# DSS Client User's Manual

Version 3.11

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## Welcome

Thank you for using our Digital Surveillance System (DSS)!
This user's manual is designed to be a reference tool for operation of your system.
Here you can find detailed operation information about DSS.

# 1 Overview

## 1.1 Intro to the Product

DSS Client is software for user to manage DSS and it has the following functions:

- Multi-device, multi-channel real time monitoring and record playback
- E-map function allows user to position the device at any time.
- Bidirectional talk allows client to communicate with front-end device and broadcast.
- Easy management over wall display with synchronous display.
- Customize monitoring plan and supports multi-channel/window video tour.
- Alarm activation with alarm video
- Mouse simulating rocker to control PTZ
- Easy search of video with mark function
- Local snapshot
- Behavior analysis, face recognition, smart track and people count.

DSS Client currently has four formats:

- C/S format client, refer to Ch 2 to 6.
- B/S format client, refer to Ch 7.
- Android Client
- iOS Client

## 1.2 Requirement for Hardware

To install DSS, your PC shall match the following requirements. See Chart 1- 1.

| Parameter | Requirement |
|---|---|
| OS | Microsoft Windows XP SP3, Microsoft Windows 7 |
| CPU | Core 2 dual-core 3.0 |
| Hard Disk | At least 10GB free space |
| Video Card | directX9.0c and higher |
| Memory | At least 2GB |
| Monitor | 1024×768 and higher |
| Explorer | IE7, IE8 |

Chart 1- 1

# 2 Install and Uninstall

## 2.1 Install

Please follow these steps to install DSS Client:

Step 1. Download and install the Client

a) In Internet Explorer, input the IP address of DSS. System displays login interface of DSS Manager as in Figure 2- 1.

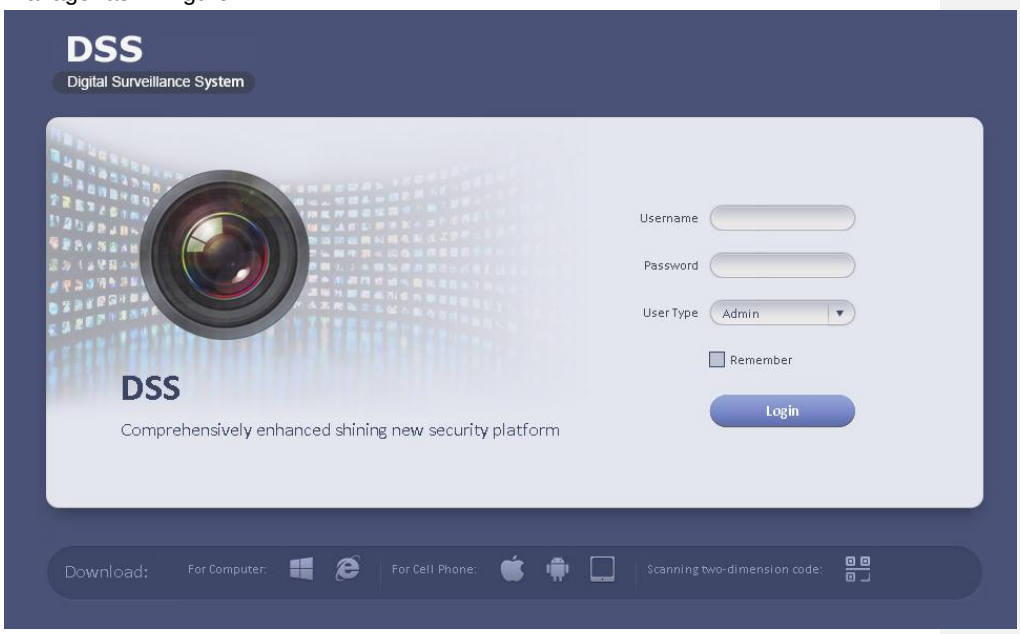



Figure 2- 1

- Click to download DSS C/S client.
- Click to download B/S client DSS0cx30 control.
- Click to download iphone client.
- Click to download Android client.
- Click to download iPad client.
- Click to scan two-dimension code and download client.

b) Click Download Client-end. System pops up a box.

c) Click Save.

Step 2. Extract the client, and double click icon. System pops up a language selection box. System pops up a welcome box as in Figure 2- 2.

Figure 2- 2

Step 3. Click Next. System pops up an END-USER LICENSE AGREEMENT as in Figure 2- 3.

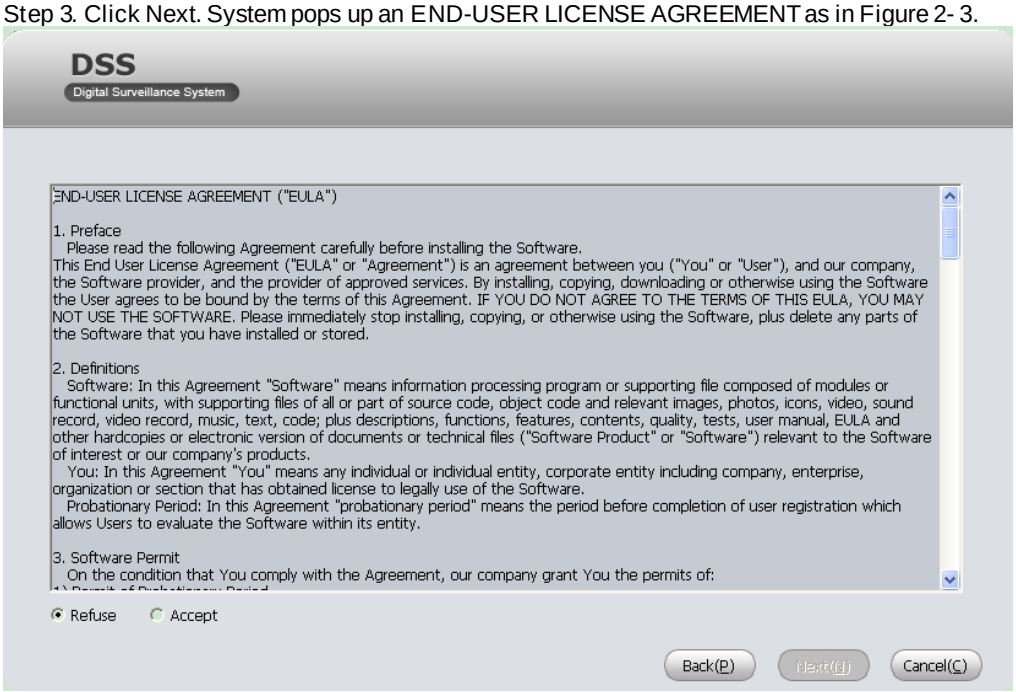



Figure 2- 3

Step 4. Select Accept and click Next. System pops up Destination Folder box as in Figure 2- 4.

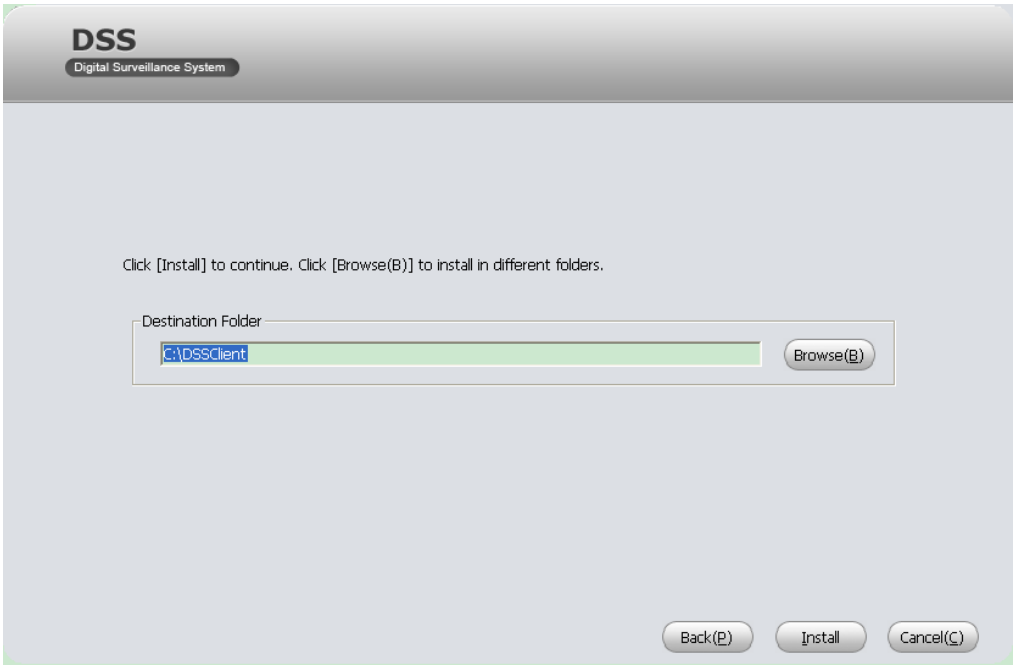



Figure 2- 4

Step 5. Select path to install Client. And click Install. System displays progress of installation as in Figure 2- 5. When installation is complete, system will say installation is successful.

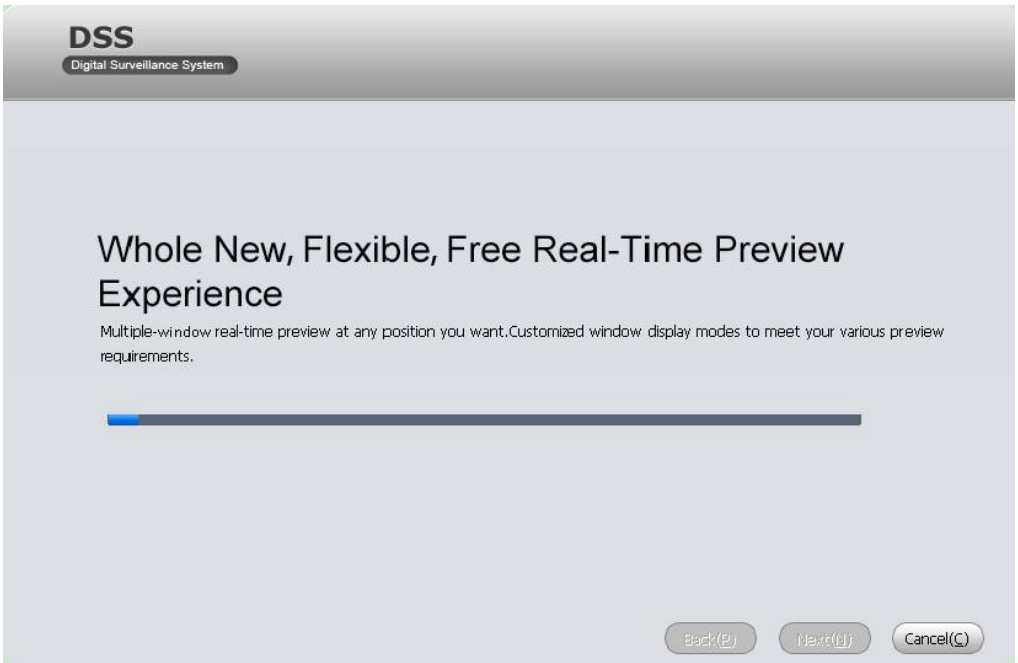



Figure 2- 5

Step 6. Click Finish.

## 2.2 Uninstall

You can follow these steps to uninstall DSS Client.

Step 1. Select Start>Programs>DSSClient>Uninstall DSSClient. System pops up a box as in Figure 2- 6.

Figure 2- 6

Step 2. Click Uninstall. System displays progress of uninstallation and system will say that DSS uninstallation is successful.

Step 3. Click OK.

# 3 Login C/S Client

## 3.1 Login Client

**Note:**

**Before you login DSS Client, you must add user in General>Account, and also you must add rights of preview, playback, record download, PTZ and etc. to role of this user. Please refer to *DSS Manager User's Manual*.**

You can login DSS Client following these steps:

Step 1. Select Start>Programs>DSSClient>DSSClient. System pops up the login interface as in Figure 3- 1.

