SVP800AI Eight-Channel All-In-One Intelligent Analysis Video Capture Card User Manual V1.02

Solution

Application Note

Datasheet

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Version History

Version	Date	Add/Del/Rev
V1.00	2011-3-16	New version
V1.01	2012-2-11	Add powerful player instructions for use
V1.02	2012-6-18	Modify product manual according to the systech template format

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1 Preface

Thank you for purchasing SVP800AI 8-channel all-in-one intelligent analysis audio and video capture adapter!

SVP800AI is featured with small and exquisite bulk, superior performance and complete function.The SVP800AI can simultaneously capture eight analog video signals.

The user’s guide will provide with necessary instruction for proper use of SVP066E capture adapter.Supporting software can process 24 channels video single.The SVP800AI is intelligent analysis video capture card of cheap and fine in market.

The user’s guide will provide with necessary instruction for proper use of SVP800AI capture adapter.

2 Product introduction

2.1 Product feature

- Hardware compressed chip,occupy very low system CPU resource.
- Real-time video H2.64 compression,nondrop-frame,support dual encoding stream.
- Introduction of anti-lightning circuit can withstand the impact of lightning and strong currents.
- Supporting for system of Windows2003server / 2008server / XP / WIN 7.

2.2 Review and recording resolution

- Review resolution: CIF：352×288(PAL),320×240(NTSC)
- Recording resolution：CIF：352×288(PAL),320×240(NTSC)

2.3 Advanced feature

◆ Intelligent analysis feature: face detection, suspicious object detection,lost property detection.

◆ Motion tracking function:tripwire detection and counting,retrograde detection.

◆ Video enhancements:software WDR,demisting.

2.4 Software feature

◆ Can be constituted analog-digital hybrid systems with different manufacturers's megapixel network camera component.

◆ Can be constituted 16 or 24-channel systems if you use two or three 8-channel hardware compression card on one computer.

◆ P2 P RMON, without opening UPNP, no port mapping, no peanut shells, can penetrate any network (including CRC, length and width, and WAP card, etc.).

◆ Support for iPhone, Android, Symbian mobile phone monitoring.

◆ Centralized monitoring client ports, maximum supporting 64-channel.

◆ "One key" RMON, set up simply, no need to set peanut shells, network transport fluidly.

◆ Rich alarm function: sound alarm, capture pictures, SMS alarm, email alarm, electronic maps.

◆ Preview and playback can be performed both electronic amplification.

◆ Intelligent analysis trigger recording: motion detection, face detection, suspicious object detection, detection of lost property can trigger video recording, and support pre-recording 5 Sec.

◆ Motion tracking function:tripwire detection and counting,retrograde detection.

◆ Video enhancements:software WDR,demisting.

3 Software description

JSurveillance Software is an intelligent analysis video real-time surveillance software. It could meet multi-channel video's intelligent analysis and surveillance requirement. Users can do real-time H.264 compression. JSurveillance software have basic surveillance functions of digital video recording, network transmission, web browsing support, PTZ control, alarm, playback and etc. and other intelligent analysis functions of Soft Wide Dynamic Range, Defogging Live Videos, Face Detection, Suspicious object detection, Missing object detection, Object counting, Guard line detection, Retrograde detection and etc.

4 System configuration, installation and uninstallation

4.1 System recommended configuration requirements

4.1.1 Hardware requirements:

(1) For basic surveillance

	4 channel	8 channel	9-16 channel	17-24 channel
CPU	Celeron D331 or above	Celeron Dual Core E1200 （1.6G）or above	Celeron Dual Core E1500 （2.2G）or above	Celeron Dual Core E3200 （2.4G） or above
Memory	512M or above	1G or above	1G or above	1G or above
Graphics card	Support all kinds of graphics card, 128M memory or above			
Hard disk	Hard disk capacity is larger than 60G and recording needs about 60-120MB an hour each channel.			
Power	Suggest to use 350W Greatwall power supply			

Table 1 Recommended System Requirements List

(2) For users who need to use intelligent analysis function,CPU need Celeron Dual Core E3200(2.4G)or above and memory need 1G or above.

4.1.2 Software requirements:

(1) Windows XP/ Windows **7** system/Windows 2003 server/Windows 2008 server

(2) Install Directx9.0c or above.

(3) Need to use the latest graphics card drivers.

[Note]:

Under Windows **7** system, user need to use ‘Administrator’s account to install and operate JSurveillance Software.

4.2 Install software

[Note]:

Before the installation of JSurveillance software, please be sure to exit the anti-virus Software and Windows Firewall. After finish the installation, user can run the anti-virus software and Windows Firewall.User double click the installation file JSurveillance_A_4.0.0_Setup.EXE in the installation disk and the installation main menu will be popped as below,

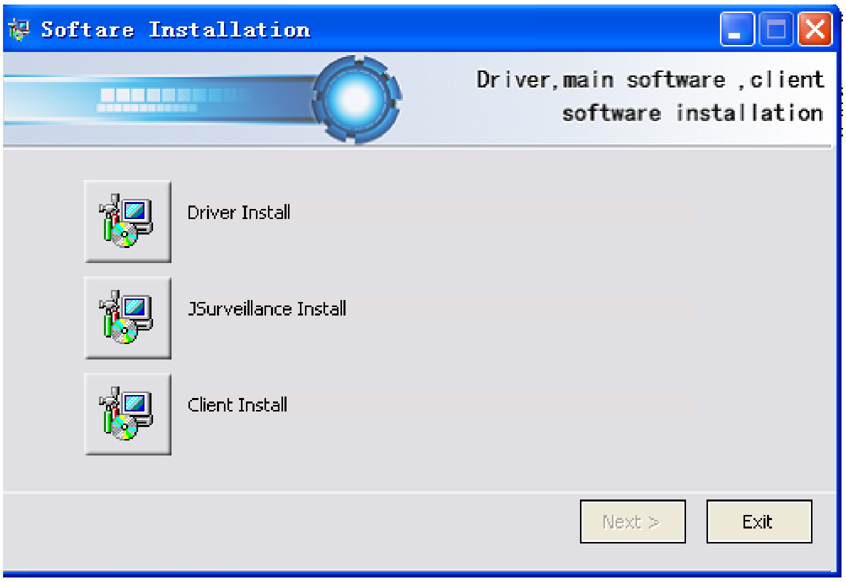
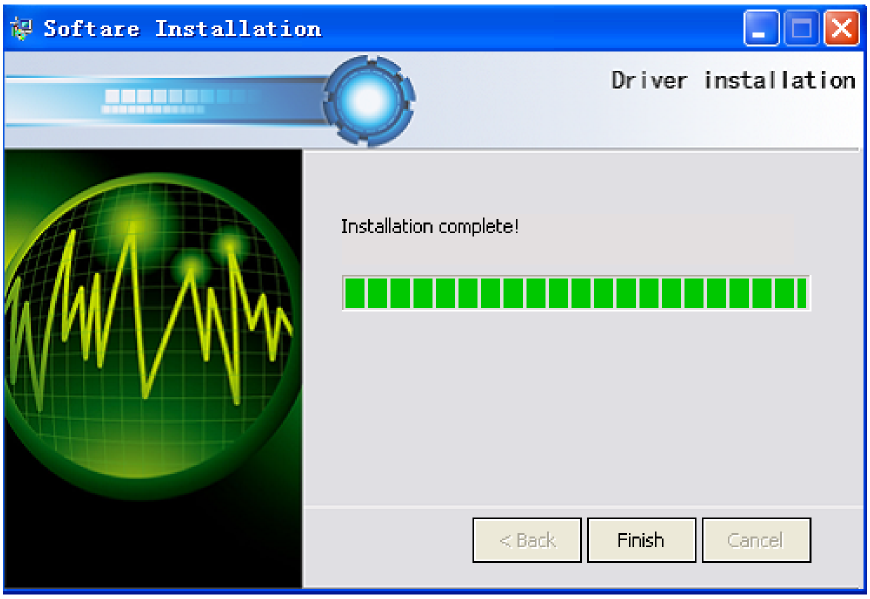

Softare Installation
Driver,main software ,client software installation
Driver Install
JSurveillance Install
Client Install
Next >
Exit

Figure 1 Software Installation interface 1

4.2.1 Install driver software

Click ‘Driver install’and will start to intall driver software..After finish installation,Click ‘Finish’,return to installation main menu.

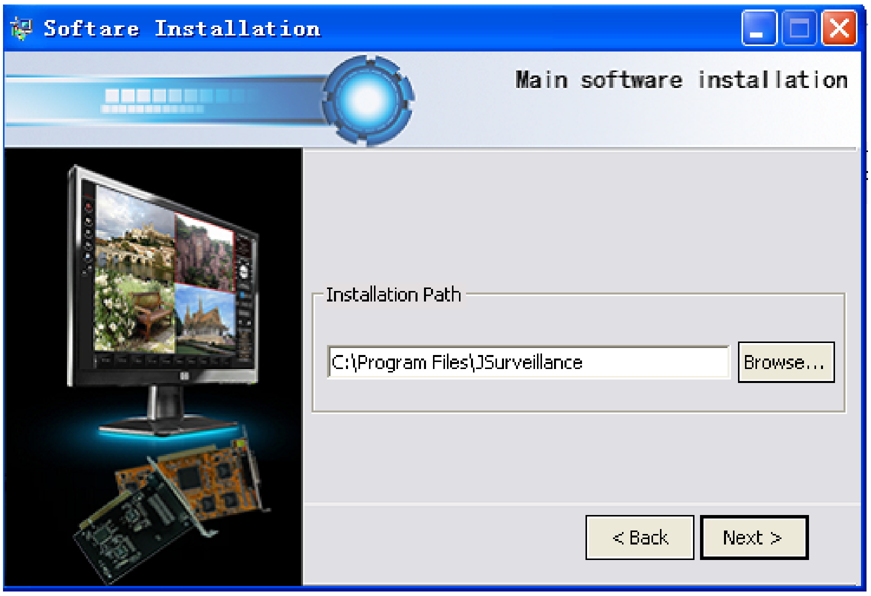

Softare Installation
Driver installation
< Back
Finish
Cancel

Installation complete!

Figure 2 Software Installation interface 2

4.2.2 Install JSurveillance software

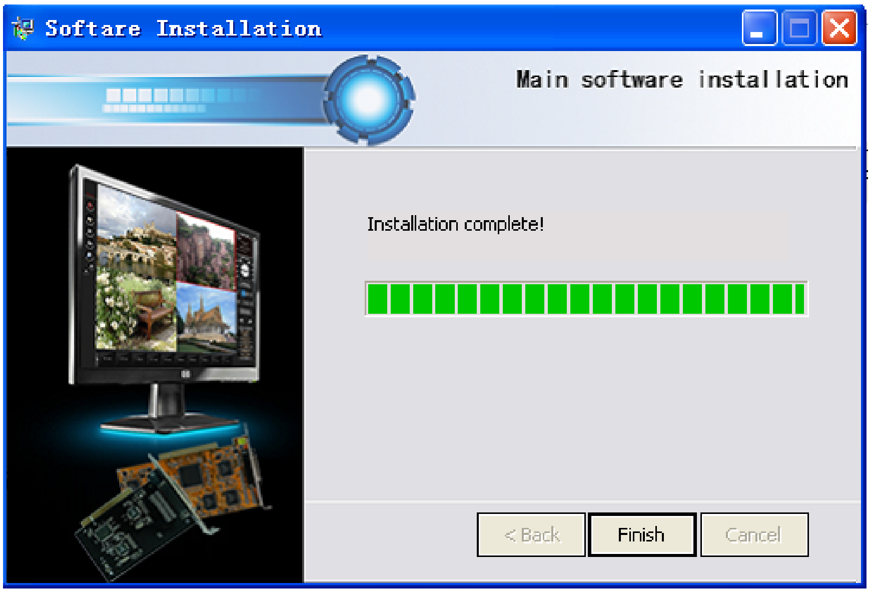
Click ‘JSurveillance install’and pop up the menu as below,


Softare Installation
Main software installation
Installation Path
Browse...
< Back
Next >

C:\Program Files\JSurveillance

Figure 3 Software Installation interface 3

User can change the installation path, and click‘Next’,


Softare Installation
Main software installation
< Back
Finish
Cancel

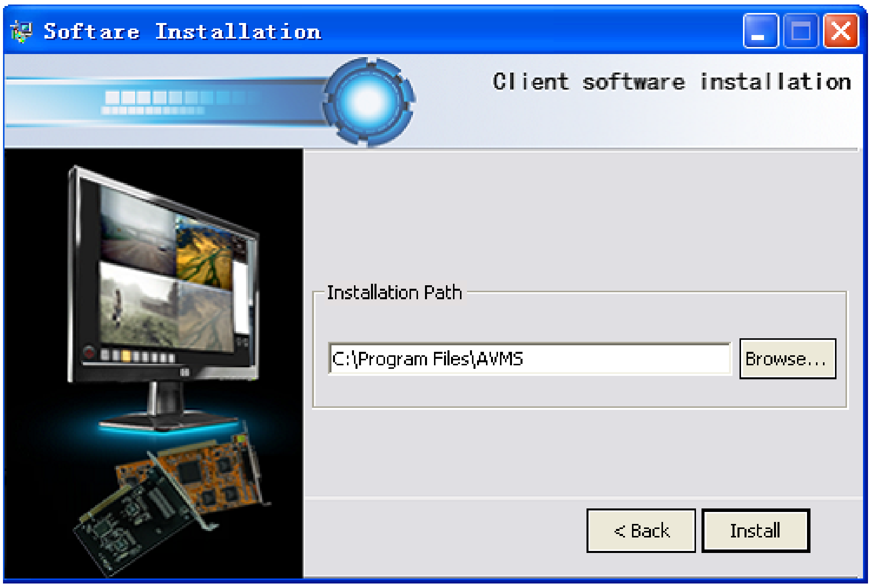
Installation complete!

Figure 4 Software Installation interface 4

Then click'Finish',and return to installation main menu.

4.2.3 Install client software

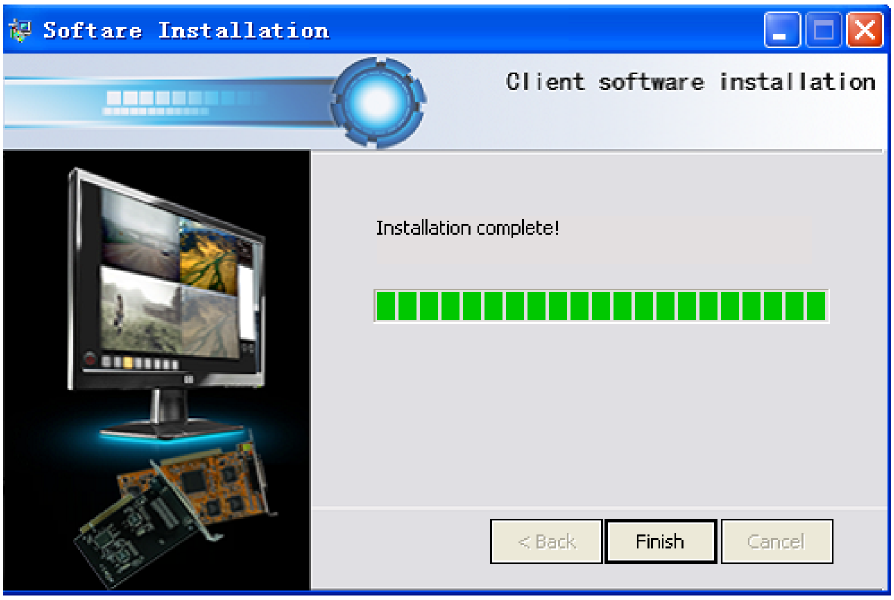
Click 'Client Install'and will pop up the menu below,


Softare Installation
Client software installation
Browse...
< Back
Install

Installation Path: C:\Program Files\AVMS

Figure 5 Software Installation interface 5

User can change the installation path, and click'Install', After finish installation,will pop up the menu below,



Client software installation

Installation complete!

Figure 6 Software Installation interface 6

Then click‘Finish’,and return to installation main menu.

4.3 Uninstall software

4.3.1 Uninstall Jsurveillance software

Mode 1: Click "Start/Programs/ Intelligent Surveillance / ServerUninstall ",and Jsurveillance software can be uninstalled.

Mode 2: User need to enter installation Directory （System default is C:\Program Files\Jsurveillance）, and user only need to double click ServerUninstall.exe so as to uninstall Jsurveillance software.

4.3.2 Uninstall client software

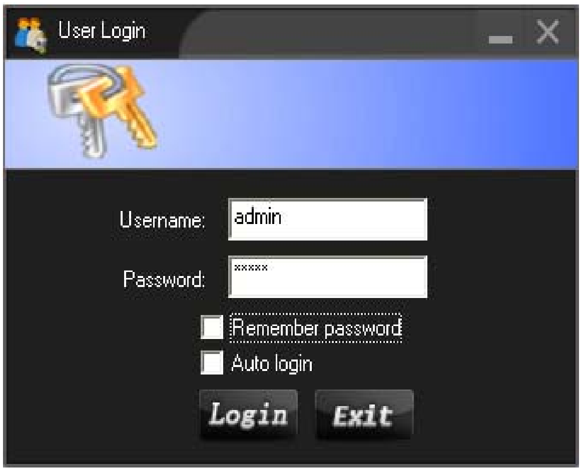
Mode 1: Click "Start/Programs/ Intelligent Surveillance / ClientUninstall ",and client software can be uninstalled.

Mode 2: User need to enter installation Directory（System default is C:\Program Files\AVMS）, and user only need to double click ClientUninstall.exe so as to uninstall client software.

5 Login and exit

5.1 Login the system

Click the shortcut icon'Jsurveillance' on the desktop, or click the "Start/Programs/ Intelligent Surveillance / JSurveillance ",and then start the login window as the following picture,



Username: admin

Password: *****

☐ Remember password

☐ Auto login

Figure 7 User Login interface

User name and user password should be a valid user name and password set by system administrator. After software is installed, the default system administrator user name is ‘admin’, password is ‘admin’, and users can change the password by themselves.

Our system supports remembering password and auto login.

For the first login, the default storage is D drive (available capacity must be larger than 6G), and

storage path is D: \AVMS_REC.if the computer does not have D drive or the D drive’s available capacity is less than 6G, System will automatically look for the storage disk which is more then 6G according to the order of E drive,F drive … and storage folder is AVMS_REC.If user only have one driver C and its available capacity is more then 6G,system will use C drive for the storage.

5.2 Exit the system

Click‘Exit surveillance’button of the main menu and choose‘Exit’, and after enter the password ,then you can exit the surveillance system.

[Recommendation]:

In order to make the surveillance software stably run in Windows system, it is recommended that the user restarts the computer once a week. System auto restart please refer to basic function’s ‘System auto rebooting configuration’.

6 Main menu description

After login the system,you could see the surveillance main menu as the following,

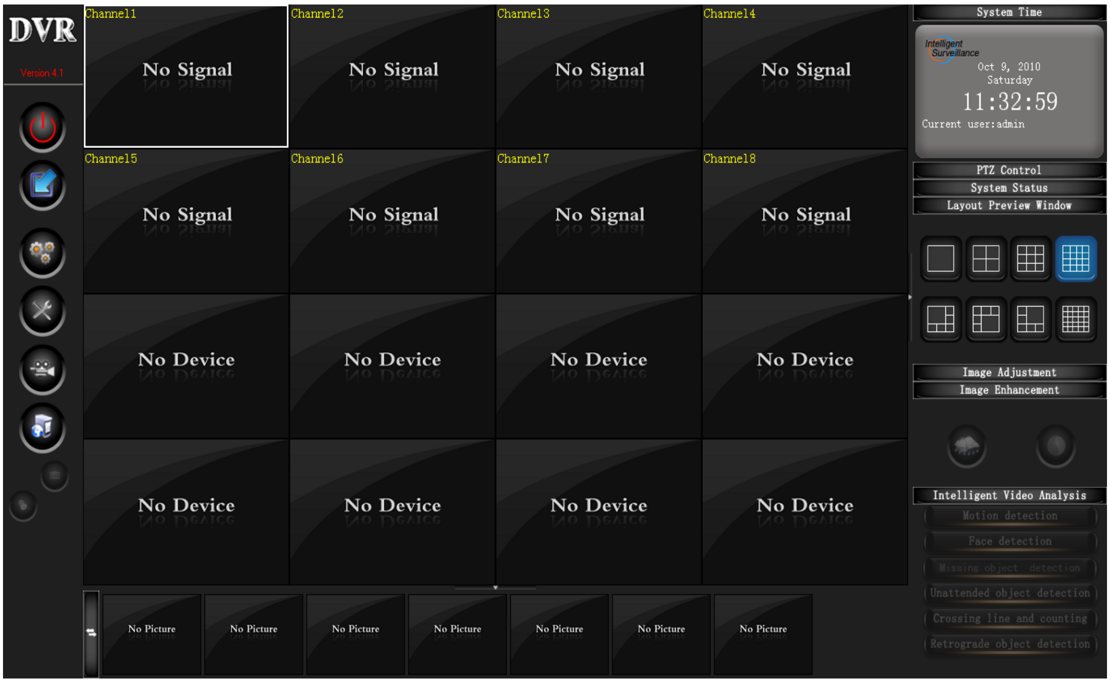

DVR
Version 4.1
Channel1
No Signal
Channel2
No Signal
Channel3
No Signal
Channel4
No Signal
Channel5
No Signal
Channel6
No Signal
Channel7
No Signal
Channel8
No Signal
No Device
No Device
No Device
No Device
No Device
No Device
No Device
No Device
No Picture
No Picture
No Picture
No Picture
No Picture
No Picture
No Picture
System Time
Intelligent Surveillance
Oct 9, 2010
Saturday
11:32:59
Current user:admin
PTZ Control
System Status
Layout Preview Window
Image Adjustment
Image Enhancement
Intelligent Video Analysis
Motion detection
Face detection
Missing object detection
Unattended object detection
Crossing line and counting
Retrograde object detection

Figure 8 Main menu description interface

6.1 Video preview zone

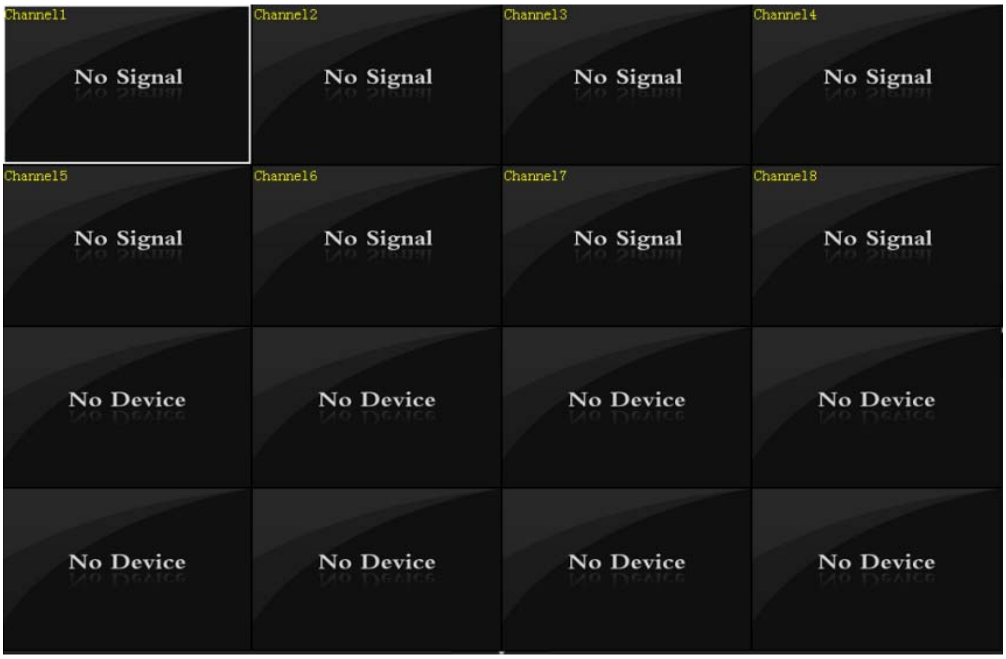

Channel1
No Signal
Channel2
No Signal
Channel3
No Signal
Channel4
No Signal
Channel5
No Signal
Channel6
No Signal
Channel7
No Signal
Channel8
No Signal
No Device
No Device
No Device
No Device
No Device
No Device
No Device
No Device

Figure 9 Video preview zone interface

6.2 Video capture zone

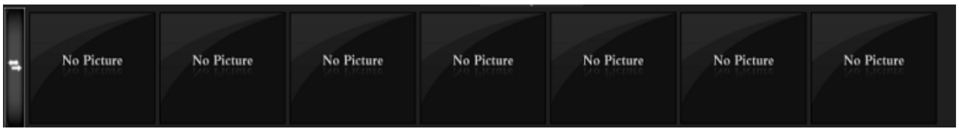
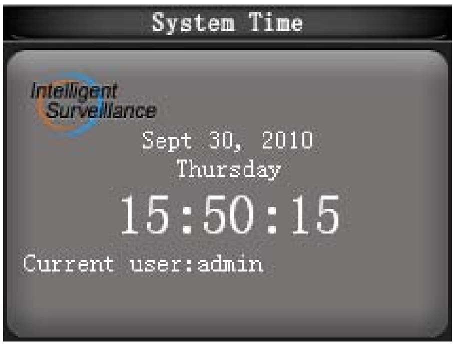

No Picture
No Picture
No Picture
No Picture
No Picture
No Picture
No Picture

Figure 10 Video capture zone interface

6.3 Control zone

6.3.1 System Time Zone:



System Time

Intelligent Surveillance

Sept 30, 2010
Thursday
15:50:15
Current user:admin

Figure 11 System time interface

6.3.2 PTZ control zone

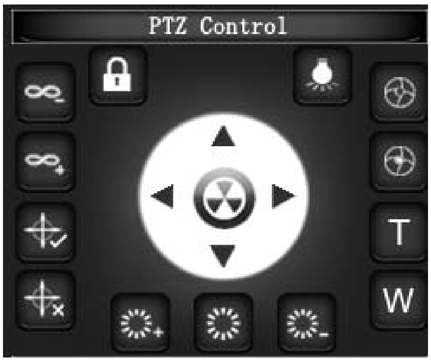


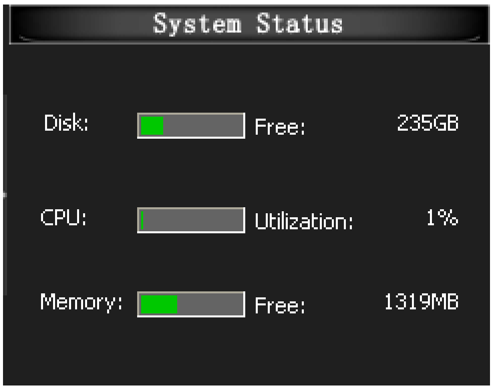
Figure 12 PTZ control interface

∞-	Focus near	Close-focusing
∞+	Focus far	Focus Distance
⊕	Open aperture	Zoom in the lens aperture
⊕	Close aperture	Zoom out the lens aperture
T	Tele	Adjust the far focal distance
W	Wide	Adjust the near focal distance
✛✓	Start auto cruise	Start auto cruise
✛×	Turn off auto cruise	Turn off auto cruise

🔒	Lock	Lock the PTZ control button
💡	Light	Open PTZ auxiliary light
✺+	Turn to preset position	PTZ turn to preset position
✺	Set preset position	Set preset position
✺–	Clear preset position	Clear preset position

Table 2 PTZ control zone interface meaning of each icon

6.3.3 System status zone: display the status of hard disk capacity, CPU and memory


System Status

Disk: Free: 235GB

CPU: Utilization: 1%

Memory: Free: 1319MB

Figure 13 System status interface

6.3.4 Layout preview window zone

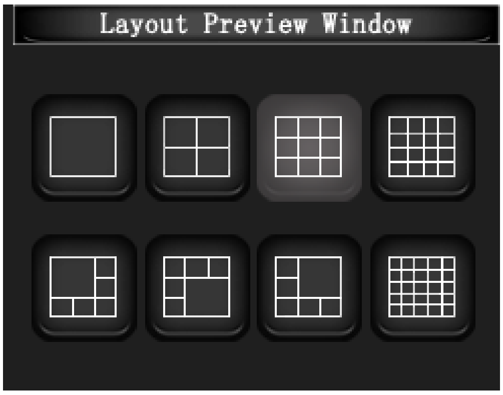


Figure 14 Layout preview window

6.3.5 Image adjustment zone

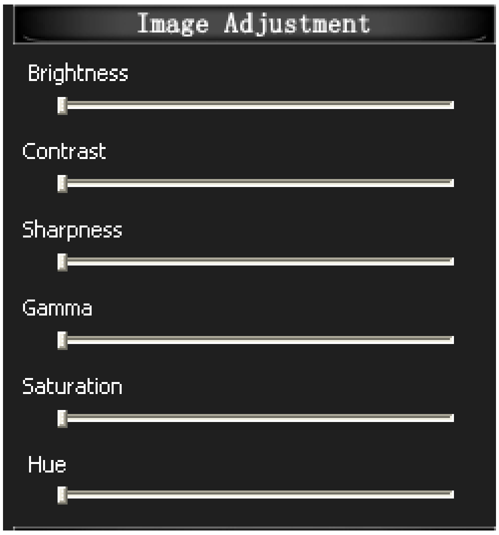


Image Adjustment
Brightness
Contrast
Sharpness
Gamma
Saturation
Hue

Figure 15 Image adjustment interface

6.3.6 Image Enhancement zone

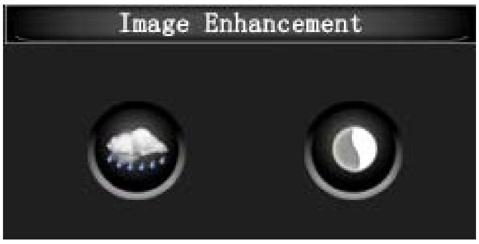


Image Enhancement

Figure 16 Image enhancement interface

6.3.7 Intelligent video analysis zone

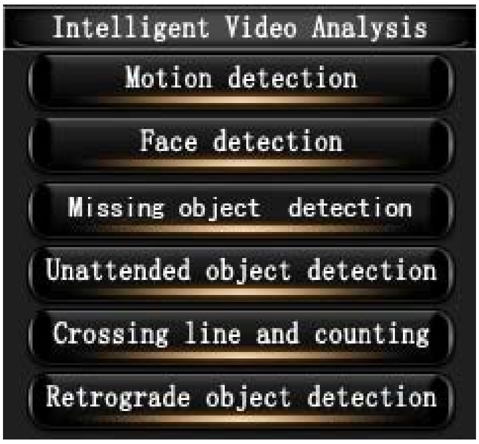

Intelligent Video Analysis
Motion detection
Face detection
Missing object detection
Unattended object detection
Crossing line and counting
Retrograde object detection

Figure 17 Intelligent video analysis interface

6.4 Function button bar

(1) ⏻ Exit surveillance (Include Full Screen, UI_lock/unlock, Exit)

(2) Minimize

(3) Configuration (Include Channel configuration,System configuration, Configuration import, Configuration Export, Restore factory settings)

(4) System function (Include Start all channels’recording, Stop all channels’ recording, Map management, User management, Image scan, Log information,Work plan)

(5) Playback

(6) Network (Open the server or Stop the server)

(7) Stop alarm

(8) Capture picture

(9) Zoom in

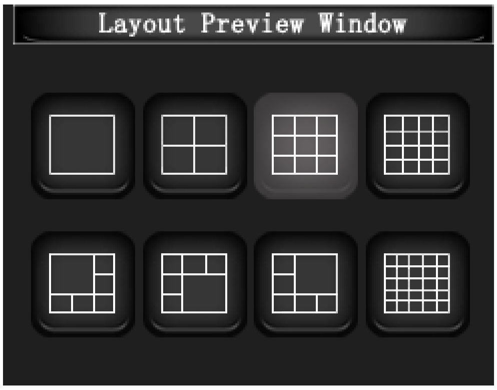
7 Basic function

7.1 Video Display

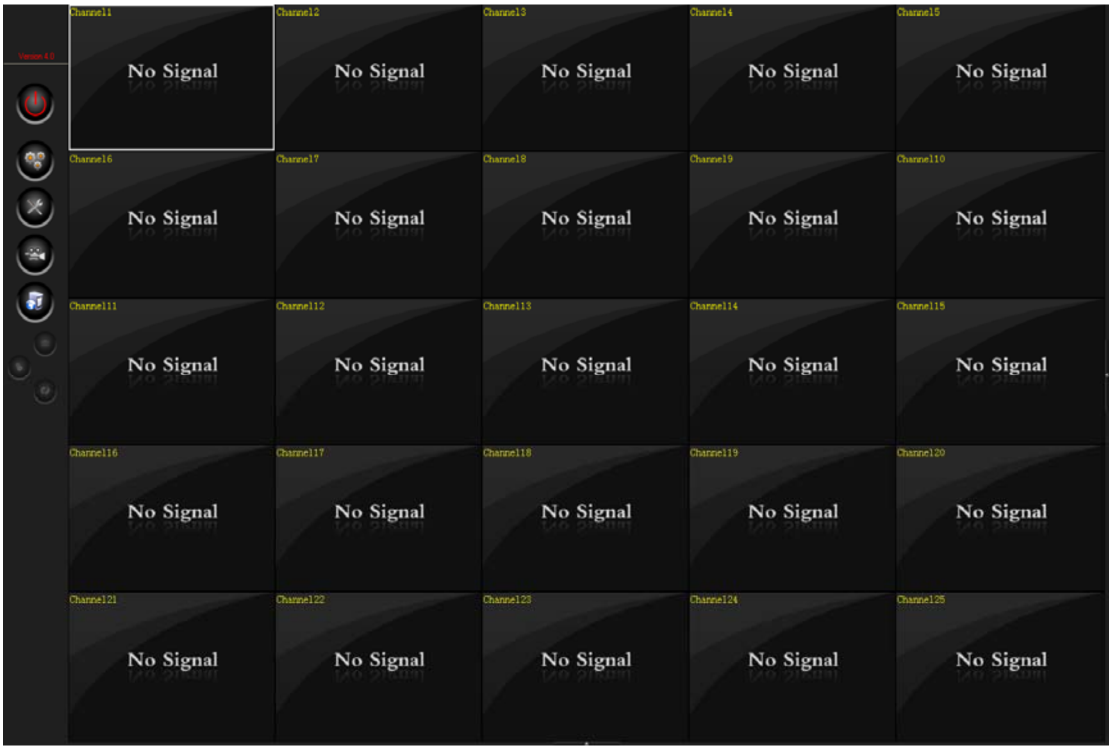
(1) Video Preview

※ **Channel video drag:** Use mouse’s left button to drag a channel’s video to the other channel so that you can change its position in the Video preview zone.

※ **Multi channels configuration:** Could configure in the Control zone’s layout preview window options, support 4/6/9/16/25 multi channels mode.


Layout Preview Window

※ **Video stretch:** You can click on the Video preview zone's rightmost sidebar and the bottom sidebar to realize full screen display as the following picture,


Channel1
No Signal
Channel2
No Signal
Channel3
No Signal
Channel4
No Signal
Channel5
No Signal
Channel6
No Signal
Channel7
No Signal
Channel8
No Signal
Channel9
No Signal
Channel10
No Signal
Channel11
No Signal
Channel12
No Signal
Channel13
No Signal
Channel14
No Signal
Channel15
No Signal
Channel16
No Signal
Channel17
No Signal
Channel18
No Signal
Channel19
No Signal
Channel20
No Signal
Channel21
No Signal
Channel22
No Signal
Channel23
No Signal
Channel24
No Signal
Channel25
No Signal

If you want to cancel full screen display, then click the rightmost and bottom sidebar again.

※ **Full screen:** User could click and choose'Full screen'to realise it.

(2) Capture the picture

Choose one channel needed to capture the picture, and click the function button 'Draw the picture' on the right of main menu.The picture will be saved to a configured folder, and it will be displayed in Video capture zone . The path of saving the captured pictures can be changed in the local storage settings of Channel configuration.

Captured picture scan

Click'System function'button on the main menu and choose'image scan',the menu for the picture scan is popped up.

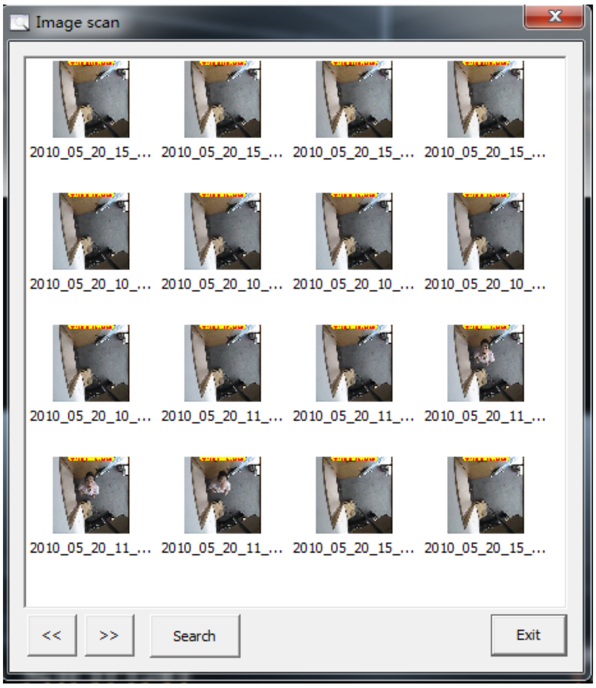
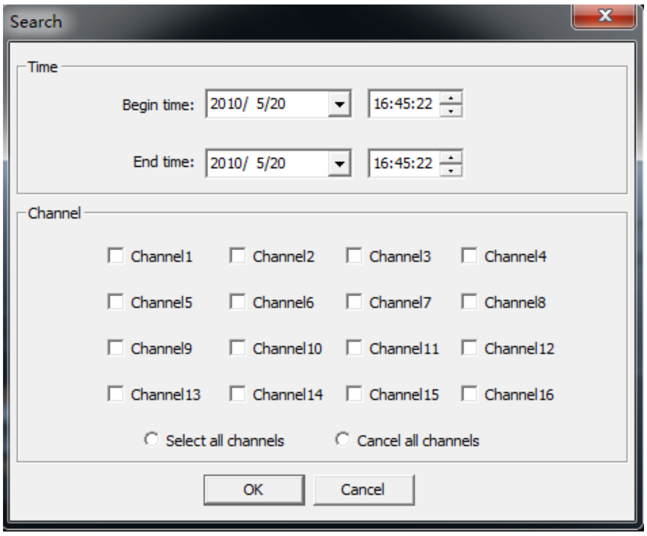


Image scan
2010_05_20_15_...
2010_05_20_15_...
2010_05_20_15_...
2010_05_20_15_...
2010_05_20_10_...
2010_05_20_10_...
2010_05_20_10_...
2010_05_20_10_...
2010_05_20_10_...
2010_05_20_11_...
2010_05_20_11_...
2010_05_20_11_...
2010_05_20_11_...
2010_05_20_11_...
2010_05_20_15_...
2010_05_20_15_...
<<
>>
Search
Exit

Figure 18 Image scan interface

If need to search the related picture,click'Search'button Search. Then choose the corresponding time and channel condition,click'OK'button.


Search
Time
Channel
OK
Cancel

Begin time: 2010/ 5/20 16:45:22

End time: 2010/ 5/20 16:45:22

☐ Channel1 ☐ Channel2 ☐ Channel3 ☐ Channel4

☐ Channel5 ☐ Channel6 ☐ Channel7 ☐ Channel8

☐ Channel9 ☐ Channel10 ☐ Channel11 ☐ Channel12

☐ Channel13 ☐ Channel14 ☐ Channel15 ☐ Channel16

○ Select all channels ○ Cancel all channels

Figure 19 Search interface

(3) Image adjustment

Users can adjust video’s brightness, contrast, sharpness, color saturation and color.

[There are 2 ways to realize the above].

Mode 1: Can adjust parameters in the video effect adjustment of the main menu’s Control zone.

Mode 2: Click the function button ‘Configuration’ ,then click ‘Channel configuration’ to enter the configuration menu. After choosing‘Video device configuration’ , can adjust parameters as the following picture,

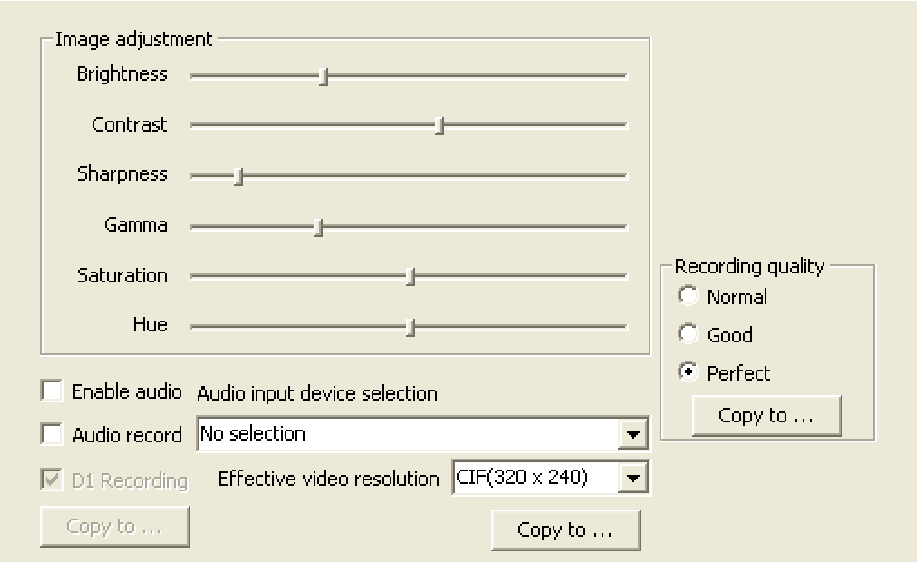


Image adjustment
Brightness
Contrast
Sharpness
Gamma
Saturation
Hue
Audio input device selection
Copy to ...
Copy to ...
Copy to ...

