.

Click “Save”, and then the system will apply all replacements that have been set.

8.2.5 Edit the course information

Click “Modify”.



Fig. Editing the course information

After the course information is modified, click the “OK” button.

Click “Save” to save the modified information to the course.

8.3 Merge Courses

Select two or more courses that you want to merge and then click “Merging”.

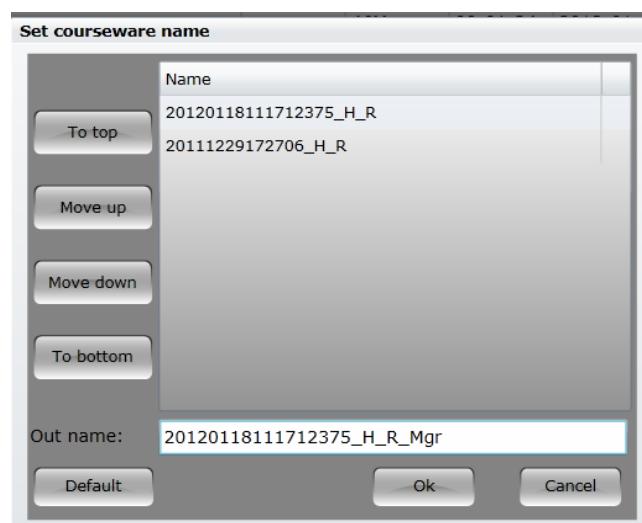


Fig. Merging courses

Arrange the course order with the buttons of “To Top”, “Move Up”, “Move Down” and

“To Bottom”.

Enter the name of the merged course and click “OK” to start merging.

Wait for the system to complete the operation.

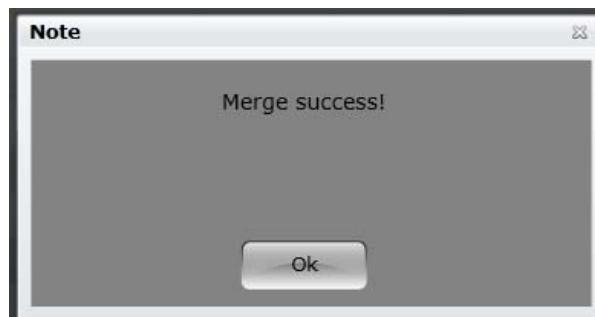


Fig. Successful merging

Chapter 9 User Management

Sign in the device with the name of admin.

Click “User” on the left to enter the user management interface.

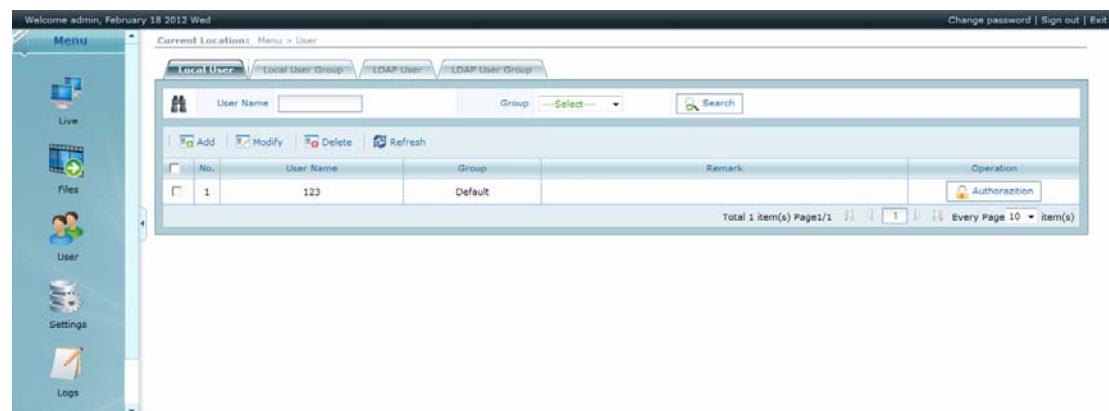


Fig. User management

9.1 Add New User

Click “Add”.