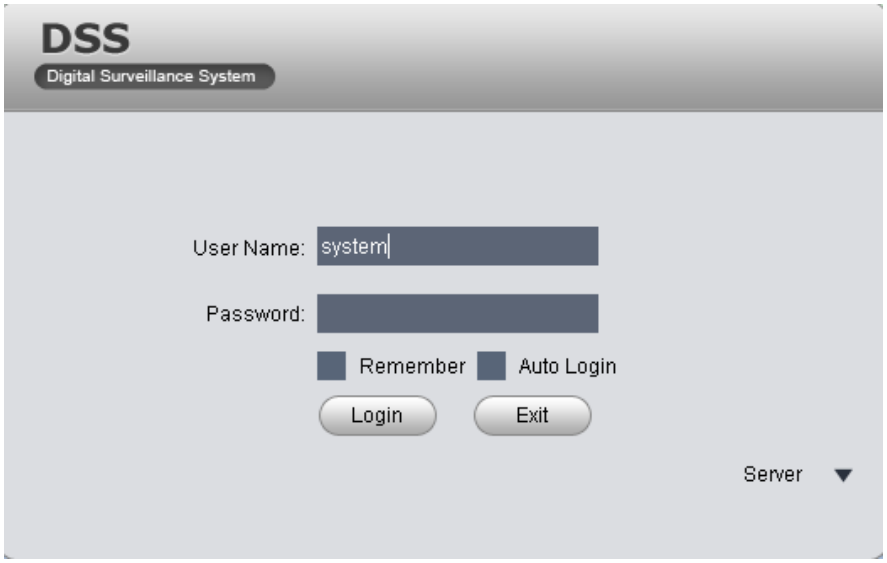



Figure 3- 1

Step 2. Input Username and Password.

Step 3. Click Server, and input Server IP and Port. Server IP shall be the IP address of DSS. Default port is 9000.

Step 4. Click Login. System pops up homepage as in Figure 3- 2.

Figure 3- 2

- Click Log Off on the right of interface to switch user.
- Click Password to modify login password.
- Click in the upper-right corner to lock account. To unlock, you need to input login password in box pops up.

# 4 Setup

## 4.1 Local Config

After you first login Client, you can Window Split, Connection Type, Bit Stream Type, Alarm Level Amount, Video Buffer Time, Snapshot Save Path, Max Record Path and Record Save Path and etc.

Step 1. Click

in Setup Manager area. System enters Local Setup interface. See Figure 4-1.

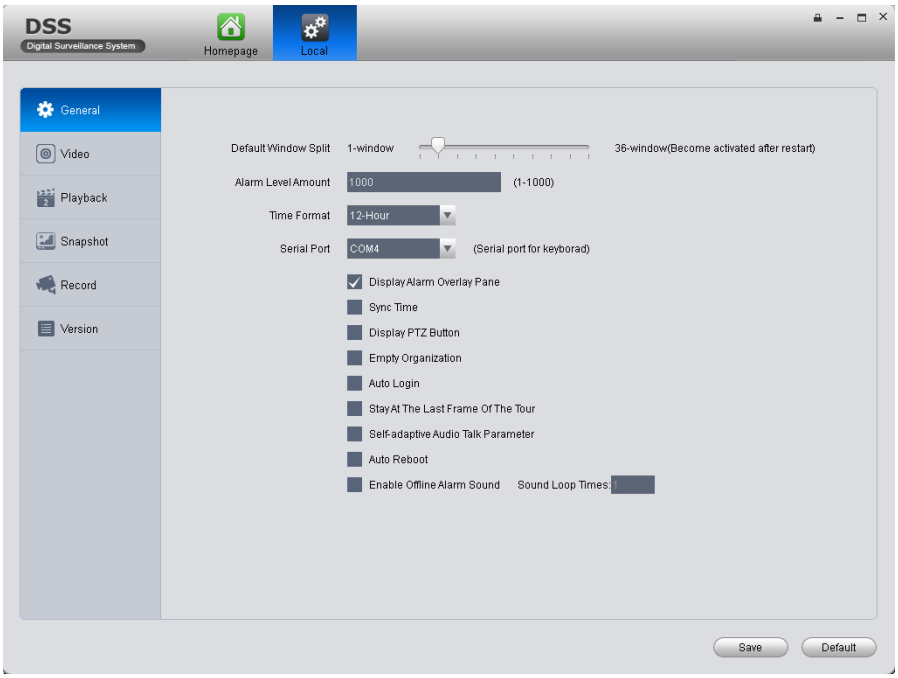



Figure 4- 1

| Parameter | | Note |
|---|---|---|
| General | Default Window Split | Set preview, playback and others' default display modes. |
| | Alarm Level Amount | Max alarms in Alarm Manager. Default is 1000 items. |
| | Time Format | Set "12 Hour" or "24 Hour" standard. |

| Parameter | | Note |
|---|---|---|
| | Enable Keyboard | Check to enable keyboard. |
| | Serial Port | Select port (COM 1~COM10)<br>For network keyboard use only. |
| | Display Alarm Overlay Pane | Display it or not 。<br>● : real time display CPU status<br>● : Real time display net status<br>● : Quickly enter Alarm Manager>Alarm List interface.<br>● : Quickly enter Alarm Manager>System Event interface.<br>● : Quickly enter Alarm Manager>Offline Notice interface.<br>● : Quickly enter alarm interface<br>● : Prompt alarm device |
| | Sync Time | Respond sync time or not:<br>● Check: sync server time by Client.<br>● Not check: Do not sync server time. |
| | Display PTZ Button | Check it to display 8 keys of PTZ in window. |
| General | Empty Organization | If you create more than one organization on Manager, and the organizations have no device. Select this parameter, so Client displays name of the organizations. |
| | Auto Login | If select this parameter, then you will automatically login the client when you open it. |
| | Stay at the Last Frame of the Tour | If you select this parameter, then image stops at the last frame during tour. |
| | Self-adaptive Audio Talk Parameter | During talk, system can auto match device sampling frequency, sampling bit, and audio format. |

| Parameter | | Note |
|---|---|---|
| | Auto Reboot | If you select this parameter, when PC boots up, the client boots up automatically. |
| | Enable Offline Alarm Sound | If you select this parameter, when you are offline, alarm sound is on. Default loop time is once. |
| Video | Connection Type | Request video mode. |
| | Bit Stream Type | Bit stream type used when you open video, you can select default bit stream, or self-adaptive stream for window size. |
| | Play Mode | Select play mode accordingly.<br>There are RT priority, fluency priority and balance first. Default video buffer time is 1500ms. |
| | Double Click on Real Time Window to Switch to Main Stream | Double click window to switch to main stream.<br>Note:<br>When window split is more than 9, double click a window to maximize window. Video stream will be switched to main stream. |
| | Display Error Info | When system has error or user encounters operation error, it shows a message box or not. |
| | Display Video Info | Display real time video bit rate and etc. in monitoring window or not. |
| Playback | Instant Playback Enable | Select this parameter to enable instant playback. |
| | RT Playback Time | Select real time playback time, default is 15s. |
| | Enable High Definition Adjustment | Check to prevent stuck high definition video. |

| Parameter | | Note |
|---|---|---|
| Snapshot | Save Snapshot Picture Directly | Select this parameter, then you will not see a snapshot box pops up. |
| | Format of Save Capture | Picture storage format, as BMP and JEPG. |
| | Continuous Amount | Set amount of continuous snapshot. Min is 2, and max is 10. |
| | Continuous Interval | Set continuous snapshot interval. |
| | Snapshot Save Path | When you snapshot at local, storage path is set here. |
| Record | Max Record Time | Max record time of local recording. |
| | Record Save Path | Record storage path of local recording. |
| Version | | View version info of the software. |

Step 2. Set General, Snapshot and Record/Download info.
Step 3. Click Save.
**Note:**
**Click Default will restore default settings.**

## 4.2 Alarm Scheme

You can refer to the following steps to set alarm scheme.

- Click

in Setup Manager area. System displays Alarm Scheme interface as in Figure 4- 2.

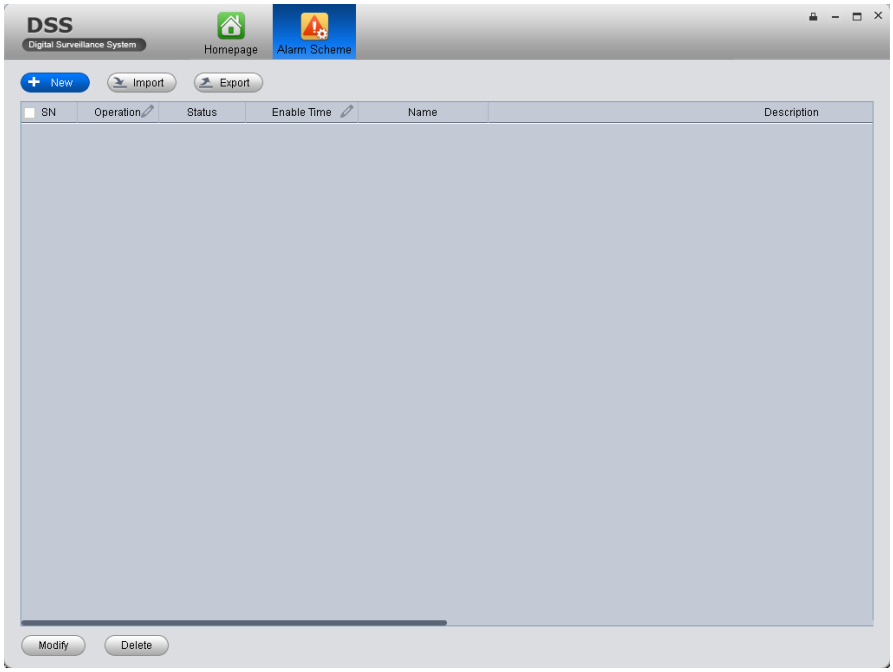



Figure 4- 2

- Set scheme info.

  a) Click . System displays scheme info setup interface.

  b) Input Scheme Name, Description, Time, Audio and Others as in Figure 4- 3.

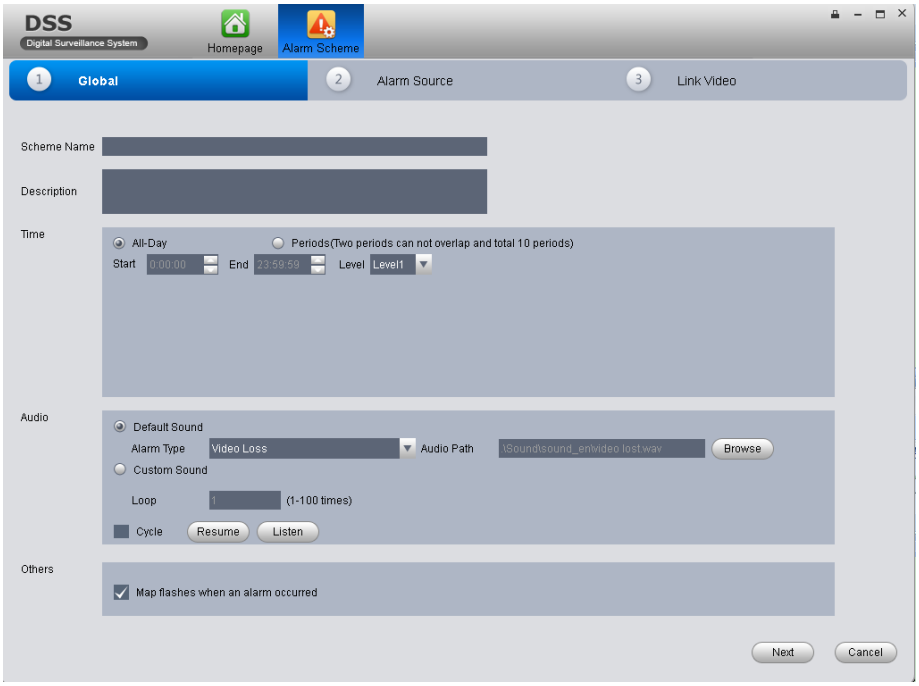


Figure 4- 3

| Parameter | Note |
|---|---|
| Scheme Name | Set name of alarm scheme. |
| Description | Optional. It is the description of scheme you are adding. |
| **Time** | Set period of arming, and select level. You can select:<br>● All-Day: All day is arming period.<br>● Periods: Certain periods in a day are arming period. You can add period via and delete period via .<br>**Note:**<br>**Remaining Time Level represents periods not covered by arming.** |
| Audio | Set audio of alarm. You can set:<br>● Alarm Type: Select alarm type to set sound.<br>● Audio Path: Select path of audio file by click Browse.<br>● Loop: By selecting this cycle, alarm sound will be looped.<br>● Listen: You can listen to the selected sound.<br>● Resume: System can restore default setting of non-customizable alarm type. |
| Others | If check Map flashed when an alarm occurred, then when alarm occurs, it will flash on E-map. |

- Set Alarm Source.

  a) Click
  
  or Next. System displays Alarm Source interface.

  b) Select channel on the left, and in Alarm Type area, select alarm type to be armed.

  c) Click . System will add alarm source to list on the right as in Figure 4- 4.