☐ Enable audio

☐ Audio record

Audio input device selection: No selection

☑ D1 Recording

Effective video resolution: CIF(320 x 240)

Recording quality: ○ Normal ○ Good ● Perfect

Figure 20 Image adjustment interface

(4) Adjust effective video resolution

Click the function button ‘Configuration’ ,then click ‘Channel configuration’ to enter the configuration menu. After choosing‘Video device configuration’, user can adjust effective video resolution as the following picture,

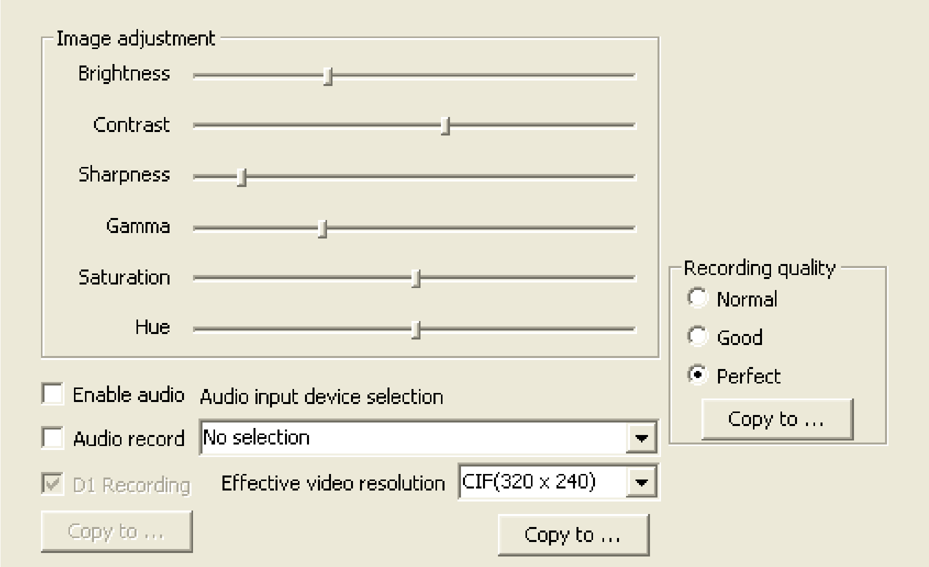


Image adjustment

Brightness

Contrast

Sharpness

Gamma

Saturation

Hue

☐ Enable audio

Audio input device selection: No selection

☐ Audio record

☑ D1 Recording

Effective video resolution: CIF(320 x 240)

Recording quality

○ Normal

○ Good

● Perfect

Copy to ...
Copy to ...
Copy to ...

7.2 Recording

7.2.1 Manual recording

Manual recording is system default..After user operate single channel's recording or all channels'recording, continuous recording will proceed.

(1) Single channel's recording:

First select one channel, and click the right mouse button ,and then choose 'Open the selected channel'and choose 'Start the recording of selected channel'as the picture below, and then user can start this channel's recording.

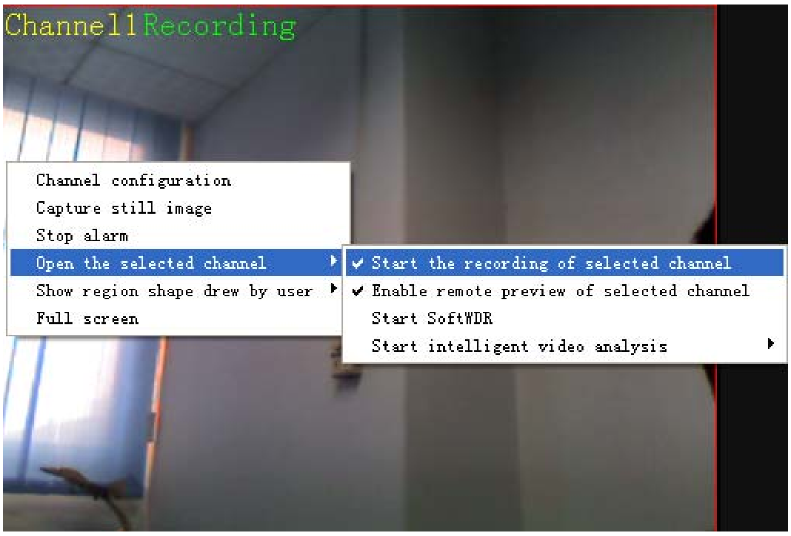

Channel1Recording
Channel configuration
Capture still image
Stop alarm
Open the selected channel
Show region shape drew by user
Full screen
✓ Start the recording of selected channel
✓ Enable remote preview of selected channel
Start SoftWDR
Start intelligent video analysis

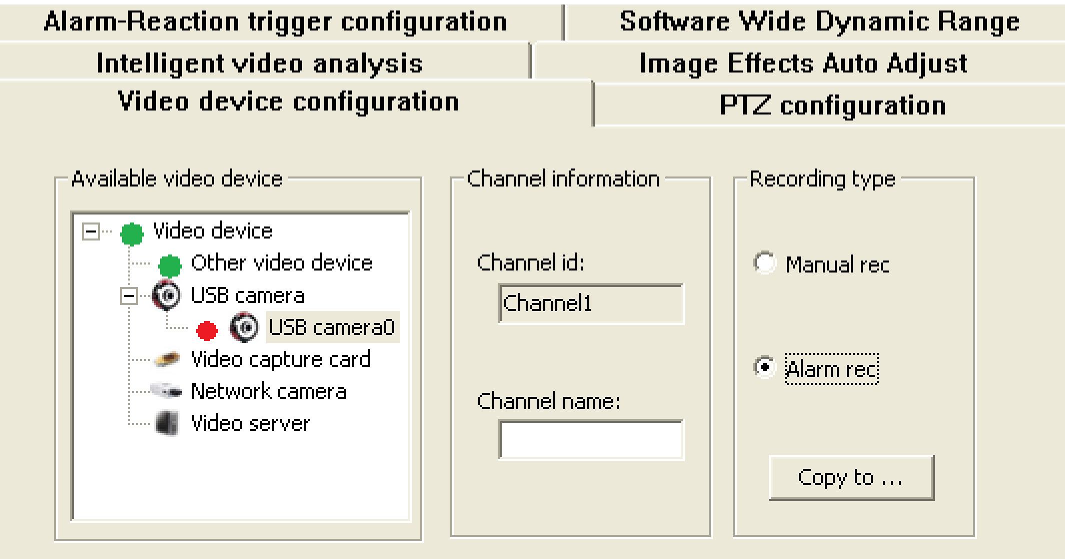
Figure 21 Single channel's recording setting interface

(2) **All channels'recording:**

Click main menu's function button 'System function' and choose'start all channels'recording' to start recording of all channels,and click 'Close all channels' recording' button to cancel the recording of all channels.

7.2.2 Alarm recording

Alarm recording is that user use intelligent function to trigger recording. For example, motion detection,face detection, unattended object detection, missing object detection, guard line detection, retrograde detection can be used to trigger recording.


Alarm-Reaction trigger configuration
Software Wide Dynamic Range
Intelligent video analysis
Image Effects Auto Adjust
Video device configuration
PTZ configuration
Available video device
Video device
Other video device
USB camera
USB camera0
Video capture card
Network camera
Video server
Channel information
Recording type
Copy to ...

Channel id: Channel1

Channel name:

○ Manual rec

● Alarm rec

Figure 22 Alarm recording setting interface

[Operation procedure is as below]:

(1) User need to change the recording type from'Manual rec' to'Alarm rec'in the Video device configuration of 'Channel configuration'.

(2) User need to configure the alarm recording in Alarm-Reaction trigger configuration.The detailed operation pls refer to **Part 10** Alarm function/ Alarm trigger configuration/ Select triggering alarm action/Recording.

(3) Finally enable the action of intelligent function such as motion detection,face detection and etc. and user can start the alarm recording.

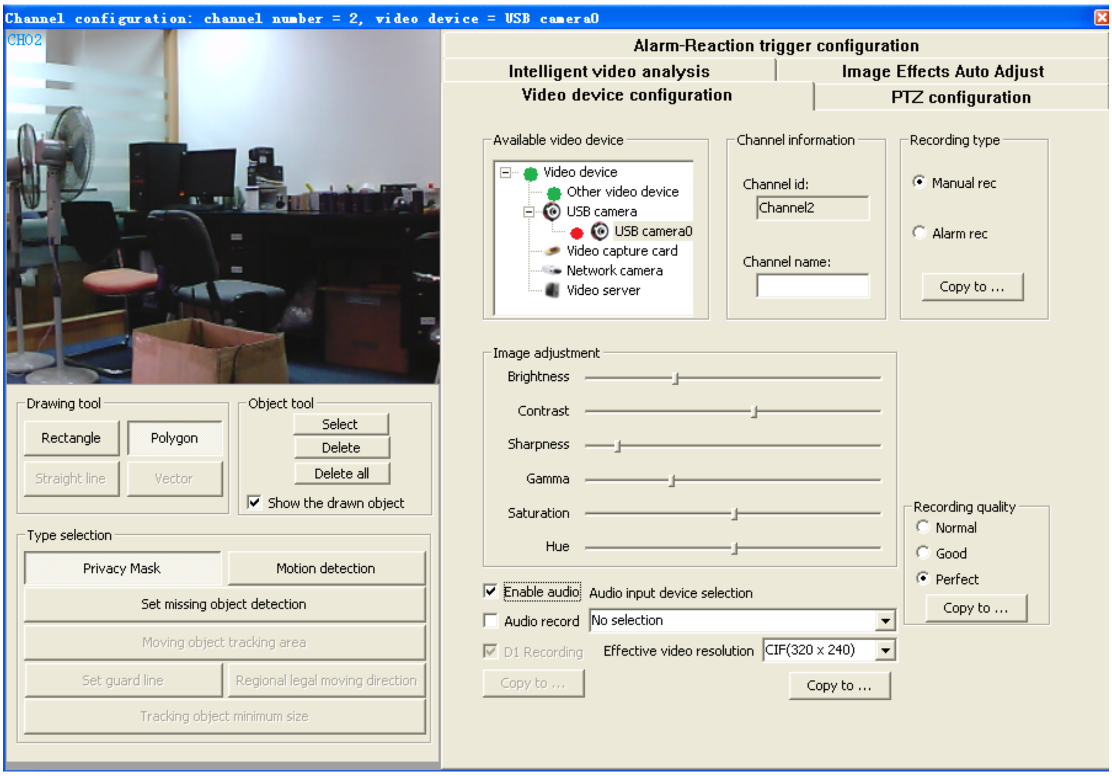
Our system set manual recording is prior. After user start alarm recording,if user start or stop the recording manually (use'Start/Stop all channels'recording'or'Start/Stop single channel's recording'), alarm recording will be stopped automatically and manual recording will go on.

7.3 Audio

This software supports computer microphone's real-time monitoring and audio playback and can support multiple microphones, and the audio and video are synchronization.

7.3.1 Real-time monitoring

Select the channel you want to do audio-video synchronization, and then click"Channel Configuration"


Channel configuration: channel number = 2, video device = USB camera0

Channel id: Channel2

Channel name:

Recording type: ● Manual rec ○ Alarm rec

Recording quality: ○ Normal ○ Good ● Perfect

☑ Enable audio

Audio input device selection: No selection

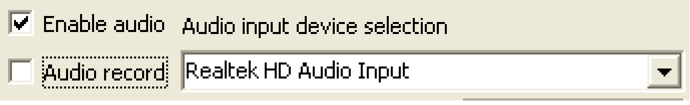
☐ Audio record

☑ D1 Recording

Effective video resolution: CIF(320 x 240)

☑ Show the drawn object
CH02
Alarm-Reaction trigger configuration
Intelligent video analysis
Image Effects Auto Adjust
Video device configuration
PTZ configuration
Available video device
Video device
Other video device
USB camera
USB camera0
Video capture card
Network camera
Video server
Channel information
Copy to ...
Image adjustment
Brightness
Contrast
Sharpness
Gamma
Saturation
Hue
Copy to ...
Copy to ...
Copy to ...
Drawing tool
Rectangle
Polygon
Straight line
Vector
Object tool
Select
Delete
Delete all
Type selection
Privacy Mask
Motion detection
Set missing object detection
Moving object tracking area
Set guard line
Regional legal moving direction
Tracking object minimum size

Select "Enable audio", then select the audio input device selection.


☑ Enable audio

Audio input device selection: Realtek HD Audio Input

☐ Audio record

Figure 23 Audio input device selection interface

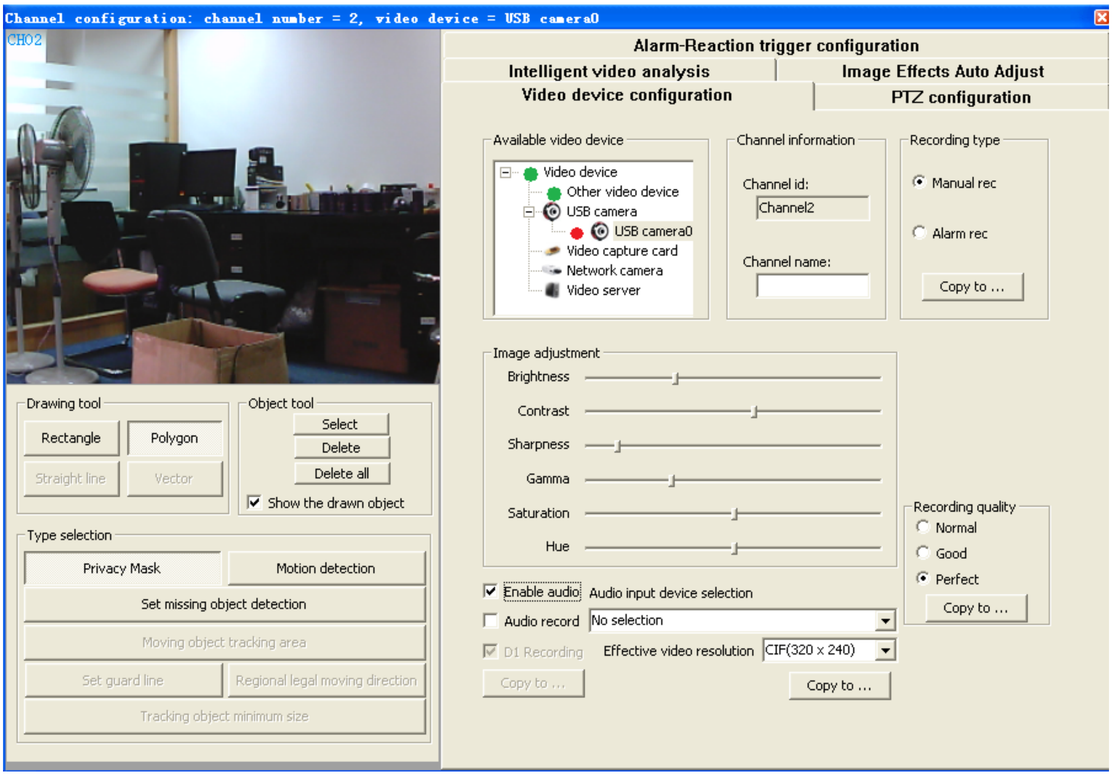
Then exit"Channel Configuration".

If you want to close Real-time monitoring,you only need to cancel"Enable audio" ☐ Enable audio in "Channel Configuration".(We recommend that it's better to achieve real-time monitoring just for a channel.)

7.3.2 Audio recording

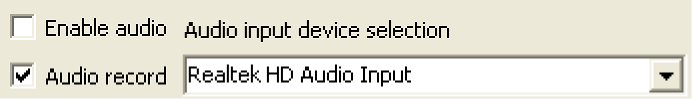
(1) Audio recording configuration

Select the channel you want to do the audio-video synchronization, and then click"Channel Configuration"


Channel configuration: channel number = 2, video device = USB camera0

CH02
Alarm-Reaction trigger configuration
Intelligent video analysis
Image Effects Auto Adjust
Video device configuration
PTZ configuration
Available video device
Video device
Other video device
USB camera
USB camera0
Video capture card
Network camera
Video server
Channel information
Channel id:
Channel2
Channel name:
Recording type
● Manual rec
○ Alarm rec
Copy to ...
Image adjustment
Brightness
Contrast
Sharpness
Gamma
Saturation
Hue
Recording quality
○ Normal
○ Good
● Perfect
Copy to ...
☑ Enable audio
Audio input device selection
☐ Audio record
No selection
☑ D1 Recording
Effective video resolution
CIF(320 x 240)
Copy to ...
Copy to ...
Drawing tool
Rectangle
Polygon
Straight line
Vector
Object tool
Select
Delete
Delete all
☑ Show the drawn object
Type selection
Privacy Mask
Motion detection
Set missing object detection
Moving object tracking area
Set guard line
Regional legal moving direction
Tracking object minimum size

Select "Audio record", then select the audio input device selection.


☐ Enable audio Audio input device selection

☑ Audio record Realtek HD Audio Input

Figure 24 Audio record selection interface

Then exit"Channel Configuration"and start recording of this channel,thus,the recording files will include audio.

(2) Playback audio

Click 'Playback' on the main menu,

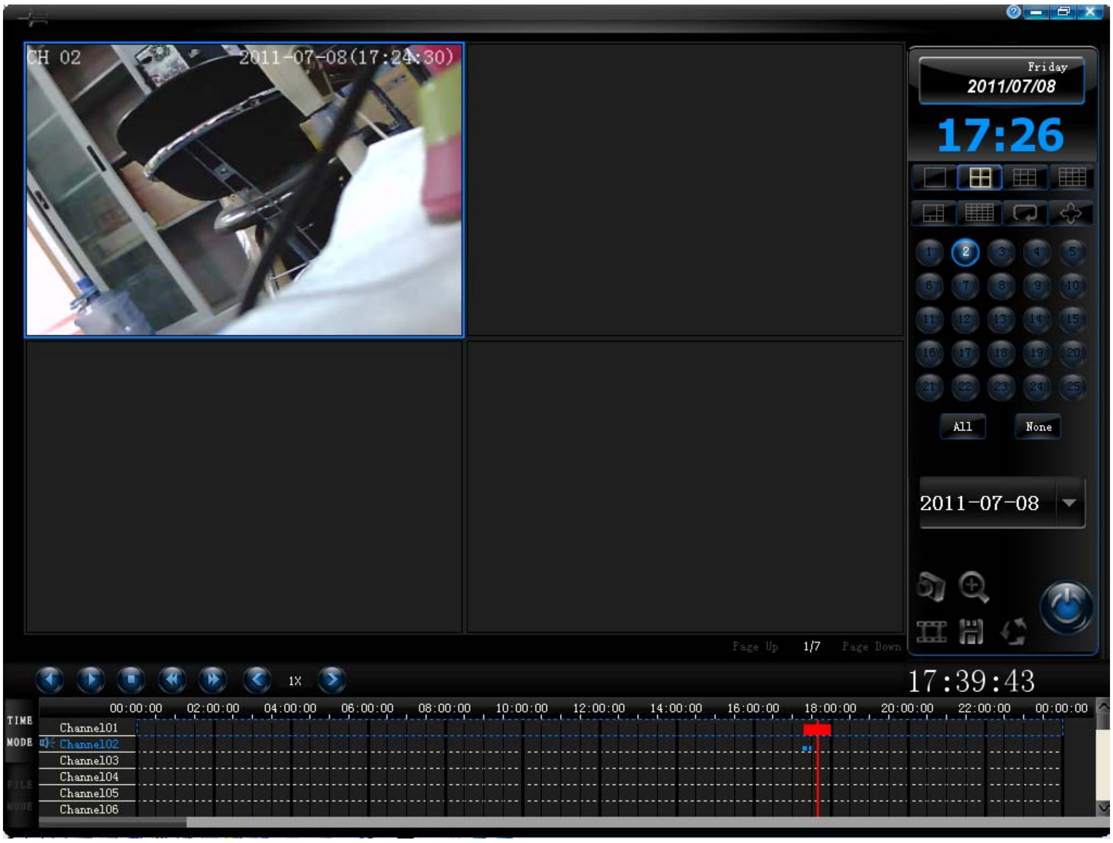

CH 02
2011-07-08(17:24:30)
Friday
2011/07/08
17:26
All
None
2011-07-08
Page Up
1/7
Page Down
1X
17:39:43
TIME MODE
FILE MODE
00:00:00
02:00:00
04:00:00
06:00:00
08:00:00
10:00:00
12:00:00
14:00:00
16:00:00
18:00:00
20:00:00
22:00:00
00:00:00
Channel01
Channel02
Channel03
Channel04
Channel05
Channel06

Figure 25 Playback audio interface

If there is audio on recording,When on the "Time Playback"it will show the icon of audio on each channel,🔊means audio open, while 🔇 means audio close,you can change each other through clicking icon.

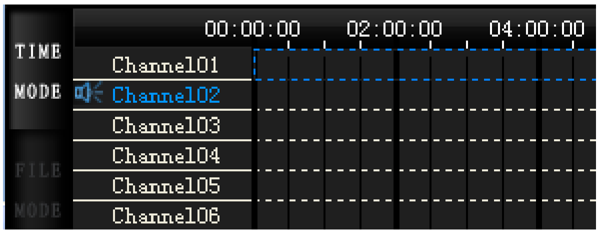
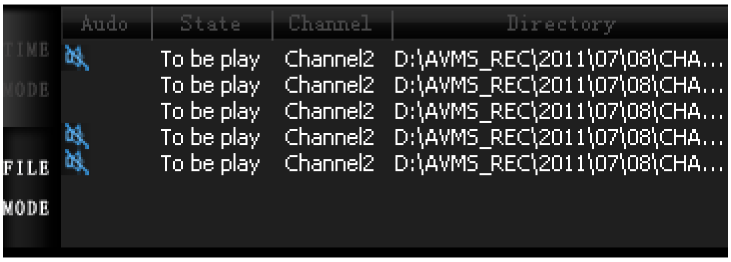

TIME
MODE
FILE
MODE
00:00:00
02:00:00
04:00:00
Channel01
Channel02
Channel03
Channel04
Channel05
Channel06

Figure 26 Time mode interface

If there is audio on recording,When on the "File Playback"it will show the icon of audio on each channel,🔊means audio open, while 🔇 means audio close,you can change each other through clicking icon.


TIME
MODE
FILE
MODE

Audo	State	Channel	Directory
🔇	To be play	Channel2	D:\AVMS_REC\2011\07\08\CHA...
	To be play	Channel2	D:\AVMS_REC\2011\07\08\CHA...
	To be play	Channel2	D:\AVMS_REC\2011\07\08\CHA...
🔇	To be play	Channel2	D:\AVMS_REC\2011\07\08\CHA...
🔇	To be play	Channel2	D:\AVMS_REC\2011\07\08\CHA...

Figure 27 File mode interface

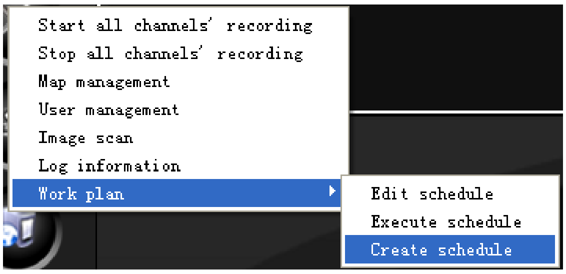
When play the recording files normally,you need to make sure the audio open🔊, so you can also see video recording and hear audio at the same time.

7.4 Work plan

Work plan could do the scheduled recording. After configure the work plan, if user has choosed manual recording, scheduled continuous recording will be executed; if user has choosed alarm recording, scheduled alarm recording will be executed.

7.4.1 Create new schedule

Click main menu's function button 'System function' and choose'Work plan'and choose'Create schedule'as the following picture,


Start all channels' recording
Stop all channels' recording
Map management
User management
Image scan
Log information
Work plan
Edit schedule
Execute schedule
Create schedule

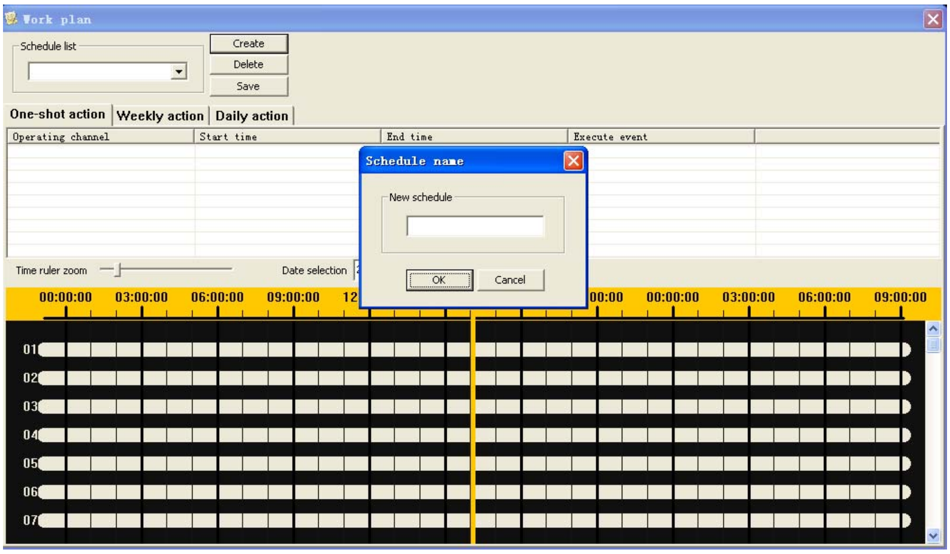
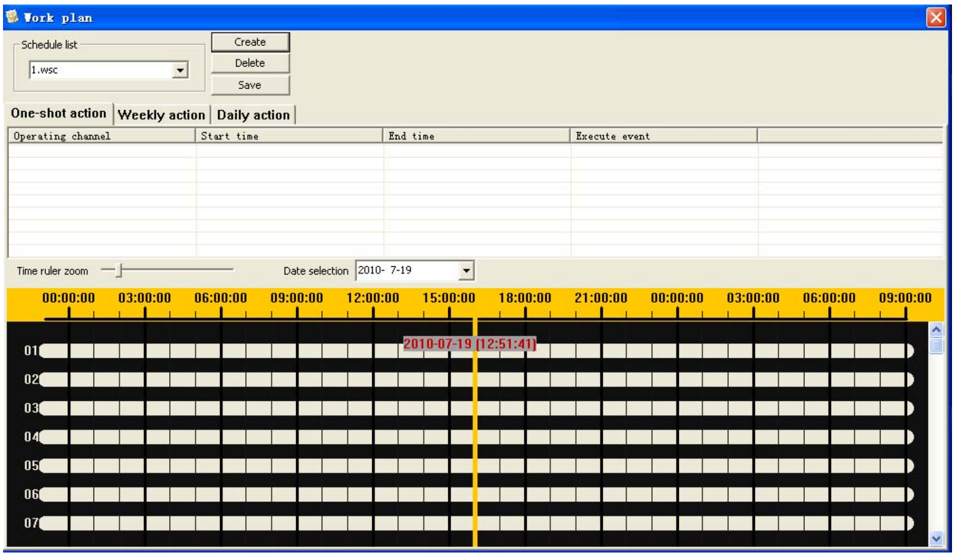

Work plan
Schedule list
Create
Delete
Save
One-shot action
Weekly action
Daily action
Operating channel
Start time
End time
Execute event
Schedule name
New schedule
OK
Cancel
Time ruler zoom
Date selection
00:00:00
03:00:00
06:00:00
09:00:00
12
00:00
00:00:00
03:00:00
06:00:00
09:00:00
01
02
03
04
05
06
07

Figure 28 Create new schedule interface

After input the plan name in‘New schedule’,click‘OK’and then choose one-shot action/week action/day action for this new plan(Only one action could be configured in one channel).

① **One-shot action:** The work plan will be only executed once.

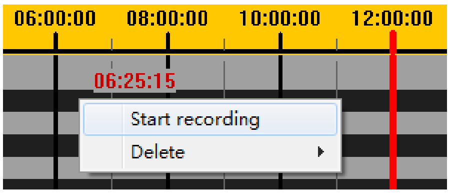

Work plan
Create
Delete
Save
One-shot action
Weekly action
Daily action
Operating channel
Start time
End time
Execute event
Time ruler zoom
00:00:00
03:00:00
06:00:00
09:00:00
12:00:00
15:00:00
18:00:00
21:00:00
00:00:00
03:00:00
06:00:00
09:00:00
2010-07-19 [12:51:41]
01
02
03
04
05
06
07

Schedule list 1.wsc

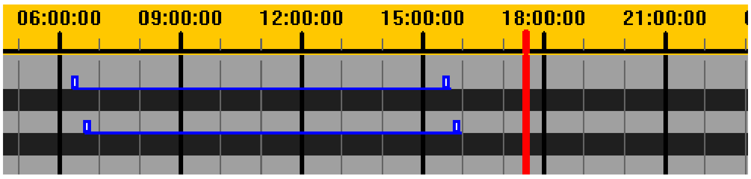
Date selection 2010- 7-19

Figure 29 One-shot action interface

First choose the date,and then on the time bar(black bar) of each channel click right button,and choose‘Start recording’.


06:00:00
08:00:00
10:00:00
12:00:00
06:25:15
Start recording
Delete

Then on the same time bar drag to the ending time and click left button,and now the configuration is successful.(In one channel, user could configure several plans which belong to the same action and are not conflicted each other.)


06:00:00
09:00:00
12:00:00
15:00:00
18:00:00
21:00:00

② **Weekly action:** User could configure weekly work plan and the plan will be executed every week. The configuration method is the same as one-shot action.

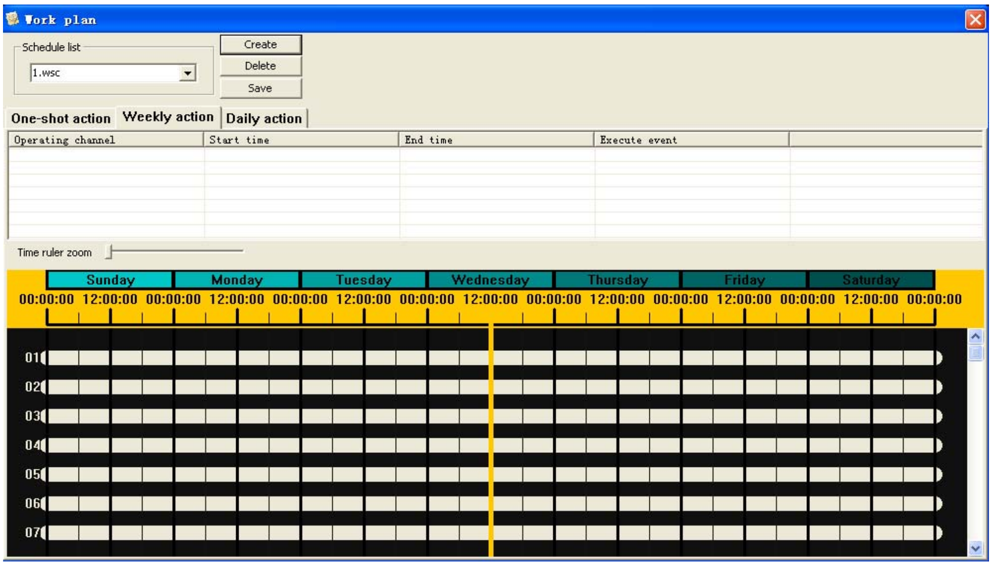

Work plan
Schedule list
1.wsc
Create
Delete
Save
One-shot action
Weekly action
Daily action
Operating channel
Start time
End time
Execute event
Time ruler zoom
Sunday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
00:00:00
12:00:00
01
02
03
04
05
06
07

Figure 30　Weekly action work plan interface

③ **Daily action:** User could configure daily work plan and the plan will be executed every day.　The configuration method is the same as one-shot action.

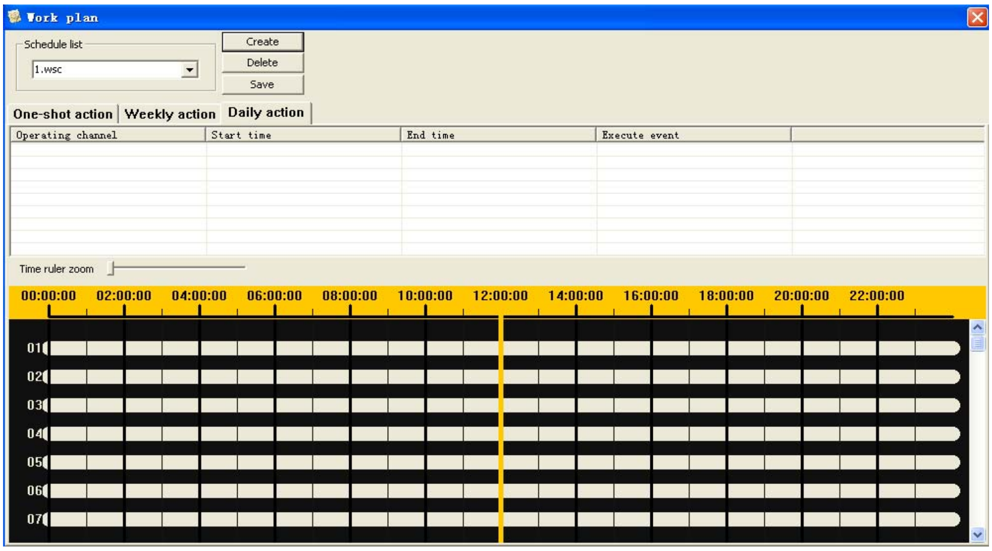

Work plan
Schedule list
1.wsc
Create
Delete
Save
One-shot action
Weekly action
Daily action
Operating channel
Start time
End time
Execute event
Time ruler zoom
00:00:00
02:00:00
04:00:00
06:00:00
08:00:00
10:00:00
12:00:00
14:00:00
16:00:00
18:00:00
20:00:00
22:00:00
01
02
03
04
05
06
07

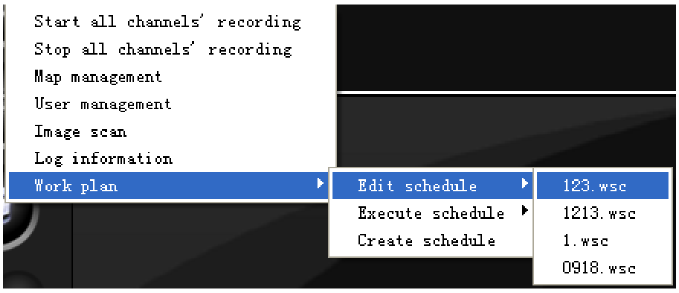
Figure 31　Daily action work plan interface

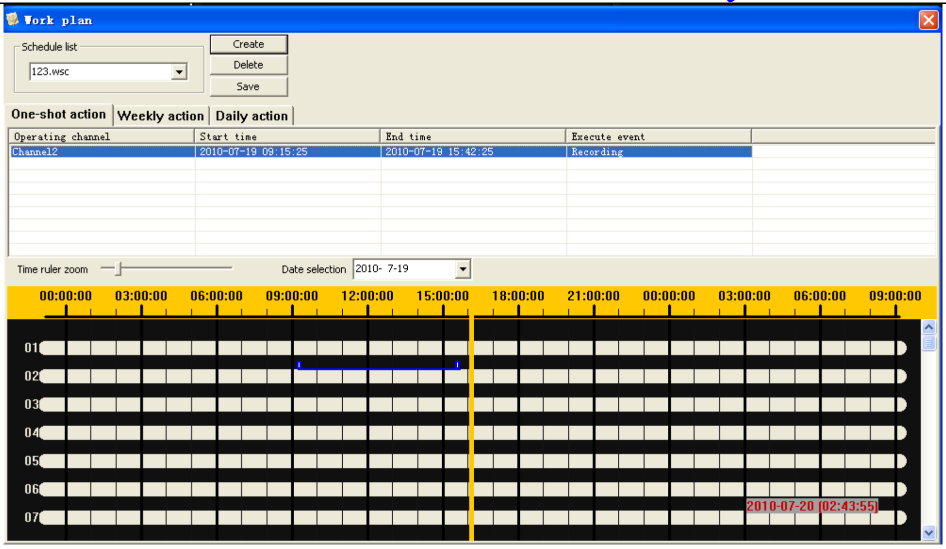
After finish configuration,click‘Save’button.

7.4.2 Edit schedule

※ The executing plan could not be edited and need to stop executing first.

Click main menu’s function button ‘System function’ and choose‘Work plan’and choose‘Edit schedule’as the following picture,


Start all channels’ recording
Stop all channels’ recording
Map management
User management
Image scan
Log information
Work plan
Edit schedule
Execute schedule
Create schedule
123.wsc
1213.wsc
1.wsc
0918.wsc


Work plan
Schedule list
Create
Delete
Save
One-shot action
Weekly action
Daily action
Time ruler zoom
Date selection
00:00:00
03:00:00
06:00:00
09:00:00
12:00:00
15:00:00
18:00:00
21:00:00
00:00:00
03:00:00
06:00:00
09:00:00
01
02
03
04
05
06
07
2010-07-20 [02:43:55]

Schedule list: 123.wsc

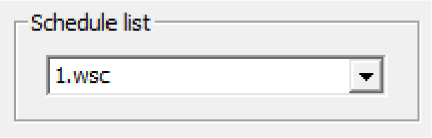
Operating channel	Start time	End time	Execute event
Channel2	2010-07-19 09:15:25	2010-07-19 15:42:25	Recording

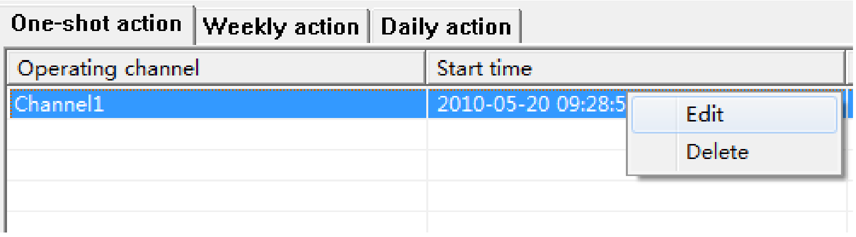
Date selection: 2010- 7-19

Figure 32　Edit schedule interface

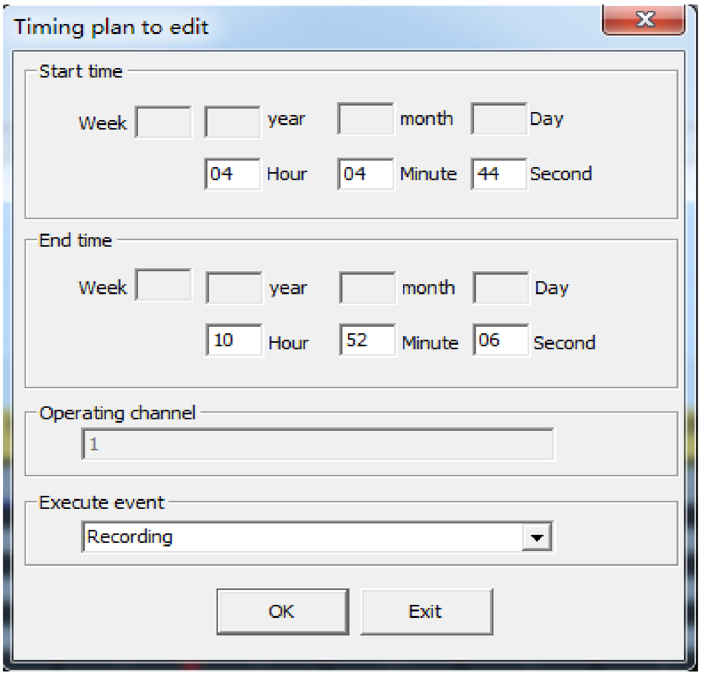
(1)　Modify plan

Choose the plan needed to modify, and click right button on the corresponding channel and choose‘Edit’.(If choose‘Delete’,that plan will be deleted.)


Schedule list: 1.wsc


One-shot action
Weekly action
Daily action
Edit
Delete

Operating channel	Start time
Channel1	2010-05-20 09:28:5


Timing plan to edit
Start time
Week
year
month
Day
End time
Operating channel
Execute event
OK
Exit

Start time: Hour 04, Minute 04, Second 44

End time: Hour 10, Minute 52, Second 06

Operating channel: 1

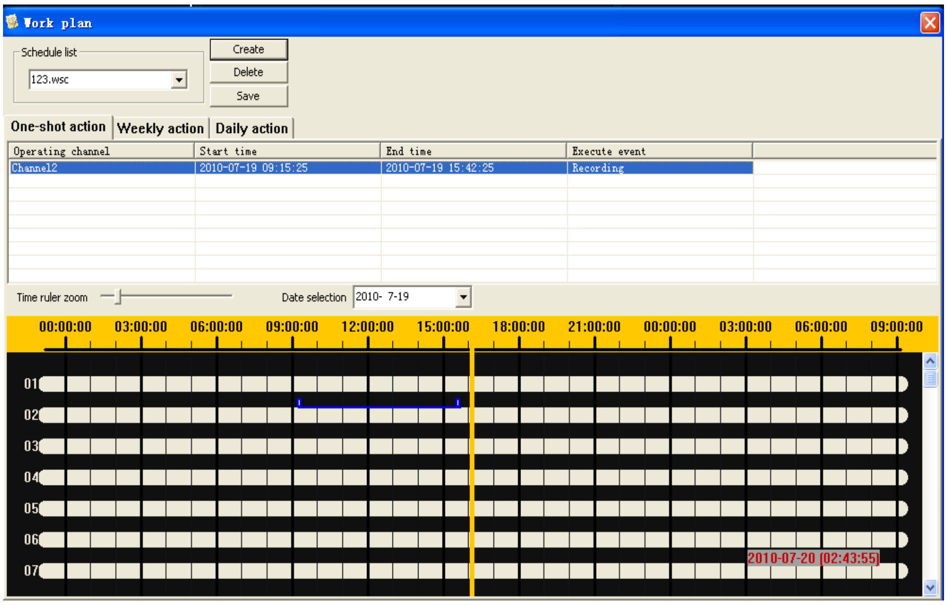
Execute event: Recording

Figure 33 Modify plan interface

After modify in‘Timing plan to edit’,click‘OK’.Finally in‘Work plan’menu , click‘Save’button.

(2) Delete plan

After choose the work plan needed to delete,click‘Delete plan’button.


Work plan
Schedule list
Create
Delete
Save
One-shot action
Weekly action
Daily action
Time ruler zoom
Date selection
00:00:00
03:00:00
06:00:00
09:00:00
12:00:00
15:00:00
18:00:00
21:00:00
00:00:00
03:00:00
06:00:00
09:00:00
01
02
03
04
05
06
07

Schedule list: 123.wsc

Operating channel	Start time	End time	Execute event
Channel2	2010-07-19 09:15:25	2010-07-19 15:42:25	Recording

Date selection: 2010- 7-19

2010-07-20 [02:43:55]

Figure 34 Delete plan interface

7.4.3 Execute schedule (Start and stop work plan)

Click main menu’s function button ‘System function’ and choose‘Work plan’and then choose‘Execute schedule’. Click the schedule needed to execute and now user could start the configured work plan.(**Only one plan can be executed once a time**).The markd schedule is the executing work plan. If user need to stop the work plan, click the marked schedule and it will be stoppped.