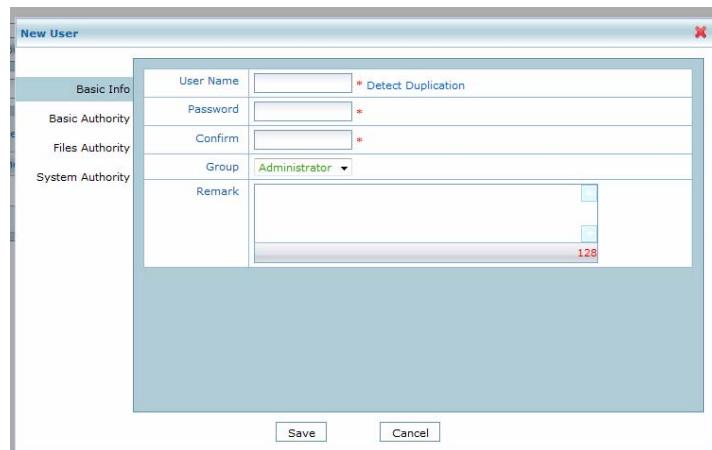


Fig. Adding new user

Enter the information about the user name, password and group following the instructions.

Click the "Save" button.

9.2 Modify User Attributes

Select the user whose attributes need to be modified and click "Modify" button.

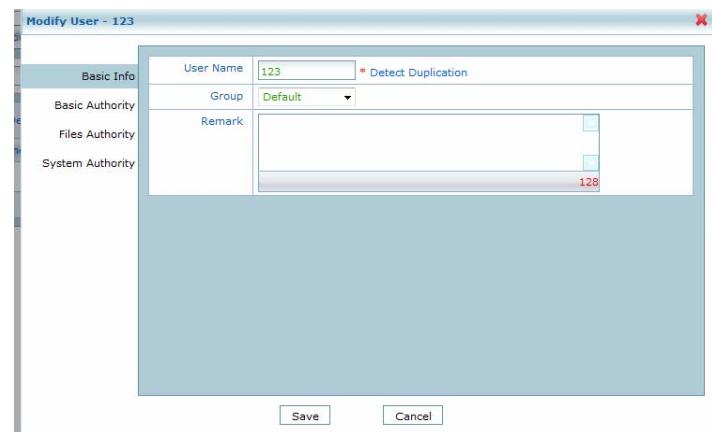


Fig. Modifying user information

You can modify the user group and remark information here and grant the user with the authority of live streaming, VOD and system setting on other tabs as well.



Fig. Modifying the user authority

Click “Save” after finishing the modification.

9.3 Edit the VOD Authority of User

To modify the user's authority to play the file recorded, click the “VOD Authority” tab in the “Modify User” dialog box.

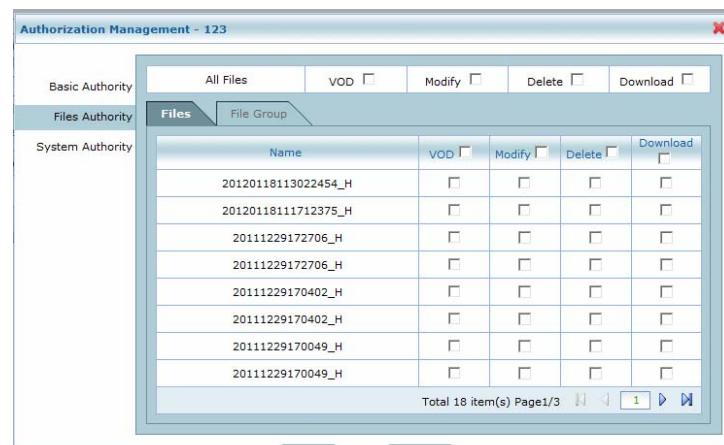


Fig. Editing VOD authority of user

You may select the files that users are allowed to play on demand from the “VOD” column. To select all the files, select the checkbox beside “VOD”.

You can also select “Modify”, “Delete” and “Download” checkboxes to grant the user with authorities to modify, delete and download files.

Click the “Save” button, the modification will be effective.

9.4 Delete Users

Select the user to be deleted and then click the “Delete” button.

Click “OK” in the prompted confirmation dialog box.

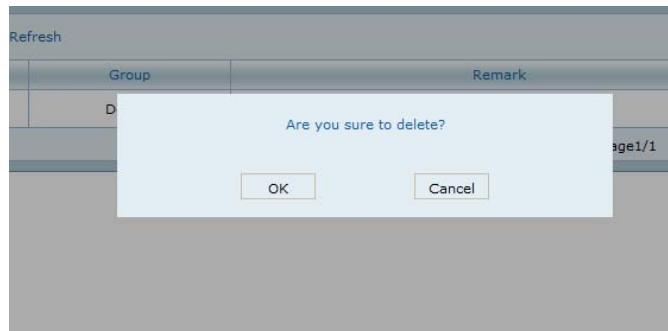


Fig. Dialog box for deleting users

9.5 LDAP User and User Group Management

The LDAP User Management and LDAP User Group Management tabs will appear on the user management interface after the LDAP server is enabled in the system management page and connected successfully (please refer to Section 10.2.9 for details).