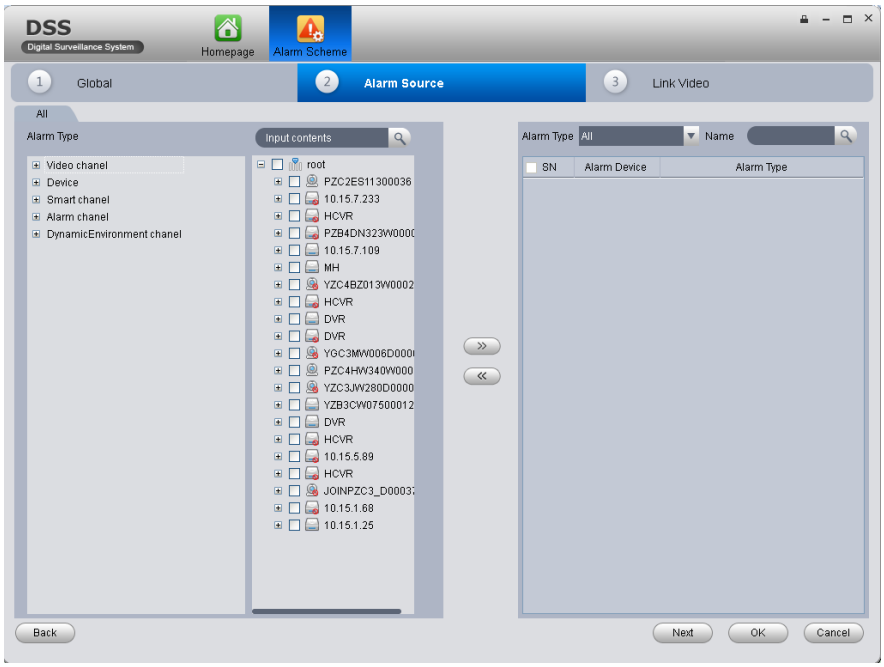



Figure 4- 4

Note:

- If you want to delete alarm source, you shall select alarm source on the right, and click « to remove.
- For alarm scheme, link video is not required, you can click OK to finish setup.
- Set Link Video

  a) Click 3 Link Video or Next. System displays Link Video interface.

  b) Select alarm source on the left.

  c) Select video channel under Link Video tab.

  d) Click » to add selected link video to area on the right as in Figure 4- 5.

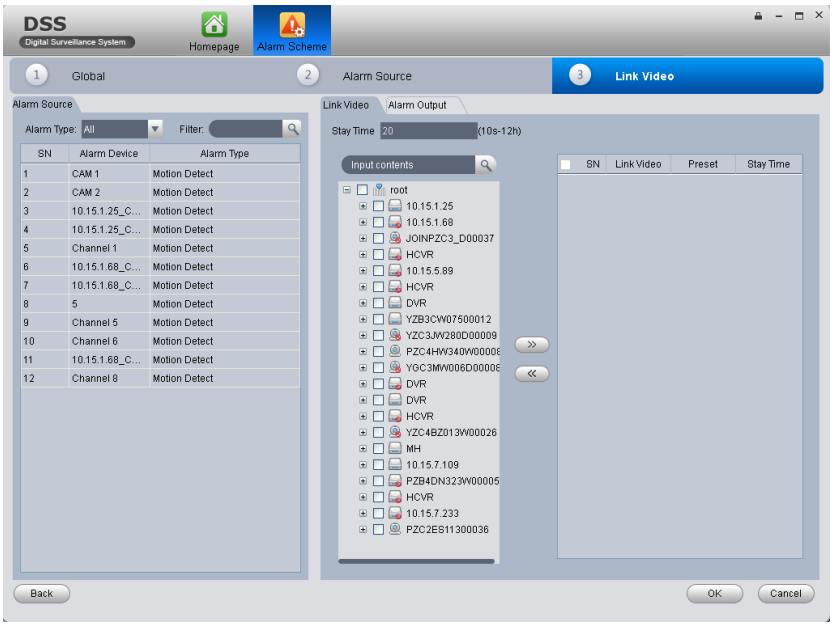



Figure 4- 5

Note:

- Double click Stay Time of added link video to edit its value.
- If you want to delete added link video, you can select it and click .

e) Select alarm output device under Alarm Output tab.

f) Select whether Auto Enable Output Device or not, input stay time. In device channel list, select channel and click to add alarm output.

You also can check Auto Enable Output Device and edit stay time for added output items.

g) Click OK. System displays added alarm scheme as in Figure 4- 6.

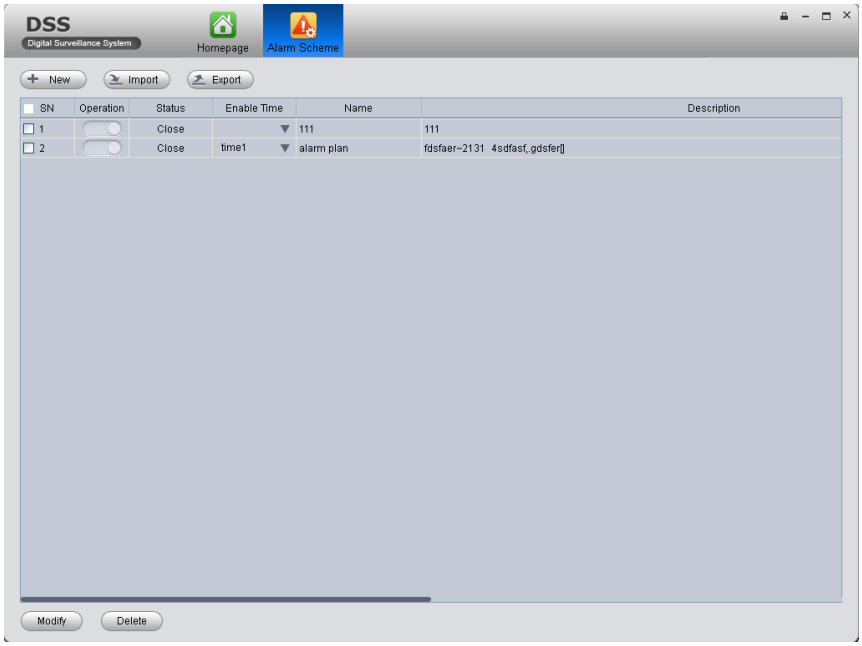



Figure 4- 6

- After you add alarm scheme, click operation bar, and close status turn to open. Click open can enable alarm scheme and click Enable Time to select time to enable.
- Click

to import old schemes. Click

to export scheme.
- Click Modify and Delete button in the lower left to edit or delete existing schemes.

## 4.3 Tour Task

### 4.3.1 Tour Task

You can set tour task to achieve tour over several windows. To set tour task:

Step 1. Click

in Setup Manager area. System displays Tour Task interface.

Step 2. Click

. System displays add task interface.

Step 3. Input Task Name, Description and select Window No.

Step 4. Drag designated device on the right to left window for setup as in Figure 4- 7.

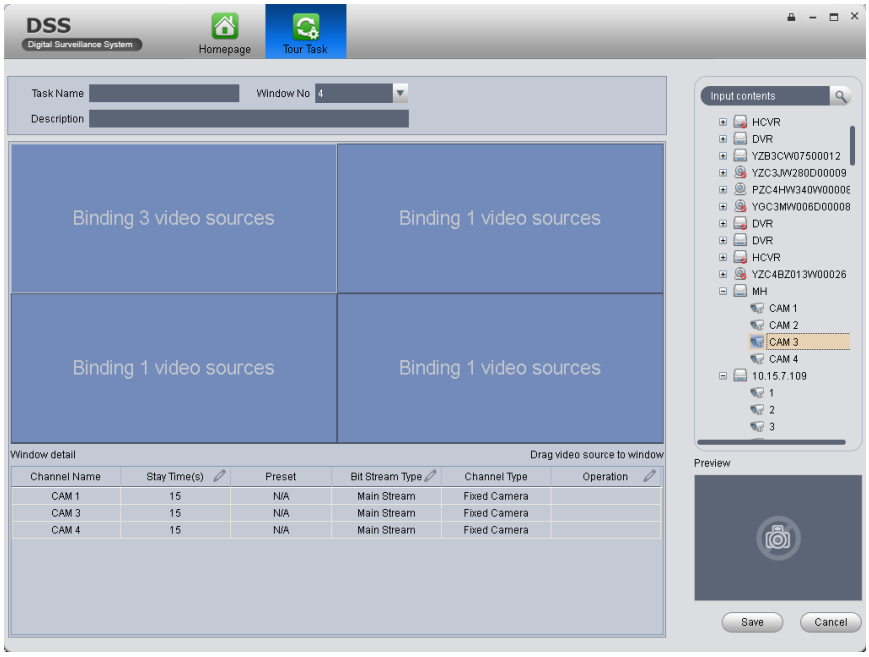



Figure 4- 7

- Click , so you can viewo video in Preview in the lower right to view it.
- Click , to adjust sequence, or click to delete added channel on the left.

Step 5. Click Save.

See Figure 4- 8.

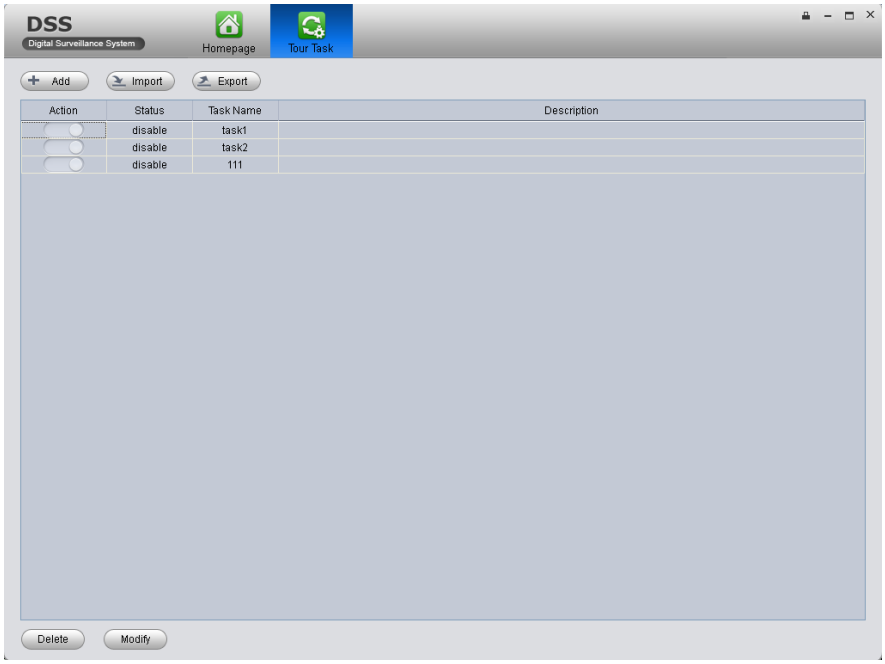



Figure 4- 8

You can click Import and Export in Tour Task interface to import/export added task. You also can edit and delete added task by clicking on

and

.

To enable tour task, there are two ways:

- In Tour Task interface, click to turn on tour task. You can now view monitoring status of tour channel in Preview interface.
- In Preview interface, select tour task in the lower left, and click start.

When tour task starts, you can view monitoring video of device channel in Preview interface.

### 4.3.2 Tour Plan

By configuring tour plan, you can achieve start time and end time of each tour plan.

Step 1. Click in Setup Status area, select Tour Plan tab.

Step 2. Click .

Select wither Schedule or Tour Plan.

Note:

: schedule, may specify time to execute plan.

: tour plan, may specify tour plan with interval period.

- Select schedule
  See Figure 4- 9.