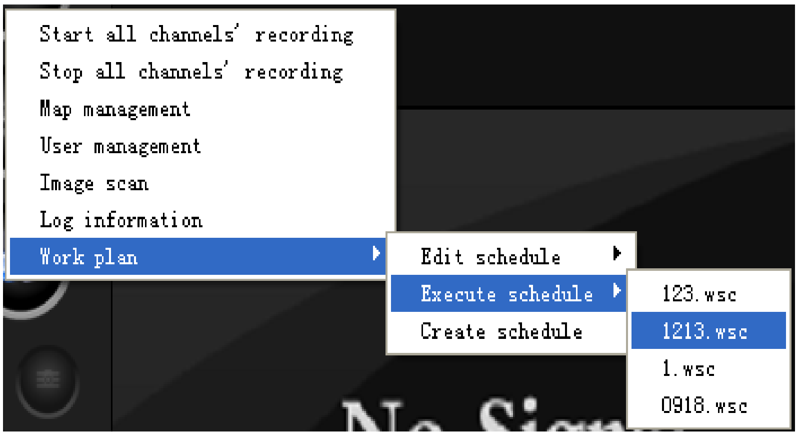
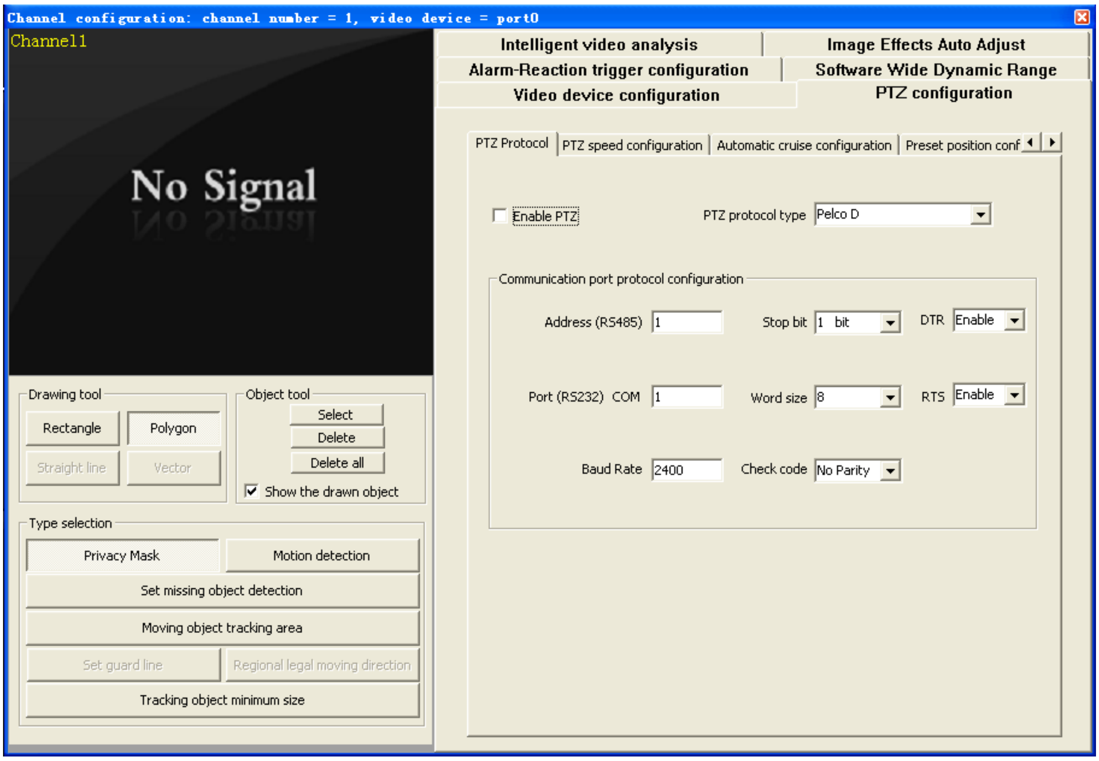

Start all channels' recording
Stop all channels' recording
Map management
User management
Image scan
Log information
Work plan
Edit schedule
Execute schedule
Create schedule
123.wsc
1213.wsc
1.wsc
0918.wsc
No Sign

Figure 35 Execute schedule interface

7.5 PTZ Control

Click main menu’s function button ‘Configuration’ and choose ‘channel configuration’ to enter configuration menu ,and choose‘PTZ configuration’as the following picture,


Channel configuration: channel number = 1, video device = port0

☐ Enable PTZ
PTZ protocol type: Pelco D

Communication port protocol configuration
Address (RS485): 1
Stop bit: 1 bit
DTR: Enable
Port (RS232) COM: 1
Word size: 8
RTS: Enable
Baud Rate: 2400
Check code: No Parity

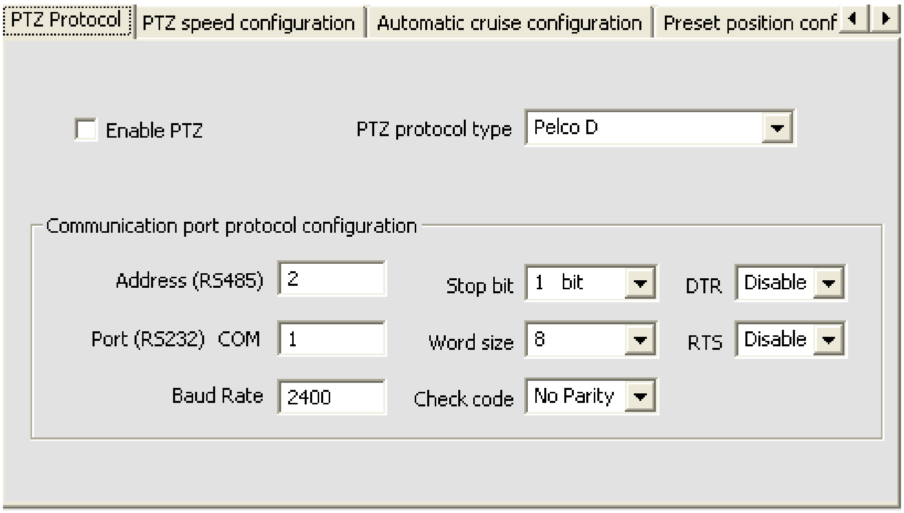
☑ Show the drawn object

Channel1
No Signal
Intelligent video analysis
Image Effects Auto Adjust
Alarm-Reaction trigger configuration
Software Wide Dynamic Range
Video device configuration
PTZ configuration
PTZ Protocol
PTZ speed configuration
Automatic cruise configuration
Preset position conf
Drawing tool
Rectangle
Polygon
Straight line
Vector
Object tool
Select
Delete
Delete all
Type selection
Privacy Mask
Motion detection
Set missing object detection
Moving object tracking area
Set guard line
Regional legal moving direction
Tracking object minimum size

Figure 36 PTZ control interface

7.5.1 PTZ protocol

After configure ‘Communication port protocol settings’, click the small box next to‘Enable PTZ’and it can be realized.


☐ Enable PTZ
PTZ protocol type: Pelco D

Communication port protocol configuration
Address (RS485): 2
Stop bit: 1 bit
DTR: Disable
Port (RS232) COM: 1
Word size: 8
RTS: Disable
Baud Rate: 2400
Check code: No Parity

PTZ Protocol
PTZ speed configuration
Automatic cruise configuration
Preset position conf

Figure 37 PTZ protocol interface

7.5.2 PTZ speed configuration

By dragging the scroll bar, can adjust level speed and vertical speed.

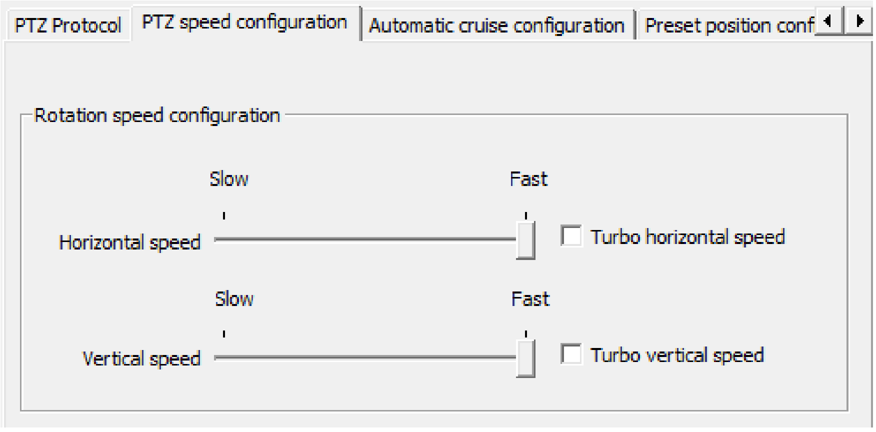

PTZ Protocol
PTZ speed configuration
Automatic cruise configuration
Preset position conf
Rotation speed configuration
Slow
Fast
Horizontal speed
☐ Turbo horizontal speed
Slow
Fast
Vertical speed
☐ Turbo vertical speed

Figure 38 PTZ speed configuration interface

7.5.3 Automatic cruise configuration

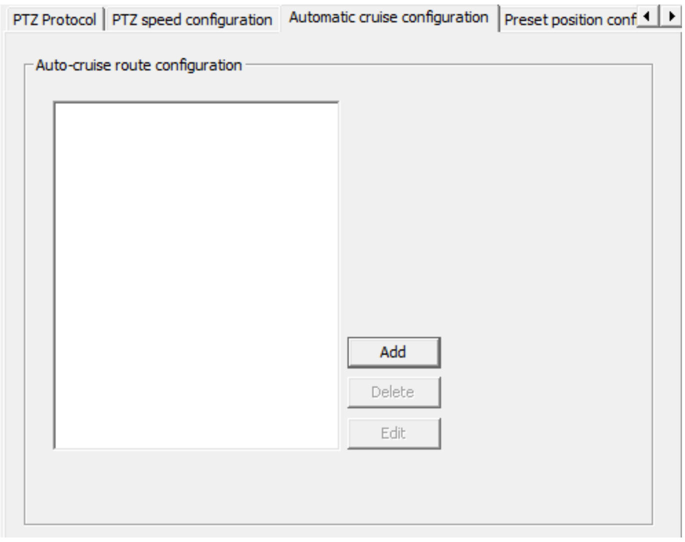

PTZ Protocol
PTZ speed configuration
Automatic cruise configuration
Preset position conf
Auto-cruise route configuration
Add
Delete
Edit

Figure 39 Automatic cruise configuration interface

(1) Add automatic cruise path

Click ‘Add’buttonand pop up a dialog box. Select preset position and staying time, and then click ‘Add node’. After add the node, click ‘OK’button, and now the automatic cruise path is added completely.

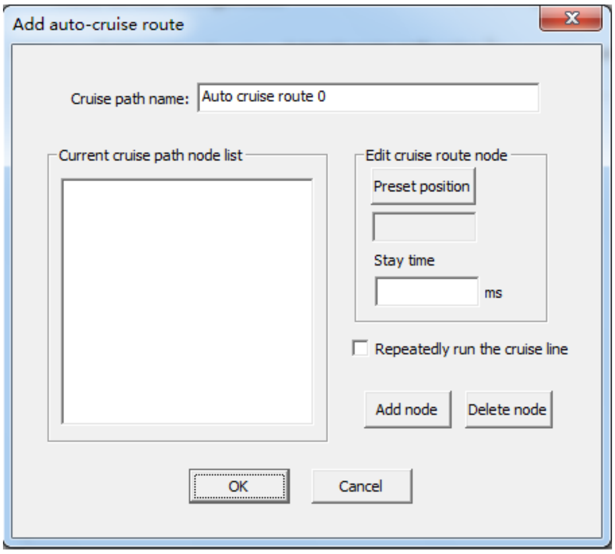

Add auto-cruise route
Cruise path name:
Auto cruise route 0
Current cruise path node list
Edit cruise route node
Preset position
Stay time
ms
Repeatedly run the cruise line
Add node
Delete node
OK
Cancel

Figure 40 Add automatic cruise path interface

(2) Change the cruise path

Select a cruise path,and click'Edit'button. After modify it, click 'OK'.

(3) Delete the cruise path

Select a cruise path, and then click'Delete'button.

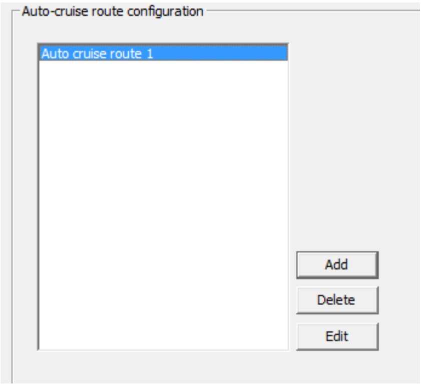

Auto-cruise route configuration
Auto cruise route 1
Add
Delete
Edit

Figure 41 Delete the cruise path interface

7.5.4 Rename preset position

Click the name in'Name preset position', and then change it.

7.6 User Management

This function is used to manage the users of using JSurveillance system. User type includes super administrator, administrator and user. Only super administrator and administrator can use the function of user management.

The default name of super administrator is ‘admin’and default password is‘admin’. After login, super administrator can change his password . There is only one super administrator and he has all the permissions of this system.

Administrator could operate his own user group including adding user, changing user password and deleting user. One user group could have more administrators.

Click main menu’s function button‘System function’ and choose‘User management’ and enter the configuration menu as below,

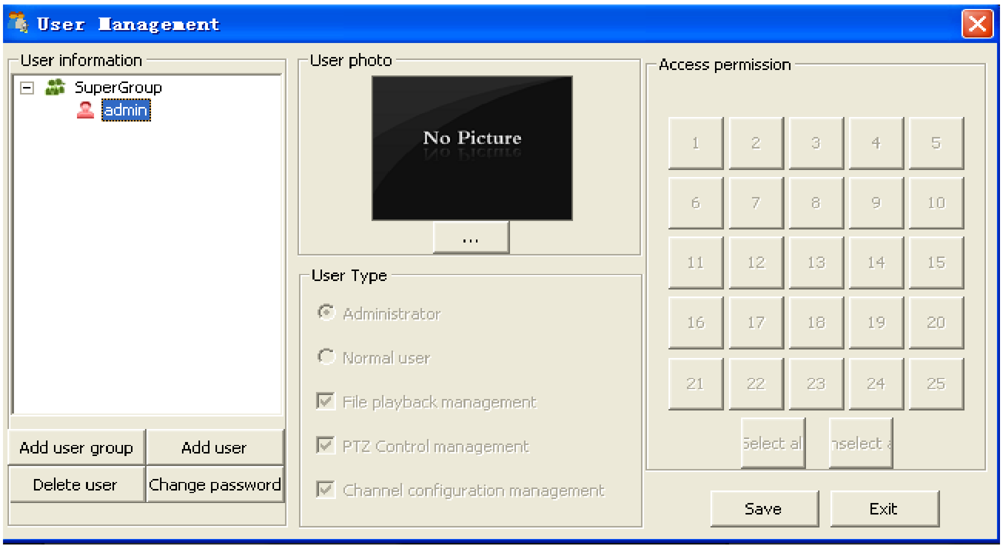

User Management
User information
SuperGroup
admin
Add user group
Add user
Delete user
Change password
User photo
No Picture
...
User Type
Administrator
Normal user
File playback management
PTZ Control management
Channel configuration management
Access permission
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
Select al
nselect a
Save
Exit

Figure 42 User management interface

7.6.1 User information operation

(1) Operate user group: (Only super administrator could operate the user group)

Create new user group: Click Add user group to create a new user group, and in the pop-up dialog box enter user name, password and confirmed password, and the new user group is created successfully.

Delete user group: After choose the user group,click Delete user and then this user group and all the user information in this group will be deleted.

(2) Operate user

In the choosing user group, click Add user can create a new user, in the pop-up dialog box enter the user name, password and confirmed password, a new user is created successfully. The type of user includes administrator and user. The administrator can operate this user group including adding user, changing user password and deleting user.

One user group could have more administrators.The type of administrator and user could be changed in'User type',for example operator could change administrator to user or change user to administrator.

7.6.2 Channel permission configuration

Super administrator could have the operation of Channel permission configuration for user group and users(administrators and user). If super administrator has configured user group's channel permission, all the users under this user group only operate for the configured channels.

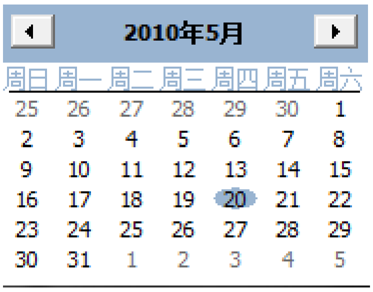
Administrator could have the operation of channel permission configuration for his own user group's users and the configured channels are within the user group's permission.After configuration is completed, click'Save'and exit.

[Note]

New User group and new user must be given Channel permission , otherwise new user cannot use all the function.

7.7 Log Management

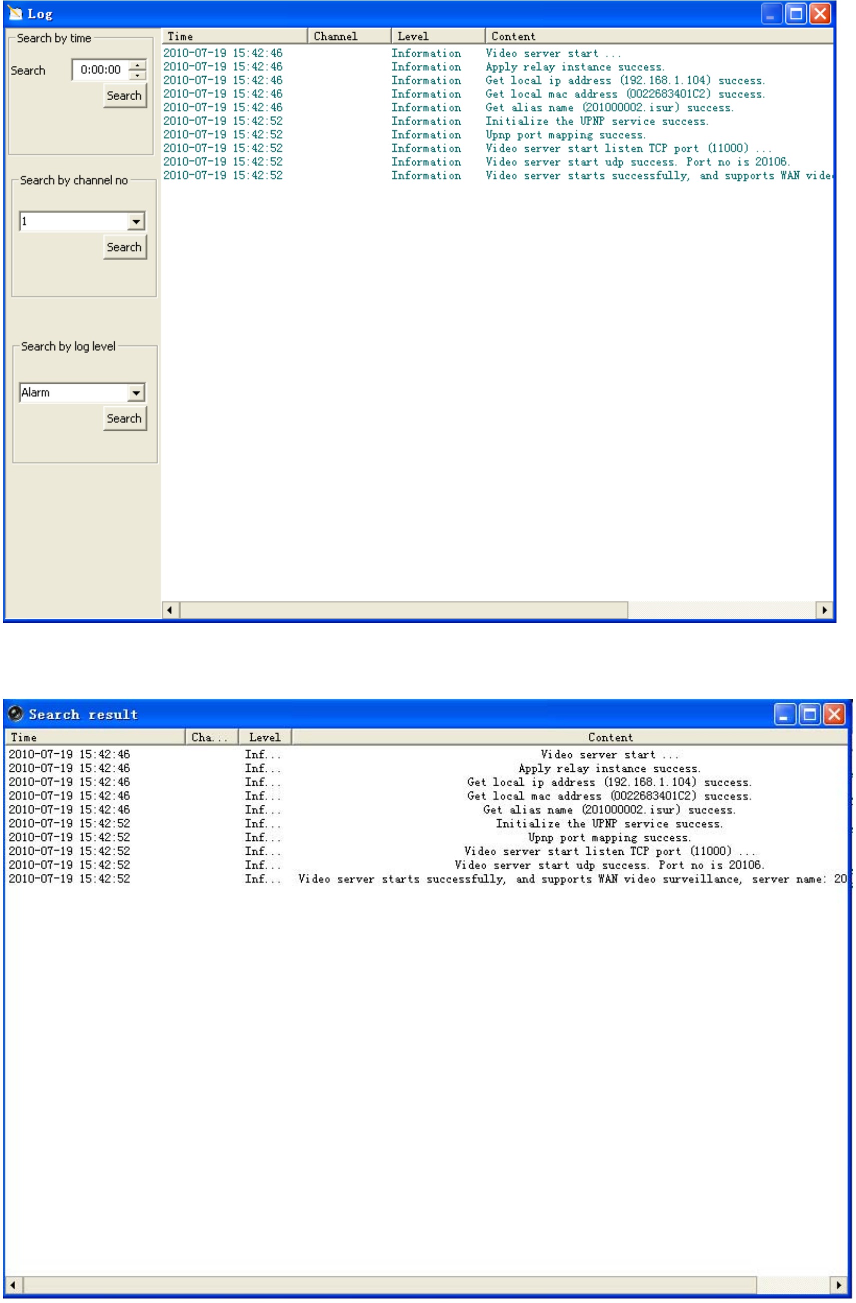
Click main menu's function button 'System function' and choose'Log information', the date menu will poped up as below,



2010年5月

周日	周一	周二	周三	周四	周五	周六
25	26	27	28	29	30	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	1	2	3	4	5

select the date, and all the system inforamtion on that day will be displayed, including user's login, exit, and device information (lost and recovery), alarm and other operation information.



```
Time                 Channel   Level         Content
2010-07-19 15:42:46            Information   Video server start ...
2010-07-19 15:42:46            Information   Apply relay instance success.
2010-07-19 15:42:46            Information   Get local ip address (192.168.1.104) success.
2010-07-19 15:42:46            Information   Get local mac address (0022683401C2) success.
2010-07-19 15:42:46            Information   Get alias name (201000002.isur) success.
2010-07-19 15:42:52            Information   Initialize the UPNP service success.
2010-07-19 15:42:52            Information   Upnp port mapping success.
2010-07-19 15:42:52            Information   Video server start listen TCP port (11000) ...
2010-07-19 15:42:52            Information   Video server start udp success. Port no is 20106.
2010-07-19 15:42:52            Information   Video server starts successfully, and supports WAN vide
```

```
Time                 Cha...  Level   Content
2010-07-19 15:42:46          Inf...                  Video server start ...
2010-07-19 15:42:46          Inf...             Apply relay instance success.
2010-07-19 15:42:46          Inf...       Get local ip address (192.168.1.104) success.
2010-07-19 15:42:46          Inf...       Get local mac address (0022683401C2) success.
2010-07-19 15:42:46          Inf...         Get alias name (201000002.isur) success.
2010-07-19 15:42:52          Inf...          Initialize the UPNP service success.
2010-07-19 15:42:52          Inf...               Upnp port mapping success.
2010-07-19 15:42:52          Inf...       Video server start listen TCP port (11000) ...
2010-07-19 15:42:52          Inf...      Video server start udp success. Port no is 20106.
2010-07-19 15:42:52          Inf...  Video server starts successfully, and supports WAN video surveillance, server name: 20
```

Figure 43　Log management interface

For the log information,software provide the function of the time search,channel search and level Search.

Time Search: Select the beginning time and user can search all the log information of that day from the configured time on.

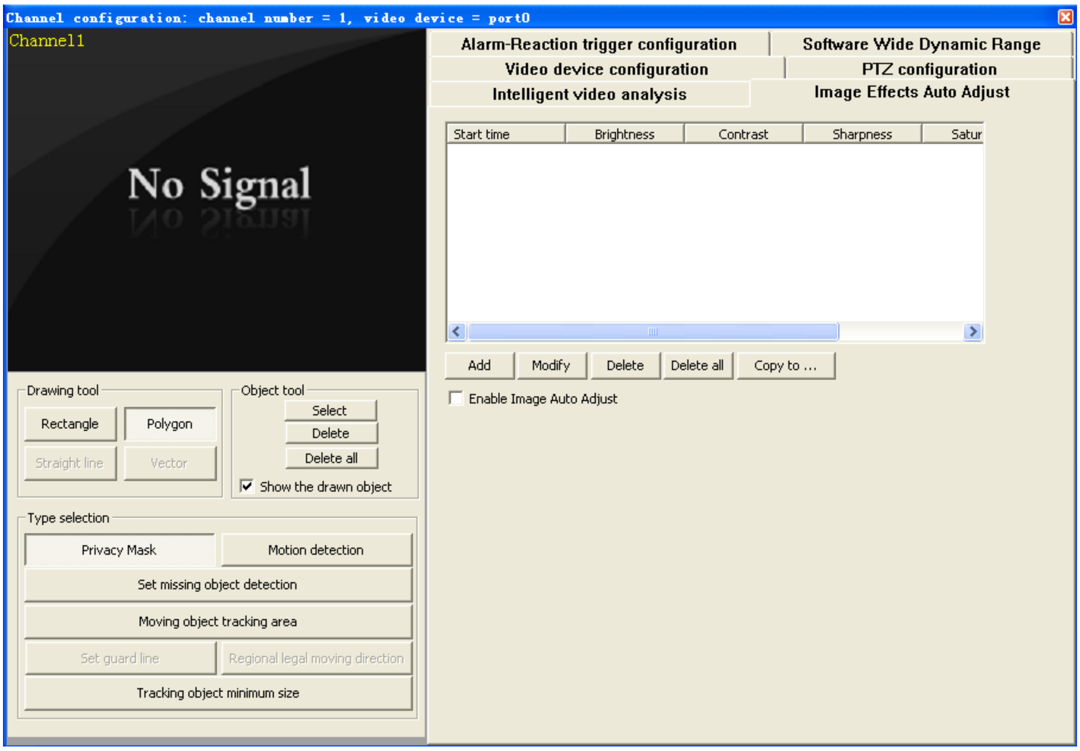
Channel Search: Select the channel and user can search this channel's all the log information of that day.

Level Search: There are 3 levels as alarm,event and information. Select the level, you can search this level's all the log information of that day.

7.8 Image effects auto adjust configuration

This function can configure brightness, contrast during some period of one day so that user can configure the image effect according to the light condition of day or night.

On main menu, choose the channel to configure and click main menu's function button 'Configuration' and choose'channel configuration'to enter channel configuration.



Channel configuration: channel number = 1, video device = port0

Channel1
No Signal
Alarm-Reaction trigger configuration
Software Wide Dynamic Range
Video device configuration
PTZ configuration
Intelligent video analysis
Image Effects Auto Adjust
Start time
Brightness
Contrast
Sharpness
Satur
Add
Modify
Delete
Delete all
Copy to ...
☐ Enable Image Auto Adjust
Drawing tool
Rectangle
Polygon
Straight line
Vector
Object tool
Select
Delete
Delete all
☑ Show the drawn object
Type selection
Privacy Mask
Motion detection
Set missing object detection
Moving object tracking area
Set guard line
Regional legal moving direction
Tracking object minimum size

7.8.1 Add new solution of image effect

Click 'Add'button and configure the beginning time of image effect of this new solution in the popped up window

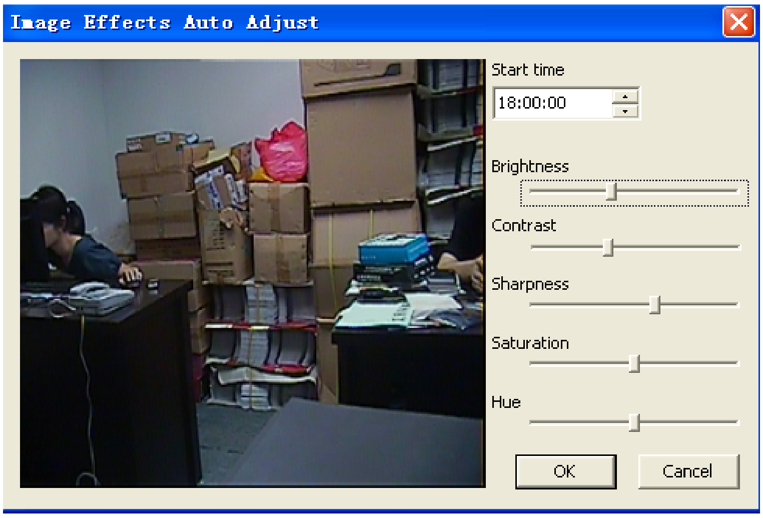
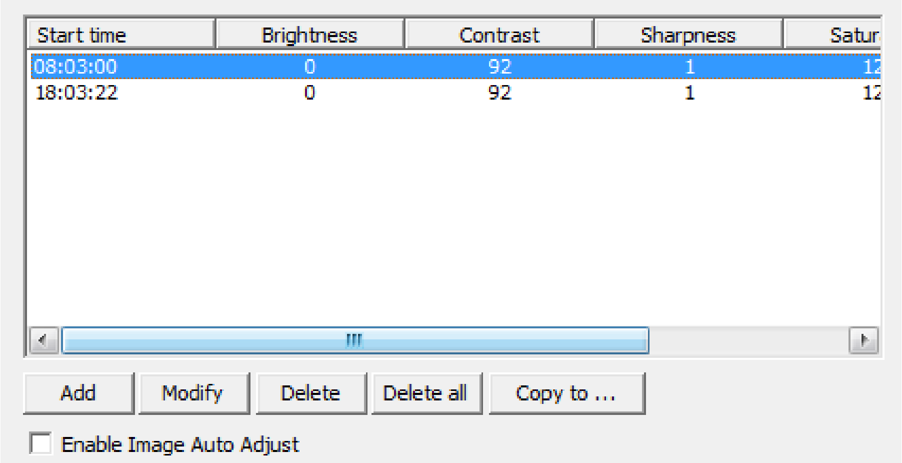


Image Effects Auto Adjust
Brightness
Contrast
Sharpness
Saturation
Hue
OK
Cancel

Start time 18:00:00

After finished,click ‘OK’.



Start time	Brightness	Contrast	Sharpness	Satur
08:03:00	0	92	1	12
18:03:22	0	92	1	12

Add
Modify
Delete
Delete all
Copy to ...

☐ Enable Image Auto Adjust

Figure 44 Add new solution of image effect interface

User must configure at least 2 beginning time such as 8:00 and 18:00 as the picture above, then the first image effect solution will be executed during 8:00-18:00 every day and the second image effect solution will be executed during 18:00-6:00(the next day) every day.At last click ‘Enable image auto adjust’and exit the channel configuration,and then this solution is enabled.

7.8.2 Modify image effect solution.

Choose the solution needed to revise and click ’Modify”button; Modify the realted parameters in the popped up window and click‘OK’.

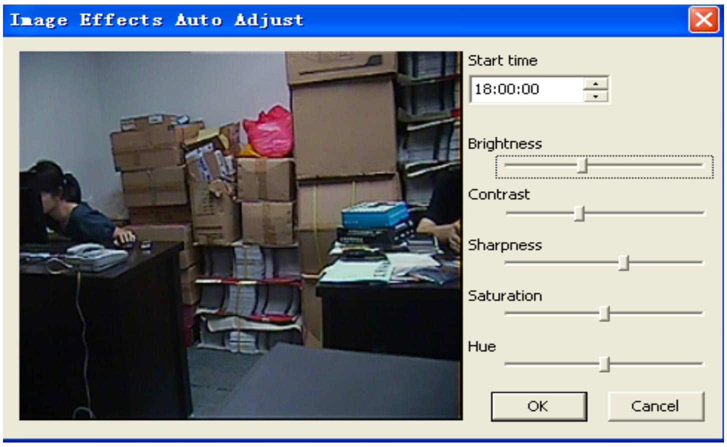


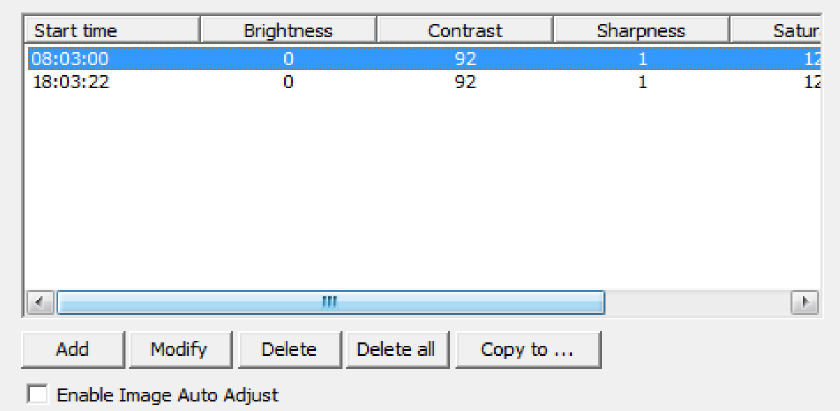
Image Effects Auto Adjust

Start time 18:00:00

Brightness
Contrast
Sharpness
Saturation
Hue
OK
Cancel

Figure 45　Modify image effect solution interface

7.8.3　Delete the configured solution



Start time	Brightness	Contrast	Sharpness	Satur
08:03:00	0	92	1	12
18:03:22	0	92	1	12

☐ Enable Image Auto Adjust

Add
Modify
Delete
Delete all
Copy to ...

Figure 46　Delete the configured solution interface

Choose the image adjust solution needed to delete and click‘Delete”button,and now this solution is deleted.

If user need to delete all the image adjust solution,click‘Delete all’.

7.8.4　Copy the configured solution to other channel

Choose the configured solution and click‘Copy to…’, and choose the channel number and click ‘OK’.

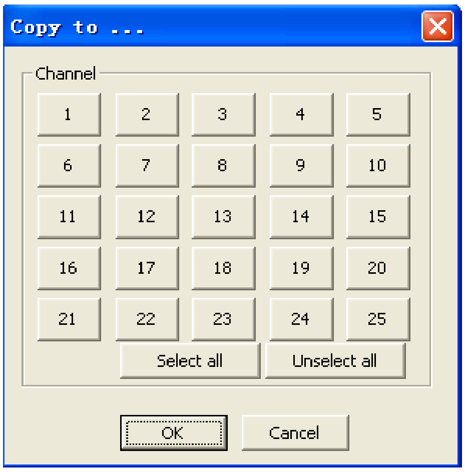
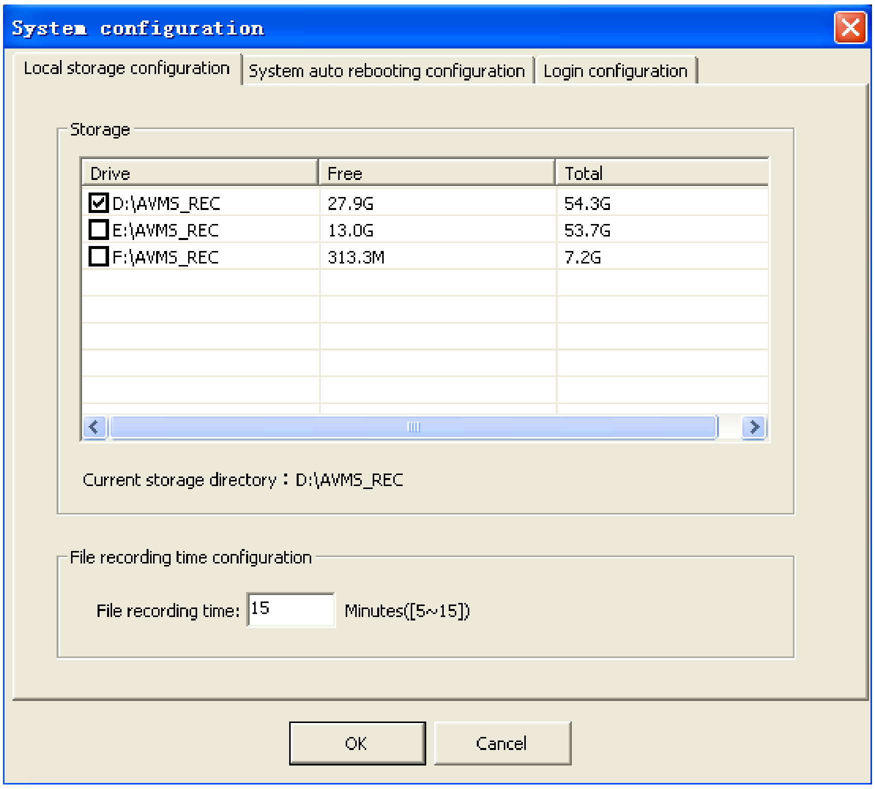

Copy to ...
Channel
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
Select all
Unselect all
OK
Cancel

Figure 47 Copy the configured solution to other channel interface

7.9 Storage Settings

(1) Click main menu's'Configuration' button and choose'System configuration'to enter System configuration, and select 'local storage configuration'as the following picture,


System configuration
Local storage configuration
System auto rebooting configuration
Login configuration
Storage
File recording time configuration
OK
Cancel

Drive	Free	Total
☑ D:\AVMS_REC	27.9G	54.3G
☐ E:\AVMS_REC	13.0G	53.7G
☐ F:\AVMS_REC	313.3M	7.2G

Current storage directory：D:\AVMS_REC

File recording time: 15 Minutes([5~15])

Figure 48 Storage Settings interface

User could choose more than one storage and the storage file folder is AVMS_REC. The minimum capacity system of every storage is required 6GB. If one storage is less than 6GB,the selection of this storage is invalid.

Video file recording time could be configured between 5 minutes and 15 minutes. The default file time is 15 minutes.

(2) Storage files (video files and captured pictures)'s file tree structure are as the picture below, Time ->Channel -> file type (video or image file)

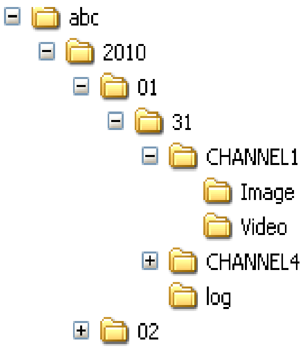
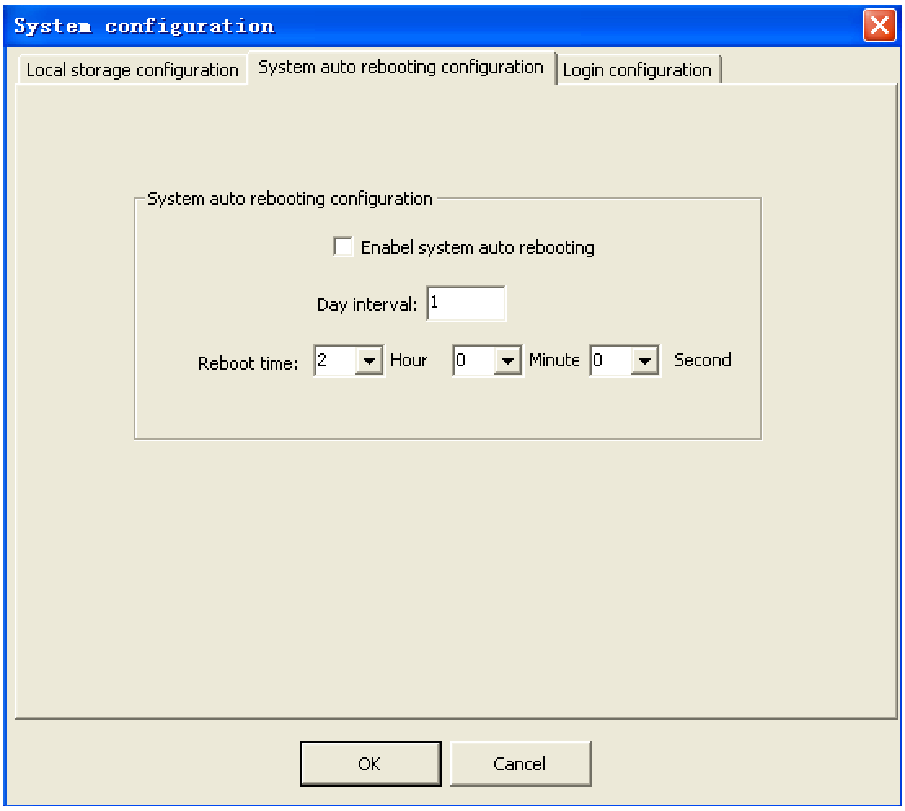

abc
2010
01
31
CHANNEL1
Image
Video
CHANNEL4
log
02

Figure 49 Storage files's file tree structure interface

7.10 System auto re-start settings

Click main menu's'Configuration' button and choose 'system configuration', and then select 'System auto rebooting configuration'as the picture below,


System configuration
Local storage configuration
System auto rebooting configuration
Login configuration
OK
Cancel

System auto rebooting configuration

☐ Enabel system auto rebooting

Day interval: 1

Reboot time: 2 Hour 0 Minute 0 Second

Figure 50 System auto re-start setting interface

Set the interval days and time for restart, and click‘Enable system auto rebooting’and then click‘OK’button.

7.11 Login configuration

Click main menu’s‘Configuration’ button and choose ’System configuration’, and then select ‘Login configuration’as the picture below,

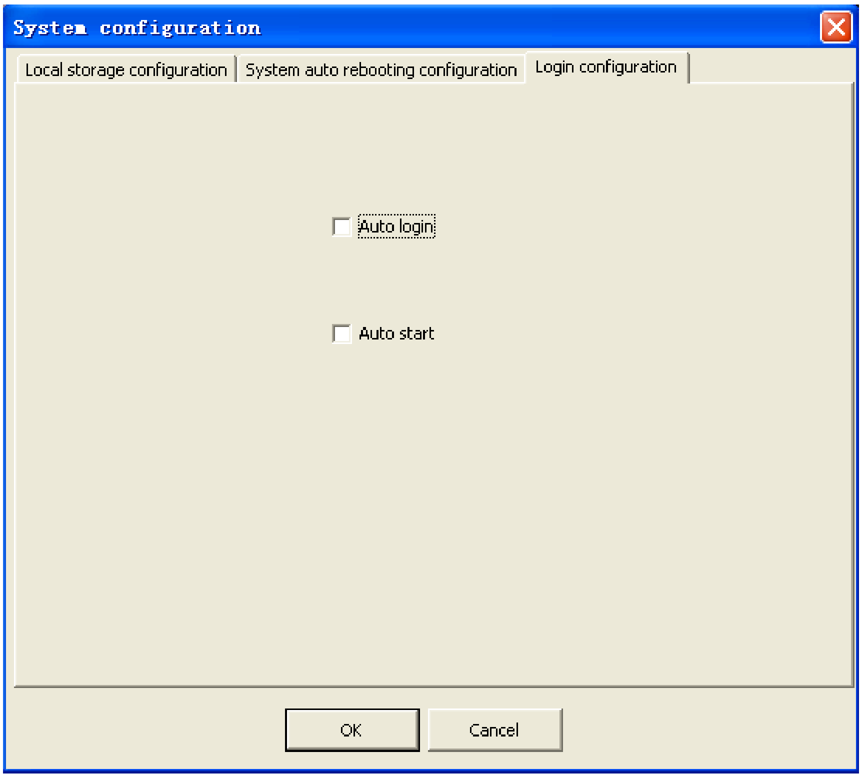

System configuration
Local storage configuration
System auto rebooting configuration
Login configuration
☐ Auto login
☐ Auto start
OK
Cancel

Figure 51 Login configuration interface

Auto login: If user has saved the user name and password when login and user hope to skip the login menu and enter the main menu directly when run JSurveillance software, user could choose ‘Auto login’

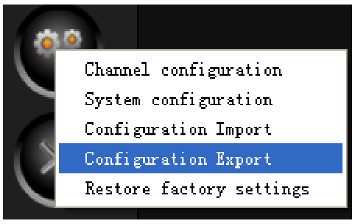
Auto restart: If user hope to auto run JSurveillance software when open or restart computer ,user could choose‘Auto restart’;if user have choosed ‘Save password’and ‘Auto login’,after choose ‘Auto restart’,it will skip the login menu and enter the main menu directly when open or restart computer.