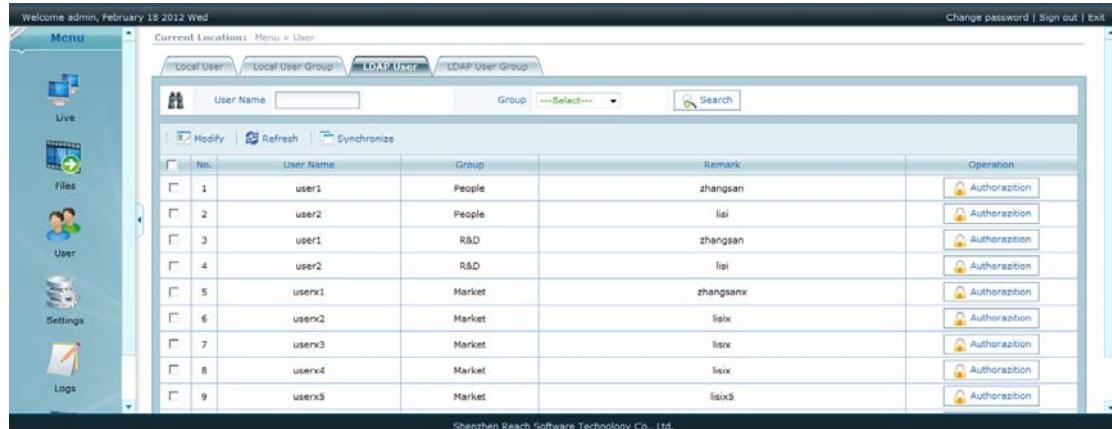


Fig. LDAP user management

You may click the “Synchronize” button to synchronize the user names and user groups on the LDAP server to the Media Master. You may search the user information according to the user name and user group, click the “Modify” button to modify the remark information of the user or the user group, however, the user name and password cannot be changed. You may also click “Authorization” to set the authority of the user or the user group (the setting method is the same as that of local users, please refer to Chapter 9 User Management).

Chapter 10 Setting

10.1 Set VOD and Recording Parameters

Sign in the device with the name of admin.

Click the “Live” menu to enter the Live management interface and click “Signals” to expand the details.

10.1.1 Set Live code rate

You can set the default encoding bit-rate, set high/low quality encoding, select audio input source as “Line in” or “MIC in” and set the encoding bit-rate of audio on this page.

To enable the settings, click the “Save” button.



Fig. Setting the encoding bit-rate of the device input

10.1.2 Adjust the position of screen

Click “Screen Adjust” to enter the screen adjust page.

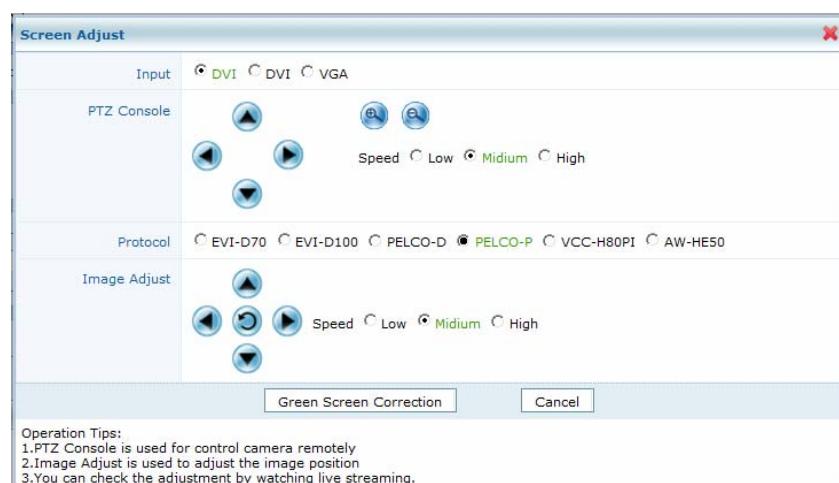


Fig. Adjusting the position of screen

Click the video module to be adjusted.

Click the related button in the same line with “Image Adjust” to adjust the position of screen.