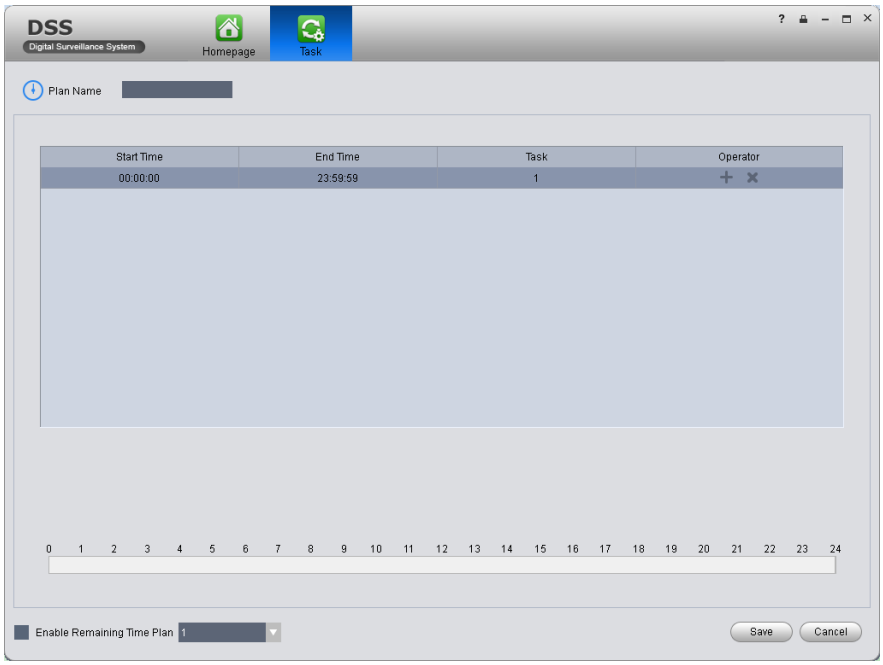



Figure 4- 9

1. Input plan name, select start time and end time.
2. Click to add tour plan.
3. Check Enable Remaining Time Plan, click Save.
   Note:
   Enable Temaining Time Plan: It means the plan to be executed at remaining time period other than absolute time period.

- Select tour plan

1. Configure corresponding parameter.
   See Figure 4- 10.

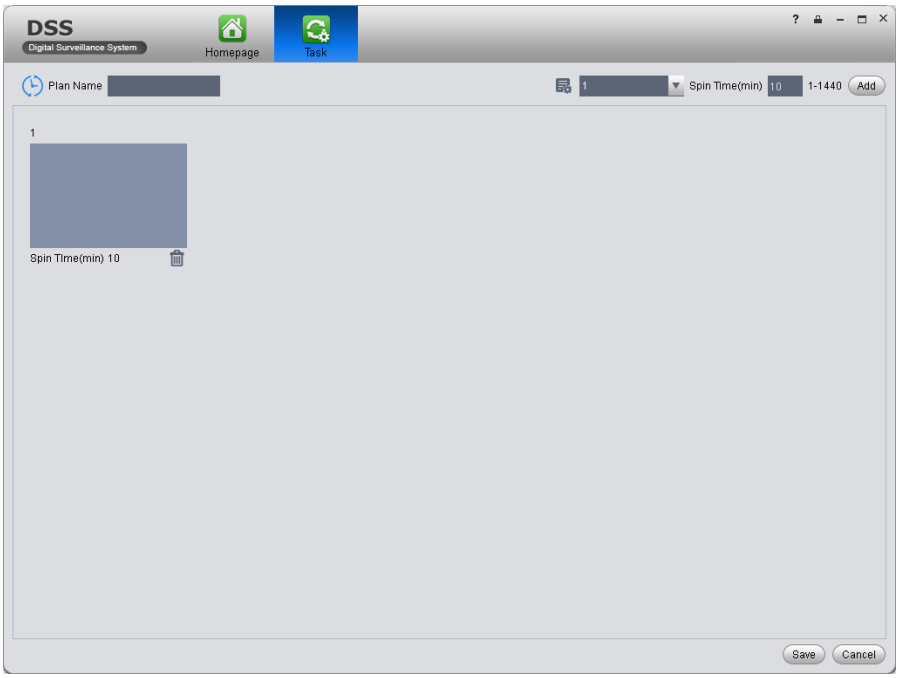



Figure 4- 10

2. Click Save.
   See Figure 4- 11.

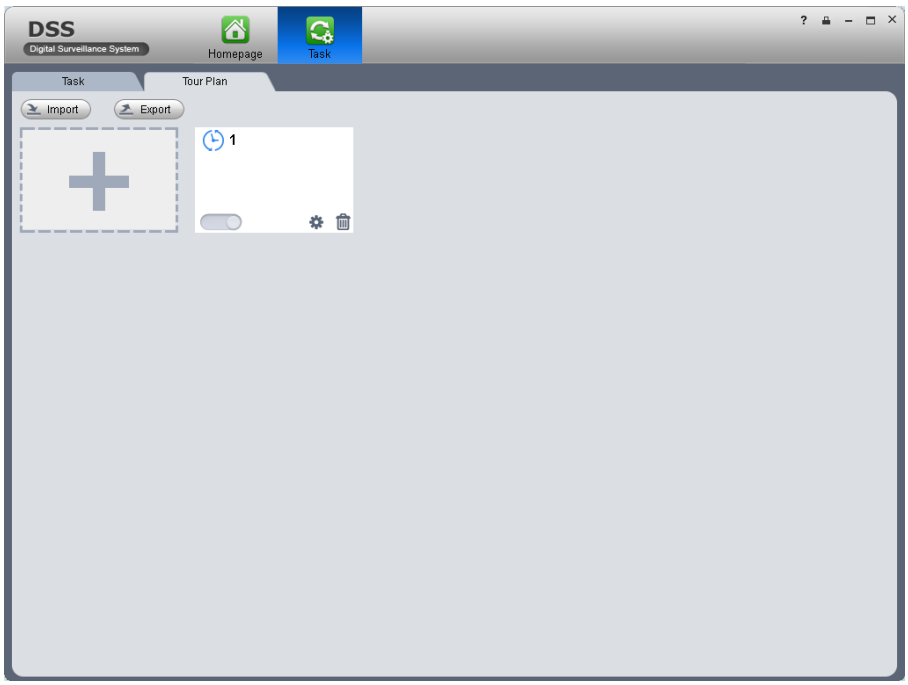



Figure 4- 11

Click Import to import existing plan. Click Export to export plan.

## 4.4 Arming

DSS supports arming suspicious vehicle with criteria of plate no., plate color and others.

Step 1. Select Business>Arming Setup>Arming Setup.

Step 2. Click Add. System pops up Add Armed Vehicle box, see Figure 4- 12.

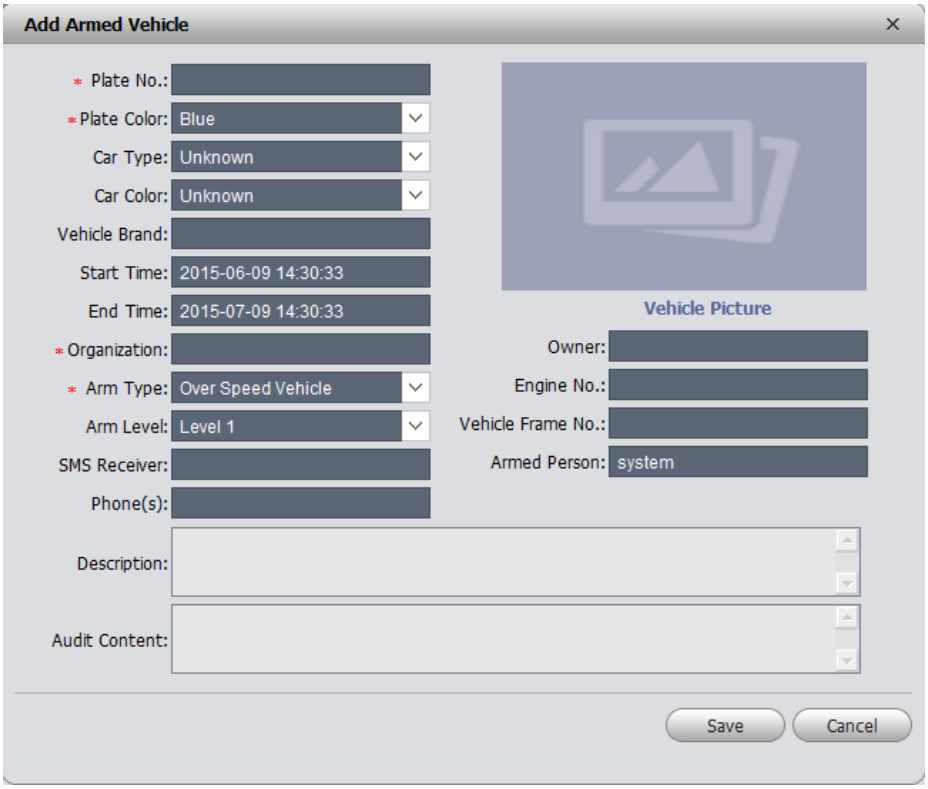



Figure 4- 12

| Parameter | Note |
|---|---|
| Plate No. | Input plate no. to be armed.<br>The system supports plate fuzzy arming and full-plate arming. For fuzzy arming, " * " is fuzzy match 0, one or more characters.<br>● For fuzzy arming, system supports max of 10,000 plates.<br>● For all-plate arming, system supports max of 90,000 plates. |
| Arm Level and Arm Type | Select arm level and arm type of arming vehicle. |
| Start Time and End Time | Select period to arm vehicle.<br>Within this period, arming info of vehicle is valid, otherwise, arming status of the vehicle will auto become expired. |

| Parameter | Note |
|---|---|
| Vehicle Picture | Upload vehicle picture. |

Step 3. Configure plate no., plate color, arm unit, arm type and etc.

Step 4. Click Save. See Figure 4- 13.

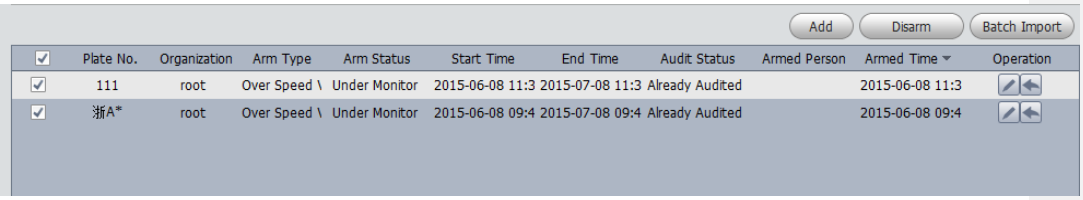



Figure 4- 13

| Parameter | Note |
|---|---|
| Search | According to filter, search arming vehicle info. |
| Disarm | Batch disarm vehicle.<br>Select one or more arming vehicle info, click Disarm, then its arm status will be disarmed, and the arm info is invalid.<br>You also can click , to disarm selected arming vehicle. |
| Delete | Batch delete arming info.<br>You also can click , to delete selected arming vehicle info. |
| Batch Import | Batch import existing arming vehicle info. |
| Export | Batch export selected arming vehicle info, and save as Excel file to local PC. |
| Export All | Batch export all arming vehicle info, and save as Excel file to local PC. |

## 4.5 Arming Scheme

After you have armed vehicle, you can real-time display alarm info by configuring arming scheme and link video and output alarm.

Step 1. Select Business>Alarm>Arm Scheme.

Step 2. Click Add.

Step 3. Set basic info, see Figure 4- 14.

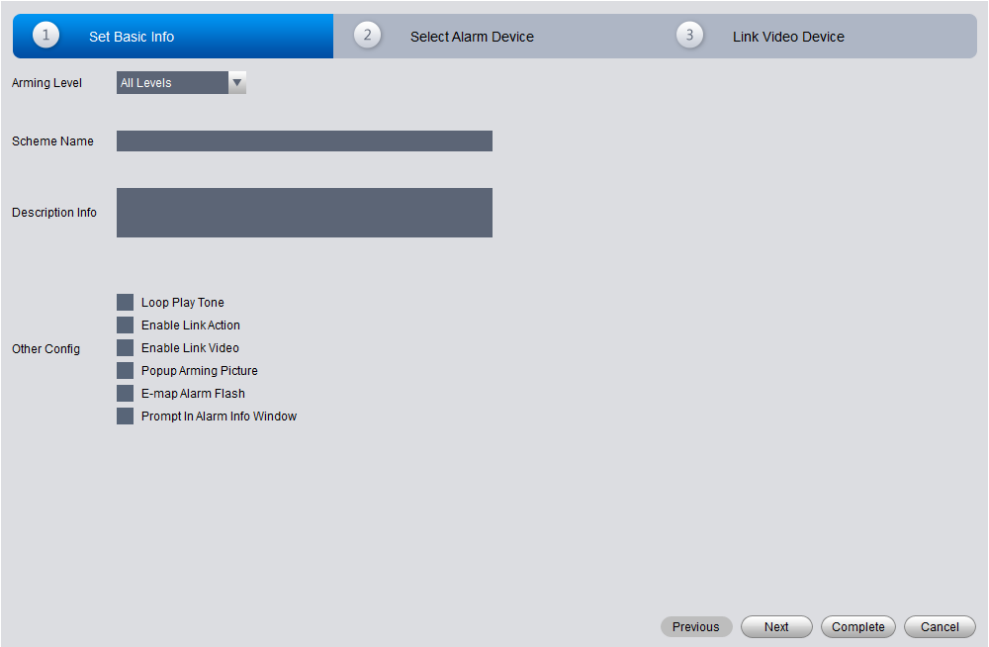



Figure 4- 14

1. Select arm level.
   Note:
   Arming level shall match setup in arming setup, otherwise, it will not generate alarm. If you select all levels, then it means to include arming levels in arming setup, it will generate alarm.
2. Input scheme name and description.
3. Configure other parameters.
   - Enable Link Action: When connect to external alarm, you need check Enable Link Action first, when alarm occurs it can trigger external alarm.
   - Enable Link Video: After you have configured link video, you need to check Enable Link Video so when alarm occurs, it will trigger link video.
   - Popup Arming Picture: Check this parameter, so when alarm occurs, system auto pops up picture.
   - E-map Alarm Flash: When alarm occurs, device with occurred alarm will flash on map.