7.12 Export and import configuration data

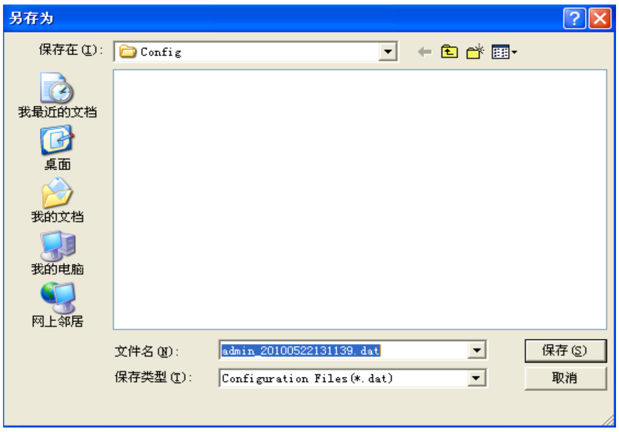
This function can help users to back up configuration data (. dat file format) or move configuration data from one computer to another computer.

7.12.1 Export configuration data

Click main menu's function button'Configuration' and choose'Configuration Export '


Channel configuration
System configuration
Configuration Import
Configuration Export
Restore factory settings

Choose the file name and saving path and click'Save'. Now user has finished exporting configuration data.


另存为
我最近的文档
桌面
我的文档
我的电脑
网上邻居
保存(S)
取消

保存在(I): Config

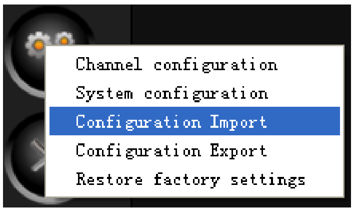
文件名(N): admin_20100522131139.dat

保存类型(T): Configuration Files(*.dat)

Figure 52 Export configuration data interface

7.12.2 Import configuration data

Click'Configuration' and choose'Configuration Import'


Channel configuration
System configuration
Configuration Import
Configuration Export
Restore factory settings

Choose the file to import and click'Open'.Now user has finished importing configuration data.

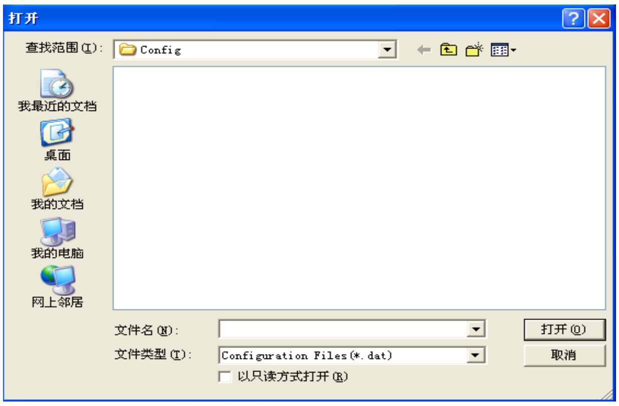

打开
查找范围(I):
Config
我最近的文档
桌面
我的文档
我的电脑
网上邻居
文件名(N):
文件类型(T):
Configuration Files(*.dat)
以只读方式打开(R)
打开(O)
取消

Figure 53 Import configuration data interface

7.13 Restore factory settings

This function could help user to restore the configuration of JSurveillance software to the original one.

Click main menu's function button'Configuration' and after choose'Restore factory settings', the configuration of JSurveillance software will be restored to the original one at the time of installing JSurveillance software as the picture below,

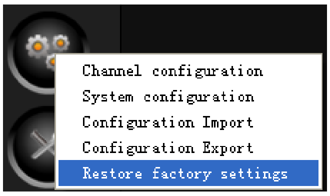

Channel configuration
System configuration
Configuration Import
Configuration Export
Restore factory settings

Figure 54 Restore factory settings interface

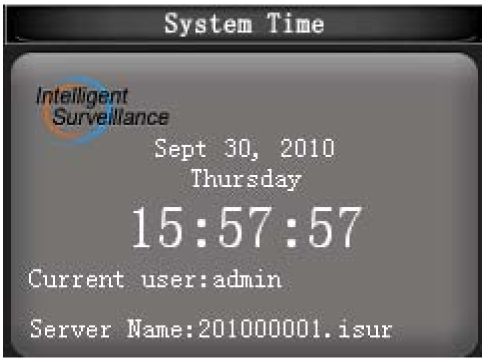
8 Network function

When user need to do romote view,no matter for LAN and WAN surveillance, our system don't need any configuration of network, routing and port mapping and it greatly simplifies user's operation.

8.1 Surveillance host configuration

8.1.1 Surveillance host can connect internet

User don't need to do any configuration. User only need to click main menu's 'Network'button and choose ‘Open the server’and this time system will automatically allocate a server name such as‘201000001.isur’ which will be shown in main menu’s System Time Zone as the picture below,



System Time

Sept 30, 2010
Thursday
15:57:57
Current user:admin
Server Name:201000001.isur

Figure 55 System time interface

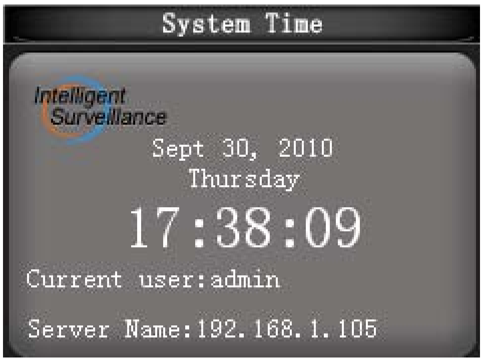
If user need to stop server’s romote view, user only need to click main menu’s function button and choose ‘Stop the server’.

If router is used in user’s network,user need to enter the router (normally as 192.168.1.1 or 192.168.0.1) to enable UPnP.

After the server name is allocated already, if the window(allow or prevent) of Windows Firewall or anti-virus Software is popped up, pls choose allowing to run the program.

8.1.2 Surveillance host cannot connect internet,but in LAN

User don’t need to do any configuration. User only need to click main menu’s ‘Network’button and choose ‘Open the server’and this time host’s LAN IP address such as‘192.168.1.105’will be shown as server name in main menu’s System Time Zone as the picture below,



System Time

Sept 30, 2010
Thursday
17:38:09
Current user:admin
Server Name:192.168.1.105

If user need to stop server's romote view, user only need to click main menu's function button and choose 'Stop the server'.

8.2 Client configuration

We support two methods of romote preview and romote file playback: Client software,Web browser.

8.2.1 Client software

We have strong Client software and could do central surveillance, remote preview ,remote playback,PTZ control and check alarm information. It could support up to 64 channels.

Install or uninstall client software pls refer to Part 2's install client software and uninstall client software

(1) Login

(i) Click the shortcut icon'JSurClient' JSurClient on the desktop, or click the "Start/Programs/ Intelligent Surveillance / JSurClient ",and then start the login window as the following picture,

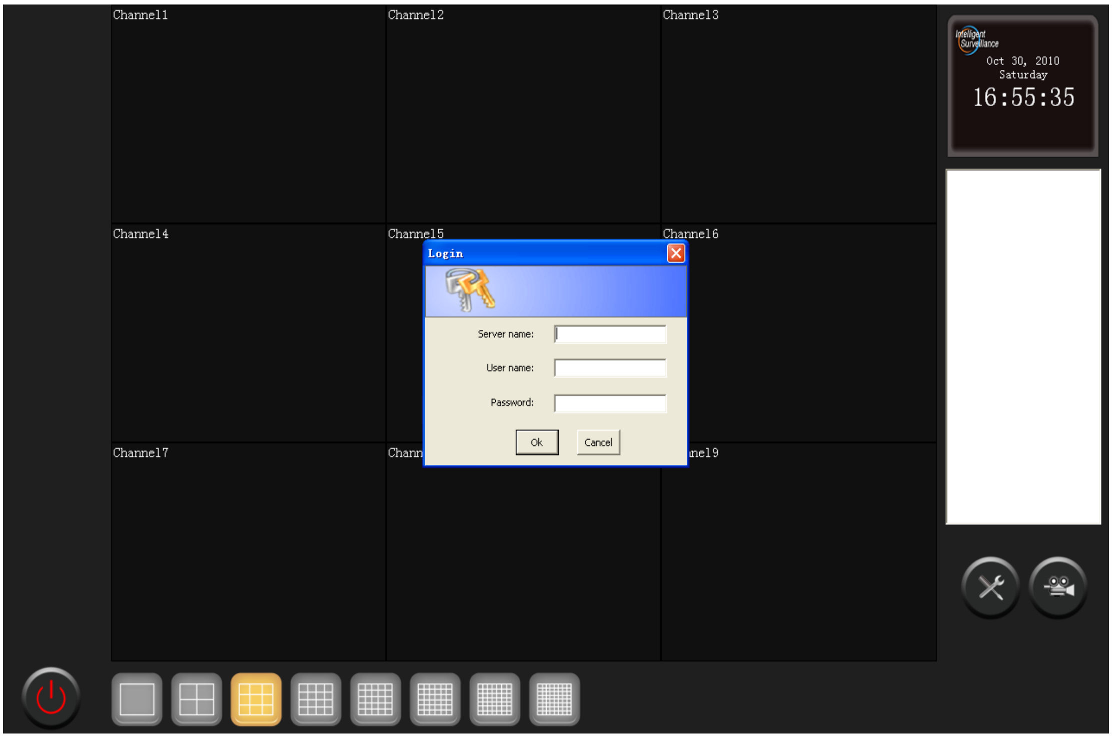

Channel1
Channel2
Channel3
Intelligent Surveillance
Oct 30, 2010
Saturday
16:55:35
Channel4
Channel5
Channel6
Login
Server name:
User name:
Password:
Ok
Cancel
Channel7
Chann
nel9

Figure 56 Login window interface

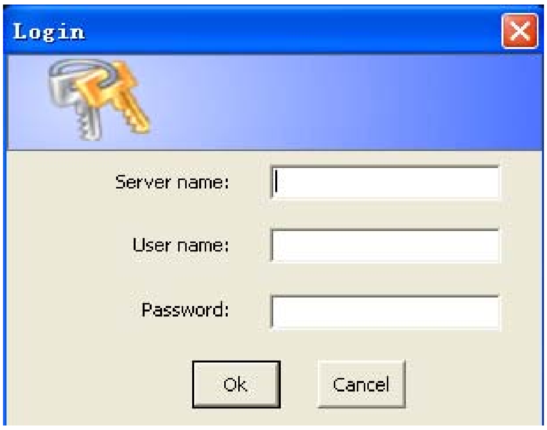
Users need to fill in the server name, DVR user name and password in the login menu.

Server name: No matter what network is between server and client, user only need to input the server name allocated by system such as '201000002.isur'in 'Server name'.

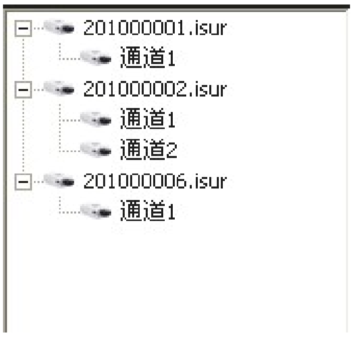
User name and password: DVR user name and password is the server's user name and password.

After fill in the server name, DVR user name and password,click'OK'and user could enter the client software menu.

(ii) When user need to connect other server,user need to click ⏻ in the bottom left of client software and choose'login',and then the login menu will be poped up as the picture below,


Login
Server name:
User name:
Password:
Ok
Cancel

User need to input server name, DVR user name and password again and click‘OK’,now user could do the surveillance of several servers.The connected server list will be displayed in the right of client software as the picture below,

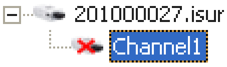

201000001.isur
通道1
201000002.isur
通道1
通道2
201000006.isur
通道1

(2) Remote preview and romote file playback

(a) Remote preview

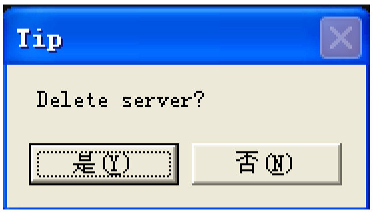
After login,user enter the menu of remote preview.

- Double click the channel number on the right of the menu could stop the romote preview of this channel. The stopped channel will be displayed as disconnection as the picture below,


201000027.isur
Channel1

Double click the channel number will recover the connection.

- Double click the server name will pop up the menu as below,



Delete server?

Click ‘Y’will delete the server in the server list.

(b) Remote file playback

Click‘Playback’button on the right of menu and choose ‘Remote file playback’,the remote file playback will be poped up as below,

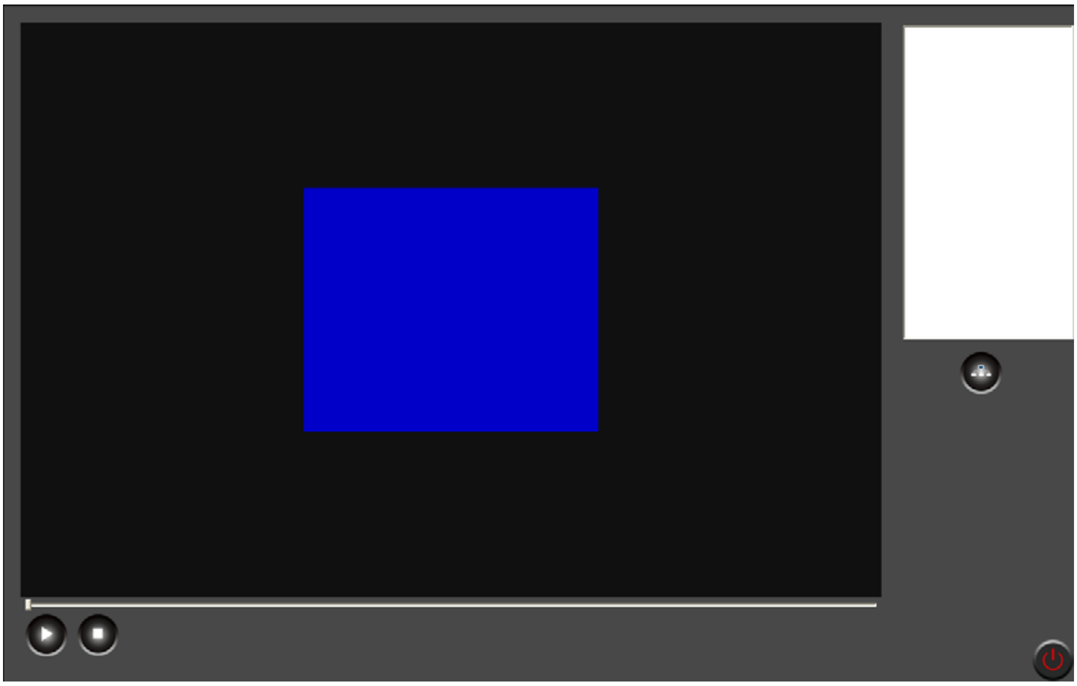
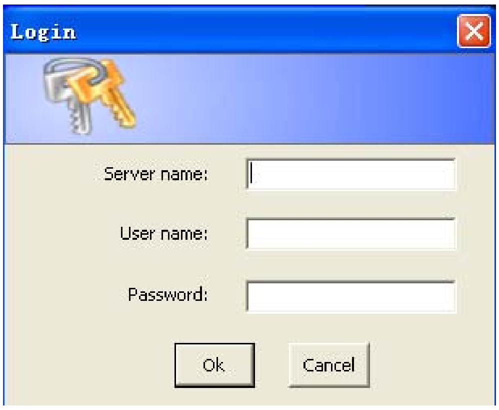
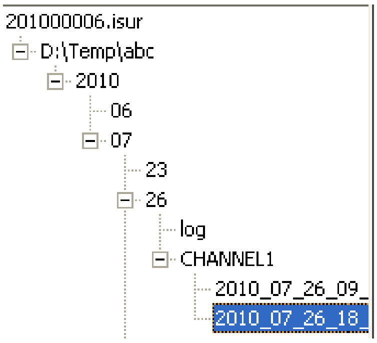


Figure 57 Remote file playback interface

Click‘Connect the server’button on the right and will pop up a menu as below,



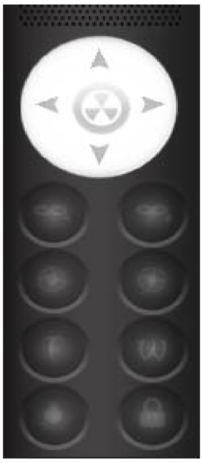
User need to input server name, DVR user name and password again and click‘OK’,now user could connect the server’s recording files and the files are listed on the right of menu as below picture,


201000006.isur
D:\Temp\abc
2010
06
07
23
26
log
CHANNEL1
2010_07_26_09_
2010_07_26_18_

User need to double click the name of recording file and click ‘Play’button ,now user could play the remote file.

(c) PTZ control

Click‘System function’button and choose ‘PTZ control’, PTZ control panel will appear at the top left corner of the menu as the picture below,



(d) Log information

Click‘System function’button and choose ‘Log’,now user could check the log information of client.

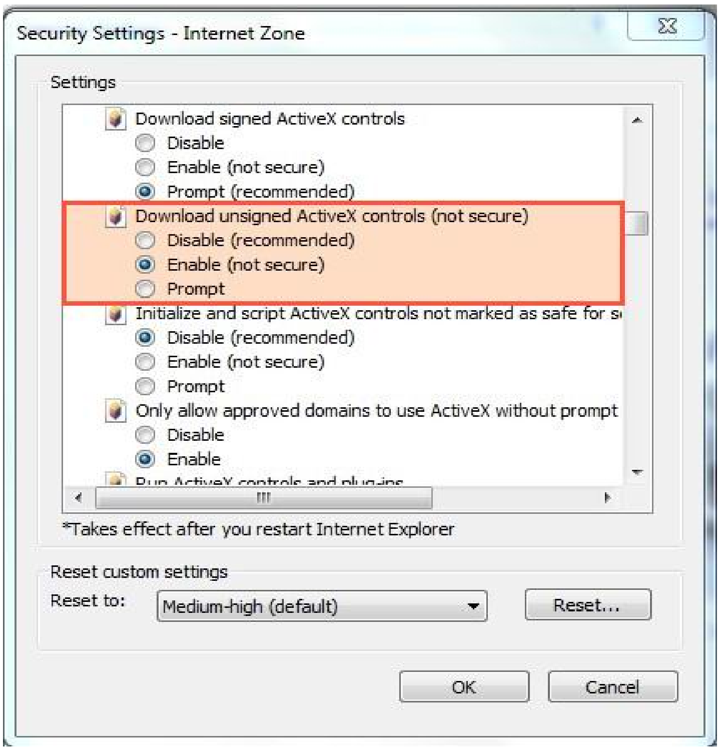
8.2.2 Web browser

Client support Web browser such as IE browser to have remote preview and remote playback

[NOTE]:

Please change Web browser security level. Click Web browser‘Tools’→‘Internet Options’

→‘Security‘， and click "Custom Level" ,in the pop-up security settings change‘Download unsigned ActiveX controls’from ‘Disable’to ‘Enable’or ‘Prompt’as the picture below,



Security Settings - Internet Zone

Settings

Download signed ActiveX controls
○ Disable
○ Enable (not secure)
● Prompt (recommended)

Download unsigned ActiveX controls (not secure)
○ Disable (recommended)
● Enable (not secure)
○ Prompt

Initialize and script ActiveX controls not marked as safe for s
● Disable (recommended)
○ Enable (not secure)
○ Prompt

Only allow approved domains to use ActiveX without prompt
○ Disable
● Enable

Run ActiveX controls and plug-ins

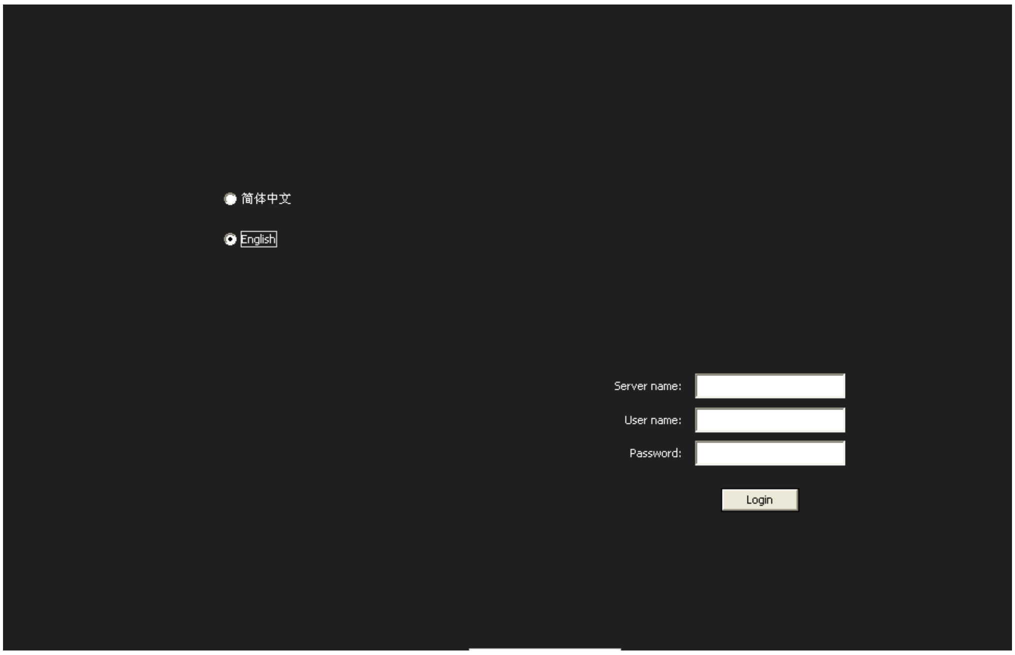
*Takes effect after you restart Internet Explorer

Reset custom settings

Reset to: Medium-high (default)

Figure 58 Web browser interface

(1) After user input www.isdvr.com at the address field of Web browser,ActiveX control will be popped up as the following.System default language is Chinese and user could choose English for english menu.



○ 简体中文
● English

Server name:
User name:
Password:

Users need to fill in the server name, DVR user name and password at the bottom right of IE control menu,

(i) No matter what network is between server and client, user only need to input the server name allocated by system such as ‘201000001.isur’in ‘Server name’.

(ii) DVR user name and password is the server’s user name and password.

(2) After fill in the server name, DVR user name and password, click "Login", and then you can enter the remote preview and remote file playback.

(i) System default is entering the remote video preview menu as the picture below,

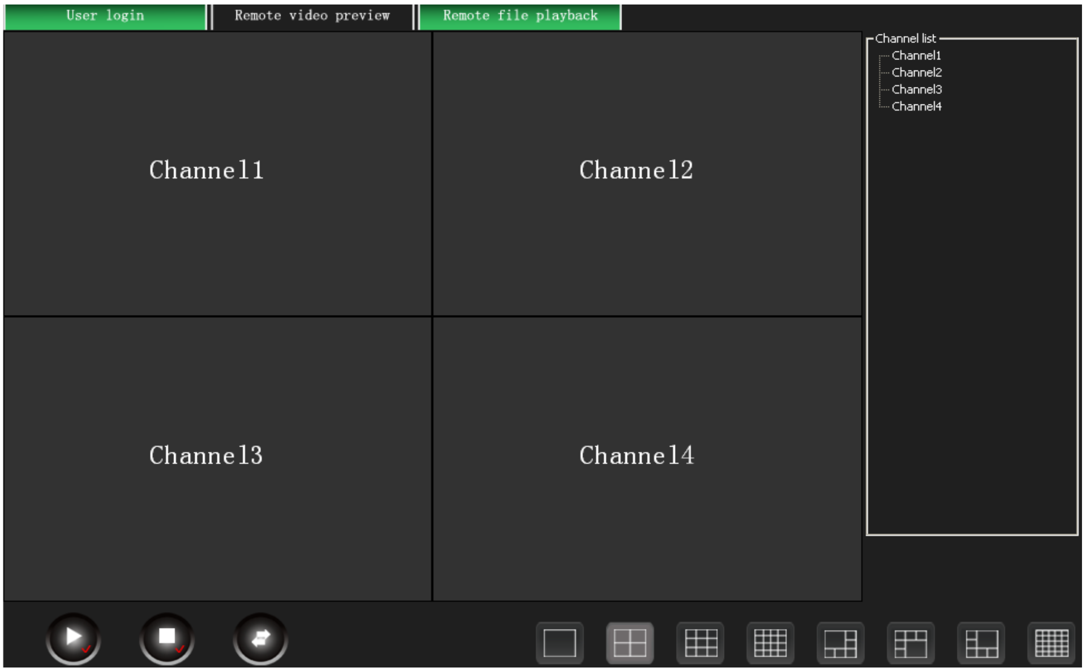
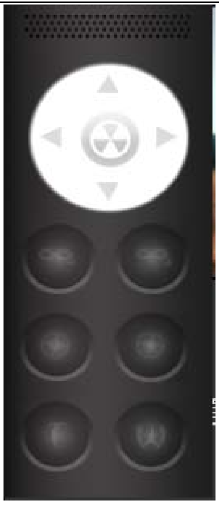

User login
Remote video preview
Remote file playback
Channel1
Channel2
Channel3
Channel4
Channel list
Channel1
Channel2
Channel3
Channel4

Figure 59 Remote video preview menu interface

Remote video preview support PTZ control. If click ‘PTZ control’button , PTZ control panel will appear at the top left corner of ActiveX control menu as the picture below,



(ii) User could click ‘Romote file playback’on top of ActiveX control menu to switch to romote file playback menu as the picture below,

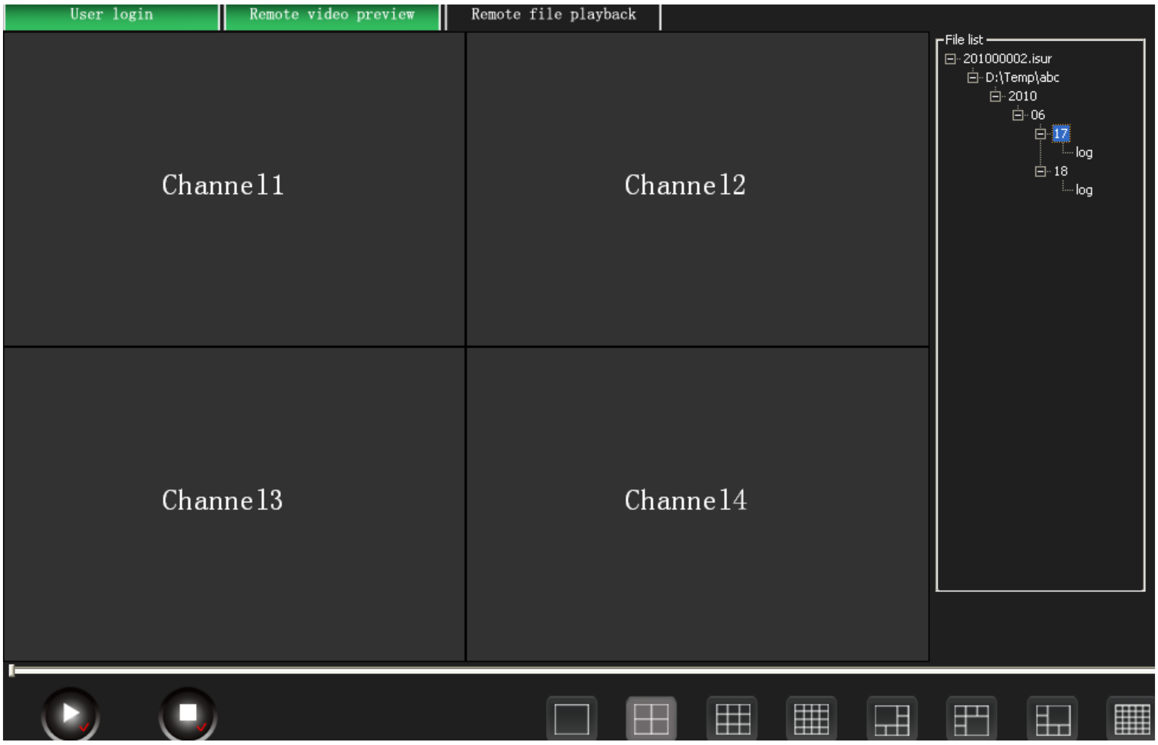

User login
Remote video preview
Remote file playback
Channel1
Channel2
Channel3
Channel4
File list
201000002.isur
D:\Temp\abc
2010
06
17
log
18
log

Figure 60 Remote file playback menu interface

User could choose the file for playback in the file list in the right of ActiveX control menu and the file list is according to file folder->time->channel number.

User need to double click the file for playback (support up to 25 channels’ playback at the same time) and click ‘Start all’button ▶ to play back the romote files.

9 Common intelligent function

※ Drawing tool and Object tool

（1）Drawing tool:

Some intelligent analysis functions need to use configuration menu’s drawing tools as the following,

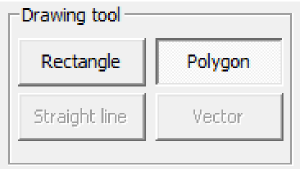


Figure 61 Drawing tool interface

(a) Rectangle: If need to draw rectangle on the small video screen of channel configuration menu, choose rectangle in drawing tool first, and then use mouse’s left button to draw a rectangle on the video screen , and at last click mouse’s left button to finish drawing.

(b) Polygon: If need to draw polygon on the small video screen of channel configuration menu, choose polygon in drawing tool first,and then use mouse’s left button to select a point on the video screen , and then drag the mouse to select other points by left button. For example of pentagon,user need to select five points and click mouse’s right button to finish drawing .

(c) Straight line: If need to draw straight line on the small video screen of channel configuration menu, choose straight line in drawing tool first ,and then use mouse’s left button to draw a straight line on the video screen , and at last click mouse’s left button to finish drawing.

(d) Vector: If need to draw arrow on the small video screen of channel configuration menu, choose Vector in drawing tool first ,and then use mouse’s left button to draw a straight line on the video screen , and at last click mouse's left button to finish drawing. The direction of arrow points to the point clicked by mouse's left button finally.

（2）Object tool

After user has drawn the graph on the video screen,if user need to delete the previous graph, user can use object tool to finish this operation.

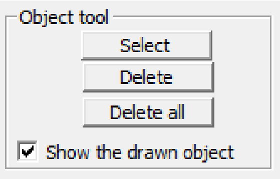


Figure 62 Object tool interface

(a) When user wants to delete all the graphs of the small video screen of channel configuration menu, please click'Delete all'.

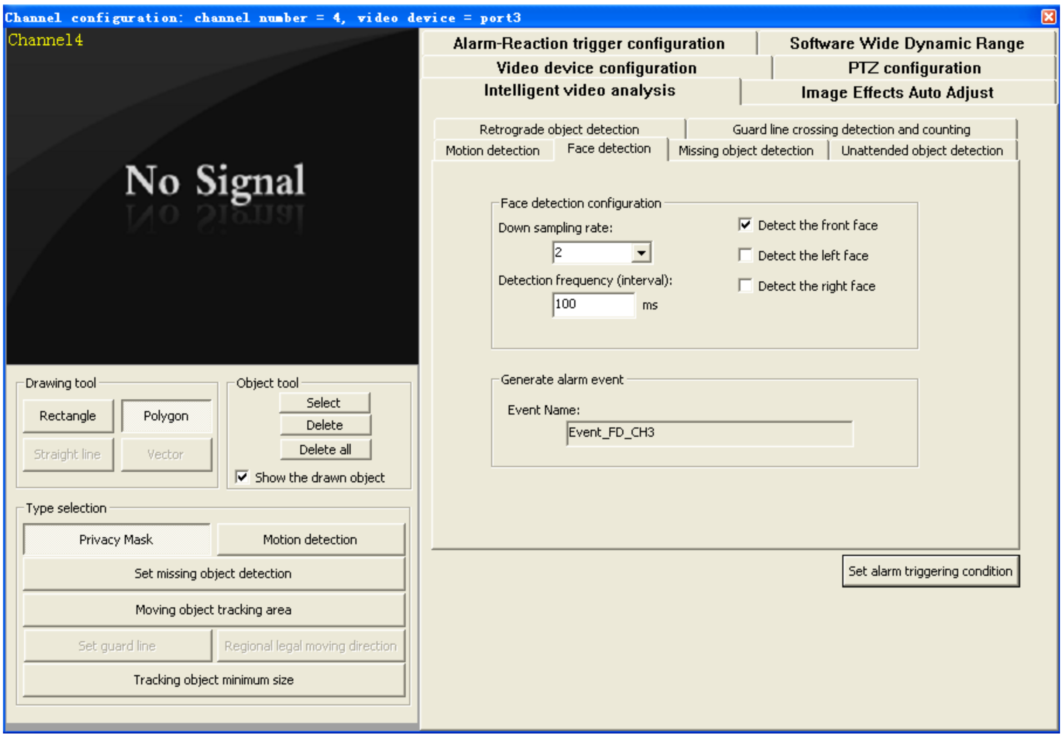
(b) When user wants to delete one graph of the small video screen of channel configuration menu, please click'Select'first and then choose this graph on the video screen and at last click'Delete'.

9.1 Face Detection

This function is that if human face appears in the video screen, software can capture and track human faces automatically.

9.1.1 Configure parameters

After enter the main menu, choose the channel needed to start face detection. Click main menu's function button'Configuration' and choose 'channel configuration' to enter configuration menu as below,



Channel configuration: channel number = 4, video device = port3

Face detection configuration

Down sampling rate: 2

Detection frequency (interval): 100 ms

☑ Detect the front face

☐ Detect the left face

☐ Detect the right face

Generate alarm event

Event Name: Event_FD_CH3

☑ Show the drawn object

Channel4
No Signal
Alarm-Reaction trigger configuration
Software Wide Dynamic Range
Video device configuration
PTZ configuration
Intelligent video analysis
Image Effects Auto Adjust
Retrograde object detection
Guard line crossing detection and counting
Motion detection
Face detection
Missing object detection
Unattended object detection
Drawing tool
Rectangle
Polygon
Straight line
Vector
Object tool
Select
Delete
Delete all
Type selection
Privacy Mask
Motion detection
Set missing object detection
Moving object tracking area
Set guard line
Regional legal moving direction
Tracking object minimum size
Set alarm triggering condition

Select‘Intelligent video analysis’and click‘Face detection’.

‘Down sampling rate’: The smaller the choosing value is, the better the precision is,but the more CPU resources are needed.

‘Detection interval’: The smaller the choosing interval is, the more the detection times is,but the more CPU resources are needed.

[Note]:

According to the actual situation, choose which side of face to be detected and the default selection is‘Detect the front face’. If select‘Detect the left face’ and‘Detect the right face’, will detect bigger horizontal angle range,but more CPU resources will be used.

9.1.2 Enable Function

After configured parameters, return to the main menu. Click ‘Face detection’button in‘Intelligent video analysis’zone of main menu’s Control Zone and now user has started this function.

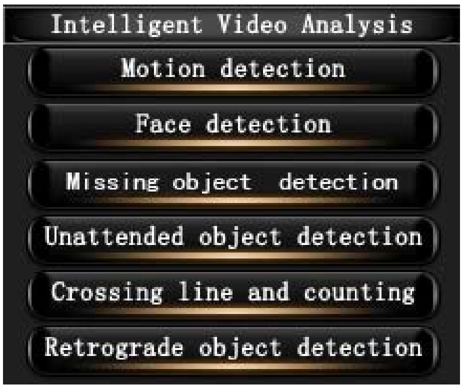

Intelligent Video Analysis
Motion detection
Face detection
Missing object detection
Unattended object detection
Crossing line and counting
Retrograde object detection

Figure 63　Intelligent video analysis interface

Conditions:

(1) When only detect the front face, the angle range between face and camera is within 15° vertically and 20° horizontally

(2) When enable‘Detect the left face’ and‘Detect the right face’,the angle range between face and camera is within 15° vertically and 45° horizontally

(3) The face to be detected must cover at least 1/10 of the screen.

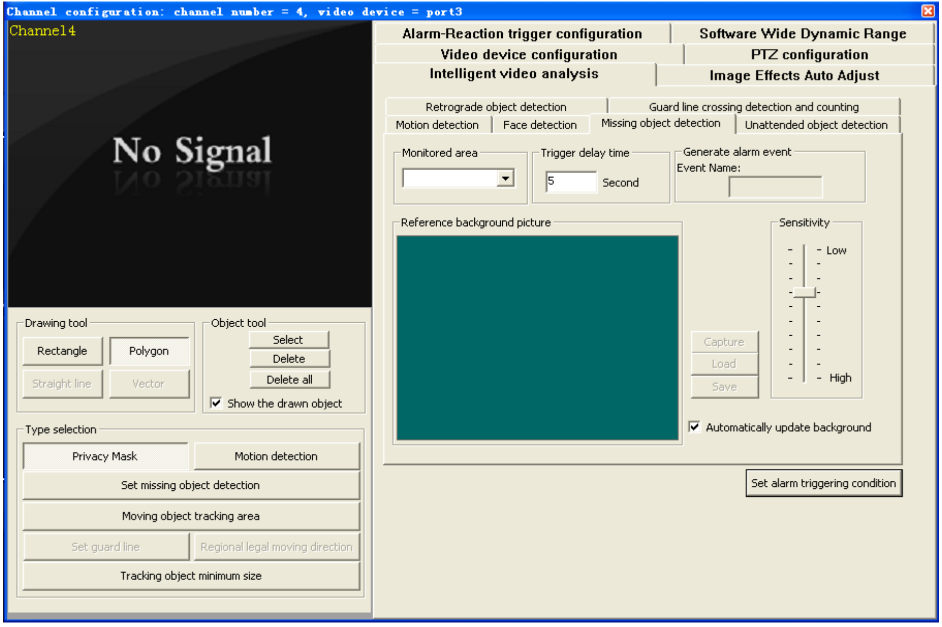
9.2　Missing Object Detection

This function is that if the mornitored object is removed or masked, software can detect and alarm automatically.

9.2.1　Configure parameters

① Reference background picture

After enter the main menu, choose the channel needed to start Missing Object Detection. Click main menu’s function button‘Configuration’ and choose ‘channel configuration’ to enter configuration menu.Select‘Intelligent video analysis’,and select‘Missing object detection’.as the picture below,



Channel configuration: channel number = 4, video device = port3

Trigger delay time: 5 Second

☑ Show the drawn object

☑ Automatically update background

Channel4
No Signal
Alarm-Reaction trigger configuration
Software Wide Dynamic Range
Video device configuration
PTZ configuration
Intelligent video analysis
Image Effects Auto Adjust
Retrograde object detection
Guard line crossing detection and counting
Motion detection
Face detection
Missing object detection
Unattended object detection
Monitored area
Trigger delay time
Generate alarm event
Event Name:
Reference background picture
Sensitivity
Low
High
Capture
Load
Save
Set alarm triggering condition
Drawing tool
Rectangle
Polygon
Straight line
Vector
Object tool
Select
Delete
Delete all
Type selection
Privacy Mask
Motion detection
Set missing object detection
Moving object tracking area
Set guard line
Regional legal moving direction
Tracking object minimum size

User can set the'Triggering delay time'(Time from detecting the suspicious object to alarm) and 'Sensitivity'(The higher the value is, the more sensitive the function is).

System default settings is 'Automatically update background'. Now user don't need to set background picture and the background picture will automatically be changed at regular intervals.

If the monitored scenario has no apparent difference between day and night light, user also can use set the background picture manually. At this time cancle'Automatically update background'and click'Capture'button,and now the picture captured will be the background picture.

If need to save the background, click'Save'button, and pop up a dialog box. Select the address to store and click'Save'button.

If need to open the saved background, click'Load'button, and pop up a dialog box. Select the file to open and click'Open'button.

② Set mornitored object area

First click 'Set missing object dectection'button of'Type Selection'.

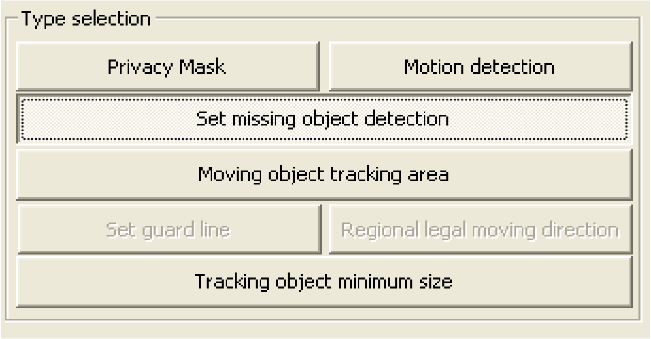
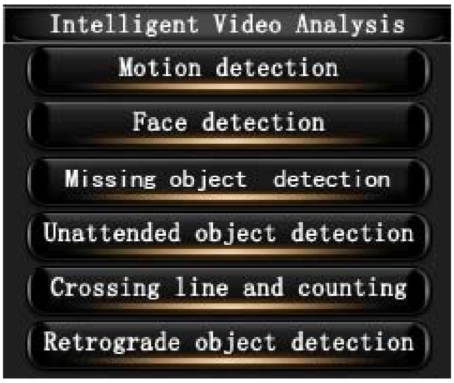

Type selection
Privacy Mask
Motion detection
Set missing object detection
Moving object tracking area
Set guard line
Regional legal moving direction
Tracking object minimum size

Figure 64 Type selection interface

Then draw the monitored object region by rectangule in the small video screen of channel configuration menu .

9.2.2 Enable Function

After configure parameters, return to the main menu. Click'Missing Object Detection'button in'Intelligent video analysis'zone of main menu's Control Zone and now user has started this function.