Icon	Definition
	The screen will move upward.
	The screen will move left.
	The screen will move right.
	The screen will move downward.
	The screen will recover to the position before moving.
Fine tuning proportion	It is used to set the moving distance of the screen when you click the direction buttons. You may select high, middle and low proportions.

Fig. Definitions of the icons for adjusting the screen

Click the “Back” button after the adjustment.

10.1.3 Adjust the screen color

When color space changed, you may need to use green screen correction to identify input again to change YUV to RGB or RGB to YUV.

Click “Screen Adjust” to enter the screen adjust page.

Click the video module to be adjusted.

Click “Green Screen Correction”.

Click the “Back” button after the adjustment.

10.1.4 Control the camera PTZ

Click “Screen Adjust” to enter the screen adjust page.

Click the number of the camera you want to control.

Select the protocol that matches with the camera PTZ from the “Protocol” line.

Control the rotation and scaling of the camera from the “PTZ Console” line.

Icon	Definition
	The camera will move upward.
	The camera will move left.
	The camera will move right.
	The camera will move downward.
	The camera will zoom in on the image.
	The camera will zoom out on the image.
Speed	Control the moving speed of the PTZ, and the speed can be low, middle or high.

Fig. Definitions of the icons for camera control

Click “X” to close the window after the adjustment.

10.2 Set System Parameters

Sign in the device with the name of admin.

Click the “Settings” menu on the left to enter the system management interface.

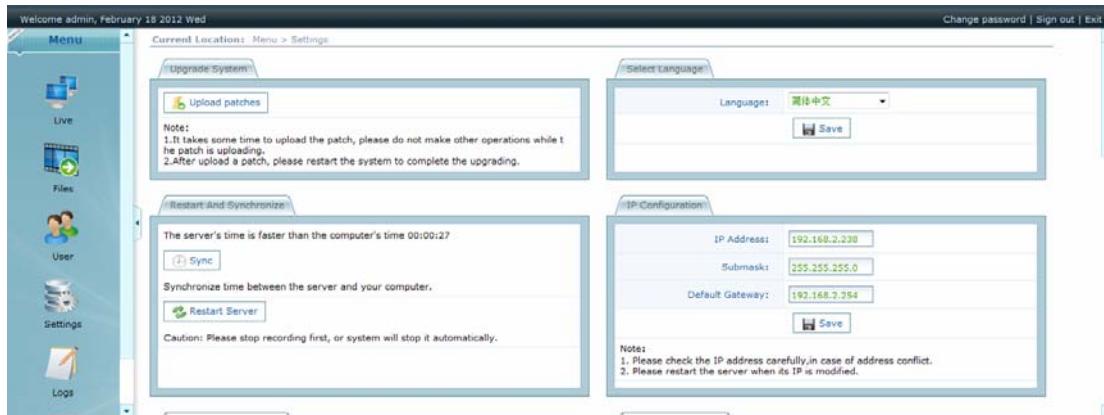


Fig. System management interface

10.2.1 Upgrade the system

[Warning] Only the authorized professionals can upgrade the system in strict accordance with the upgrade instructions. The upgrade conducted by others may lead to

unpredictable results!

Click "Upload patches" in the "Upgrade System" field and select the upgrade file for the system.

Click the "Upload" button.

Restart the device after uploading to complete the upgrade.

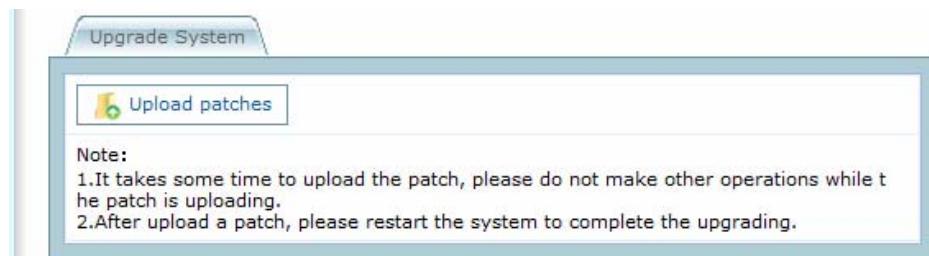


Fig. Upgrading the system

10.2.2 Change the language

Select the language you want in the "Language" field.

Click the "Save" button.

The system language will be the selected language after you re-sign in the device.



Fig. Modifying the language

You may also modify the language settings on the logon home page. The system will recover the setting before the modification when the browser is restarted or the caching is cleared.

10.2.3 Restart the system and synchronize the time

You may click "Sync" to synchronize the device time and the time of current client pc.