   Note:
   You must add device onto map on DSS Manager-end Business>Map. When alarm occurs, device flashes on e-map of DSS.

   - Prompt in alarm info window: If you need to real-time display alarm info in Alarm>Monitoring Alarm, then check prompt in alarm info window, otherwise, it will not display alarm info in monitoring alarm.

Step 4. Click Next.
Step 5. Select alarm device.
1. Select device channel on the left.

2. Click Add. System will added the selected alarm source to the right, see Figure 4- 15.

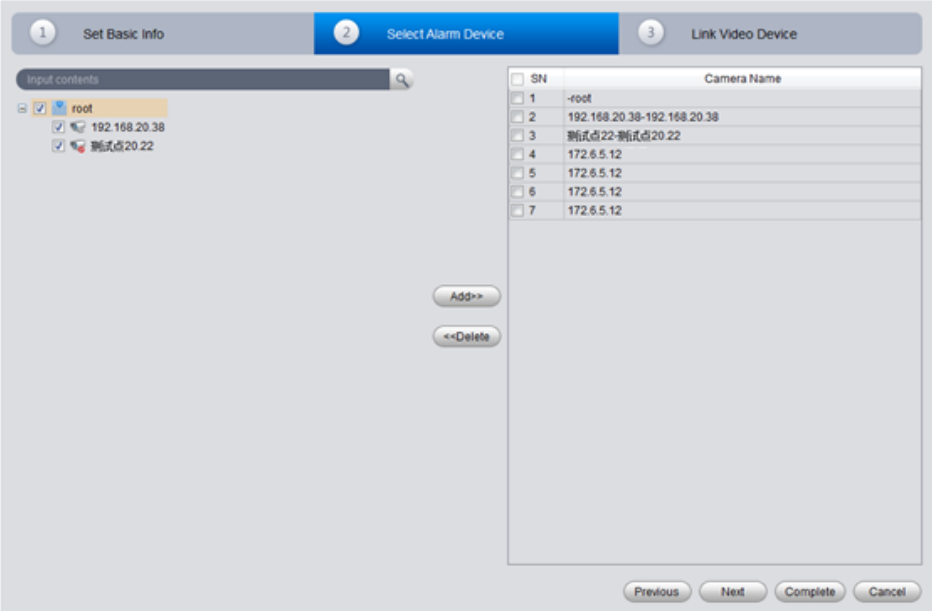



Figure 4- 15

Note:
If you want to delete alarm source, then check corresponding alarm source on the right, click Delete to delete alarm source.

Step 6. Click Next.

Step 7. Configure link video and alarm output.

1. Select alarm device in alarm source list on the left.
2. In link video, select video channel.
3. Click Add, add the selected link channel to the right, see Figure 4- 16.

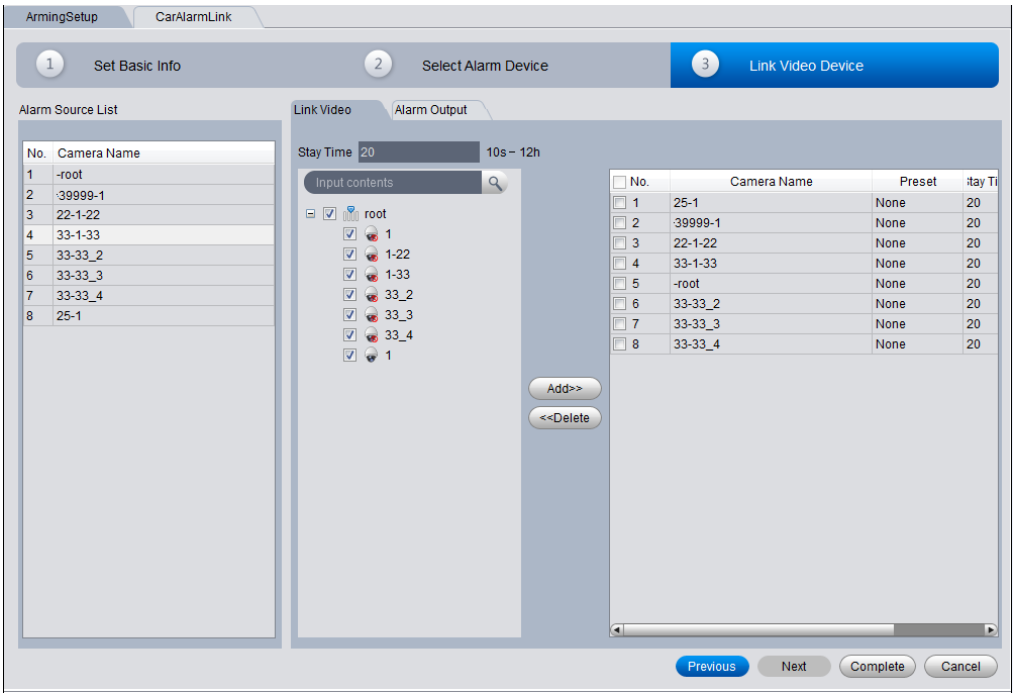



Figure 4- 16

Step 8. Click complete. See Figure 4- 17.

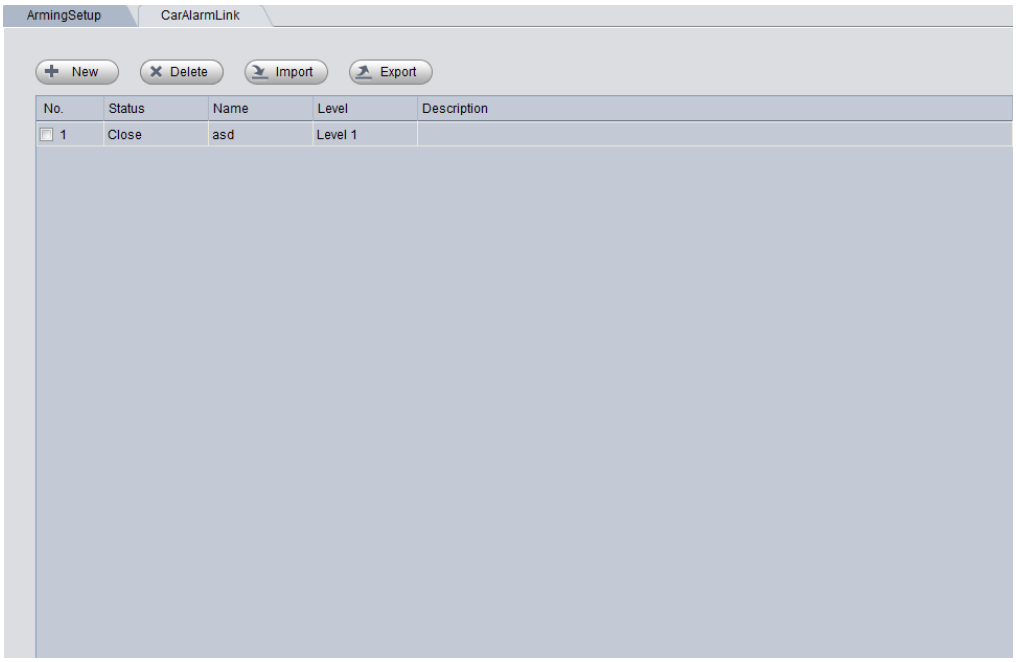
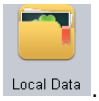



Figure 4- 17

If you want to enable arming scheme, then click disable on status column, when status is enable, click enable, status will show enabled, as enabling arming scheme.

## 4.6 Local Data

Snapshot picture and record will be saved in local disk.
You can search saved local data, as saved record and snapshot in Local Data interface.

Step 1. Click on 

. System pops up Local Data interface.
Step 2. On the right, select device channel.
Step 3. Config start time and end time. Select data type (picture, video) or use advanced search.
Step 4. Click on Search. See Figure 4- 18.

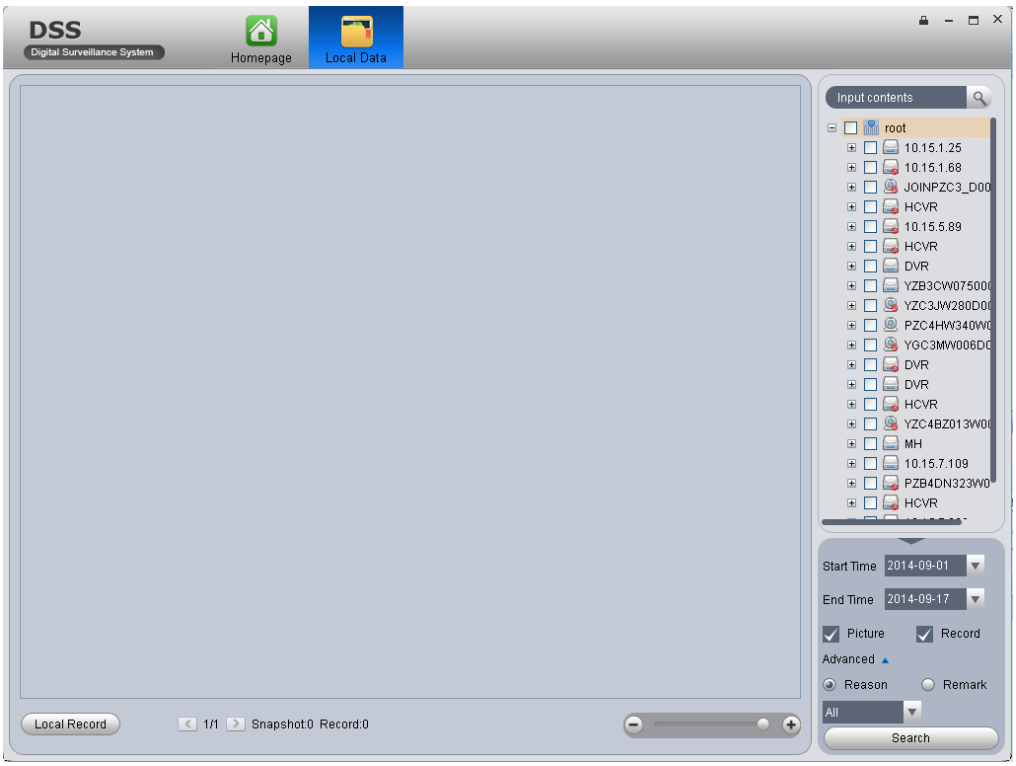



Figure 4- 18

- Right click searched picture or record, you can copy, cut and delete the picture or record. You also can open path where the picture and record stored.
- Double click picture, you can view detailed info of picture.
- Double click record, you can view detailed info of record and playback the record.
- Click Local Record in the lower left corner, you can open local record storage path.
- Click to adjust picture size.

# 5 Operation

## 5.1 Preview

Via DSS Client, you can preview, record, snapshot, use PTZ and etc.

### 5.1.1 Real Time Monitoring

DSS Client supports real time preview.

Preview operation is as follows:

Step 1. Click

in Basic area. System displays Preview interface.

Step 2. Drag channel on the right to video window. Video window displays real time monitoring status as in Figure 5- 1.

Double click device to open all channels of the device. Right-click device to open video and switch main/sub streams.