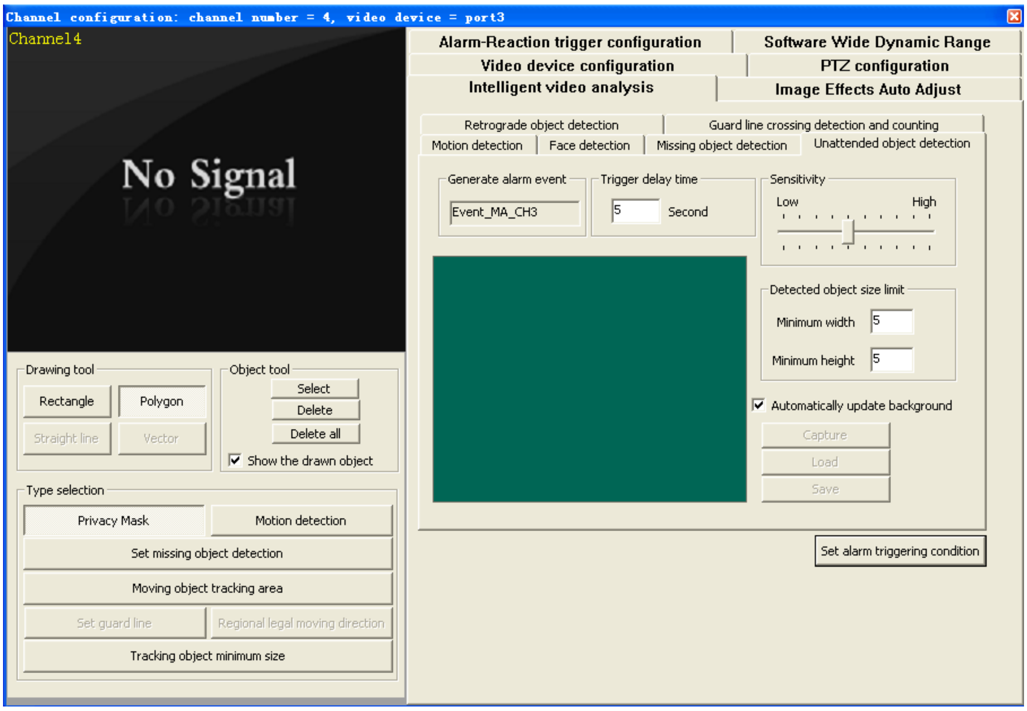

Intelligent Video Analysis
Motion detection
Face detection
Missing object detection
Unattended object detection
Crossing line and counting
Retrograde object detection

9.3 Unattended Object Detection

This function is that if there are unattended objects staying over a certain time in the video, software can detect and alarm automatically.

9.3.1 Configure parameters

After enter the main menu, choose the channel needed to start Unattended Object Detection. Click main menu's function button'Configuration' and choose 'channel configuration' to enter configuration menu. Select'Intelligent video analysis',and select'Unattended object detection' as the picture below,



Channel configuration: channel number = 4, video device = port3

Generate alarm event: Event_MA_CH3

Trigger delay time: 5 Second

Detected object size limit: Minimum width 5, Minimum height 5

☑ Automatically update background

☑ Show the drawn object

Channel4
No Signal
Alarm-Reaction trigger configuration
Software Wide Dynamic Range
Video device configuration
PTZ configuration
Intelligent video analysis
Image Effects Auto Adjust
Retrograde object detection
Guard line crossing detection and counting
Motion detection
Face detection
Missing object detection
Unattended object detection
Sensitivity
Low
High
Capture
Load
Save
Set alarm triggering condition
Drawing tool
Rectangle
Polygon
Straight line
Vector
Object tool
Select
Delete
Delete all
Type selection
Privacy Mask
Motion detection
Set missing object detection
Moving object tracking area
Set guard line
Regional legal moving direction
Tracking object minimum size

User can set the‘Triggering delay time’(Time from detecting the suspicious object to alarm) and ‘Sensitivity’(The higher the value is, the more sensitive the function is).

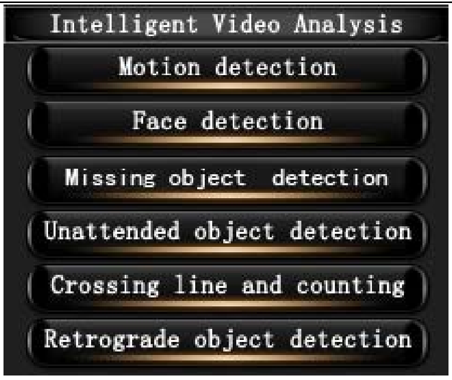
System default settings is ‘Automatically update background’. Now user don’t need to set background picture and the background picture will automatically be changed at regular intervals. If the monitored scenario has no apparent difference between day and night light, user also can use set the background picture manually. At this time cancle‘Automatically update background’and click‘Capture’button,and now the picture captured will be the background picture.

If need to save the background, click‘Save’button, and pop up a dialog box. Select the address to store and click‘Save’button.

If need to open the saved background, click‘Load’button, and pop up a dialog box. Select the file to open and click‘Open’button.

9.3.2 Enable Function

After configured parameters, return to the main menu. Click‘Unattended Object Detection’button in‘Intelligent video analysis’zone of main menu’s Control Zone and now user has started this function.

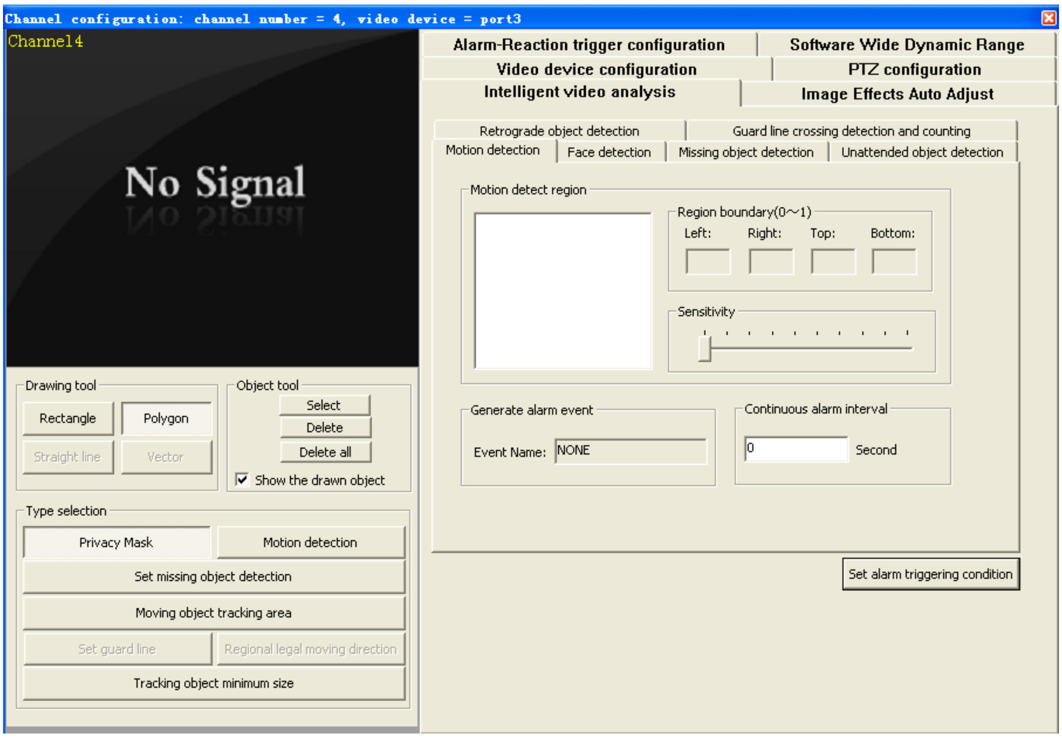

Intelligent Video Analysis
Motion detection
Face detection
Missing object detection
Unattended object detection
Crossing line and counting
Retrograde object detection

9.4 Motion Detection

This function means that in the configured motion detection area in the video, software can detect whether there is object moving and changed or not.

9.4.1 Motion detection area configuration

After enter the main menu, choose the channel needed to start motion detection. Click main menu's function button'Configuration' and choose'channel configuration' to enter configuration menu as the following picture,


Channel configuration: channel number = 4, video device = port3

☑ Show the drawn object

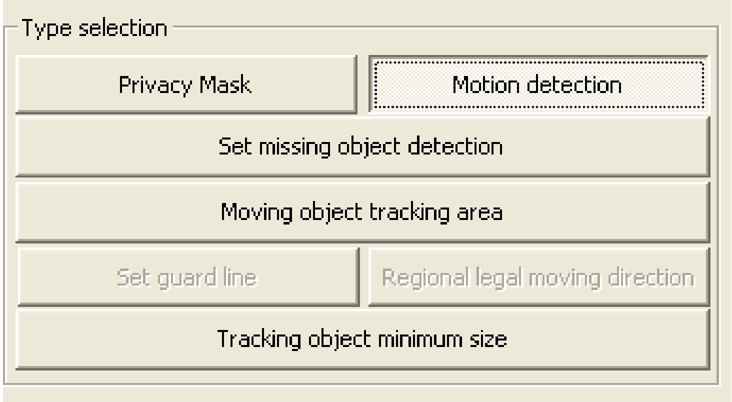
Event Name: NONE

Continuous alarm interval: 0 Second

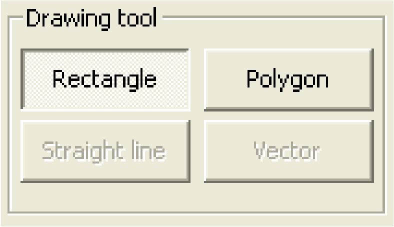
Channel4
No Signal
Alarm-Reaction trigger configuration
Software Wide Dynamic Range
Video device configuration
PTZ configuration
Intelligent video analysis
Image Effects Auto Adjust
Retrograde object detection
Guard line crossing detection and counting
Motion detection
Face detection
Missing object detection
Unattended object detection
Motion detect region
Region boundary(0~1)
Left:
Right:
Top:
Bottom:
Sensitivity
Generate alarm event
Set alarm triggering condition
Drawing tool
Rectangle
Polygon
Straight line
Vector
Object tool
Select
Delete
Delete all
Type selection
Privacy Mask
Motion detection
Set missing object detection
Moving object tracking area
Set guard line
Regional legal moving direction
Tracking object minimum size

(1) Set motion detection area

First click‘Motion detection’button of‘Type Selection’

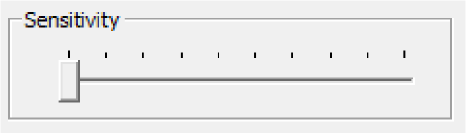

Type selection
Privacy Mask
Motion detection
Set missing object detection
Moving object tracking area
Set guard line
Regional legal moving direction
Tracking object minimum size

Then choose‘Rectangle’or‘Polygon’in‘Drawing tool’, and then draw the motion detection area in the video screen.


Drawing tool
Rectangle
Polygon
Straight line
Vector

(2) Other configuration

① **Sensitivity adjustment**

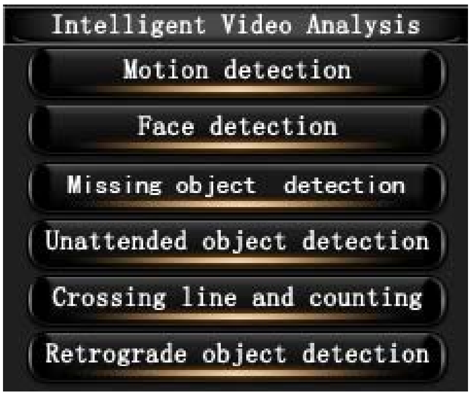

Sensitivity

Drag the scroll bar and user can adjust the sensitivity(the bigger the value is, the more sensitive this function is).

② **Continuous Alarm Interval:** The interval between two alarms.

9.4.2 Enable Function

After configure parameters, return to the main menu. Click‘Motion detection’button in‘Intelligent video analysis’zone of main menu’s Control Zone and now user has started this function.

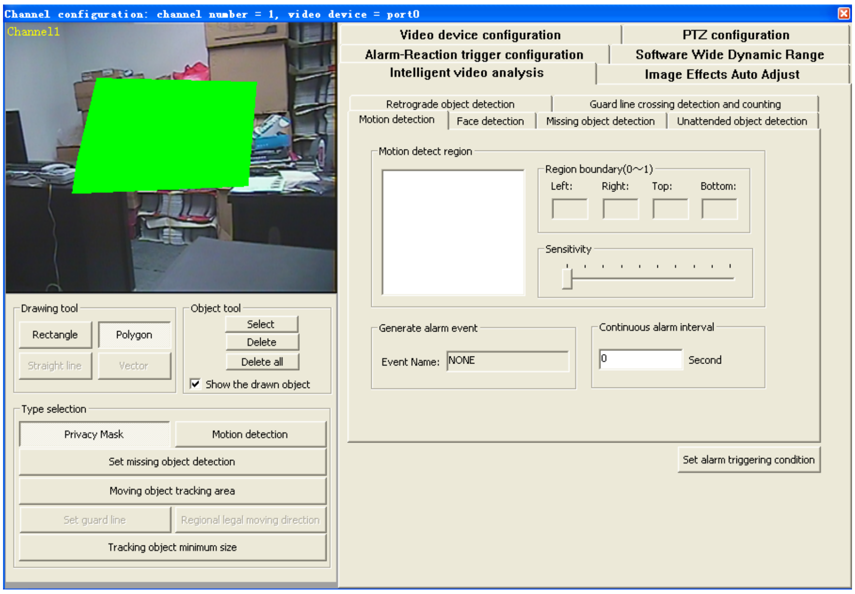

Intelligent Video Analysis
Motion detection
Face detection
Missing object detection
Unattended object detection
Crossing line and counting
Retrograde object detection

9.5 Privacy mask

This function means that in the video if there is some area that you do not want others to see, software could mask it.

9.5.1 Configure mask area

After enter the main menu, choose the channel needed to start Privacy mask. Click main menu's function button'Configuration' and choose 'channel configuration' to enter configuration menu as the following picture,

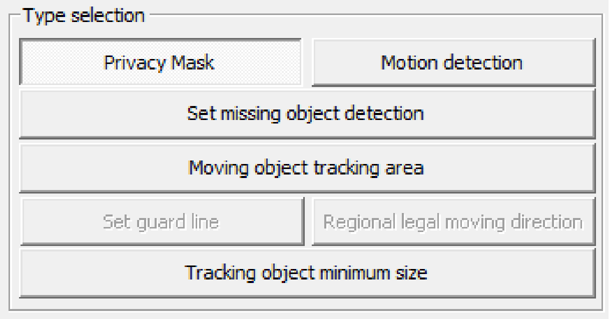

Channel configuration: channel number = 1, video device = port0

Event Name: NONE

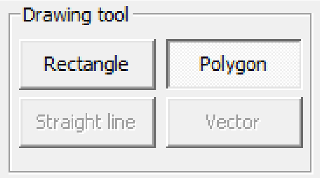
Continuous alarm interval: 0 Second

Channel1
Video device configuration
PTZ configuration
Alarm-Reaction trigger configuration
Software Wide Dynamic Range
Intelligent video analysis
Image Effects Auto Adjust
Retrograde object detection
Guard line crossing detection and counting
Motion detection
Face detection
Missing object detection
Unattended object detection
Motion detect region
Region boundary(0~1)
Left:
Right:
Top:
Bottom:
Sensitivity
Generate alarm event
Set alarm triggering condition
Drawing tool
Rectangle
Polygon
Straight line
Vector
Object tool
Select
Delete
Delete all
☑ Show the drawn object
Type selection
Privacy Mask
Motion detection
Set missing object detection
Moving object tracking area
Set guard line
Regional legal moving direction
Tracking object minimum size

First click' Privacy mask'button of'Type Selection'.


Type selection
Privacy Mask
Motion detection
Set missing object detection
Moving object tracking area
Set guard line
Regional legal moving direction
Tracking object minimum size

Then choose ‘Rectangle’or‘Polygon’in‘Drawing tool’, and then draw the masked area in the video screen.


Drawing tool
Rectangle
Polygon
Straight line
Vector

9.5.2 Enable the function

After set the masked area, close‘Channel configuration’to enter the main menu and now user has started this function.

10 Image enhancement module function (optional)

Image enhancement module function need user to purchase additional USB dongle to update software function to premium edition.

Insert USB dongle(in the Packing box, appearance is similar to a USB Flash Memory) into computer’s USB port and the USB **dongle need to be insert into USB port all along during installing software and running software.**

※ When the image enhanced function(Defog or Soft WDR) and D1 recording are turned on under D1 resolution at the same time, Quad CPU configuration computer is recommended.

10.1 Defogging Live Video

This function could be used in smoky environments and bad weather, such as rain, snow or fog which affect image quality and reduce scene visibility. This feature helps to enhance image quality for viewing.

Enable the function

After enter the main menu, choose the channel needed to start defogging and click 'Start Defog'button in'Image enhancement'on the right of main menu.

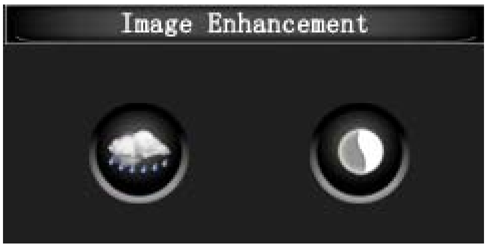


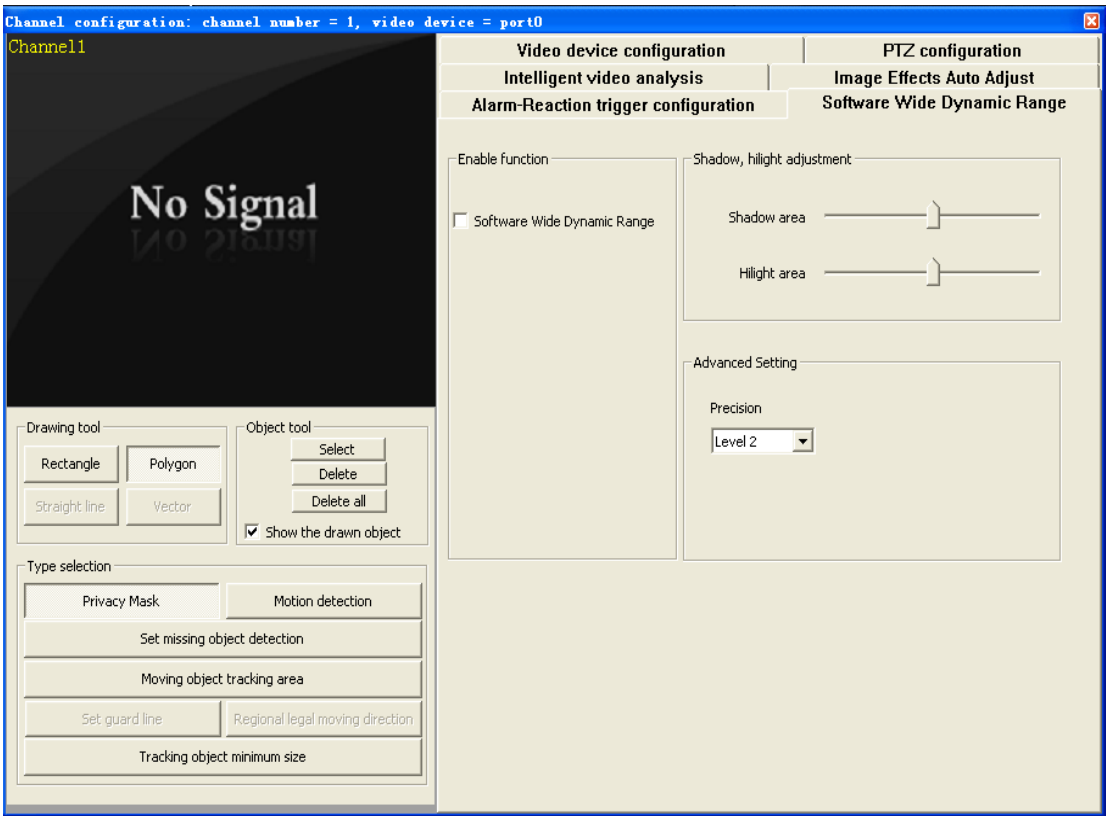
Figure 65 Image enhancement interface

10.2 Software Wide Dynamic Range(Soft WDR)

This function could adjust the digital gain of each pixel individually depending on the surrounding illumination condition that the specific pixel is in. SoftWDR could dramatically improve the image and video quality, let the viewer see much more detailed information of the original video, specially those videos captured in difficult situation or under difficult viewing condition, like outdoor scenes, metropolitan area and other natural scenes with high dynamic range illumination.

10.2.1 Configuration

After enter the main menu, choose the channel needed to start Soft WDR. Click main menu's function button'Configuration' and choose 'channel configuration' to enter configuration menu and choose 'Software Wide dynamic Range'as the picture below,



Channel configuration: channel number = 1, video device = port0

Channel1

☐ Software Wide Dynamic Range

Precision: Level 2

☑ Show the drawn object

No Signal
Video device configuration
PTZ configuration
Intelligent video analysis
Image Effects Auto Adjust
Alarm-Reaction trigger configuration
Software Wide Dynamic Range
Enable function
Shadow, hilight adjustment
Shadow area
Hilight area
Advanced Setting
Drawing tool
Rectangle
Polygon
Straight line
Vector
Object tool
Select
Delete
Delete all
Type selection
Privacy Mask
Motion detection
Set missing object detection
Moving object tracking area
Set guard line
Regional legal moving direction
Tracking object minimum size

① Click'Software Wide dynamic Range'of'Enable Function'.

② If need to adjust shadow and high light, drag the scroll bar in'Shadow and High light adjustment'.

Shadow area: Could enhance image quality of the shadow area.

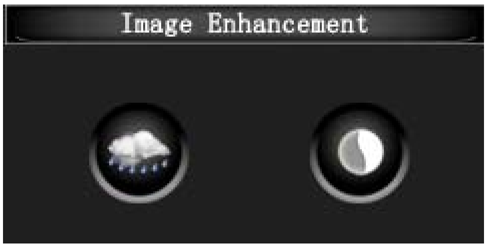
Hilight area: Could enhance image quality of the hilight area.

③ In advanced Settings, the smaller the precision value is, the better the effect is,but the more CPU resources are needed.

If user has choosed the 'Software Wide dynamic Range'of'Enable Function'.,after exit the Configuration menu, the function of Software wide dynamic range has been enabled.

10.2.2 Enable or stop Soft WDR

After enter the main menu, choose the channel needed to start Soft WDR,and click 'Start SoftWDR'button in'Image enhancement'on the right of main menu.



11 Moving object tracking function (optional)

Moving object tracking module function need user to purchase additional **USB dongle** to update software function to premium edition.

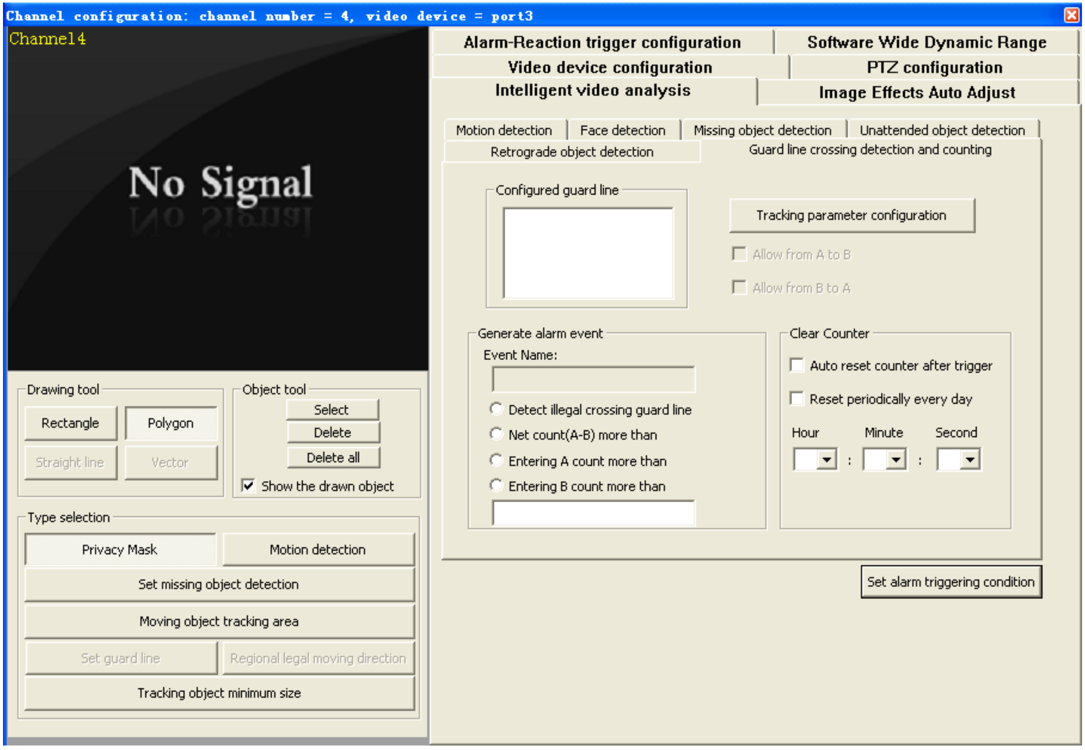
Insert USB dongle(in the Packing box, appearance is similar to a USB Flash Memory) into computer's USB port and the USB dongle need to be insert into USB port all along during installing software and running software.

11.1 Guard line crossing detection and counting

This function means that setting a line in the video, when there are objects crossing the guard line,alarm is triggered,and user can define one-way guard line crossing. At the same time user can count the objects crossing the guard line.

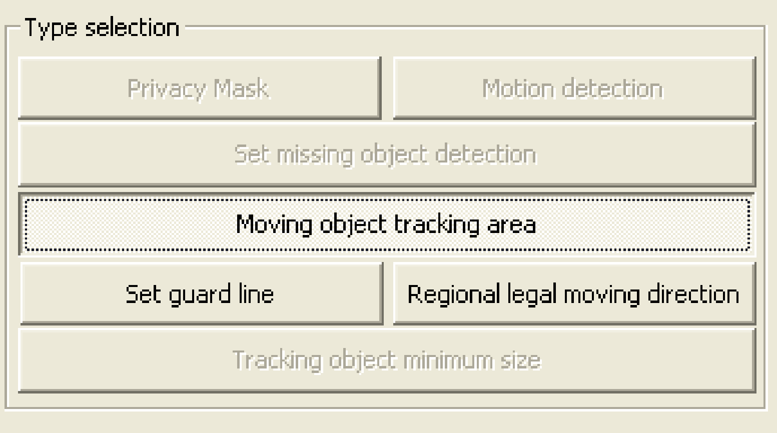
11.1.1 Configure parameters

After enter the main menu, choose the channel needed to start Crossing guard line detection and counting. Click main menu's function button'Configuration' and choose 'channel configuration' to enter configuration menu as the following picture,


Channel configuration: channel number = 4, video device = port3
Channel4
No Signal
Alarm-Reaction trigger configuration
Software Wide Dynamic Range
Video device configuration
PTZ configuration
Intelligent video analysis
Image Effects Auto Adjust
Motion detection
Face detection
Missing object detection
Unattended object detection
Retrograde object detection
Guard line crossing detection and counting
Configured guard line
Tracking parameter configuration
Allow from A to B
Allow from B to A
Generate alarm event
Event Name:
Detect illegal crossing guard line
Net count(A-B) more than
Entering A count more than
Entering B count more than
Clear Counter
Auto reset counter after trigger
Reset periodically every day
Hour
Minute
Second
Set alarm triggering condition
Drawing tool
Rectangle
Polygon
Straight line
Vector
Object tool
Select
Delete
Delete all
Show the drawn object
Type selection
Privacy Mask
Motion detection
Set missing object detection
Moving object tracking area
Set guard line
Regional legal moving direction
Tracking object minimum size

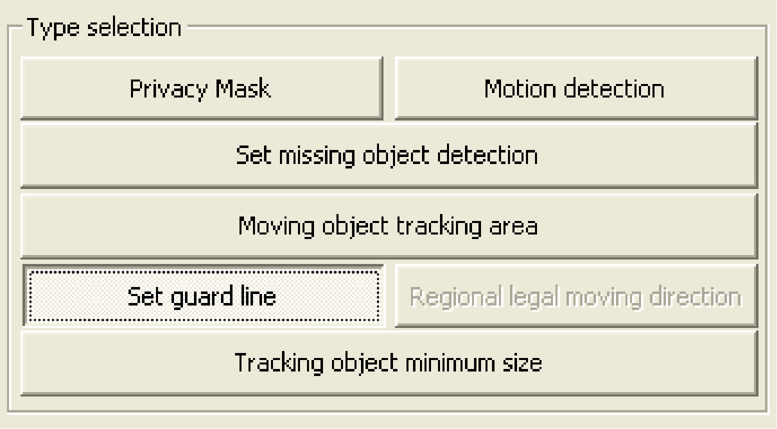
(1) Set moving object tracking area

First user need to set moving object tracking area. User could draw the moving object tracking area by Polygon in the the video screen of channel configuration menu . Outside this tracking area, the moving object will not be tracked.


Type selection
Privacy Mask
Motion detection
Set missing object detection
Moving object tracking area
Set guard line
Regional legal moving direction
Tracking object minimum size

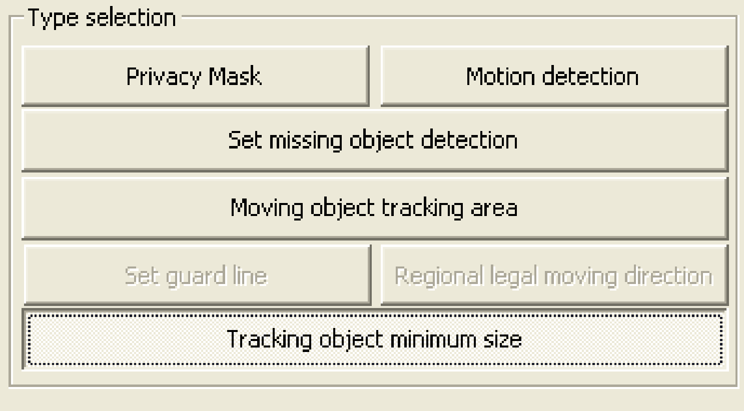
(2) Set guard line

Second click ‘Set guard line’button of‘Type Selection’.


Type selection
Privacy Mask
Motion detection
Set missing object detection
Moving object tracking area
Set guard line
Regional legal moving direction
Tracking object minimum size

and then draw the guard line **by Straight line** in the small video screen of channel configuration menu .

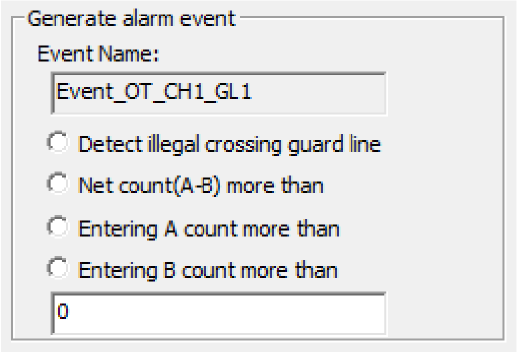
(3) Configuration of tracking object’s minimum size


Type selection
Privacy Mask
Motion detection
Set missing object detection
Moving object tracking area
Set guard line
Regional legal moving direction
Tracking object minimum size

Third user must configure tracking object’s minimum size. Click‘tracking object minimum size’button， and draw the minimum size of tracking object by rectangle in the small video screen of channel configuration menu .

(4) Other parameter settings

(Before configuration,please click the guard line name in ‘Configured guard line’)



Generate alarm event

Event Name:

Event_OT_CH1_GL1

○ Detect illegal crossing guard line

○ Net count(A-B) more than

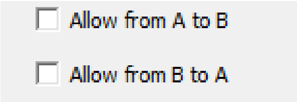
○ Entering A count more than

○ Entering B count more than

0

Figure 66 Generate alarm event interface

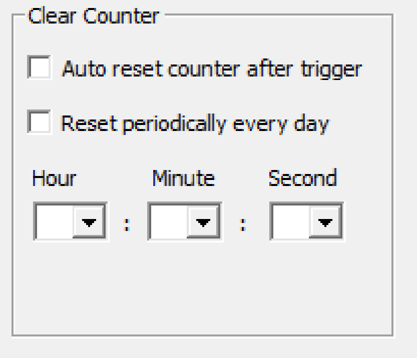
If user only want to only realise the function of Guard line crossing detection and alarm,please click‘Detect illegal crossing guard line’.



☐ Allow from A to B

☐ Allow from B to A

Set the direction of allowable crossing line.



Clear Counter

☐ Auto reset counter after trigger

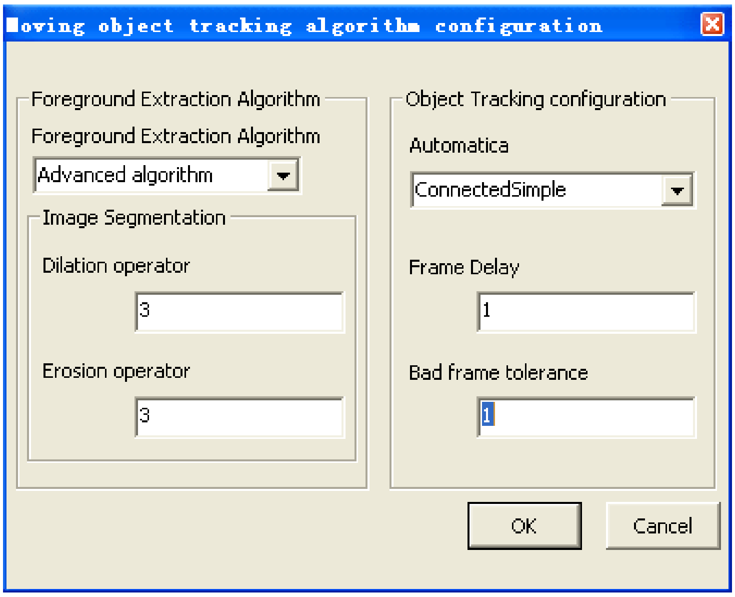
☐ Reset periodically every day

Hour : Minute : Second

can be reset automatically after setting the time or alarm.

(5) Tracking parameter settings: This part is suggested to use the default.

Click'Tracking parameter settings'button Tracking parameter configuration, pop up the following dialog box.



Moving object tracking algorithm configuration

Foreground Extraction Algorithm

Foreground Extraction Algorithm: Advanced algorithm

Image Segmentation

Dilation operator: 3

Erosion operator: 3

Object Tracking configuration

Automatica: ConnectedSimple

Frame Delay: 1

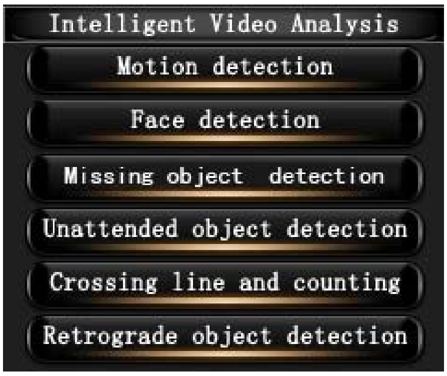
Bad frame tolerance: 1

OK Cancel

Figure 67 Moving object tracking algorithm configuration interface

11.1.2 Enable Function

After configure parameters, return to the main menu. Click'Crossing guard line detection and counting'button in'Intelligent video analysis'zone of main menu's Control Zone and now user has started this function.

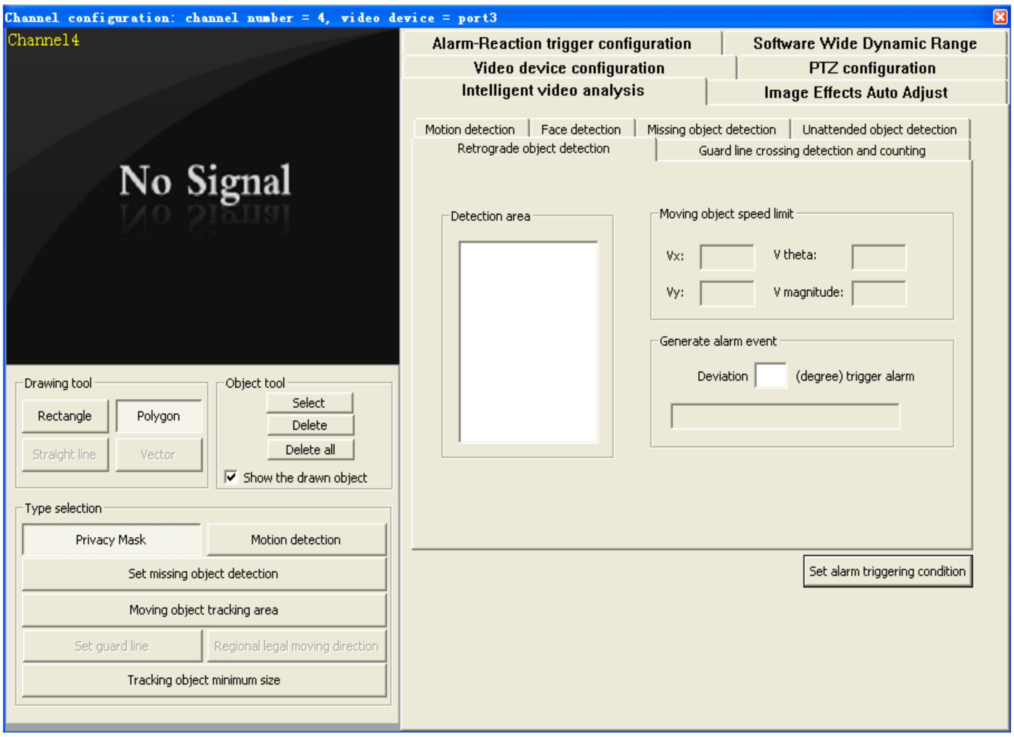

Intelligent Video Analysis
Motion detection
Face detection
Missing object detection
Unattended object detection
Crossing line and counting
Retrograde object detection

11.2 Retrograde Detection

This function means that setting a legal direction in the configured moving area, when there are objects moving towards the opposite direction,alarm is triggered. User can configure the degree between the moving direction and legal direction for the judgement of retrograde.

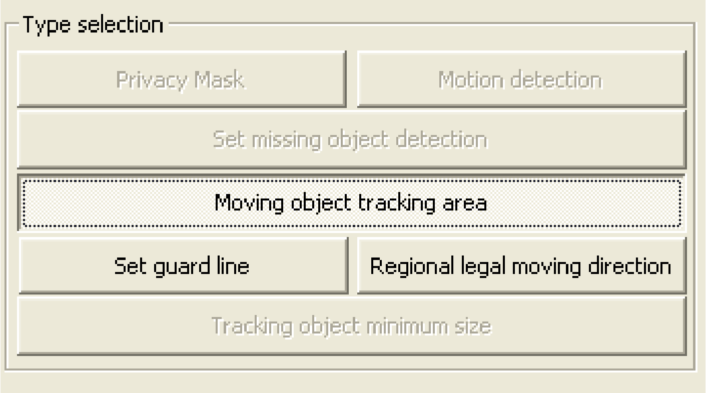
11.2.1 Configure parameters

After enter the main menu, choose the channel needed to start Retrograde Detection. Click main menu's function button'Configuration' and choose 'channel configuration' to enter configuration menu as the following picture,


Channel configuration: channel number = 4, video device = port3
Channel4
No Signal
Alarm-Reaction trigger configuration
Software Wide Dynamic Range
Video device configuration
PTZ configuration
Intelligent video analysis
Image Effects Auto Adjust
Motion detection
Face detection
Missing object detection
Unattended object detection
Retrograde object detection
Guard line crossing detection and counting
Detection area
Moving object speed limit
Vx:
V theta:
Vy:
V magnitude:
Generate alarm event
Deviation
(degree) trigger alarm
Set alarm triggering condition
Drawing tool
Rectangle
Polygon
Straight line
Vector
Object tool
Select
Delete
Delete all
☑ Show the drawn object
Type selection
Privacy Mask
Motion detection
Set missing object detection
Moving object tracking area
Set guard line
Regional legal moving direction
Tracking object minimum size

(1) Set moving object tracking area

First user need to set moving object tracking area. User could draw the moving object tracking area by Polygon in the the video screen of channel configuration menu . Outside this tracking area, the moving object will not be tracked.

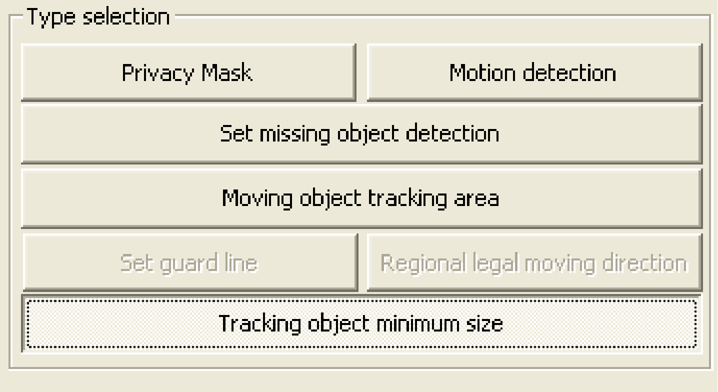

Type selection
Privacy Mask
Motion detection
Set missing object detection
Moving object tracking area
Set guard line
Regional legal moving direction
Tracking object minimum size

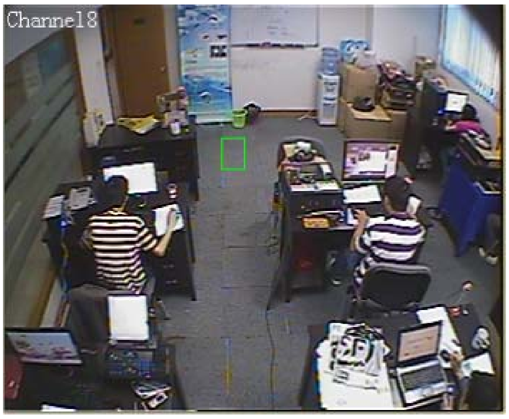
(2) Set regional legal moving direction

Second click‘Regional legal moving direction’button in‘Type Selection’and then draw the object’s legal moving direction **by Vector** in drawn moving region.

(3) Configuration of tracking object’s minimum size

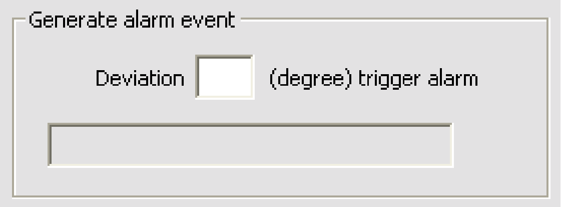
Third user must configure tracking object’s minimum size. Click‘tracking object minimum size’button， and draw the minimum size of tracking object **by rectangle** in the small video screen of channel configuration menu .


Type selection
Privacy Mask
Motion detection
Set missing object detection
Moving object tracking area
Set guard line
Regional legal moving direction
Tracking object minimum size



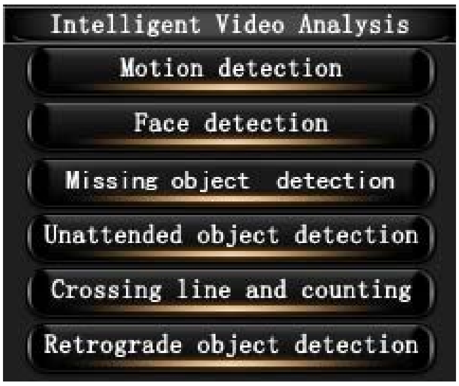
(4) Other related settings

In'Alarm event'of'Retrograde detection of moving object',set the alarm situation of deviation degree between the moving direction and legal direction.