To restart the device, click "Restart Server".

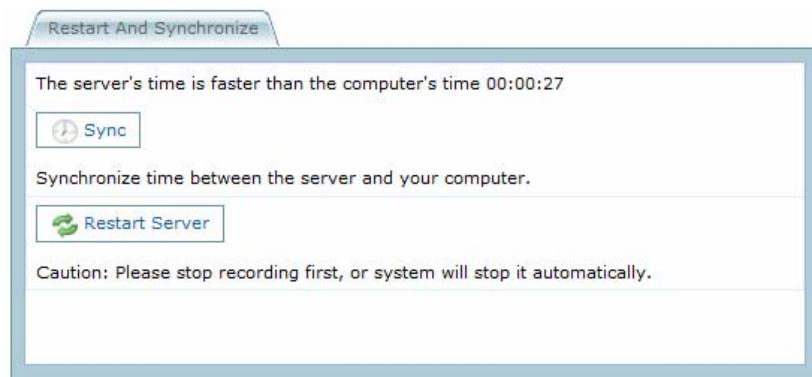


Fig. Restarting the system and synchronizing the time

10.2.4 Set IP

[Warning] Modifying the network configuration will cause the device to restart, therefore, please stop recording and save the other important settings before modification!

You may modify the IP address, subnet mask and gateway assigned by the network administrator in the "IP Setting" field.

Click the "Save" button.

To enable the new network settings, restart the device.

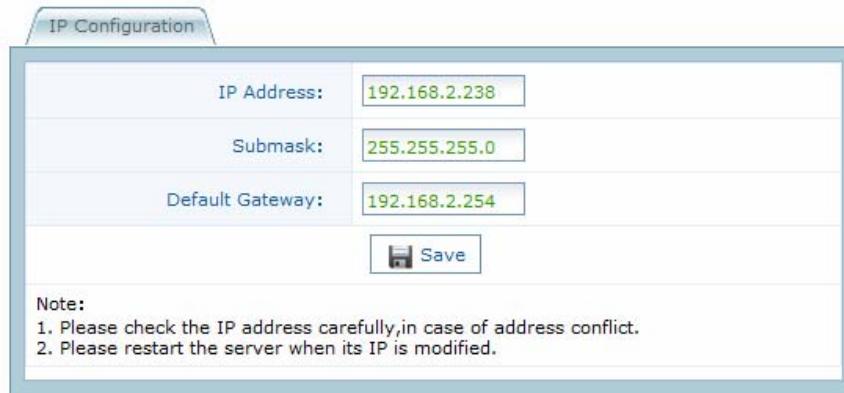


Fig. Modifying the IP address

10.2.5 Configure the network storage

[Warning] This device can only be used together with the network storage device that has passed the specialized tests. The connection to the network storage device that has

not passed the test may result in system error and user data loss!

Select “Enable Network Storage” in the “Network Storage Setting” field.

Enter the IP address of the network storage.

If you want to store the recorded file in the network storage firstly, select "Network Storage First".

Click the "Save" button.



Fig. Setting network storage

10.2.6 Modify the device name

Modify the “Device Name” in the “Device Name Setting” field.

Click the "Save" button.

The new name will be displayed on the logon interface and logon home page after the modification.



Fig. Modifying the device name

10.2.7 Configure the system

This field is used to set the section time when the user is forced to log out the system in case that the user has no action, set the free space alarm threshold (the system will provide a warning message when the free space is less than the threshold), and select

whether the verification code will be enabled on the logon interface.

To enable the settings, click the “Save” button.



The screenshot shows a configuration interface titled "System Config". It contains three main settings in a table format:

Session Timeout	30	Minute
Alarm when space less than	10240	MB
Enable Sign in Verify Code	<input type="checkbox"/>	

At the bottom right is a "Save" button with a disk icon.

Fig. Configuring the system

10.2.8 Manage the FTP server

You can upload the files recorded to the third party server. This field is used to configure the address and port of the server, user name and password.



The screenshot shows a configuration interface titled "FTP Configuration". It contains five fields in a table format:

FTP server IP address:	192.168.5.35
Server port:	21
Username:	reach
Password:	*****
Enable FTP upload:	<input checked="" type="checkbox"/>

At the bottom right is a "Save" button with a disk icon.

Fig. FTP server management

10.2.9 Configure the LDAP Sever

The system supports the LDAP server and you can sign in the system with the user information stored on it. This field is used to configure the detailed information of the LDAP server. Please consult the network administrator for the configuration information.