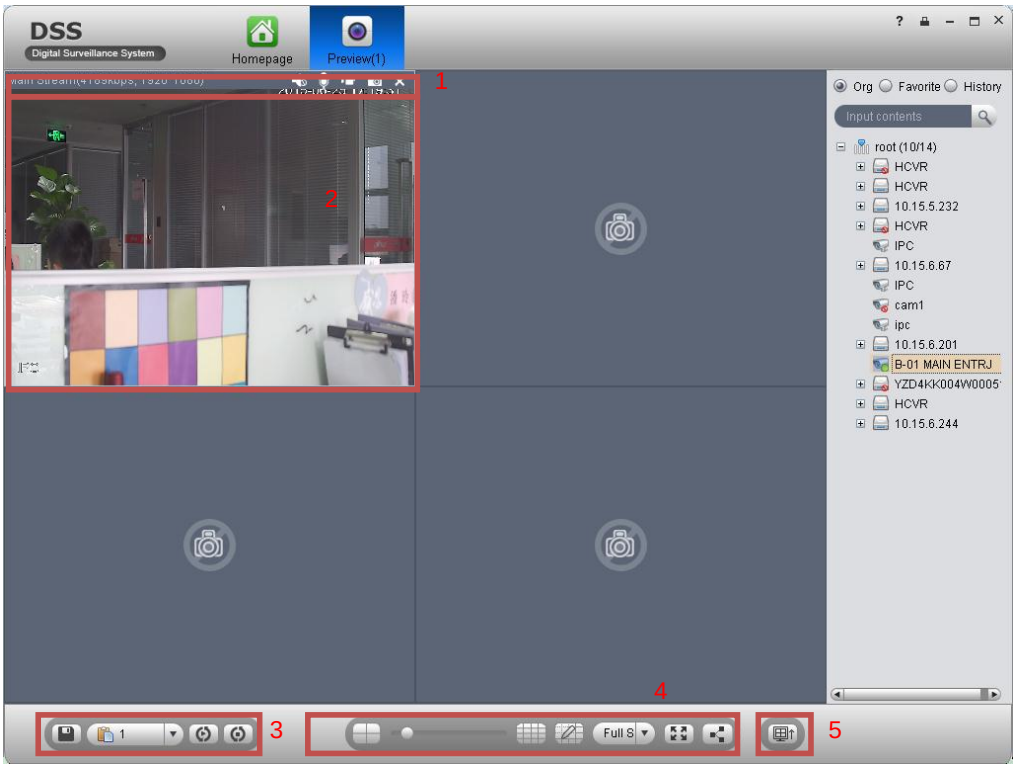



Figure 5- 1

| No. | Parameter | Note |
|---|---|---|
| 1 | Bit Stream and Shortcut | It displays bit stream info and operation shortcut. Shortcuts are as follows:<br>• : Turn on/off sound.<br>• : Turn on/off MIC.<br>• : Turn on/off record.<br>• : Snapshot. |
| 2 | Video Window | Real time preview |
| 3 | Window Task | 1 : select tour task in dropdown list.<br>Click , start tour task.<br>Click end tour task.<br>Click to save current video as video task.<br>Note:<br>• After you add task in Tour Task, you can select corresponding task here and execute it. Please refer to Ch 4.3 for adding task in Tour Task.<br>• In video window, right click and select Save as Video Task, then you can select task here and execute it. |
| 4 | Window Split Mode | It is used to split window. You can drag progress bar or click to split window. There are ten modes ranging from 1-window to 64-window. |
| | Aspect Ratio | Select window's aspect ratio to adjust window. |
| | Full Screen | Switch video window to full screen mode. To exit full screen, you can double window or press Esc button or right-click to exit full screen. |
| | Share Video | Receive and view videos shared by other user to current user. |
| 5 | Output to Wall | : Output to wall. |

Step 3. Right click preview window, you can set current preview window as in Figure 5- 2.

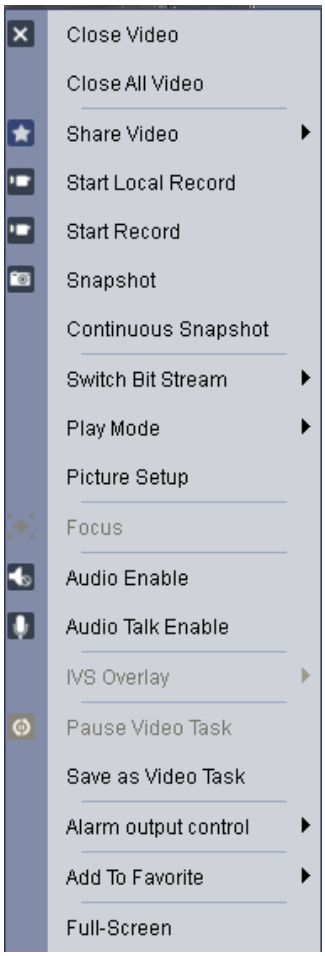



Figure 5- 2

| Parameter | Note |
|---|---|
| Close Video | Close current video |
| Close All Video | Close all video |
| Share Video | Receive and view videos shared by other users to current user. |
| Start Local Record | Save current video as record file on local PC. |
| Start Record | Save current video as record file on CMS. |
| Snapshot | Save image of current video as picture into folder (save one each period) |
| Continuous Snapshot | Save image of current video as picture into folder (save three each period) |
| Stream Type | Switch between main stream, sub stream and third stream. |
| RT/Fluency | Switch between RT priority and fluency priority. |

| Parameter | Note |
|---|---|
| Picture Setup | It adjusts brightness, contrast and etc. |
| Fisheye Installation Mode | Wall mount, in-ceiling and grounding. |
| Fisheye View | Fisheye view has different installation modes with different angles. |
| Focus | For IPC with this function, adjust its focus, zoom and auto focusing. |
| Audio Enable | Enable or disable audio of camera. |
| Audio Talk Enable | Enable or disable talk of device. |
| IVS Overlay | Set whether rule and object box in window. |
| Pause Video Task | Set tour task pause. |
| Save as Video Task | Save layout of current window and video source as a tour task.<br>After save it, you can preview it from the dropdown list in the lower left in Preview interface. |
| Alarm Output Control | Control alarm output. |
| Add to Favorite | Add the channel to favorite. |
| Full-Screen | It switched video to full screen. To exit full screen, you can double click or select exit full-screen. |

### 5.1.2 Record

DSS Client supports real time preview and record at the same time.

Local record steps are as follows:

Step 1. Right click window in Preview interface and select Start Record or click to record.

Step 2. When record starts, becomes .

Step 3. When you want to end record, right click window and select Stop Record or click on the upper right to stop.

Default storage path of record is C:\DSSClient\Record\. You can go to Setup Manager>Local Setup>Record/Download to edit Max Record Time and Record Save Path.

DSS series Client supports management of local record file, please refer to Ch 4.4.

### 5.1.3 Snapshot

In Preview interface, you can refer to the following steps to snapshot.

Step 1. Right click window in Preview interface, and select Snapshot or click to snapshot.

System pops up a Snapshot box as in Figure 5- 3.

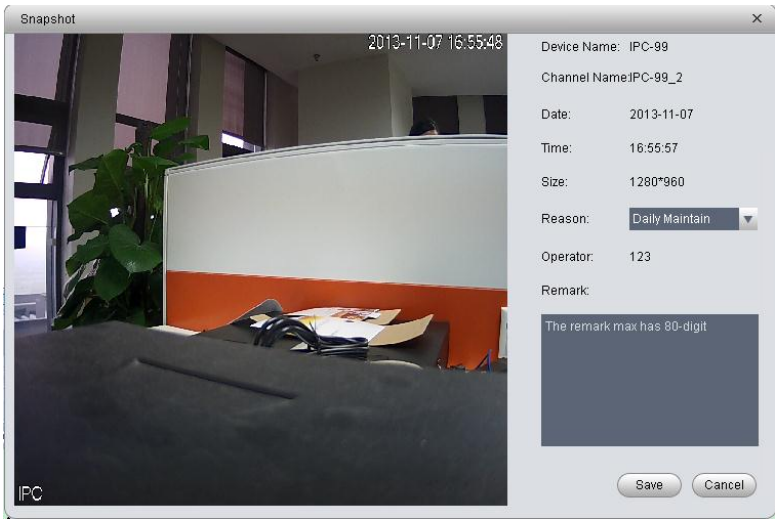



Figure 5- 3

Step 2. Input Reason and Remark.

Step 3. Click Save. System says snapshot is successful.

Step 4. You also can right click window and select Continuous snapshot to snap more than one picture.

Step 5. System default picture storage path is C:\DSSClient\Picture\. You can go to Setup Manager> Local Setup>Snapshot to edit Continuous Time, Continuous Interval and Snapshot Save Path.

Step 6. You can view local record file and snapshot by referring to Ch 4.4.

### 5.1.4 Add Channel to Favorites

By adding channel to favorites, you can quickly open preview channel.

Step 1. In Preview interface, click Org on the right, and select Favorite. System displays Favorite interface.

Step 2. Right click root to display.

Step 3. Select device channel, select Add to Favorites. See Figure 5- 4.

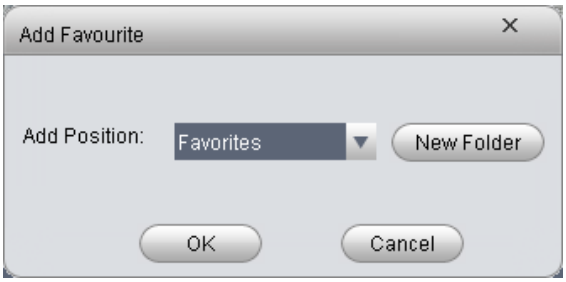



Figure 5- 4

Step 4. In dropdown list, select Add Position.

- If select Favorites, channel will be added into Favorites root directory.

- If select other folder, you can click New Folder to create new one.

Step 5. Click OK.

Step 6. Click Favorite and click to save. You can view channel added to favorite in Favorite tab, see Figure 5- 5.

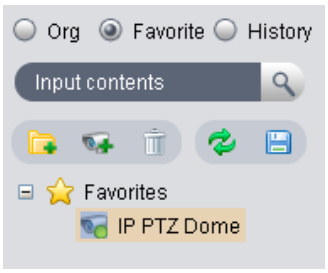



Figure 5- 5

- Double click folder to quickly view all channels under this folder.
- You can also select Favorite tab, click to create new folder. Click window in preview, click and to add the channel to Favorites.
- If you want to delete channel in Favorites, select the channel or folder and click to delete.

### 5.1.5 PTZ

If device type is speed dome, then you can click PTZ tab in the interface to set PTZ as in Figure 5- 6.

Figure 5- 6

| Parameter | Note |
|---|---|
| | Click to lock current PTZ. Lock status is .<br>Based on current user level, control over PTZ may vary.<br>● When low-level user lock the PTZ, high-level user can click to unlock.<br>● When high-level user lock the PTZ, low-level user cannot unlock it until it is automatically unlocked.<br>● User of same level can unlock PTZ that lock by each other.<br>**Note:**<br>**PTZ default unlock time is 30s.** |
| | Control speed dome with mouse. |
| Direction key | It sets rotation direction of PTZ in eight directions as up, down, left, right, upper left, upper-right, lower-left, lower-right. |
| | Partial zoom for zoom in/out of certain area.<br>**Note:**<br>**This function can only be controller with mouse.** |
| Step Length | It controls rotation speed of PTZ in 1~ 8 directions with different step lengths. |
| Zoom | It controls zoom of speed dome. |
| Focus | It adjusts focus. |
| Iris | It adjusts brightness. |
| Preset | Via setting preset, you can rotate camera toward position of the preset. |
| Tour | Via setting tour, you can tour camera among different presets.<br>**Note:**<br>**This function does not require support from speed dome, but speed dome must support preset.** |
| Aux | It adjusts light, wiper, PTZ menu, auto rotation, aux 1, aux 2 and IR light. |

- Preset

By setting preset, you can rotate camera toward position of preset. To add preset:

Step 1. Click direction key on PTZ to rotate camera.

Step 2. Click Preset tab.

Step 3. Click Add. System pops up Preset Setup interface.

Step 4. Input SN and Name as in Figure 5- 7.

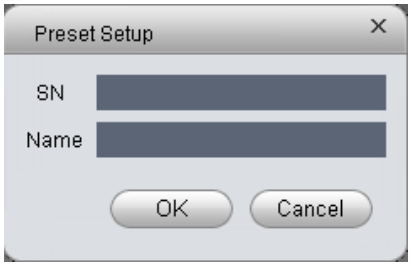



Figure 5- 7

Step 5. Click OK.
When you need to rotate the camera toward designated position, you just need to select direction from the dropdown list, and click Go.

- Tour

Via set Tour, you can make camera tour among different presets.
**Note: There must be at least two presets for tour.**

To add tour:
Step 1. In PTZ interface, click Tour tab.
Step 2. Click Add. System pops up a new tour box.
Step 3. Input name and SN. In All Presets area on the left, select preset, and click Add. System adds presets on the left to list on the right as in Figure 5- 8.

Figure 5- 8

- Add Select preset on the left, click this button, presets will be added into list on the right.
- Delete Select preset on the right, click this button, presets will be deleted from the list on the right.
- Modify Stay Time, click Stay Time column of presets on the right to modify it. It ranges from 3s ~ 6000s.

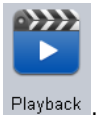
Step 4. Click OK. System will say it is successfully saved.
Step 5. Click OK.
When you want to start tour, in Tour tab, select tour from dropdown list and click Start.