Generate alarm event
Deviation
(degree) trigger alarm

11.2.2 Enable Function

After configure parameters, return to the main menu. Click'Retrograde detection' button in'Intelligent video analysis'zone of main menu's Control Zone and now user has started this function.

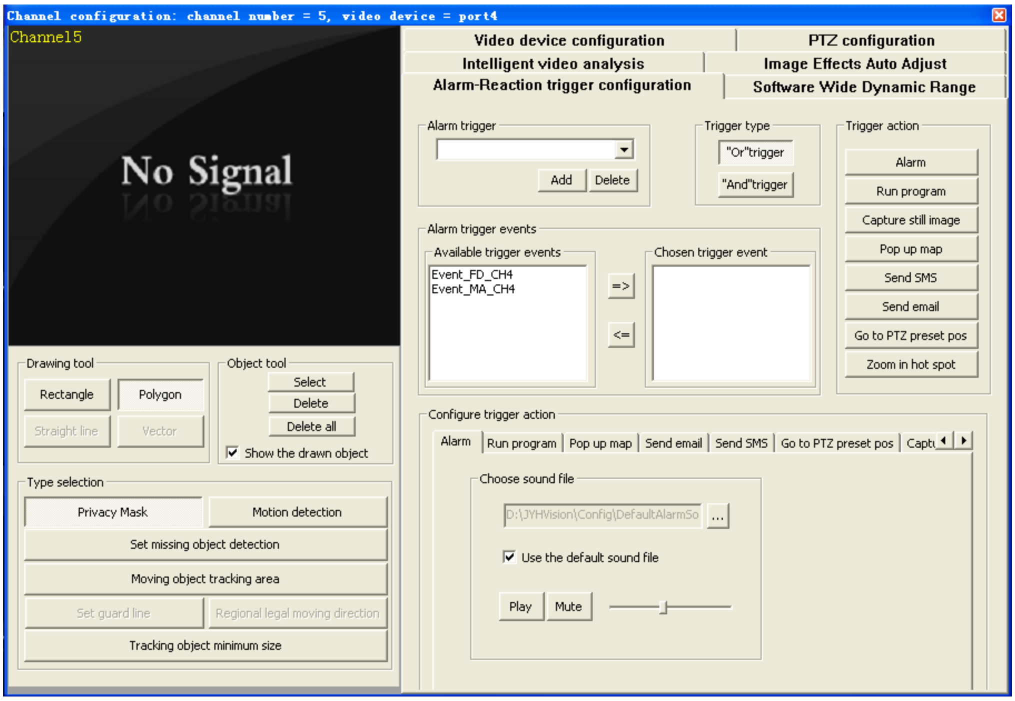

Intelligent Video Analysis
Motion detection
Face detection
Missing object detection
Unattended object detection
Crossing line and counting
Retrograde object detection

12 Alarm function

12.1 Alarm trigger configuration

Before configure triggering alarm, pls set up related intelligence analysis function. Triggering alarm configuration majorly need to make intelligent analysis and all kinds of alarm actions associated.

After enter the main menu, click the channel needed to open alarm function and click main menu's function button 'Configuration' and choose 'Channel configuration' to enter configuration menu,and choose'Alarm-Reaction trigger configuration'as below,


Channel configuration: channel number = 5, video device = port4
Channel5
No Signal
Video device configuration
PTZ configuration
Intelligent video analysis
Image Effects Auto Adjust
Alarm-Reaction trigger configuration
Software Wide Dynamic Range
Alarm trigger
Add
Delete
Trigger type
"Or"trigger
"And"trigger
Trigger action
Alarm
Run program
Capture still image
Pop up map
Send SMS
Send email
Go to PTZ preset pos
Zoom in hot spot
Alarm trigger events
Available trigger events
Event_FD_CH4
Event_MA_CH4
=>
<=
Chosen trigger event
Drawing tool
Rectangle
Polygon
Straight line
Vector
Object tool
Select
Delete
Delete all
☑ Show the drawn object
Type selection
Privacy Mask
Motion detection
Set missing object detection
Moving object tracking area
Set guard line
Regional legal moving direction
Tracking object minimum size
Configure trigger action
Alarm
Run program
Pop up map
Send email
Send SMS
Go to PTZ preset pos
Captu
Choose sound file
D:\JYHVision\Config\DefaultAlarmSo
...
☑ Use the default sound file
Play
Mute

12.1.1 Add alarm trigger(name and type)

After click‘Add’ button of‘alarm trigger’,‘add’dialog box is poped up. Fill in the name of the trigger, and select the triggering type, and click "OK".

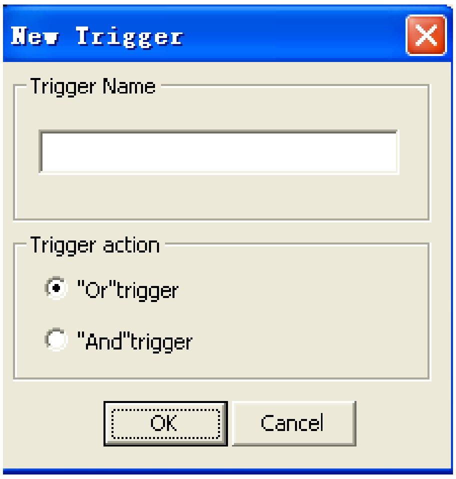
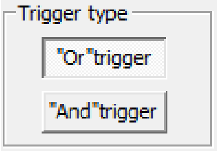

New Trigger
Trigger Name
Trigger action
● "Or"trigger
○ "And"trigger
OK
Cancel

Figure 68　New trigger interface

“Or”trigger:　As long as one triggering event occurs among all the triggering events, alarm will be triggered.

“And”trigger:　When all the triggering events occur, alarm can be triggered.


Trigger type
"Or"trigger
"And"trigger

After configure the trigger, it also could be changed in‘Triggering type’ by choosing different triggering type.

12.1.2 Select alarm triggering events

In "Available triggering events", click the event need to trigger, and then click’Add’ button => to add a triggering event. (If need to delete the selected triggering event, click that event, and then click‘Delete’button <=.

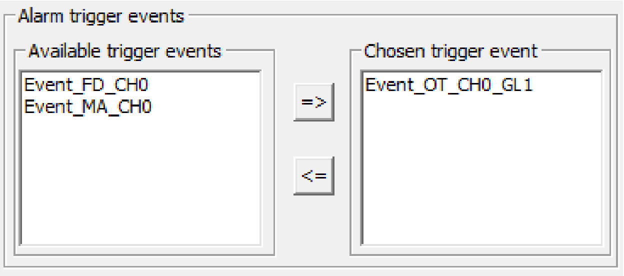

Alarm trigger events
Available trigger events
Event_FD_CH0
Event_MA_CH0
=>
<=
Chosen trigger event
Event_OT_CH0_GL1

Figure 69 Alarm trigger events interface

12.1.3 Select triggering alarm action

Click the related icon of‘Triggering Alarm Action’. Now we support eight kind of alarm action.

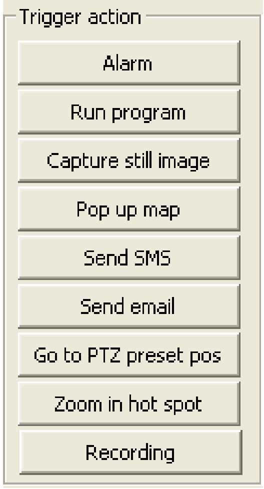
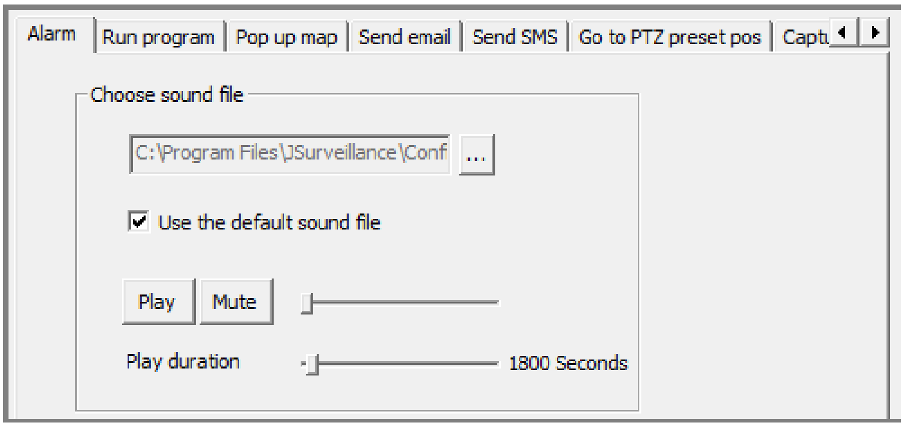

Trigger action
Alarm
Run program
Capture still image
Pop up map
Send SMS
Send email
Go to PTZ preset pos
Zoom in hot spot
Recording

Figure 70 Trigger action interface

(1) Alarm sound

Click ‘Open’ button …, and choose the sound file needed to configure, and then click "Open" button.


Alarm
Run program
Pop up map
Send email
Send SMS
Go to PTZ preset pos
Captu
Play
Mute

Choose sound file

C:\Program Files\JSurveillance\Conf …

☑ Use the default sound file

Play duration 1800 Seconds

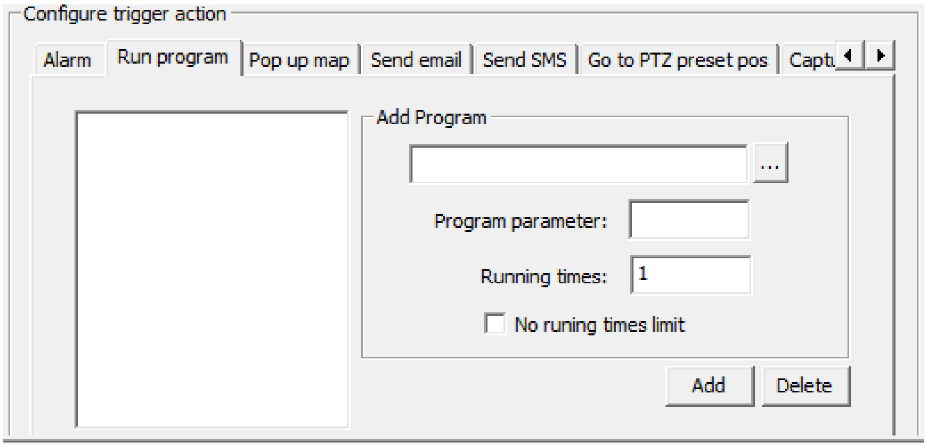
Figure 71 Trigger action selection interface

Play Mute is used to play and close the sound files for audition.

User could adjust the play time for alarm sound (10sec-1800sec).

(2) Run program

After click ‘Open files’ … button, and add the program needed to run, and set running times, and then click ‘Add’ button. (If need deleting,please choose the program in the left box, and then click ‘Delete’button).


Alarm
Run program
Pop up map
Send email
Send SMS
Go to PTZ preset pos
Captu
Add
Delete

Configure trigger action

Add Program

Program parameter:

Running times: 1

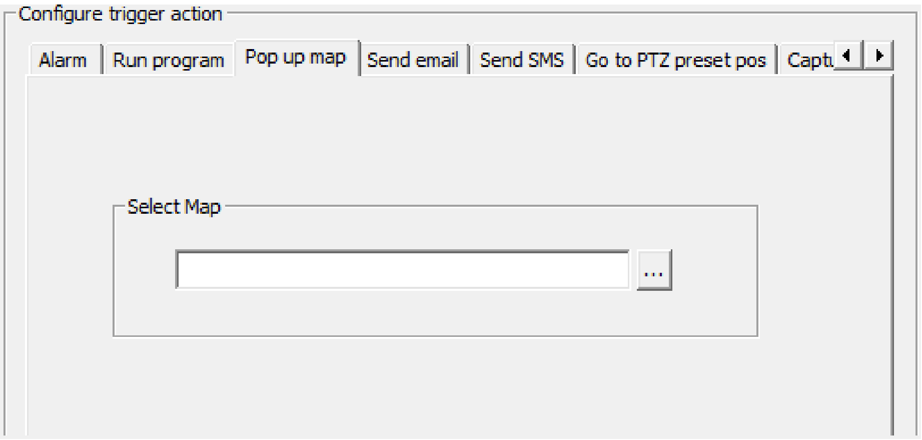
☐ No runing times limit

[Note]:

Running times refer to the total times on the same day.

(3) Pop up map

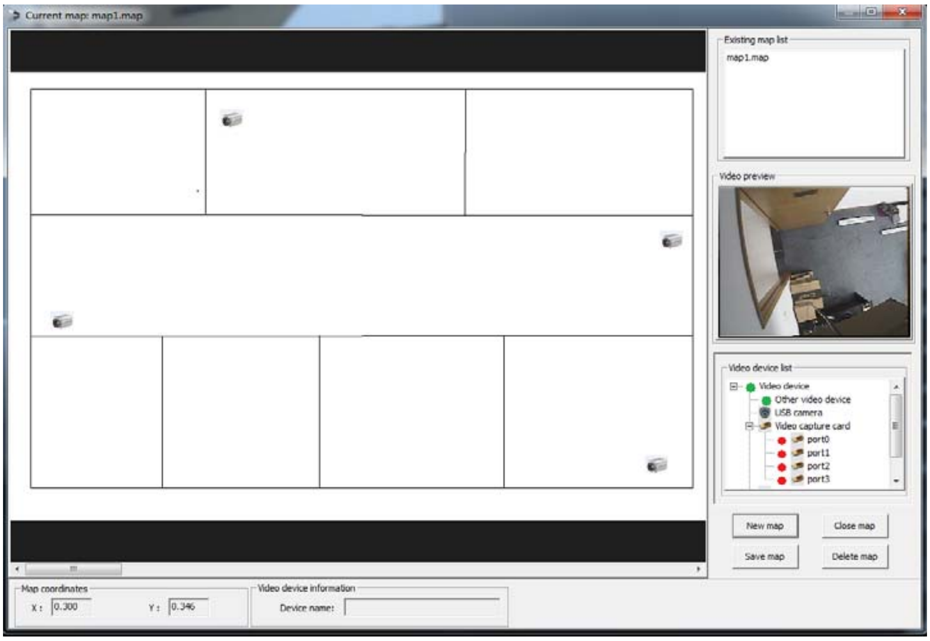
Click‘Open Files’button ... , and select the map file in the dialog box,and click "Open" button.


Configure trigger action
Alarm
Run program
Pop up map
Send email
Send SMS
Go to PTZ preset pos
Captu
Select Map
...

※ E-map settings

Through E-map’s creation, user can arrange surveillance of front cameras ,and can easily view the position of front cameras and check alarm information prompt. Through electronic map’s position information, user can easily find the corresponding monitoring camera.

Click E-map button in main menu ,and then enter E-map managerment menu as below,


Current map: map1.map
Existing map list
map1.map
Video preview
Video device list
Video device
Other video device
USB camera
Video capture card
port0
port1
port2
port3
New map
Close map
Save map
Delete map
Map coordinates
Video device information
Device name:

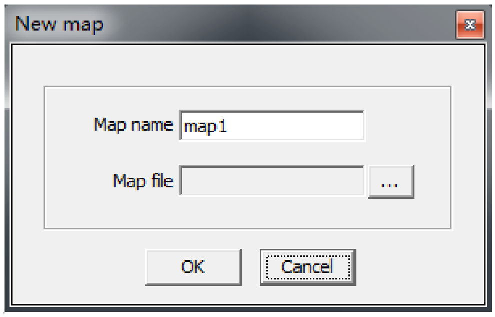
X : 0.300

Y : 0.346

Figure 72 E-map settings interface

(a) Create new map

Click ‘Create map’button, and pop up dialog box. After click‘Open’button and select the relevant map, click‘Open’, and then fill in the map name and click‘OK’as the following picture,

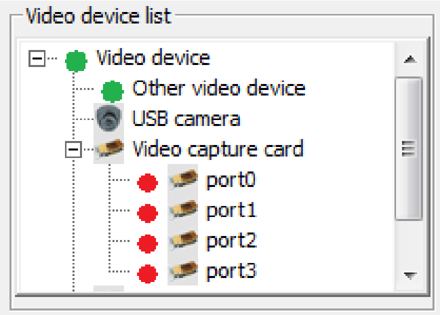

New map
...
OK
Cancel

Map name: map1

Map file:

Figure 73 New map interface

Then, click the left button(long press) and drag the the relevant camera icon in‘Video device list’ to the corresponding position in the map.


Video device list
Video device
Other video device
USB camera
Video capture card
port0
port1
port2
port3

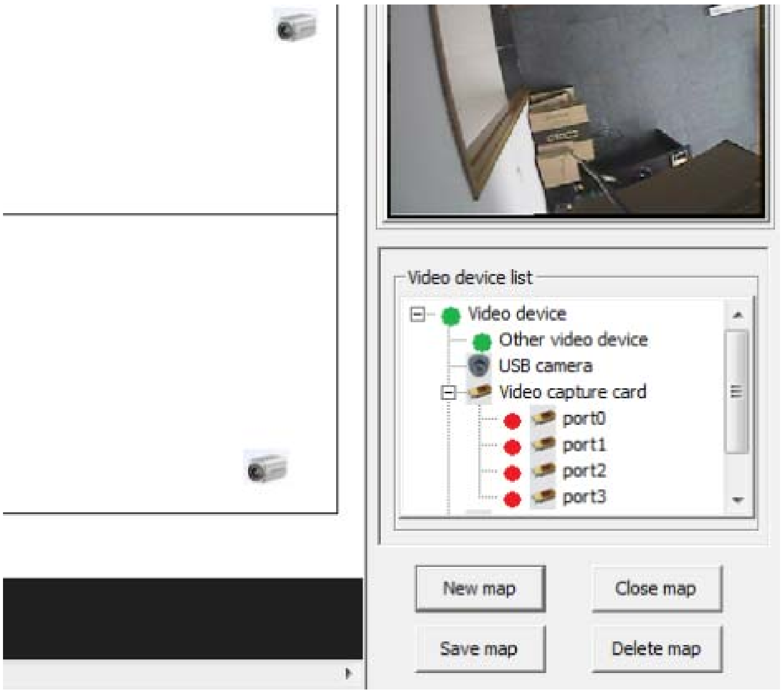

Video device list
Video device
Other video device
USB camera
Video capture card
port0
port1
port2
port3
New map
Close map
Save map
Delete map

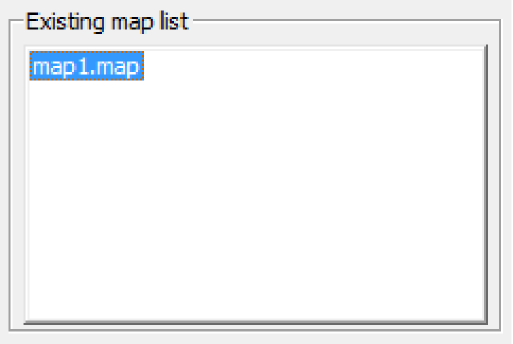
Figure 74 Video device list interface

Finally click'Save'button to save the new map.

(b) Edit existing map

(i) Open map file

Double click the map file in'Existing map list'as below,

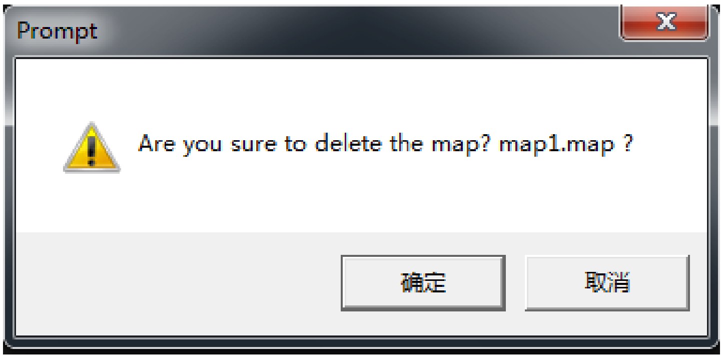

Existing map list
map1.map

(ii) Close opened map

Click'Close'button.

(iii) Delete map

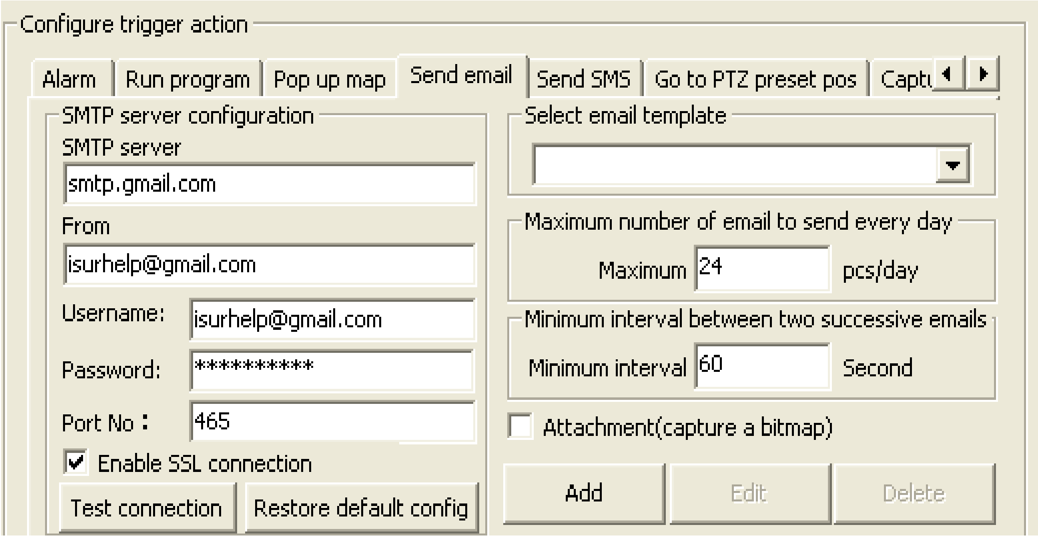
After click the map in the'Existing map list'that you want to delete,click'Delete' button, and pop up a dialog box for deletion, and then click'OK'.



Prompt

Are you sure to delete the map? map1.map ?

(4) Send e-mail



Configure trigger action

Alarm
Run program
Pop up map
Send email
Send SMS
Go to PTZ preset pos
Captu

SMTP server configuration

SMTP server: smtp.gmail.com

From: isurhelp@gmail.com

Username: isurhelp@gmail.com

Password: **********

Port No：465

☑ Enable SSL connection

Test connection
Restore default config

Select email template

Maximum number of email to send every day

Maximum 24 pcs/day

Minimum interval between two successive emails

Minimum interval 60 Second

☐ Attachment(capture a bitmap)

Add
Edit
Delete

Figure 75 Send e-mail interface

(i) After click‘Add’button to pop up dialog box, add the recipient's email address, fill in the title and content. (If already have the finished template, directly choose it in ‘Select Email Template’)

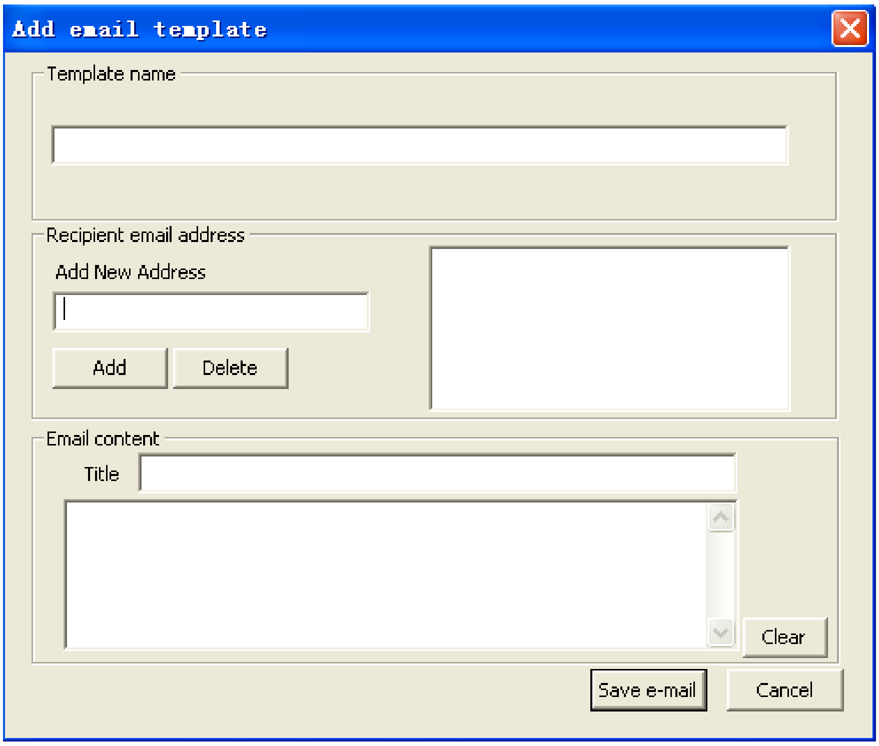

Add email template
Template name
Recipient email address
Add New Address
Add
Delete
Email content
Title
Clear
Save e-mail
Cancel

Figure 76 Add email template interface

Finally set ‘Sending email times every day’, ‘Sending email’s smallest interval’and ‘Attachment’.

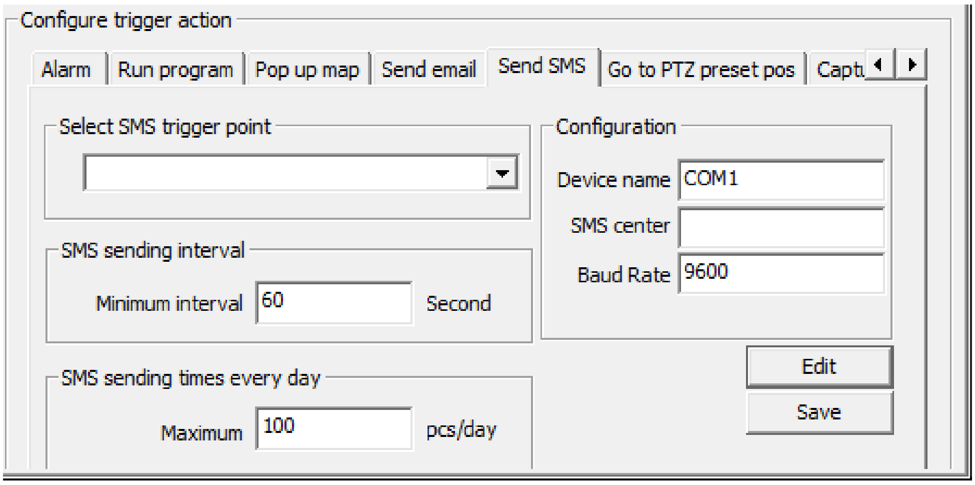
(ii) System default sending email box is isurhelp@gmail.com. User can change the sending email box address, but user need to set SMTP server ,user name and password.

If mailbox don’t need to enable SSL connection, pls input 25 in ‘port No.’

If mailbox need to enable SSL connection,user need to input port No. accoding to Email server’s requirement.For example, if for Gmail box, input 465 in ‘port No.’

(5) Send SMS

※ Sending SMS function need to connect the SMS modem on the PC.


Configure trigger action
Alarm
Run program
Pop up map
Send email
Send SMS
Go to PTZ preset pos
Captu
Select SMS trigger point
Configuration
SMS sending interval
SMS sending times every day
Edit
Save

Device name COM1

SMS center

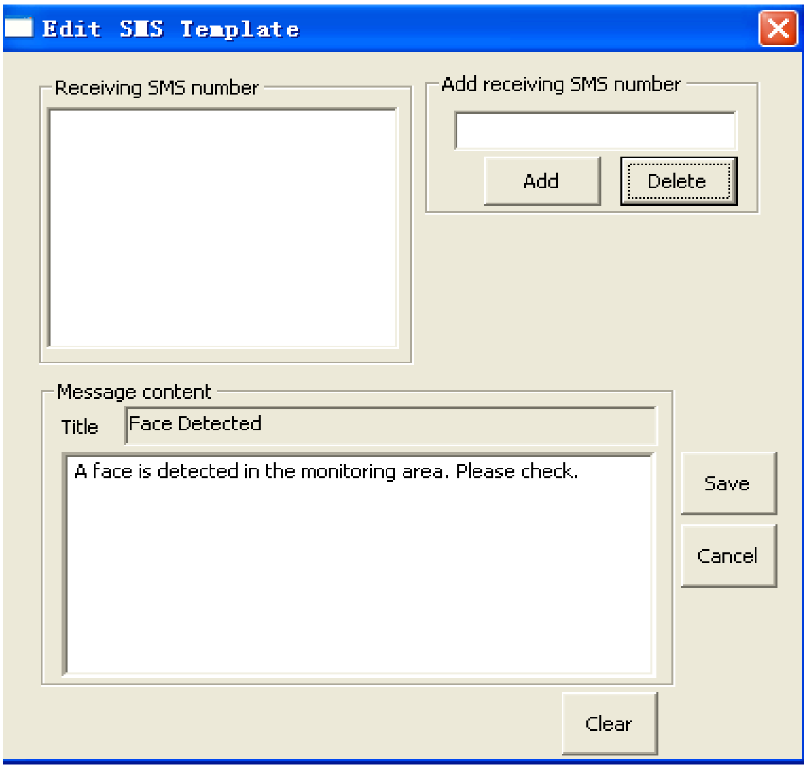
Baud Rate 9600

Minimum interval 60 Second

Maximum 100 pcs/day

Figure 77　Send SMS interface

Choose the relevant triggering point of ‘Select SMS triggering point’ , and then click ‘Edit’button and pop up the following dialog box. Add receiving SMS number, and fill in the title and content of SMS, and then click ‘Save’.


Edit SMS Template
Receiving SMS number
Add receiving SMS number
Add
Delete
Message content
Save
Cancel
Clear

Title: Face Detected

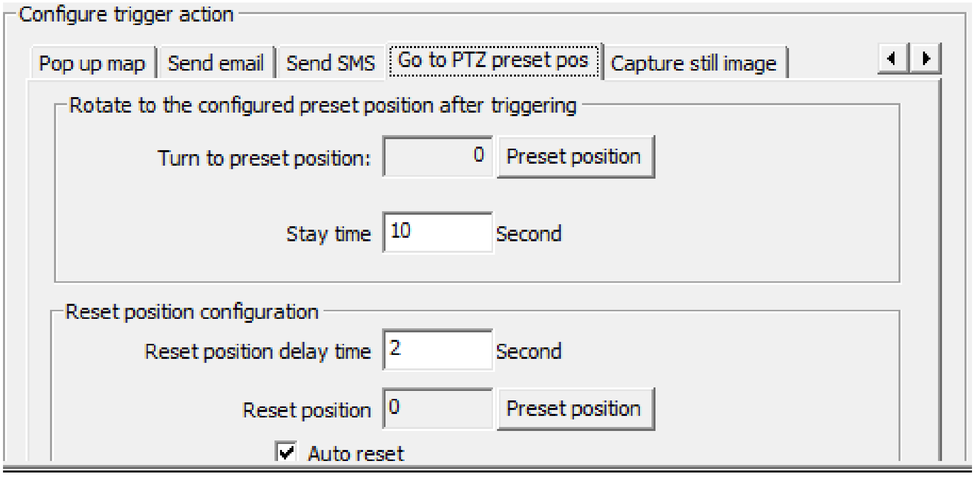
A face is detected in the monitoring area. Please check.

Figure 78　Edit SMS template interface

Finally, set ‘SMS sending time’,‘Sending SMS times every day’and ‘Configuration’(SMS center number is the corresponding mobile operator’s SMS center number), and after finish configuration, click ‘Save’button.

(6) PTZ preset position

Click 'PTZ preset position'button and click selected preset position ,and then set staying time. If need to reset,click 'Auto resetting'and set time.


Pop up map
Send email
Send SMS
Go to PTZ preset pos
Capture still image
Preset position
Preset position

Configure trigger action

Rotate to the configured preset position after triggering

Turn to preset position: 0

Stay time 10 Second

Reset position configuration

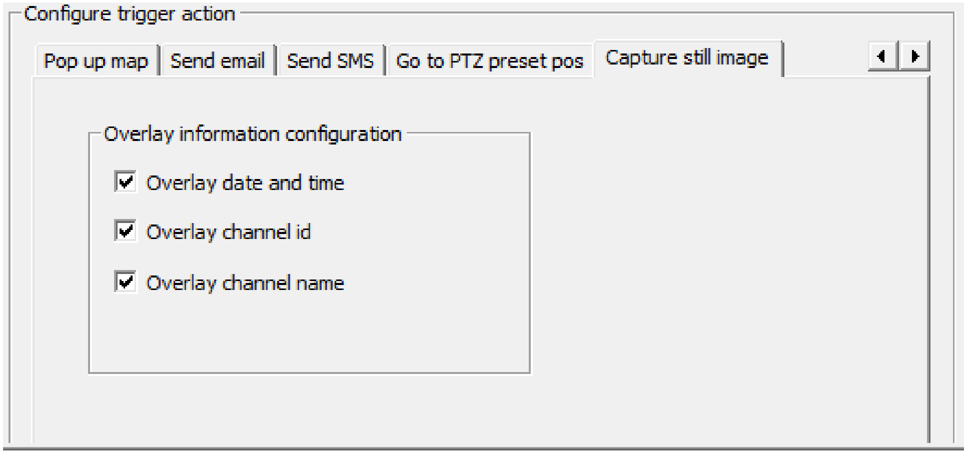
Reset position delay time 2 Second

Reset position 0

☑ Auto reset

Figure 79 PTZ preset position interface

(7) Capture image


Pop up map
Send email
Send SMS
Go to PTZ preset pos
Capture still image

Configure trigger action

Overlay information configuration

☑ Overlay date and time

☑ Overlay channel id

☑ Overlay channel name

Figure 80 Capture image interface

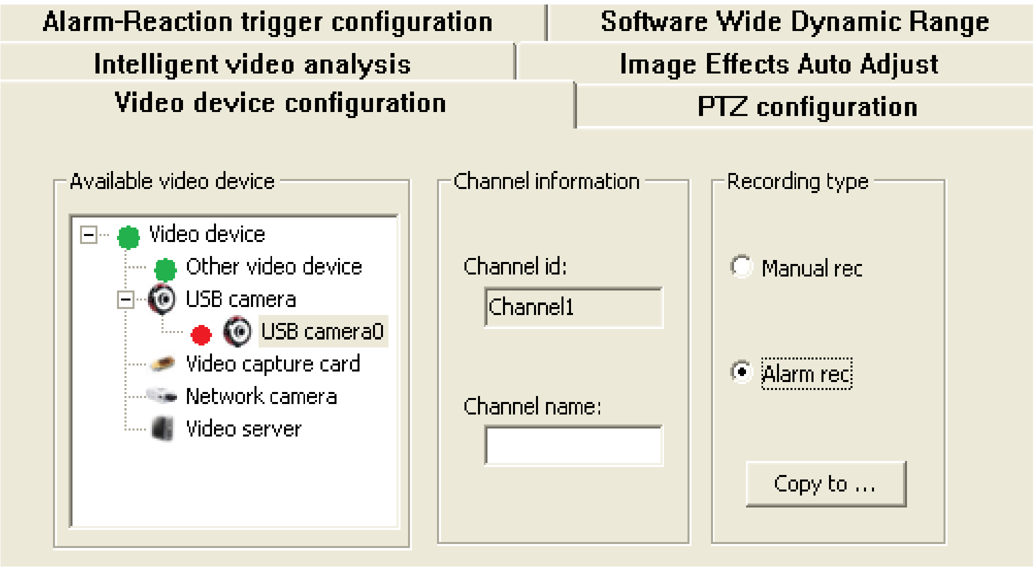
User could choose the related information of overlay(date and time/channel ID/channel name).

(8) Recording

If user need to use alarm recording, operation procedure is as below,

(i) Change the recording type from‘Manual rec’ to‘Alarm rec’

Select the channel which needs to use intelligent function and alarm recording and click main menu’s function button‘Configuration’,and choose ‘channel configuration’ to enter configuration menu as below. Pls select ‘Video device configuration’


Alarm-Reaction trigger configuration
Software Wide Dynamic Range
Intelligent video analysis
Image Effects Auto Adjust
Video device configuration
PTZ configuration
Available video device
Video device
Other video device
USB camera
USB camera0
Video capture card
Network camera
Video server
Channel information
Copy to ...

Channel id: Channel1

Channel name:

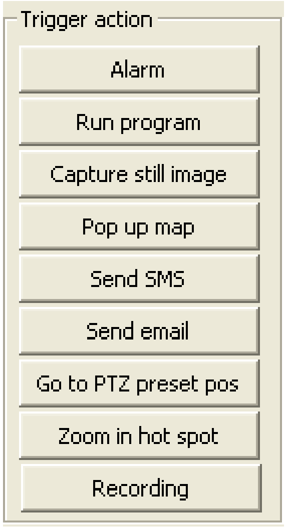
Recording type: ○ Manual rec ● Alarm rec

Figure 81 Video device configuration interface

User need to change the recording type from‘Manual rec’ to‘Alarm rec’.

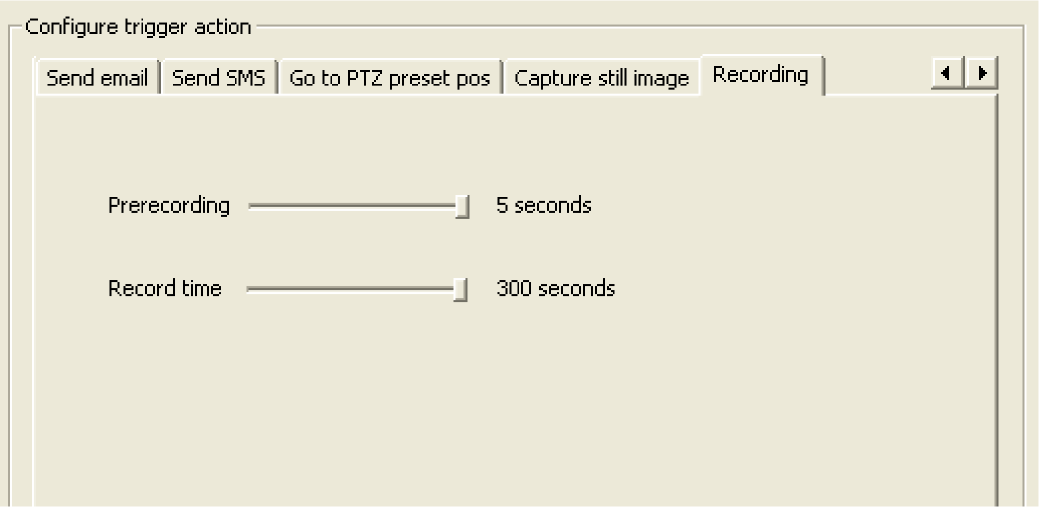
(ii) Choose recording in‘Trigger Action’of Alarm-Reaction trigger configuration

After configure alarm trigger and select alarm trigger events, choose‘Recording’in‘Trigger action’.


Trigger action
Alarm
Run program
Capture still image
Pop up map
Send SMS
Send email
Go to PTZ preset pos
Zoom in hot spot
Recording

(iii) Enable the action of intelligent function such as motion detection,face detection and etc. and now user can start the alarm recording.

※ User can set alarm recording's prerecording time(1 second - 5 seconds) and recording time(10 seconds – 300 seconds).



Prerecording 5 seconds

Record time 300 seconds

Figure 82 Recording interface

※ Our system set manual recording is prior. After user start alarm recording,if user start or stop the recording manually (use'Start/Stop all channels'recording'or'Start/Stop single channel's recording'), alarm recording will be stopped automatically and manual recording will go on.

12.2 Stop Alarm

12.2.1 Function

(1) When alarm sound is triggered,it will ring according to the configured time. If user need to stop the alarm sound in advance,could use 'Stop alarm'

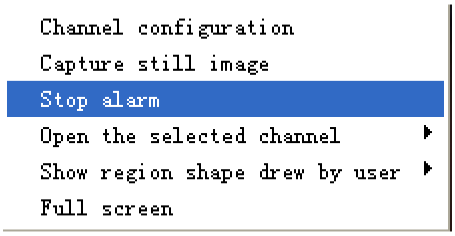
(2) After alarm is triggered,red alarm words will be displayed on the channel screen. If user need to clean these words, could use 'Stop alarm'

(3) If motion detection, Guard line detection, Retrograde detection trigger alarm,the regional Rectangle, Straight line and arrow will change from green color to red. color. Using'Stop alarm'function could recover those to green color.

12.2.2 Enable function

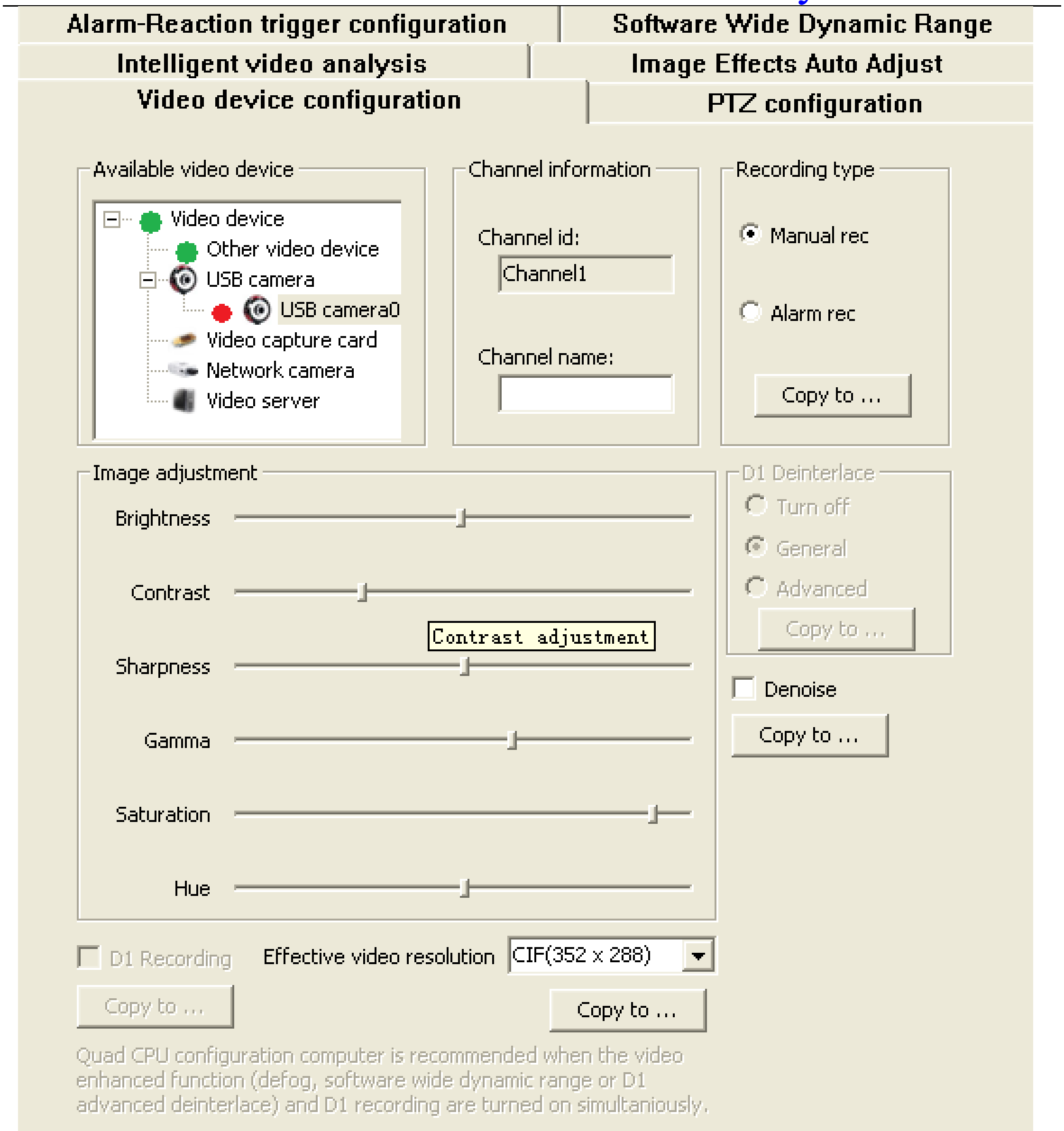
Mode 1: After select the channel, click‘Stop alarm’button on the main menu to realize it.