LDAP Server Configuration

<input checked="" type="checkbox"/> Enable LDAP server		Server Status: Connected	
Server IP:	192.168.6.15 *	User ID Attribute:	cn *
Server Port:	389 *	User Name Attribute:	
Manager DN:	cn=Manager,dc=sz *	Password Attribute:	userPassword *
Manager Password:	***** *	Group ID Attribute:	ou *
Base User DN:	ou=Market,dc=sz *	Group Attribute Name:	
Base Group DN:	dc=szreach,dc=cz *	Data Storage Structure:	Double Layer *
Encryption Mode:	MDS *		
<input type="checkbox"/> Enable Automatic Synchronization		Synchronize at:	<input type="button" value=""/>
<input type="button" value="Save"/>			
<p>Note:</p> <p>1. The items with*must be fulfilled. 2. Please confirm the configuration of LDAP server.</p>			

Fig. LDAP sever configuration

Chapter 11 Log Management

Sign in the device with the name of admin.

Click the “Logs” on the left, the system log interface will appear. You can search corresponding logs by inputting key words in the “User”, “Type” and other fields on the Search bar on the top.

You may click the “Maintain” button to delete the log. Note: By default, the logs of the latest three months cannot be deleted.

Welcome admin, February 18 2012 Wed

Menu Current Location: Menu > Logs Change password | Sign out | Exit

Logs

Logs						
<input type="text"/> Search <input type="text"/> User <input type="text"/> Type <input type="button" value="...Select..."/> Time <input type="text"/> <input type="button" value="Search"/>						
<input type="button" value="Maintain"/> <input type="button" value="Refresh"/>						
No.	User	Type	Title	Description	IP	Time
1	Record	Recording	Start Recording	预约录制_每周_H	127.0.0.1	2012-01-18 14:43:01.25
2	admin	Sign in	登录	成功	192.168.2.18	2012-01-18 14:32:53.219
3	admin	Sign in	登录	成功	192.168.2.18	2012-01-18 14:31:35.75
4	admin	Download	登录	成功	192.160.2.18	2012-01-18 13:49:02.141
5	FileSync	Files	删除文件	成功	127.0.0.1	2012-01-18 11:56:33.11
6	FileSync	Files	删除文件	成功	127.0.0.1	2012-01-18 11:56:27.641
7	admin	Sign in	登录	成功	192.168.2.18	2012-01-18 11:39:47.282
8	123	Sign in	登录	成功	192.168.2.18	2012-01-18 11:38:17.813
9	Record	Recording	停止录制	2012011813022454_H	127.0.0.1	2012-01-18 11:31:49.329
10	admin	Recording	停止录制	成功	192.168.2.18	2012-01-18 11:31:46.563

Total 116 item(s) Page 1/12 Every Page 10 - item(s)

Fig. System log

Click the triangle icon on the top right corner of the page, you can view current warning messages.

Chapter 12 Modifying Password, Sign out and Exit

After sign in the device on the Web, the links of "Change Password", "Sign out" and "Exit" will displayed on the top right corner all the time.

To change the password of the current user, click "Change Password". Note: The administrator cannot change the password of other users. Only the user can change the password for himself after logging on.

Click "Sign out" to go back to the log-on page, and re-enter the log-on information to sign in.

Click "Exit" to shut down the browser and log out the system.

Chapter 13 Troubleshooting

● **Unable to start**

Please try the following operations:

- ✓ Make sure that there is power supply for the power socket.
- ✓ Connect the power cables properly.
- ✓ Turn on the power switch of the product.

● **The computer could not sign in the Web interface**

- ✓ Make sure that the computer and the product are connected in the same interconnected network.
- ✓ Make sure that the network parameters (such as IP address) of the computer and the product have been set properly according to the requirements of the network administrator.
- ✓ Use the network tool and software to test the network connection between the computer and the product. For example, use the ping command.

If you still could not sign in the web interface, please contact the network administrator.

● **There is no sound or/and image when played through the computer**

- ✓ Please check if the cables between the video and audio sources and the product are connected properly before watching the live streaming. Please make sure that the file you want to play on demand contains normal audio and video flow before playing the VOD file.
- ✓ Check if the network connection between the computer and the product is smooth.
- ✓ Install necessary software and plug-in provided by the product to watch the live streaming and VOD.
- ✓ Update other necessary software for the computer, such as the sound card, video card driver, operating system patch, etc..