## 5.2 Playback

DSS Client supports playback, download record files.

### 5.2.1 Playback

You can search different channel, different time, and different types of record, and play the record.
To play record:

- In Basic area, click 

. System displays playback interface.
- In the upper-right corner, select Device, Center, or Period, and check device channel.
  - Device: record saved on front-end device's SD card or DVR's hard disk.
  - Center: record saved on network storage server or DSS's hard disk.
  - Period: Divide record in searched period by period, and display them in each window, please refer to Ch 5.2.2.

  If there is record, then it shows different color in calendar.
- Click in the lower-left to select record type.
- Click Search. After search is finished, channels with record will be displayed in time progress bar as in Figure 5- 9. If no record is found, system will inform you.

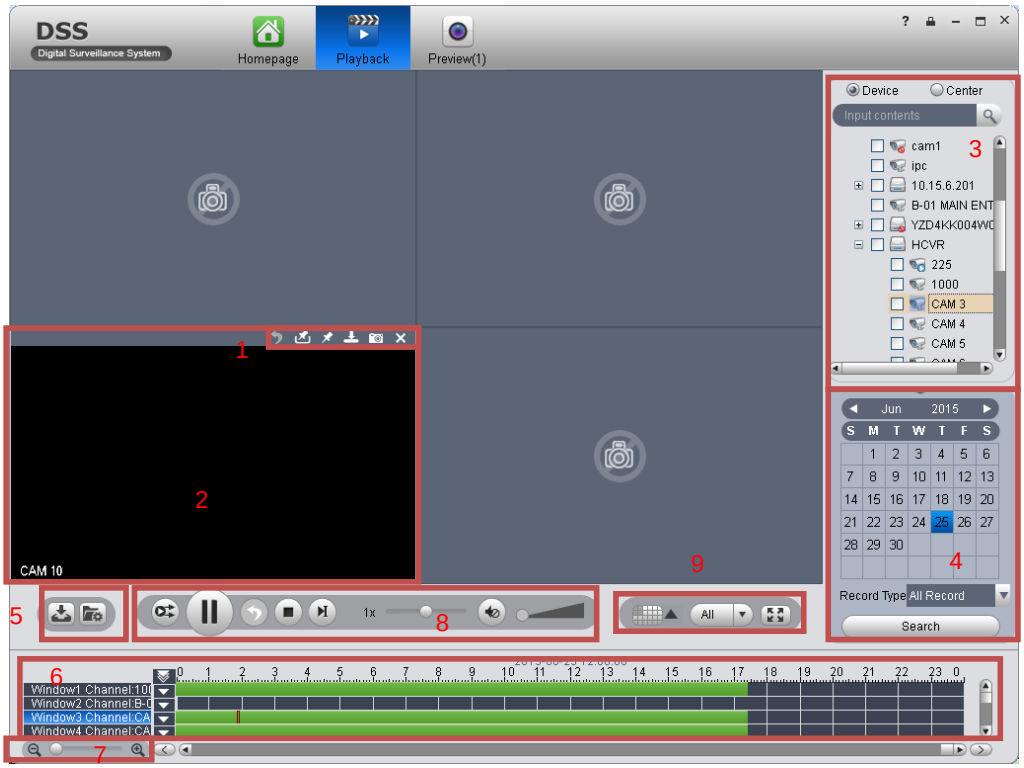



Figure 5- 9

| No. | Interface | Note |
|---|---|---|
| 1 | Record Playback Window | Window of record playback. |
| 2 | Quick Operation Bar | You can select:<br>● : Mark Manager<br>● , Mark current record<br>● , Download record in the channel<br>● , Snapshot<br>● , Close record of current channel |
| 3 | Device List | It displays device and channel |
| 4 | Date | Select date of record. |
| 5 | Download and Manage | ● : Select download record by time or by file.<br>● : Manage record progrss of download or stop downloading. |
| 6 | Record Playback Type and Time Progress Bar | ● It is to select playback record type and time axis.<br>● Click to select record type. |
| 7 | Time Progress Bar | It adjust time axis of zoom in/out. |

| No. | Interface | Note |
|---|---|---|
| 8 | Play Tool Bar | You can select parameter:<br>● , Window sync playback button. When it is in this status, tool bar works for all windows.<br>● , When it is in this status, tool bar works for currently selected window only.<br>● , Pause or play.<br>● , rewind<br>● , Stop play<br>● , Go to next frame<br>● , Control speed of playback<br>● It adjusts volume. |
| 9 | Window Display Mode | It sets split mode, aspect ratio, and full screen of window. You can drag progress bar and select from ten modes ranging from 1 to 36 windows. |

- Select channel to playback, click to play record.

If you want to playback other channel's record, you shall click in the lower right, and select designated channel. Click to play and system will play corresponding record as in Figure 5- 10.

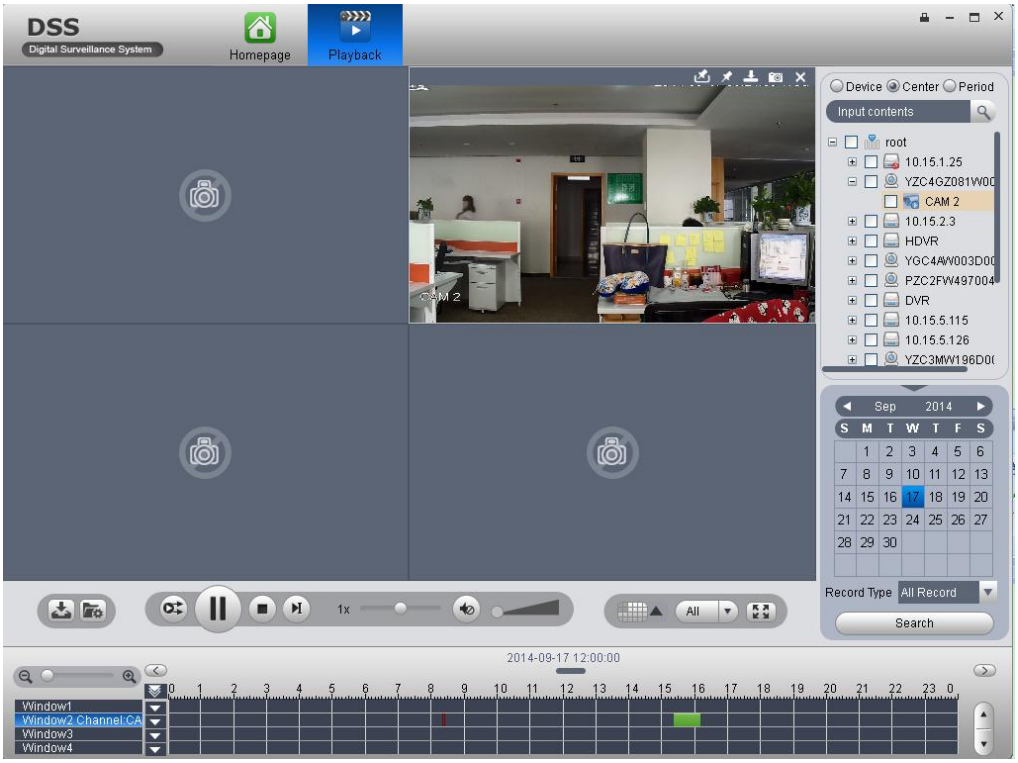



Figure 5- 10

### 5.2.2 Mark Record

Via marking record, you can create bookmark in designated record.

To mark record:

Step 1. Click in Playback interface. System pops up a Add Mark box as in Figure 5- 11.

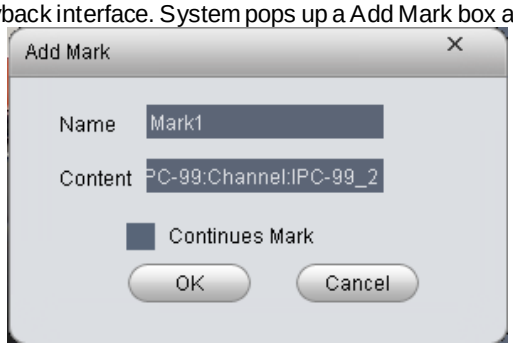



Figure 5- 11

Step 2. Input Name and Content, click OK. System pops up box saying mark successfully. Select Continuous Mark to continuously mark current record.

Step 3. Click in playback window. System pops up a Mark Manager box as in Figure 5- 12.

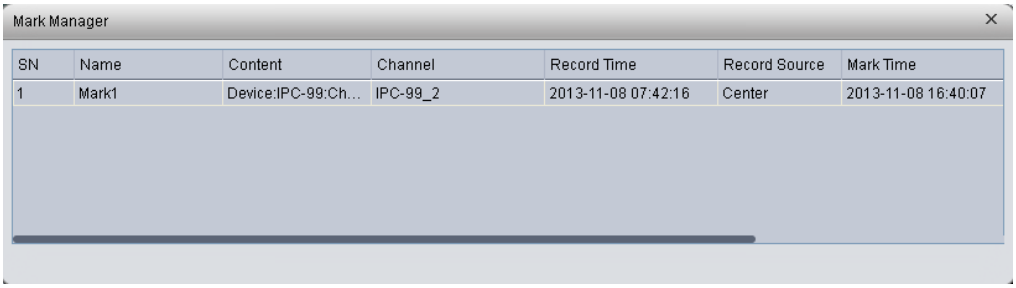



Figure 5- 12

Select record, click , , and , you may playback, delete and edit the record. For marked record, it displays in progress bar in playback window,as in Figure 5- 13. Click , you can play marked record file.

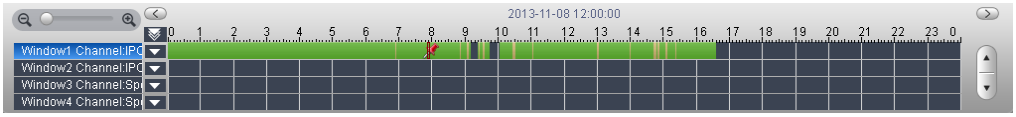



Figure 5- 13

DSS Client supports search, playback, edit and delete marked record, please refer to Ch 6.6.

### 5.2.3 Local Record

All locked records can be searched in record lock interface, where you can batch unlock and lock record.

Note:

Record lock only can lock record of the previous half an hour.

Step 1. In Playback window's time progress bar, right click to lock start point. See Figure 5- 14.

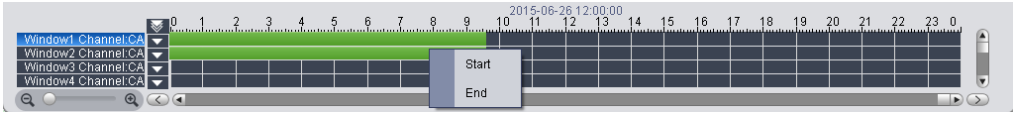



Figure 5- 14

Step 2. Fill in record lock parameter, and click lock. See Figure 5- 15.

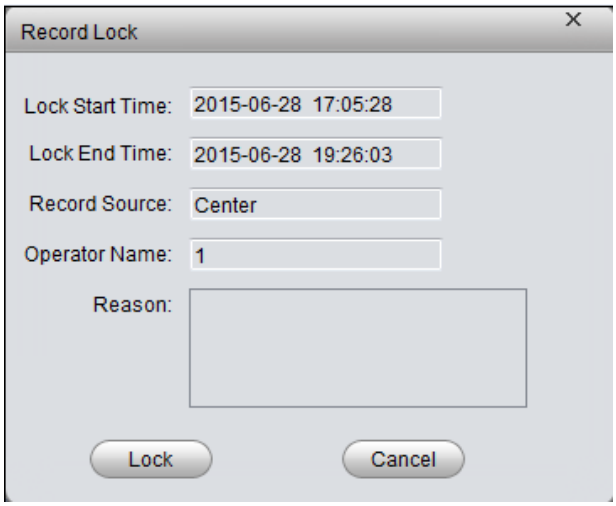



Figure 5- 15

Step 3. If you search again, you can see blue progress in record progress bar as the locked record, see Figure 5- 16.

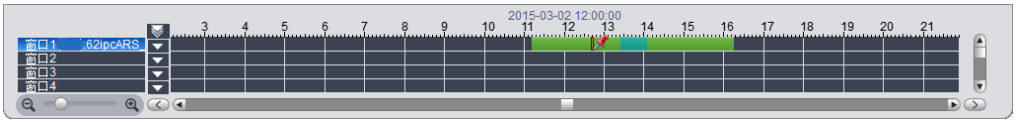



Figure 5- 16

Note:
When disk is full, ss will not overwrite the locked record.
Ss is responsible for record storage, playback and download.