Mode 2: After select the channel,in this channel area click mouse’s right button and select ‘Stop alarm’to realize it as the picture below,


Channel configuration
Capture still image
Stop alarm
Open the selected channel
Show region shape drew by user
Full screen

13 Video Equipment Management

JSurveillance software supports video capture card and USB PC camera, and will support network camera in the future updated versions.


Alarm-Reaction trigger configuration
Software Wide Dynamic Range
Intelligent video analysis
Image Effects Auto Adjust
Video device configuration
PTZ configuration
Available video device
Video device
Other video device
USB camera
USB camera0
Video capture card
Network camera
Video server
Channel information
Recording type
Copy to ...
Image adjustment
Brightness
Contrast
Contrast adjustment
Sharpness
Gamma
Saturation
Hue
D1 Deinterlace
Copy to ...
Copy to ...
Copy to ...
Copy to ...

Channel id: Channel1

Channel name:

● Manual rec

○ Alarm rec

○ Turn off

● General

○ Advanced

☐ Denoise

☐ D1 Recording

Effective video resolution: CIF(352 x 288)

Quad CPU configuration computer is recommended when the video enhanced function (defog, software wide dynamic range or D1 advanced deinterlace) and D1 recording are turned on simultaniously.

Powerful player(Time playback and file playback)

Chapter 1 Introduction

1.1 Introduction of Powerful player

The player is our self-developed surveillance video playback software; and combined with our video surveillance software. The player plays only video files recorded by our video surveillance software J-Surveillance rather than other formatted files. To start the player, either click the main interface of J-Surveillance software or run it independently. Since the clipped and saved video files have AVI format, they can be played by Storm Video-audio Player or others.

1.2 Features of Powerful player

● support TimePlay and FilePlay.

● support Synchronous and Independent Playback under TimePlay mode.

● can set / cancel the program interface on top.

● support Timing poll Playback, turn pages.

● support backward play

● support play in order or play in converse with the speed of 1 / 16, 1 / 8, 1 / 4, 1 / 2, 2, 4,8,16 times.

● can be step forward, step backward.

● can zoom in

● support playback Image capture

● video cuts can be edited as AVI format.

●videos recorded in any period can be overall packed as AVI format.

●support independently controlling single-channel playback

●distinguish video properties with different colors in the main interface, such as time recording, alarm recording.

●locate time accurately at any time when playback.

●free to drag the mouse to locate time and refresh the video screen.

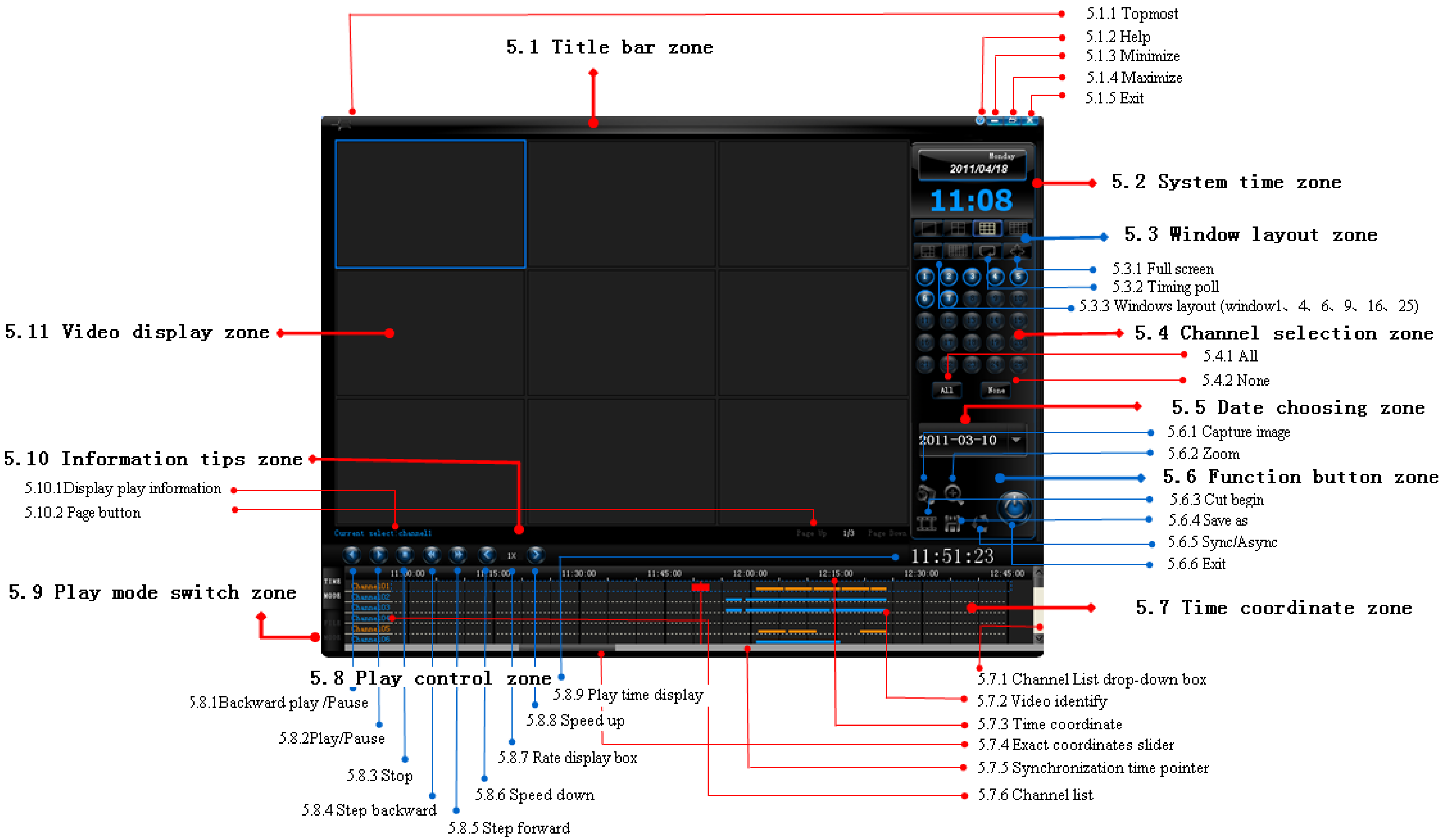
●search the video files according to the alarm event, time, and other details

●support up to 25 video files playback simultaneously or controlling at different windows.

●uniform or individual operation for multiple FilePlay at the same time

Chapter 2 the main interface

2.1 Layout of TimePlay


Monday
2011/04/18
11:08
All
None
2011-03-10
Current select channel1
Page Up
1/3
Page Down
1X
11:51:23
11:00:00
11:15:00
11:30:00
11:45:00
12:00:00
12:15:00
12:30:00
12:45:00
TIME
MODE
Channel01
Channel02
Channel03
Channel04
Channel05
Channel06

5.1 Title bar zone

5.1.1 Topmost

5.1.2 Help

5.1.3 Minimize

5.1.4 Maximize

5.1.5 Exit

5.2 System time zone

5.3 Window layout zone

5.3.1 Full screen

5.3.2 Timing poll

5.3.3 Windows layout (window1、4、6、9、16、25)

5.4 Channel selection zone

5.4.1 All

5.4.2 None

5.5 Date choosing zone

5.6.1 Capture image

5.6.2 Zoom

5.6 Function button zone

5.6.3 Cut begin

5.6.4 Save as

5.6.5 Sync/Async

5.6.6 Exit

5.7 Time coordinate zone

5.7.1 Channel List drop-down box

5.7.2 Video identify

5.7.3 Time coordinate

5.7.4 Exact coordinates slider

5.7.5 Synchronization time pointer

5.7.6 Channel list

5.11 Video display zone

5.10 Information tips zone

5.10.1Display play information

5.10.2 Page button

5.9 Play mode switch zone

5.8 Play control zone

5.8.1Backward play /Pause

5.8.2Play/Pause

5.8.3 Stop

5.8.4 Step backward

5.8.5 Step forward

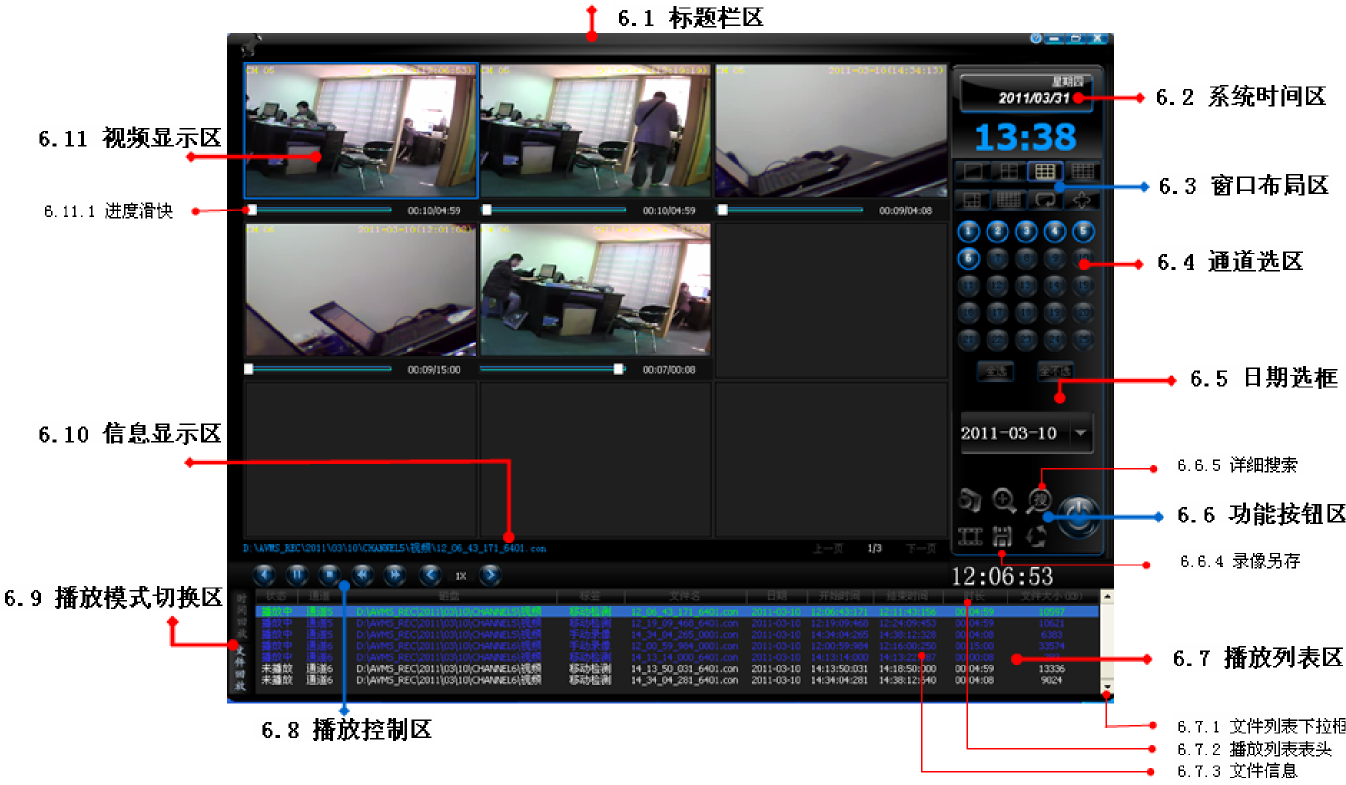
5.8.6 Speed down

5.8.7 Rate display box

5.8.8 Speed up

5.8.9 Play time display

2.2 Layout of FilePlay

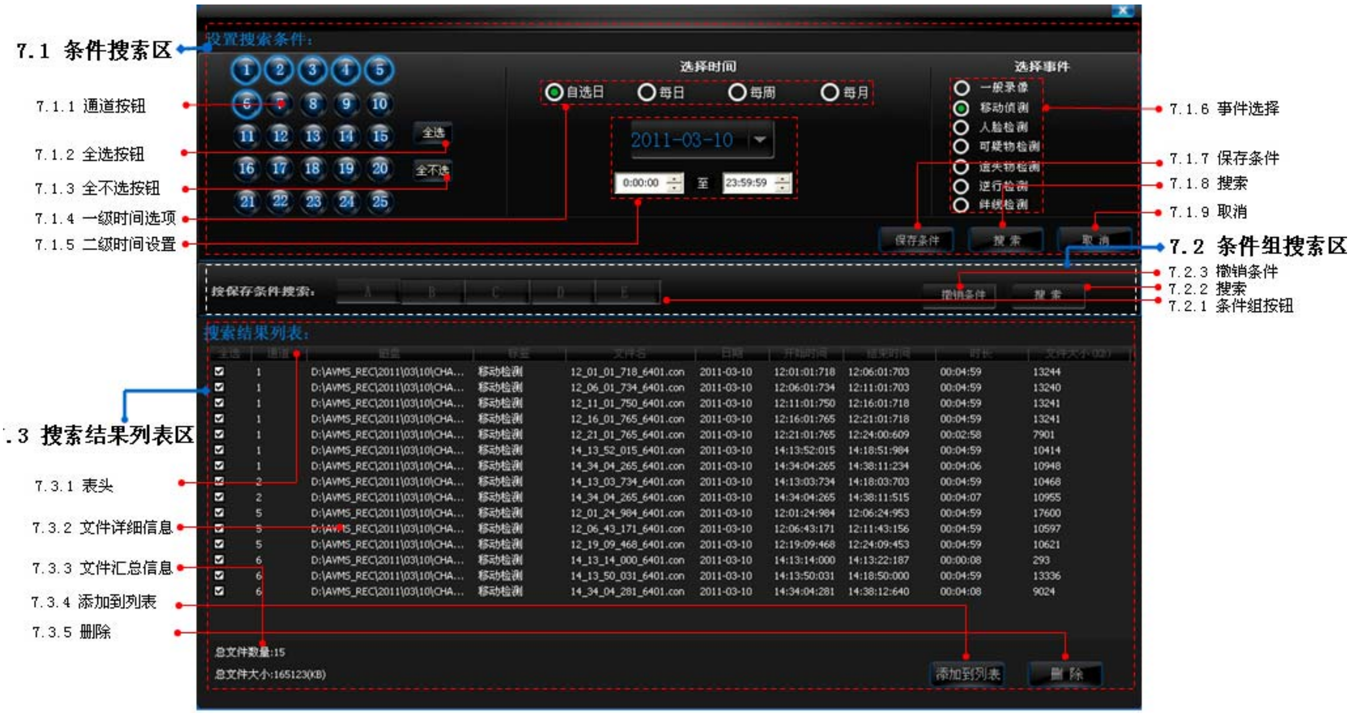

6.1 标题栏区
6.2 系统时间区
6.3 窗口布局区
6.4 通道选区
6.5 日期选框
6.6.5 详细搜索
6.6 功能按钮区
6.6.4 录像另存
6.7 播放列表区
6.7.1 文件列表下拉框
6.7.2 播放列表表头
6.7.3 文件信息
6.8 播放控制区
6.9 播放模式切换区
6.10 信息显示区
6.11 视频显示区
6.11.1 进度滑快
星期四
2011/03/31
13:38
全选
2011-03-10
00:10/04:59
00:10/04:59
00:09/04:08
00:09/15:00
00:07/00:08
上一页
1/3
下一页
1X
时间回放
文件回放

D:\AVMS_REC\2011\03\10\CHANNEL5\视频\12_06_43_171_6401.con

12:06:53

状态	通道	路径	标签	文件名	日期	开始时间	结束时间	时长	文件大小(KB)
播放中	通道5	D:\AVMS_REC\2011\03\10\CHANNEL5\视频	移动检测	12_06_43_171_6401.con	2011-03-10	12:06:43:171	12:11:43:156	00:04:59	10597
播放中	通道5	D:\AVMS_REC\2011\03\10\CHANNEL5\视频	移动检测	12_19_09_468_6401.con	2011-03-10	12:19:09:468	12:24:09:453	00:04:59	10621
播放中	通道5	D:\AVMS_REC\2011\03\10\CHANNEL5\视频	手动录像	14_34_04_265_0001.con	2011-03-10	14:34:04:265	14:38:12:328	00:04:08	6383
播放中	通道6	D:\AVMS_REC\2011\03\10\CHANNEL6\视频	手动录像	12_00_59_984_0001.con	2011-03-10	12:00:59:984	12:16:00:250	00:15:00	33574
播放中	通道6	D:\AVMS_REC\2011\03\10\CHANNEL6\视频	移动检测	14_13_14_000_6401.con	2011-03-10	14:13:14:000	[illegible]	00:00:08	[illegible]
未播放	通道6	D:\AVMS_REC\2011\03\10\CHANNEL6\视频	移动检测	14_13_50_031_6401.con	2011-03-10	14:13:50:031	14:18:50:000	00:04:59	13336
未播放	通道6	D:\AVMS_REC\2011\03\10\CHANNEL6\视频	移动检测	14_34_04_281_6401.con	2011-03-10	14:34:04:281	14:38:12:540	00:04:08	9024

2.3 Layout of Video files Search engine



选择时间: ● 自选日 ○ 每日 ○ 每周 ○ 每月

2011-03-10

0:00:00 至 23:59:59

选择事件:
○ 一般录像
● 移动侦测
○ 人脸检测
○ 可疑物检测
○ 遗失物检测
○ 逆行检测
○ 伴线检测

全选	通道	磁盘	标签	文件名	日期	开始时间	结束时间	时长	文件大小(KB)
☑	1	D:\AVMS_REC\2011\03\10\CHA...	移动检测	12_01_01_718_6401.con	2011-03-10	12:01:01:718	12:06:01:703	00:04:59	13244
☑	1	D:\AVMS_REC\2011\03\10\CHA...	移动检测	12_06_01_734_6401.con	2011-03-10	12:06:01:734	12:11:01:703	00:04:59	13240
☑	1	D:\AVMS_REC\2011\03\10\CHA...	移动检测	12_11_01_750_6401.con	2011-03-10	12:11:01:750	12:16:01:718	00:04:59	13241
☑	1	D:\AVMS_REC\2011\03\10\CHA...	移动检测	12_16_01_765_6401.con	2011-03-10	12:16:01:765	12:21:01:718	00:04:59	13241
☑	1	D:\AVMS_REC\2011\03\10\CHA...	移动检测	12_21_01_765_6401.con	2011-03-10	12:21:01:765	12:24:00:609	00:02:58	7901
☑	1	D:\AVMS_REC\2011\03\10\CHA...	移动检测	14_13_52_015_6401.con	2011-03-10	14:13:52:015	14:18:51:984	00:04:59	10414
☑	1	D:\AVMS_REC\2011\03\10\CHA...	移动检测	14_34_04_265_6401.con	2011-03-10	14:34:04:265	14:38:11:234	00:04:06	10948
☑	2	D:\AVMS_REC\2011\03\10\CHA...	移动检测	14_13_03_734_6401.con	2011-03-10	14:13:03:734	14:18:03:703	00:04:59	10468
☑	2	D:\AVMS_REC\2011\03\10\CHA...	移动检测	14_34_04_265_6401.con	2011-03-10	14:34:04:265	14:38:11:515	00:04:07	10955
☑	5	D:\AVMS_REC\2011\03\10\CHA...	移动检测	12_01_24_984_6401.con	2011-03-10	12:01:24:984	12:06:24:953	00:04:59	17600
☑	5	D:\AVMS_REC\2011\03\10\CHA...	移动检测	12_06_43_171_6401.con	2011-03-10	12:06:43:171	12:11:43:156	00:04:59	10597
☑	5	D:\AVMS_REC\2011\03\10\CHA...	移动检测	12_19_09_468_6401.con	2011-03-10	12:19:09:468	12:24:09:453	00:04:59	10621
☑	6	D:\AVMS_REC\2011\03\10\CHA...	移动检测	14_13_14_000_6401.con	2011-03-10	14:13:14:000	14:13:22:187	00:00:08	293
☑	6	D:\AVMS_REC\2011\03\10\CHA...	移动检测	14_13_50_031_6401.con	2011-03-10	14:13:50:031	14:18:50:000	00:04:59	13336
☑	6	D:\AVMS_REC\2011\03\10\CHA...	移动检测	14_34_04_281_6401.con	2011-03-10	14:34:04:281	14:38:12:640	00:04:08	9024

总文件数量:15
总文件大小:165123(KB)

Chapter 3 several important concepts of Powerful players

The player not only expands traditional video playback functions, is also with respect of the user's efficiency and ease of operation. Compared with other video playback softwares, there are many innovations and also put forward some new concepts.

Fully understand these important concepts, user would be able to use the software better and more flexible, and realize the power of Powerful Player. This chapter will give details of several important concepts.

This part is very important, please operate after read carefully to avoid confusion and false in the operation process.

3.1 Concept of TimePlay and FilePlay

TimePlay and FilePlay are two different playback modes. The former playback according to time clues (such as One day, a certain time, certain minutes of the video) ,usually user finds the video related events based on time; The latter playback in accordance with events or approximate time(such as it detects movement events, intrusion events, objects missing, etc.) Users often find the video according to conditions, and then determine the time of the incident.

There is a relationship between them: TimePlay is also a continuous video file, but can't see the document form. The video under FilePlay must have the appropriate time, but this period of time the user may not identify in advance, certain conditions need to be found in video file can determine.

[Other differences]:

(1) TimePlay mode, the timeline can only be listed one day, and only play the video in one day. FilePlay mode, the file is a list of video files, could be video files of different date.

(2) TimePlay mode, one window plays is a video under one camera. System distributes windows according to the order of opening channels. Different windows with different cameras; FilePlay mode, a window plays just a video file. System distributes windows according to the order of load file; Different windows may play video files with the same camera.

As time is the clearest, most explicit, and most fixed clues, so use the TimePlay more, and we also recommend the general users priority use TimePlay mode. FilePlay mode is more flexible, efficient, targeted, especially for video files that need to search and then playback. We recommend advanced user or user who has a clear demand use FilePlay mode. The "clear demand" refers to the specific conditions of the search video files, for example: Video at 3:00 pm to 5:00 pm Monday this month; channel 3 at AM9:00-PM12: 00, July 21, which occurred displacement event video, etc.

Having understanding the concept of TimePlay and FilePlay, user in the use of this player can choose more appropriate according to the playback mode, so it can greatly improve the efficiency and accuracy of video playback.

3.2 Synchronization and asynchronization of TimePlay

TimePlay mode can be divided into Synchronization Playback and Asynchronization Playback II, the relationship related to 3.1 is as the following:

Synchronization mode
TimePlay {
Independence mode

FilePlay

When running Powerful Player system, the default mode is Synchronization Playback. This is the simplest, most direct and clearest method.

Synchronization of TimePlay means: Uniform time for each channel whether there is video or not, share a simultaneous large pointer, without video is blank. Buttons (such as backward play, step forward and back, etc.) is uniform operation for all windows.

The biggest difference between surveillance video player and general player is: general player only need a window, such as Storm Audio-video Player, etc, but the image of surveillance video playback often recorded by more than one camera, user needs to multi-window playback. In practice, when find clues or analyze the event through video playback, it often appears the situation as the following;

1. The video of each channel may not be continuous or time of recording is not inconsistent, it may appear multi-windows blank during playback, which will be a waste of windows resources and reduce the playback efficiency.
2. Suspicious clues in different cameras occurred at different time, user needs to mobilize video at different time in each channel for comparison.
3. During Multi-window playback, user needs to operate a window separately, such as playback, step forward and back, etc., but can't affect other channels playback.
4. To reduce video playback time, improve efficiency, user often needs to skip parts of video in some channels.

This player takes into account of these advanced and practical applications so it proposes the concept of Asynchronization mode. Asynchronization of TimePlay means: individual player in the channel follows their time, has their own pointer, skips automatically without video, the user can drag the Independent pointer to locate precisely.

Understanding the concept of Synchronization and Asynchronization under TimePlay, the senior application of the player will be easier to use and control, so user can truly experience the advantage of this Powerful Player.

3.3 The concept the Channel and Window

We can understand it simply: Channel is camera which accesses monitoring system, a camera is a channel. Window is a position which displays video on each channel when system running

Camera is fixed when running the main program J-Surveillance, and must be real-time monitoring; the emphasis is authenticity, real-time. Window and Channel are homologous, the software interface numbers for window, for example, video of channel 1 accesses window 1, video of channel 2 accesses window 2. The purpose is to facilitate users to configure and use more intuitive.

While video playback system is different, generally, video playback with purpose, the emphasis is pertinence and efficiency. The software interface doesn't number for window; no need to correspond with the channel, the system will automatically assign the window in order.

The advantages are:

1. Full use of window resources effectively, playback more video as much as possible at the same time. For example, one channel for 24 hours of video files can play back in the 24 window simultaneously; user may only need to play back 1 hour. If the window corresponding to the channel, videos only play in a window, must spend 24 hours can playback completely. Playback of multi-window can improve 24 times efficiency.
2. Reduce pages of the window as much as possible to improve the playback quality and efficiency. For example, if you need playback video channel1, 8, 9, under 4 window layouts, they can all be displayed in a page, but if the window corresponding to the channel, they must be displayed with 3 pages, besides, each page will appear blank window, which is a waste of resources.
3. Important video can playback at different windows through adjusting the same channel for clues comparison to improve the playback quality. For the window corresponding to the channel, it can't meet a similar demand for playback

Correct understanding of the concept of Channel and Window; user can operate more flexible and efficient, instead of causing confusion. Because channel number and name of camera set by user can be displayed clearly on each channel.

3.4 The concept of Cut and Save

Cut and Save are two kinds of storage form according to different needs.

Cut has certain real-time and randomness, usually playback as well as store. Cut must be carried out during playing. Play include: play, backward play, speed up or down, step forward or back. When users find clues, then start from this screen cuts, also can control the end of time freely, thus save this part directly when stop cutping. The time of this part is often continuous (except a blank time period).

Save means: Cutting out different periods of video, then be overall packed to a video file. Usually, pack targeted after making sure periods of time. It may be inconsistent time, cutting out up to 3 periods of time. Besides, Save will not be limited by the play status

Files after cutping and save are saved as AVI format; users can playback with the Storm audio-video players and others.

Chapter 4 Quick Operation Guidance

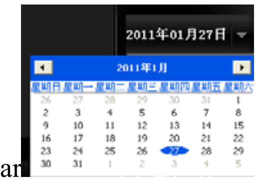
4.1 Start Powerful Player

There are two ways to start Powerful Player system

一、Click the playback button on the left of the monitoring main interface, and then start the Playback System.

二、Double click the shortcut icon on the left of Window, directly run the Playback System.

4.2 Select the video needing to playback



2011年01月27日

2011年1月

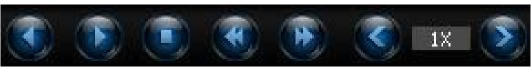
星期日	星期一	星期二	星期三	星期四	星期五	星期六
26	27	28	29	30	31	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	1	2	3	4	5

Click the date box, pop-up calendar . After selecting date, the system will automatically select all the video channels. If user doesn't want to playback one channel, click the channel button to cancel.

4.3 Start playing video

Click the play button , the system begins to play the selected video.

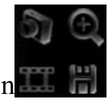
4.4 Control video playback

Click the Play&Control button group 

can unify controlling all playing channels.

From left to right are: backward play, play, stop, step backward, step forward, speed down, rate display frame, speed up.

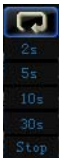
4.5 Other features operation

Select the video window, respectively click the function button , can capture image, zoom, cut, save on the selected channel.

4.6 Page

If the channel under playing can not display in a screen, click page button
Page Up
1/7
Page Down
to continue browsing.

4.7 The case of multi-page display, start or exit the loop browser

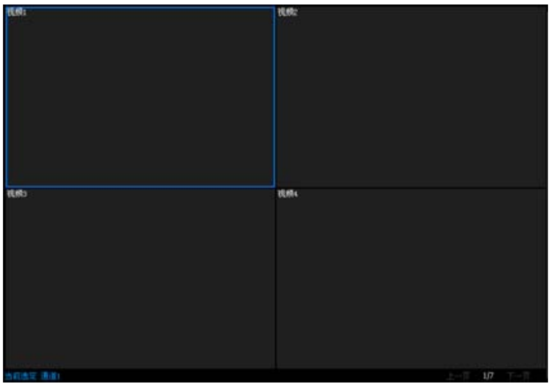
Click the Timing poll button 

on the window layout zone, and then set the Timing poll interval or stop .

4.8 Switch channel under selected playing

There are two ways to switch selected channel:

1. Click the window directly to switch, the selected window will prompt with blue frame.



通道01
通道02
通道03
通道04

2. Click channel list to switch, the window will response.

4.9 Search the needed video files

Step 1: switch to the FilePlay

Step 2: Click the search button

Step 3: After setting search condition, click Search

Step 4: Click the files on the search results list, add to the playlist Add to

Step 5: Exit search box

4.10 Playing video starts from the file list

Step one: Select the file need to playback, holding down ctrl allows mult-selection.

Step two: Click the Play button

4.11 Exit Playback System

Click the exit button directly on the playback main interface, without inputting user name and password, then exit Powerful player program directly.

4.12 Look over the Powerful Player instruction.

Two ways to view the powerful player instruction:

(1) View player manual introduction.

(2) Click icon on the top right corner of the main interface when player running, then pop up instruction .

4.13 Other Help

(1) If you have problems in the course of operation, please refer to the relevant sections of Chapter 3, 5, 6.

(2) If novice does not carefully read the instruction about chapter 3, 5, 6 please do not click the Sync / Async button , or may cause confusion during operation

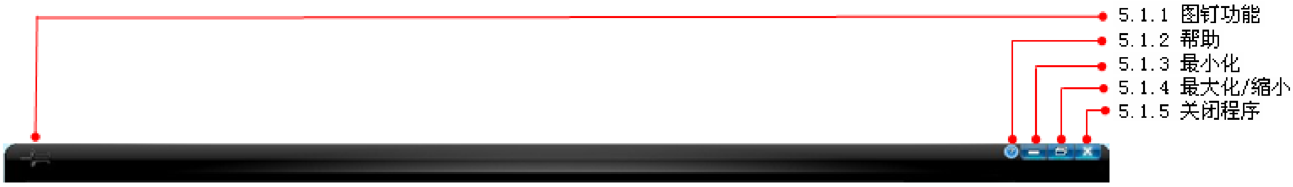
(3) Search button , only can be used under the FilePlay mode. We recommend the primary users read the instruction about FilePlay mode before using this function.

Chapter 5 Detailed guidance of TimePlay

Compare with the layout of 2.1, user can comprehensively understand the functional layout of TimePlay.

5.1 title bar zone

The main function is: can start a variety of modes on the program's main interface



5.1.1 Topmost feature allows the main interface of the player placed on the top under Windows. System default is the top status, namely the topmost is diagonal, click the topmost can cancel the top state, and then the topmost switches to flat state.

【Tip】: If the player works on the Windows desktop and affect you to use other programs, such as, can not pop up MSN dialog box, can not edit word documents or switch to other procedures ,etc, you can click flat pin to cancel the top status of this program.

【Tip】: If certain resolution of display is low or inappropriate (usually small laptop), resulting in narrowing of the window blocks task bar, user can click the flat pins to cancel the top status.

The purpose is: facilitate user switching to another program or keeping the program topmost according to the importance of the task while using the program to avoid other programs interference. Users can use this function according to own needs. We recommend user keep program topmost because of the seriousness and importance of monitoring system.

5.1.2 Help Click will pop-up manual documentation of the player, user can consult instruction at any time.

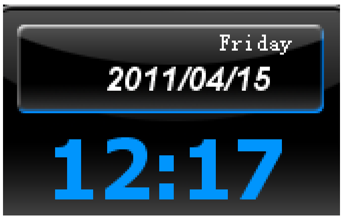
5.1.3 Minimize the program is minimized to the Windows task bar.

5.1.4 Maximize / zoom out main interface of the program can switch between maximizes and zoom out.

5.1.5 Exit the program

5.1.6 Double-click the central title bar, user can quickly **maximize / zoom out** of the program interface.

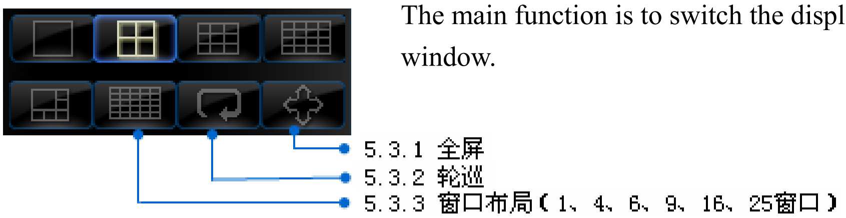
5.2 System Time Zone



The main function is: Display date, week and time of Windows system,.

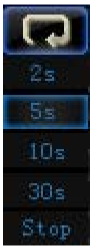
5.3 Window Layout Zone

The main function is to switch the display mode of the playback window.



5.3.1 Full-screen makes the current playing window enter full screen.

5.3.2 Timing poll multi-page scroll within the set time interval,



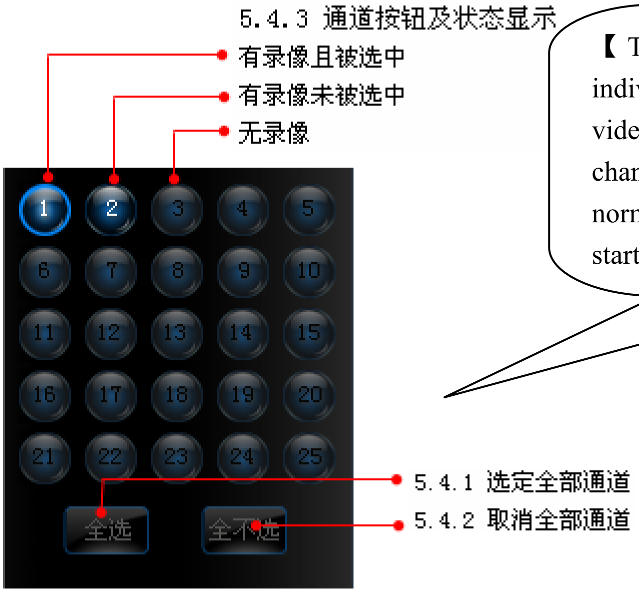
Click the Timing poll button, pop-up drop-down menu, user can set Timing poll intervals or stop.

Time interval can be set: 2 s, 5 s, 10s, 30s.

5.3.3 Window Layout click the switch window mode, can display window1,4,6,9,16,25

5.4-channel selection zone

The main function is: ① display the state whether there are videos or not on each channel under the selected date. ②start the channel user wants to play.

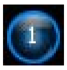

5.4.3 通道按钮及状态显示
有录像且被选中
有录像未被选中
无录像
1 2 3 4 5
6 7 8 9 10
11 12 13 14 15
16 17 18 19 20
21 22 23 24 25
全选
全不选
5.4.1 选定全部通道
5.4.2 取消全部通道

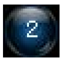
【Tip】 The player program notices that: individual channel can playback only when it has video which has started. If users find some channels showing video but can not play normally, please make sure whether the channel starts or not

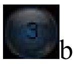
5.4.1 All selected all channels which have video, the channel doesn't have video can not be selected.

5.4.2 None cancel all selected channels or channels under playing. Cancel channel during playing means closing channel

5.4.3 Channel buttons and status display: give tips on individual channel whether there is video or not.

e.g.,  both channel number and button light up means having video and video is selected;

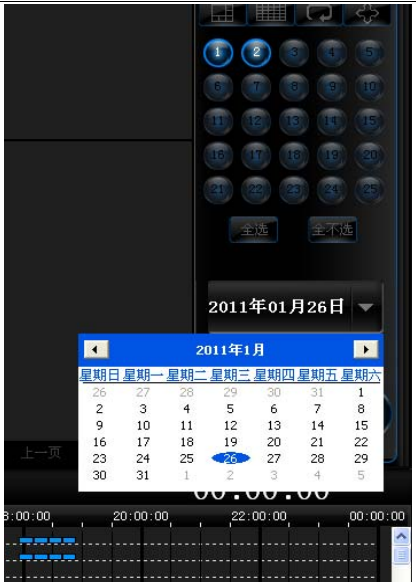
e.g., channel number lights up but button doesn't, means having video but isn't selected.

e.g., both channel number and button don't light up, means no video

5.5 Date choosing box

2011年01月26日

The main function is: Select the date, the system defaults "today".


全选
全不选
2011年01月26日
2011年1月
星期日 星期一 星期二 星期三 星期四 星期五 星期六
上一页
20:00:00
22:00:00
00:00:00

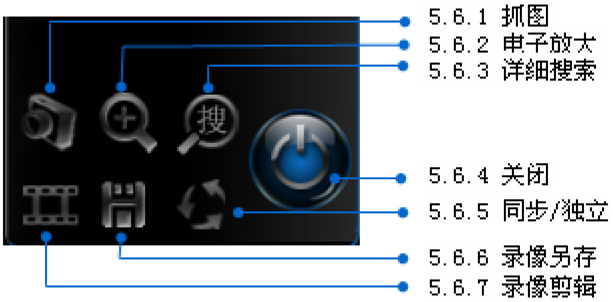
【Steps】
Step1: Click the date box, pop-up calendar;
Step2: Click to select date;
Step3: Click outside of the calendar.

【Tips】When selecting date, the channel selection zone and time coordinates zone will quickly refresh the state of recording storage : the channel having video under the date will light up and be selected waiting for playing; timeline will display the recording time of each channel .

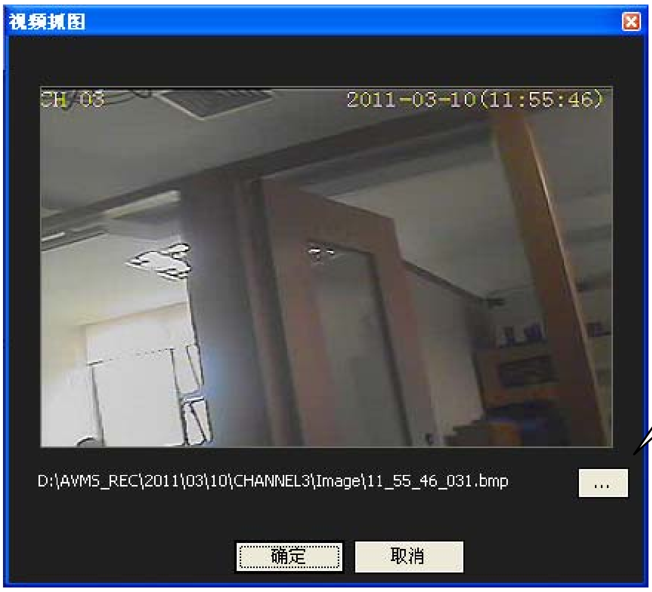
The purpose is to provide information as much as possible for user reference, allowing users playback the video conveniently.

5.6 Function button zone

The main function is : ①4 functions, including: image capture, zoom in, cut and save for the selected individual video; ②switch Sync / Async mode.


5.6.1 抓图
5.6.2 电子放大
5.6.3 详细搜索
5.6.4 关闭
5.6.5 同步/独立
5.6.6 录像另存
5.6.7 录像剪辑
搜

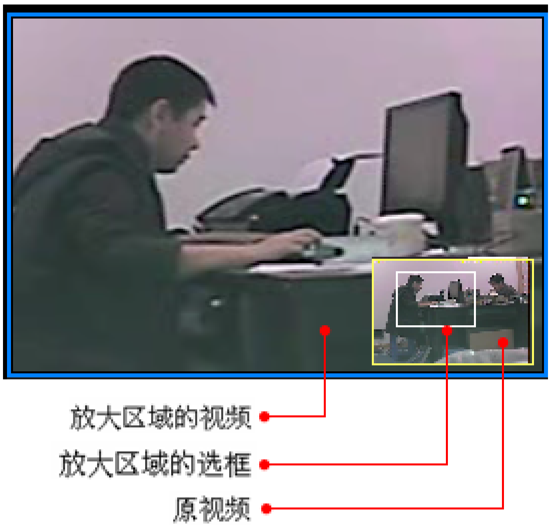
5.6.1 Capture image capture image on the current playback window. Capture image only for the channel under playing. Click the capture, then the program will display abbreviated image and pop-up box as follows:



D:\AVMS_REC\2011\03\10\CHANNEL3\Image\11_55_46_031.bmp

【Tips】 Click this button can change the path and file name.

5.6.2 Zoom in be a magnifier for the current window, can start multi-windows or zoom at the same time.



【Steps】

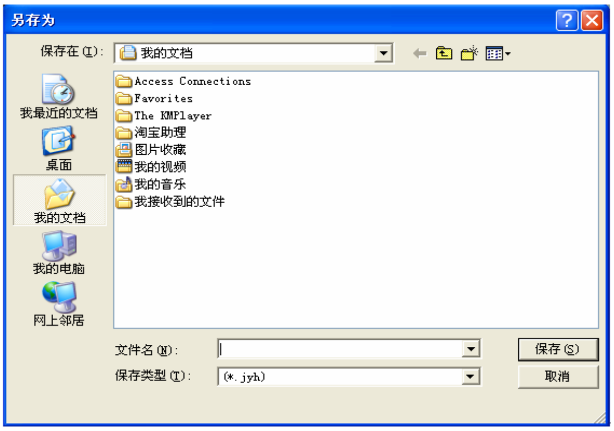
Step 1: Select a channel, click start to zoom in. The original videos will be reduced to the lower right corner of the window.

Step 2: Move the mouse to zoom in or click the left, adjust the video wants to zoom in

Step 3: Click the left continually to increase the multiple of magnification or right-click decreases multiple.

Step 4: Then click , exit .

5.6.3 Cut cut and save for the playing video, video after cutting is saved as AVI format, can play with Storm video-audio or others. Click , start to cut, means it is cutting. Control the cutting time by user, when needing to stop, and then click , the system will pop up a dialog box to save the video:


另存为
我最近的文档
桌面
我的文档
我的电脑
网上邻居
Access Connections
Favorites
The KMPlayer
淘宝助理
图片收藏
我的视频
我的音乐
我接收到的文件
文件名 (N):
保存 (S)
取消

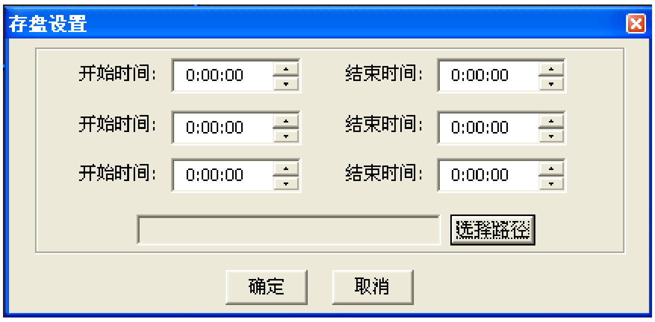
保存在 (I): 我的文档

保存类型 (T): (*.jyh)

5.6.4 Save videos at different time for individual channel are overall packed to save on the same file. The file is saved as AVI format, can play through Storm Video-audio player or others.

【Steps】select a channel and click , will pop up the box as follows , user can choose different time of the channel freely to pack and save, can choose 1-3periods.

:


存盘设置
选择路径
确定
取消

开始时间: 0:00:00 结束时间: 0:00:00

开始时间: 0:00:00 结束时间: 0:00:00

开始时间: 0:00:00 结束时间: 0:00:00

The purpose is to re-pack video with flexibility and efficiency, remove the unnecessary time to save the time of playing and disk space.

5.6.5 Sync / Async Switch Sync / Async mode. (See 3.2 and 5.7,5. 8 related content.)

This feature is only fit for TimePlay, the playback system will not stop the current playing task when switching, but switch directly for the current state without time interval. The purpose is to keep the consistency and continuity when playback.

5.6.6 Exit program.

5.7 Time coordinate zone

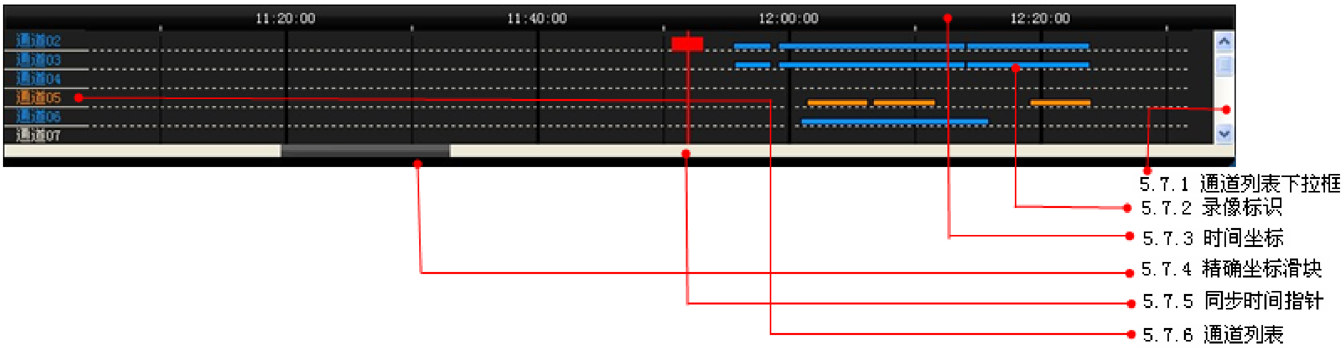
The main function:

①Display the time schedule for individual channel.

②Display status of video memory for individual channel l.

③Locate the time quickly to start playing.

TimePlay based on time, under TimePlay mode, the user can clearly understand the exact time about video playback, and also can quickly find the video based on the time. Sync and Async of TimePlay distinguish from this area. (The following picture shows the synchronization status).



5.7.1 Channels List drop-down box, please refer to the channels list 5.7.6. Each channel corresponds with the time coordinate, and also has own timeline. 25 Channels on the list means that the system supports up to 25 channels. Pull the channels list drop-down bar can display other channels to facilitate the user to view the video storage and play progress .

5.7.2 Video identify the blue ribbon indicates manual recording or timer recording; orange ribbon means alarm recording. The purpose is to further display the video storage for individual channel, also help user to find important video quickly.

【Tips】

Manual recording means: the emergency button is pressed under monitoring main program interface resulting in video.

Timer recording means: set the timer recording under monitoring main program, the video recorded after the implementation of the plan.

Alarm recording means: set alarm trigger recording (such as motion detection alarms) under the advanced features of monitoring main program, then record the video.

5.7.3 Time coordinate the system is the division of 24 hours. The largest unit of time is 1 hour, the minimum is 1 second.

5.7.4 Exact coordinates slider drag the slider to locate more accurate time, the time coordinate will be scaled to the appropriate accuracy.

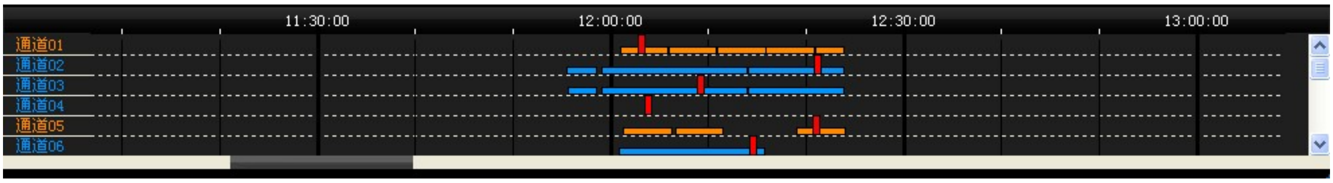
5.7.5 Synchronization Time Pointer means playing the exact time for each channel, this time is one and only and different from the asynchronization time pointer under Synchronization Playback mode. User can quickly drag the red pointer to the time you need to start playing, and the video can refresh quickly following the rapid movement of the pointer, it can drag both clockwise and counterclockwise; can drag before play , also can drag in play

5.7.6 Channel list shows in blue means having video, e. g. 通道02 通道03 通道04. Shows in white means no video, e. g. 通道07 Orange indicates that the channel is displayed as an alarm video, e. g. 通道05 Click on each channel, can switch the selected channel, and responds to the video display zone at the same time.

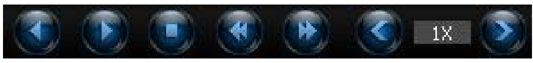
5.7.7 Asynchronization mode under TimePlay

means Synchronization Playback and the system default. is Asynchronization Playback, click can switch to each other.

The Asynchronization means: play timeline follows their own time for individual channel, has their own time pointer, user can control the play progress through dragging small asynchronization pointer individually. (The following picture shows the asynchronization status:)



Play time display box 15:42:50 shows the current playback time, can locate accuracy at the same time (see below 5.8.9 Play time display box). Play time for individual channel is usually inconsistent when Asynchronization plays.

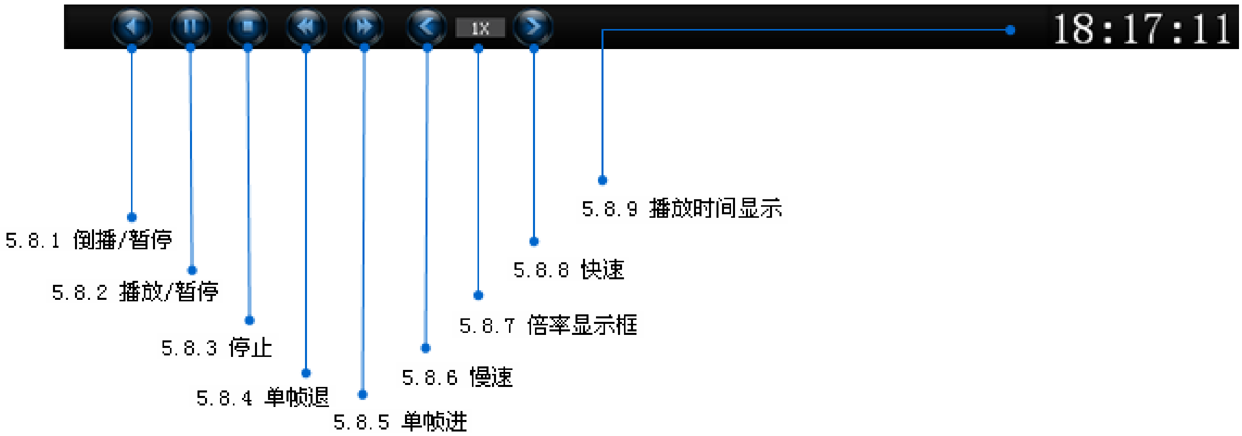
a series of playback control when Asynchronization play (see below 5.8 playback control zone), click each play control button 

, All channels

simultaneously in their respective time backward play, speed up, speed down, step forward and back, pause and so on.

5.8 Play control zone

The main function is to operate and control all the playing channels including: backward play, play, pause, stop, step forward, step backward, speed up, speed down and so on.



5.8.1 Backward play/ Pause the program supports backward play. Facilitate user to find video detail through changing way of video play, Click ◀, all the selected channels start to backward play from the current time, when the button changes ⏸, click again will suspend.

5.8.2 Play / Pause normal playback. Click ▶, all the selected channels start play from the current time, the button changes ⏸, click again will pause

5.8.3 Stop click ■, all channels will stop playing.

5.8.4 Step backward click ⏪, all the selected channels will be step backward, click once back one frame.

5.8.5 Step forward click ⏩ all the selected channels will be step forward, click once forward one frame.

5.8.6 Speed down lower speed under backward play or play. Continuously click ‹, slow down the playback speed respectively, 1 / 2 times, 1 / 4 times.

5.8.7 Rate display box prompts the current playback speed. 1X normal speed; 1/2X 1 / 2 times of the normal speed ; 1/4X 1 / 4 times of normal speed; 2X 2 times of the normal speed; 4X 4 times of the normal speed.

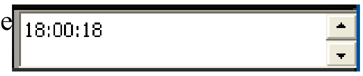
5.8.8 Speed up speed up under backward play or play. Continuously click », play will speed up respectively, 2 times or 4 times.

5.8.9 Play time display box display or precisely locate the video playback time. It shows that the current video time of all channels under Synchronization Play mode. Under Asynchronization Play mode, it displays the current video time of selected channel.

【Steps】:

1.Move the mouse to this region 18:00:18, the time display will turn red 18:00:18, indicating that it can be rewritten;

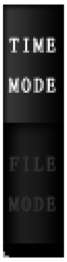
2. Click this area will turn into the rewritten state



18:00:18

3.Input the exact time, the video screen and pointer will refresh quickly to exact time and start play.

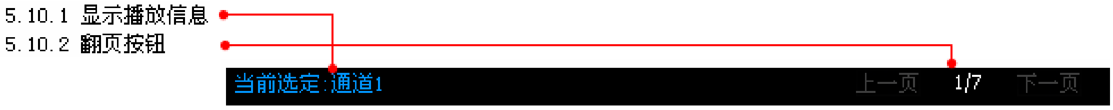
5.9 Play Mode switch zone



The main function is to switch Time mode and mode.
After switching, the system will automatically stop the current task; wait for play according to the new play mode

5.10 Information Display zone

The main function: ① display system information. ② manual page.

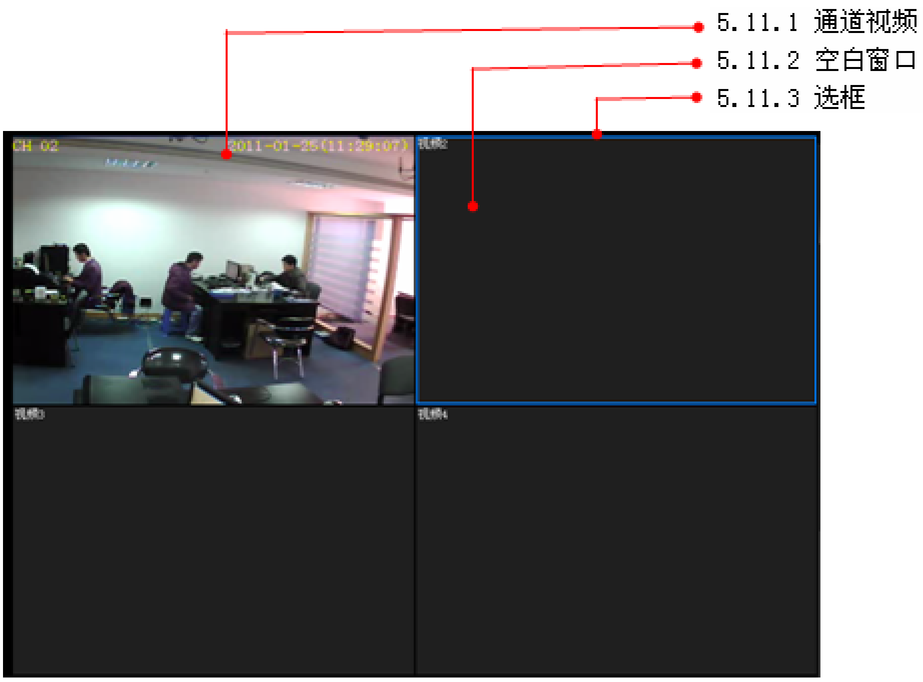


5.10.1 Display playback information shows the current system related information

5.10.2 Page button the system supports adaptive page browse. The adaptive means system will automatically detect after operation, based on the number of play channels and window layout to assign pages, to avoid the blank page. The system displays the total pages and the current page; the user can click the button Page Up、Page Down to turn the pages.

5.11 Video Display Zone

The main function: ①display play video. ②display the blue box of the current channel .



5.11.1 Channel video occupied window shows the video which is playing

5.11.2 Blank window means the system has not assigned the window.

5.11.3 Select frame means the current selected channel or window.

Chapter 6 Detailed guidance of FilePlay

Compare with the layout of Figure 2.1, user can fully understand the function layout about TimePlay main interface.

6.1 Title bar zone (see 5.1)

6.2 System time zone (see 5.2)

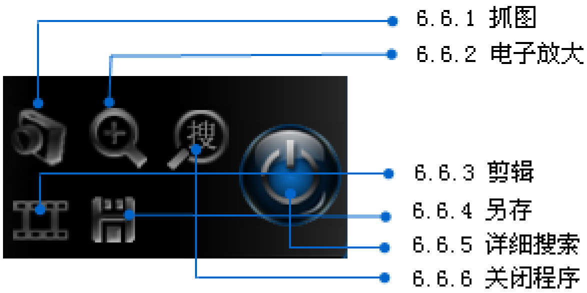
6.3 Window Layout zone (see 5.3)

6.4Channel selection zone (see 5.4)

6.5 Date choosing zone (see 5.5)

6.6 Function button zone

The main features of function button zone under FilePlay: ①4 kinds of operations for the selected window , including: capture image ,zoom in, cut, save; ② Start the search function.



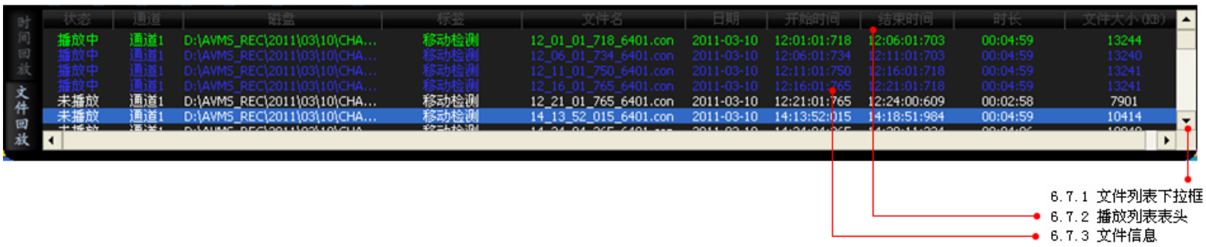
6.6.1 search this function only fit for FilePlay

6.6.2 Exit exit player program

6.6.3 save as the selected, single channel, video at different time are all packed to save on the same file, the file is saved as AVI format, can play with Storm video-audio and other media player.

6.7 Play List Zone

The main function is: display the playing file information and status.



状态	通道	磁盘	标签	文件名	日期	开始时间	结束时间	时长	文件大小(KB)
播放中	通道1	D:\AVMS_REC\2011\03\10\CHA...	移动检测	12_01_01_718_6401.con	2011-03-10	12:01:01:718	12:06:01:703	00:04:59	13244
播放中	通道1	D:\AVMS_REC\2011\03\10\CHA...	移动检测	12_06_01_734_6401.con	2011-03-10	12:06:01:734	12:11:01:703	00:04:59	13240
播放中	通道1	D:\AVMS_REC\2011\03\10\CHA...	移动检测	12_11_01_750_6401.con	2011-03-10	12:11:01:750	12:16:01:718	00:04:59	13241
播放中	通道1	D:\AVMS_REC\2011\03\10\CHA...	移动检测	12_16_01_765_6401.con	2011-03-10	12:16:01:765	12:21:01:718	00:04:59	13241
未播放	通道1	D:\AVMS_REC\2011\03\10\CHA...	移动检测	12_21_01_765_6401.con	2011-03-10	12:21:01:765	12:24:00:609	00:02:58	7901
未播放	通道1	D:\AVMS_REC\2011\03\10\CHA...	移动检测	14_13_52_015_6401.con	2011-03-10	14:13:52:015	14:18:51:984	00:04:59	10414

6.7.1File list drop-down box drag down the file list box, display more file.

6.7.2 Playlists header includes the files information, attributes and state. Click the header, and then sort the list.

6.7.3 File information detailed information of video files. System prompts different states of the file with different colors are:

White: the file does not play

Gray: the file has played

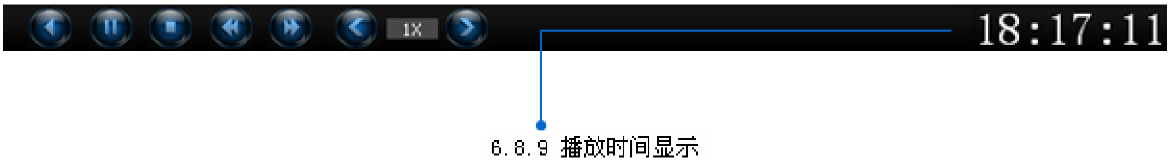
Blue: the file is playing

Green: document for the current window

The purpose is to make each file status clear, the window and list would response each other. The users click any player window can clearly know the current play file information.

6.8 Play&control zone

The main function is: operate and control for all channels under playing



Each button function on Play&control zone is the same as 5.8. Need to emphasize: the function button here also operates for all the windows under playing.

Play time display the time shows the current file's absolute time.

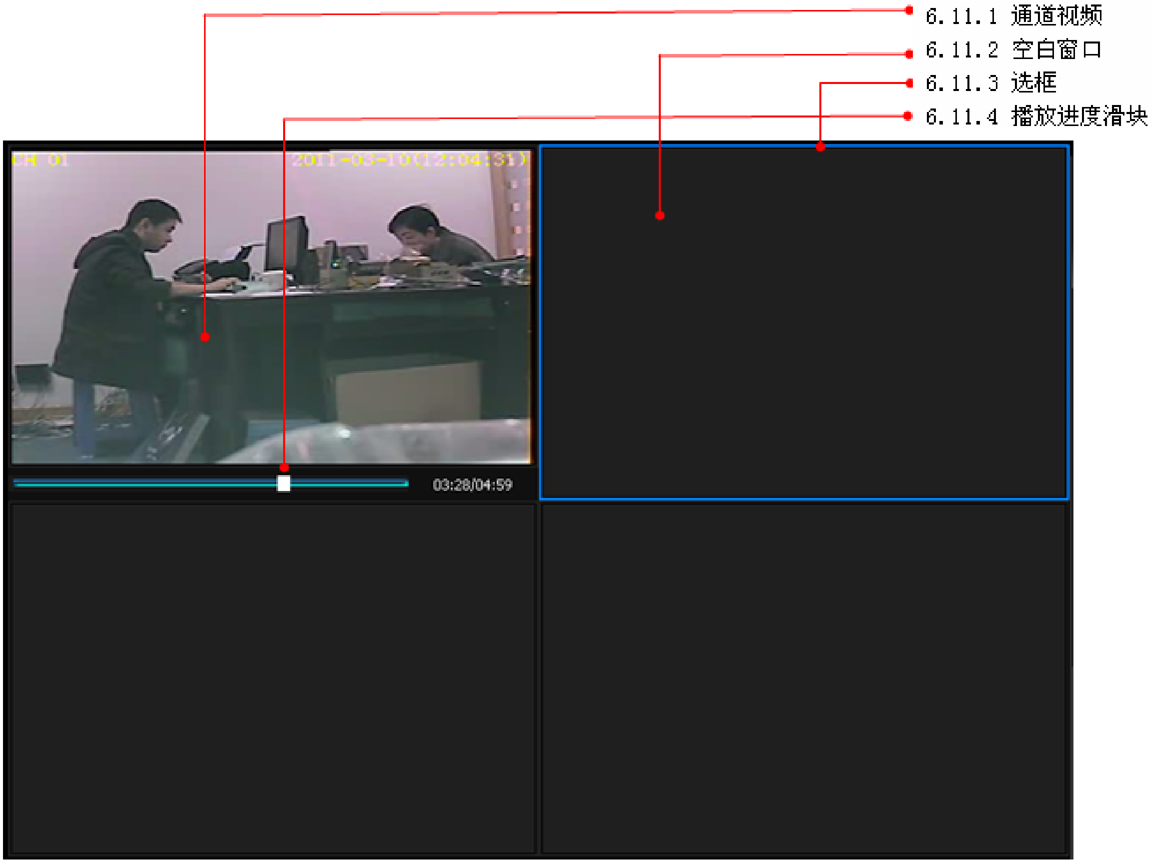
Absolute time means: real time of the current video files.

Relative time means: show the progress of video files with time. For example: 16:25 s/ 20:45 s, indicating that the file has 20 min and 45s, has played 16 min and 25s.

6.9 Play mode switch zone (see 5.9)

6.10 Information display zone (see 5.10)

6.11 Video display zone



6.11.1See 5.11.1

6.11.2See 5.11.2

6.11.3See 5.11.3

6.11.4 Playback progress slider displays the FilePlay progress, pulling the slider to view the video.

Chapter 7 Detailed guidance of search function

Compare to the layout of Figure 2.3, user can fully understand the function layout about File Search.

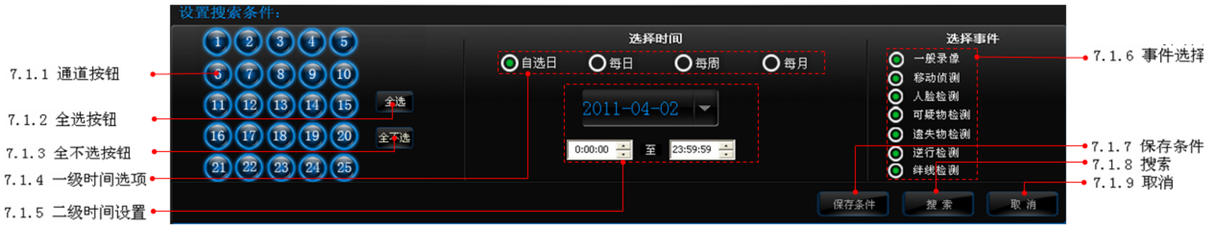
7.1 Conditions search zone

the main function:

① set specific selection criteria: channel, time and events. (These conditions are necessary, user can not search out the results if lacks of any one condition);

② save conditions;

③ search by setting conditions


设置搜索条件：
1 2 3 4 5
6 7 8 9 10
11 12 13 14 15
16 17 18 19 20
21 22 23 24 25
全选
全不选
选择时间
自选日
每日
每周
每月
2011-04-02
0:00:00
至
23:59:59
选择事件
一般录像
移动侦测
人脸检测
可疑物检测
遗失物检测
逆行检测
绊线检测
保存条件
搜 索
取 消
7.1.1 通道按钮
7.1.2 全选按钮
7.1.3 全不选按钮
7.1.4 一级时间选项
7.1.5 二级时间设置
7.1.6 事件选择
7.1.7 保存条件
7.1.8 搜索
7.1.9 取消

7.1.1 Channel button click to search the needed video channel. Users can click to select channel number, allows multi-select.

7.1.2 All select all channels

7.1.3None cancel all channels

7.1.4 First-class time option select first-class time setting condition. Different first-class time setting corresponding to the contents of the second-class is different.

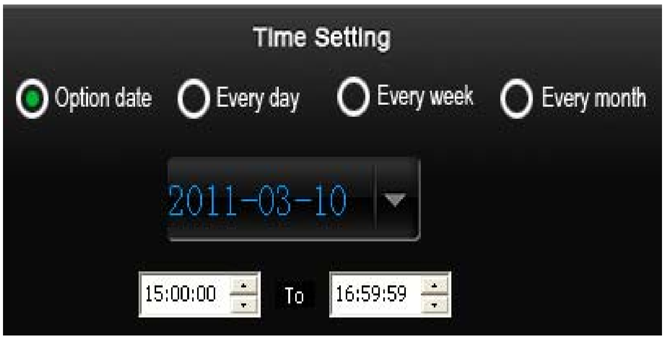
● Option date: Search for a video at a time in a day;

● Every day : Search for a video at a time every day; (only can search video within a month)

● Every week : Search for a video at a time every week ; (only can search video within a month)

● Every month :Search for a video at a time every month. (Only can search video within a month)

7.1.5 Second-class time setting Under different first-class time setting option, the contents of the second-class time setting is different:

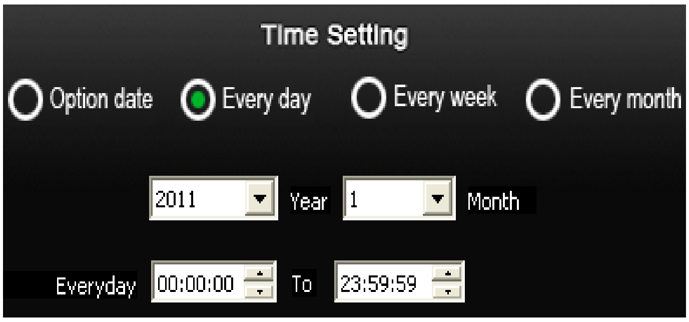

Time Setting
Option date
Every day
Every week
Every month
2011-03-10
15:00:00
To
16:59:59

Steps:

1. Click the date box, pop up the calendar, and then select a specific date.
2. Select the video time users want to search .

Other descriptions:

1. Date can not re-selected, the system defaults is "Today."
2. The system default time is 24 hours.



Time Setting

○ Option date ● Every day ○ Every week ○ Every month

2011 Year 1 Month

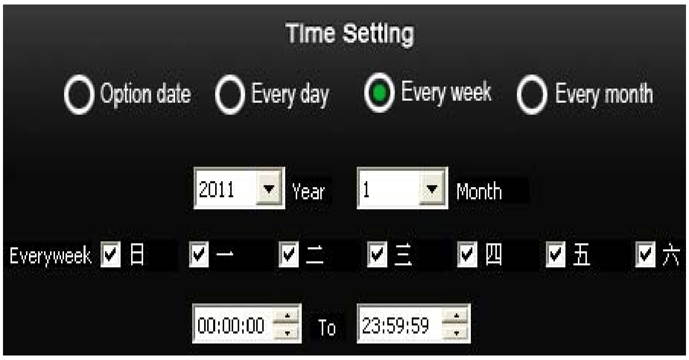
Everyday 00:00:00 To 23:59:59

Steps:

1. Select the month users want to search
2. Set time of everyday in the current month.

Other descriptions:

1. User can only search the video of everyday in a month because of large amount of data.
2. The system default time is 24 hours.



Time Setting

○ Option date ○ Every day ● Every week ○ Every month

2011 Year 1 Month

Everyweek ☑ 日 ☑ 一 ☑ 二 ☑ 三 ☑ 四 ☑ 五 ☑ 六

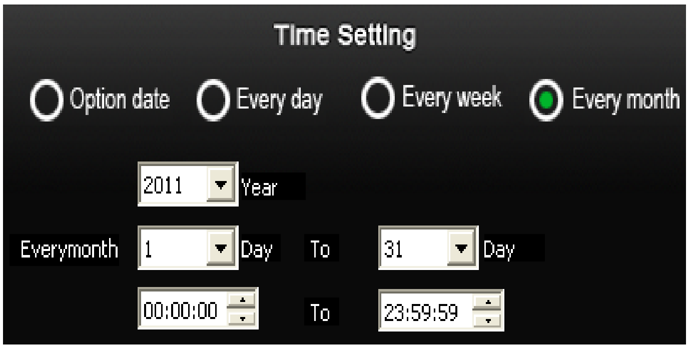
00:00:00 To 23:59:59

Steps:

1. Select the month users want to search.
2. Select the date range in current month.
3. Set a specific time period.

Other description:

1. can’t exceed 1 month according to week search because of large amount of data,
2. The system default time is 24 hours.



Time Setting

○ Option date ○ Every day ○ Every week ● Every month

2011 Year

Everymonth 1 Day To 31 Day

00:00:00 To 23:59:59

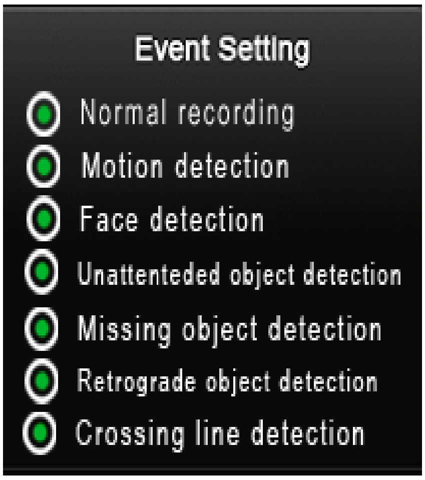
Steps:

1. Select the year users want to search.
2. Select the date range in current month.
3. Set a specific time period.

Other description:

1. can’t exceed 1 year according to month search because of large amount of data.
2. The system default time is 24 hours.

7.1.6 Event Options select according to the nature of event, is a necessary option, allow multi-select


Event Setting
○ Normal recording
○ Motion detection
○ Face detection
○ Unatteneded object detection
○ Missing object detection
○ Retrograde object detection
○ Crossing line detection

Normal recording: manual recording or timer recording.

Motion detection: video through motion detection function trigger.

Face detection: video through face detection trigger.

Unattended object detection: video through suspicious object detection trigger.

Missing object detection: video through missing object detection trigger.

Retrograde detection: video through retrograde detection trigger.

Crossing line detection: video through crossing line detection trigger.

Other description: premise of searching video, main program set trigger video alarm and system has detected such events.

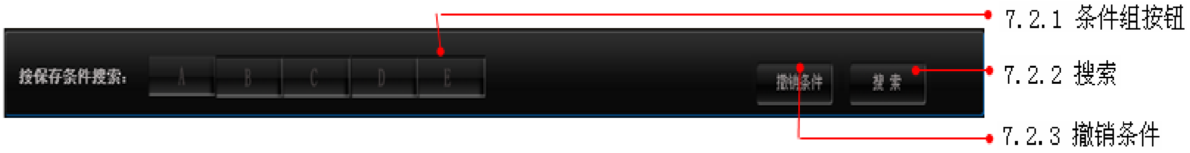
7.1.7 Save conditions, after setting the conditions, click Save as, and the system will save to condition groups ABCDE (see 7.2.1)

7.1.8 Search after setting the conditions, click Search, and the system will search

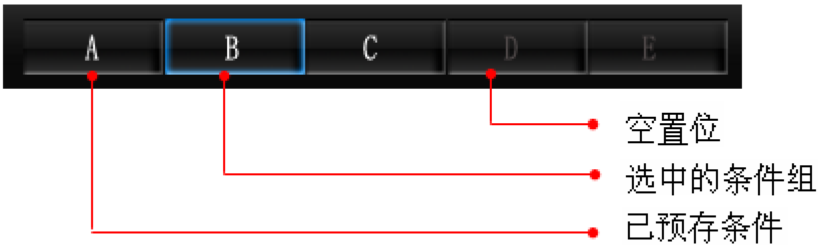
7.1.9 Cancel click Cancel, the conditions previously set is canceled. Users can re-set conditions.

7.2 Condition groups search zone

The main function: ①Search conditions directly based on pre-existing condition; ②Slight modification on the basis of pre-existing condition, and then to search . The premise of using this convenient feature is: the condition frequently used has been saved to the condition groups.


按保存条件搜索:
A
B
C
D
E
撤销条件
搜 索
7.2.1 条件组按钮
7.2.2 搜索
7.2.3 撤销条件

7.2.1 Condition groups this system saves up to 5 condition groups , uses ABCDE to indicate separately, the system occupies according to the order. Different graphics on the interface shows the status of the current condition groups as the following:



Vacant position: have no pre-existing condition group. It can’t be selected.

Group with pre-existing conditions: conditions group have been occupied.

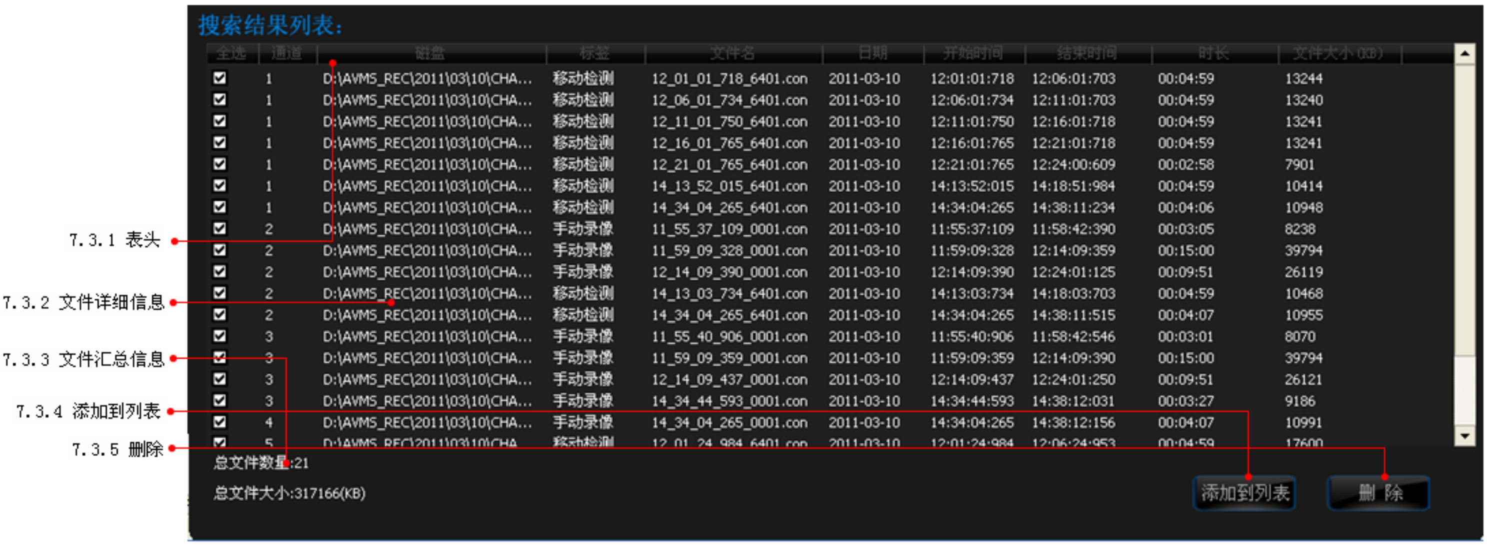
Selected condition groups: has selected a condition group. After selecting a conditions group, the system will refresh specific conditions in terms of current conditions group at conditions search zone. Users can search in order or search after changing conditions, or cancel pre-existing conditions.

7.2.2 Search search based on certain condition group.

7.2.3 Cancel empty a pre-existing conditions group.

7.3 Search results list zone

The main functions: ① display searched video files, ② add to the playlist.



搜索结果列表:

全选	通道	磁盘	标签	文件名	日期	开始时间	结束时间	时长	文件大小(KB)
☑	1	D:\AVMS_REC\2011\03\10\CHA...	移动检测	12_01_01_718_6401.con	2011-03-10	12:01:01:718	12:06:01:703	00:04:59	13244
☑	1	D:\AVMS_REC\2011\03\10\CHA...	移动检测	12_06_01_734_6401.con	2011-03-10	12:06:01:734	12:11:01:703	00:04:59	13240
☑	1	D:\AVMS_REC\2011\03\10\CHA...	移动检测	12_11_01_750_6401.con	2011-03-10	12:11:01:750	12:16:01:718	00:04:59	13241
☑	1	D:\AVMS_REC\2011\03\10\CHA...	移动检测	12_16_01_765_6401.con	2011-03-10	12:16:01:765	12:21:01:718	00:04:59	13241
☑	1	D:\AVMS_REC\2011\03\10\CHA...	移动检测	12_21_01_765_6401.con	2011-03-10	12:21:01:765	12:24:00:609	00:02:58	7901
☑	1	D:\AVMS_REC\2011\03\10\CHA...	移动检测	14_13_52_015_6401.con	2011-03-10	14:13:52:015	14:18:51:984	00:04:59	10414
☑	1	D:\AVMS_REC\2011\03\10\CHA...	移动检测	14_34_04_265_6401.con	2011-03-10	14:34:04:265	14:38:11:234	00:04:06	10948
☑	2	D:\AVMS_REC\2011\03\10\CHA...	手动录像	11_55_37_109_0001.con	2011-03-10	11:55:37:109	11:58:42:390	00:03:05	8238
☑	2	D:\AVMS_REC\2011\03\10\CHA...	手动录像	11_59_09_328_0001.con	2011-03-10	11:59:09:328	12:14:09:359	00:15:00	39794
☑	2	D:\AVMS_REC\2011\03\10\CHA...	手动录像	12_14_09_390_0001.con	2011-03-10	12:14:09:390	12:24:01:125	00:09:51	26119
☑	2	D:\AVMS_REC\2011\03\10\CHA...	移动检测	14_13_03_734_6401.con	2011-03-10	14:13:03:734	14:18:03:703	00:04:59	10468
☑	2	D:\AVMS_REC\2011\03\10\CHA...	移动检测	14_34_04_265_6401.con	2011-03-10	14:34:04:265	14:38:11:515	00:04:07	10955
☑	3	D:\AVMS_REC\2011\03\10\CHA...	手动录像	11_55_40_906_0001.con	2011-03-10	11:55:40:906	11:58:42:546	00:03:01	8070
☑	3	D:\AVMS_REC\2011\03\10\CHA...	手动录像	11_59_09_359_0001.con	2011-03-10	11:59:09:359	12:14:09:390	00:15:00	39794
☑	3	D:\AVMS_REC\2011\03\10\CHA...	手动录像	12_14_09_437_0001.con	2011-03-10	12:14:09:437	12:24:01:250	00:09:51	26121
☑	3	D:\AVMS_REC\2011\03\10\CHA...	手动录像	14_34_44_593_0001.con	2011-03-10	14:34:44:593	14:38:12:031	00:03:27	9186
☑	4	D:\AVMS_REC\2011\03\10\CHA...	手动录像	14_34_04_265_0001.con	2011-03-10	14:34:04:265	14:38:12:156	00:04:07	10991
☑	5	D:\AVMS_REC\2011\03\10\CHA...	移动检测	12_01_24_984_6401.con	2011-03-10	12:01:24:984	12:06:24:953	00:04:59	17600

总文件数量:21

总文件大小:317166(KB)

7.3.1 Header files information section. Click the header column to sort in order.

7.3.2 File details display more information about video files.

7.3.3Total files provide total documents and size for user reference.

7.3.4 Add to after selecting files in the results list, then click Add to, the system will add all the video files to playlist on the main interface under FilePlay mode.

7.3.5 Delete delete the selected files from search results list instead of hard disk.

Appendix

A. Related Documents

Appendix 1. TW2864 chip Target Applications

※ Embedded DVR

※ Video Server

※ DVR PCI Card

Appendix 2. TW2864 chip Features

※ Improved adaptive 4H comb filters for all NTSC/PAL standards

※ Supports ITU-R BT.656 format or time multiplexed output with 54MHz or 108MHz

※ Provides simultaneous 4-channel Full D1 or CIF time-multiplexed outputs

※ PCM 8/16-bit and u-Law/A-Law 8-bit for audio word length

※ Programmable audio sample rates: 8, 16, 32, 44.1 and 48kHz

Appendix 3. TW2864 chip Audio Codec

※ Integrated four audio ADCs and one audio DAC

※ Provides multi-channel audio mixed analog output

※ Supports a standard I2S interface for record output and playback input

Appendix 4. TW2864 chip Video Decoder

※ Accepts all NTSC(M/N/4.43) /PAL(B/D/G/H/I/K/L/M/N/60) standards with auto detection

※ Integrated four video analog anti-alias filters and 10 bit CMOS ADCs

※ IF compensation filter for improvement of color demodulation

※ Color Transient Improvement (CTI)

※ Automatic white peak control

※ Programmable hue, saturation, contrast,brightness and sharpness

※ Proprietary fast video locking system for non-realtime application

※ Field lock mode

B. Terms and Abbreviations

Abbreviation	Description
CIF	Common Intermediate Format

C. Safety Caution

In the process of use or repair any equipment by SYSTECH need to pay attention to the following safe guard. Terminal equipment shall inform the security of user information below. Otherwise, SYSTECH technology will not bear any because the user did not press these warnings and consequences.

Contact us:

SYSTECH
Address: 702, Block A, Tsinghua Hi-Tech Park, Nanshan, Shenzhen, China
Tel: 400-993-9390
Fax: 86-755-2603 0411
Post code: 518057
www.sysembed.com