All locked records can be searched in record lock interface, and you can batch unlock and lock record.

Step 4. Select record lock interface.

Step 5. On the right, select device channel, start time and end time, click Search. System shows record lock interface, see Figure 5- 17.

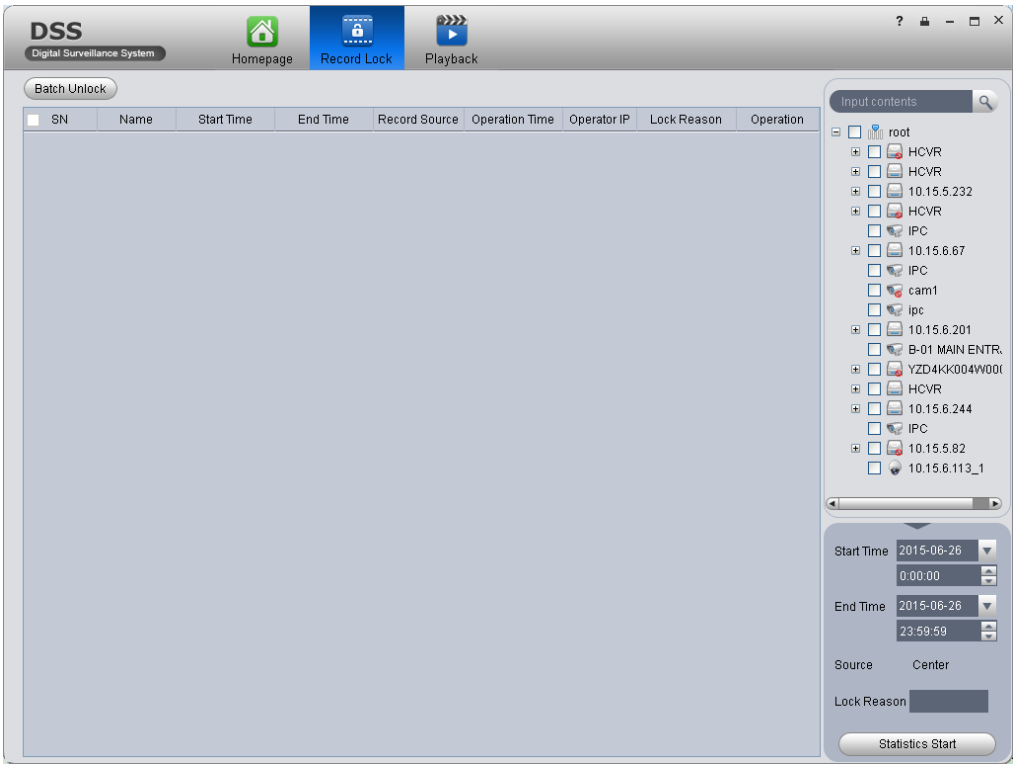



Figure 5- 17

Step 6. Batch select record, click batch unlock.

- Click to unlock.
- Click to play record.

### 5.2.4 Download File

During record playback, you can download designated file to local. To download record:

Step 1. Click in the upper-left corner in playback window. System pops up an File Download box as in Figure 5- 18.

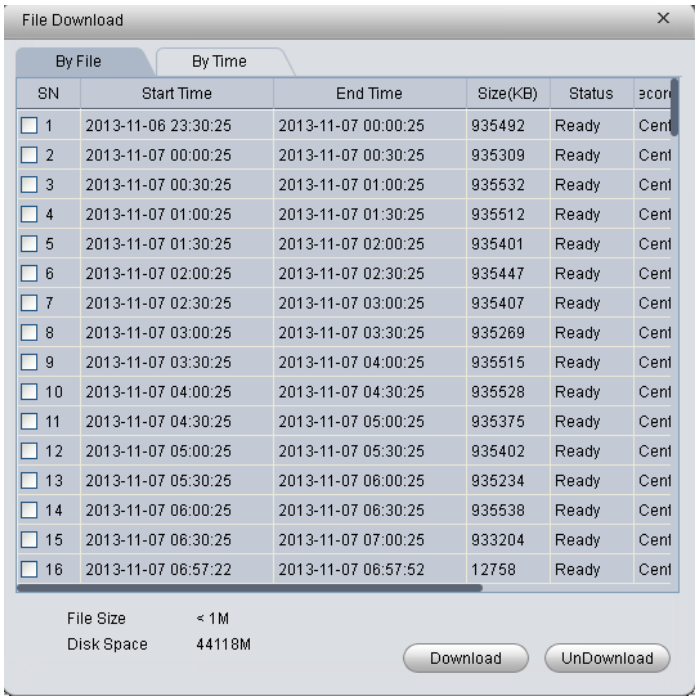



Figure 5- 18

Step 2. Check file to download, and click Download. System starts to download file, status become downloading. You also can click By Time tab, select period and download by time.

Step 3. Click in Playback interface. System displays Manage interface as in Figure 5- 19.

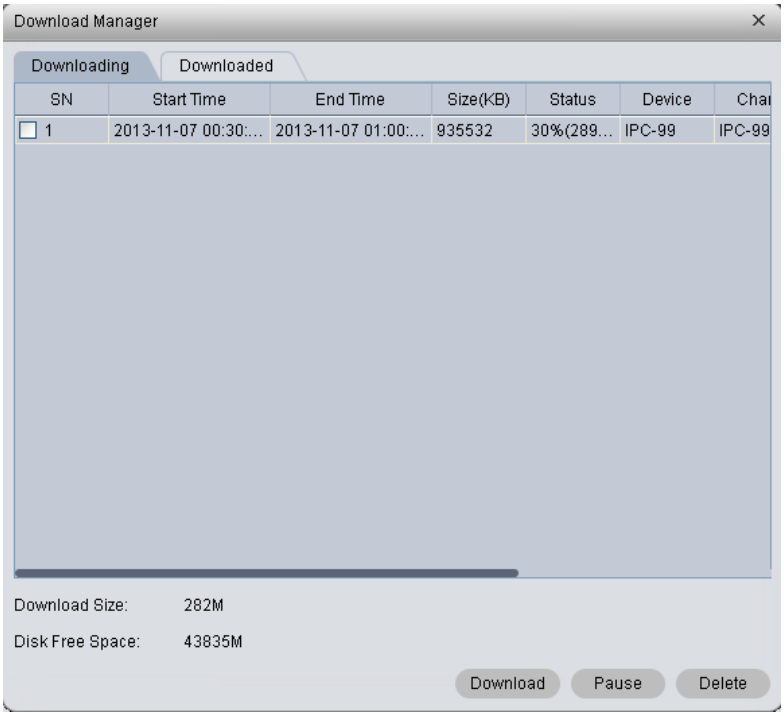



Figure 5- 19

You can view progress of downloading file, and check downloading file to pause or delete it.

## 5.3 Map

In Map interface, you can search and view added video device, ANPR device and etc. You also can live preview, alarm search, playback. If map configured on DSS Manager-end is vector, then you can search, patrol video tour and etc. on DSS Client.

Note:

You shall add map at Business>Map on DSS Manager and add device onto map. Please refer to Ch 7.3 in DSS Manager User's Manual.

### 5.3.1 Vector Map Application

If you configure vector map on DSS Manager-end, then you can view added video device, ANPR device on Client. You also can live preview, alarm search, playback, patrol and video tour.

5.3.1.1 E-map Homepage

Step 1. Select Map>Map. See Figure 5- 20.

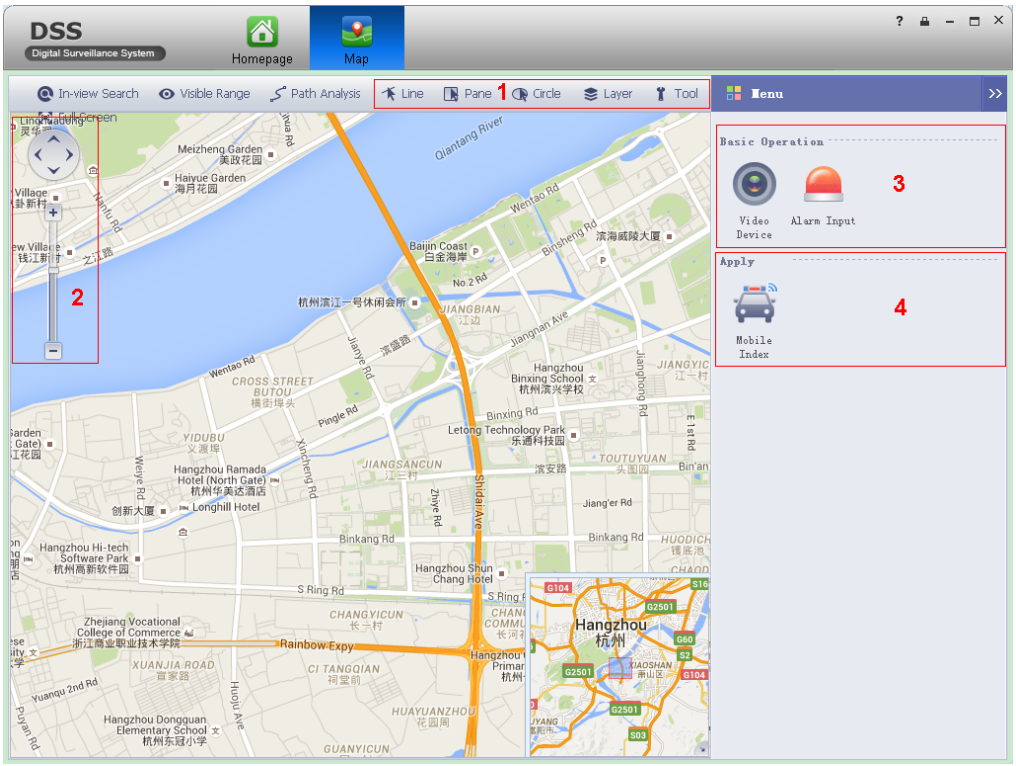



Figure 5- 20

| No. | Parameter | Note |
|---|---|---|

| No. | Parameter | Note |
|---|---|---|
| 1 | Tool Bar | Available tool and notes:<br>● In-view search：Search current map window device channel based on filtering criteria.<br>● Visible range： If the device supports visual domain feature, you can see the visible range of the device channel.<br>Note:<br>● When If the channel is a bolt or bayonet, you need to add in the management side, "Coder" or "ANPR device," click "Channel Configuration" Configuration "according to the perspective of the" in "Channel Configuration" interface "according to visual range "," according to visual distance "in order here, click" visible range " to view channel visible range.<br>● If the channel is a speed dome, you need to add in the management side, "Coder", click the "channel configuration" in the "Channel Configuration" screen, in addition to the configuration, "according to degree angle," "according to visual range," "according to the visual distance ", but also to choose" whether to support the visible range. "<br>● Line：Batch select device with line.<br>● Pane：Batch select device with pane.<br>● Circle：Batch select device with circle.<br>● Clear：Clear line, pane and circle on map.<br>● Layer：Show or hide device. Only checked type can be shown on map.<br>● Tool：includes length, area, mark, reset and refresh.<br>◇ Length：Measure distance between two points on map.<br>◇ Area：Measure one area on map.<br>◇ Mark：Mark on map.<br>◇ Reset：Restore default map position.<br>◇ Refresh.<br>● Full screen：Full screen show e-map. Under full screen mode, click exit at the upper-right corner to exit full screen. |
| 2 | Zoom | Zoom in/out map. |
| 3 | Basic Operation | Search video device, ANPR e-police and alarm input. |
| 4 | Apply | Available parameter and note：<br>● Mobile index：If a vehicle has MDVR device installed or GPS, or a policeman carry MPT300 with him, then you can real-time view vehicle moving pattern or policeman moving pattern, and search vehicle and policemen moving pattern history by time. |

5.3.1.2 Basic Operation

DSS Client supports search of video device, ANPR e-police and alarm input.

Step 1. For example, click

in Basic Operation.

Step 2. In video device box, input channel name of video device. See Figure 5- 21.

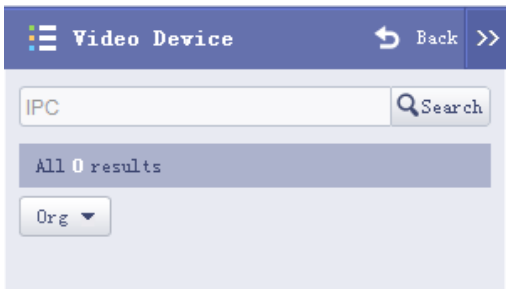



Figure 5- 21

Step 2. In search result, click your target. See Figure 5- 22.

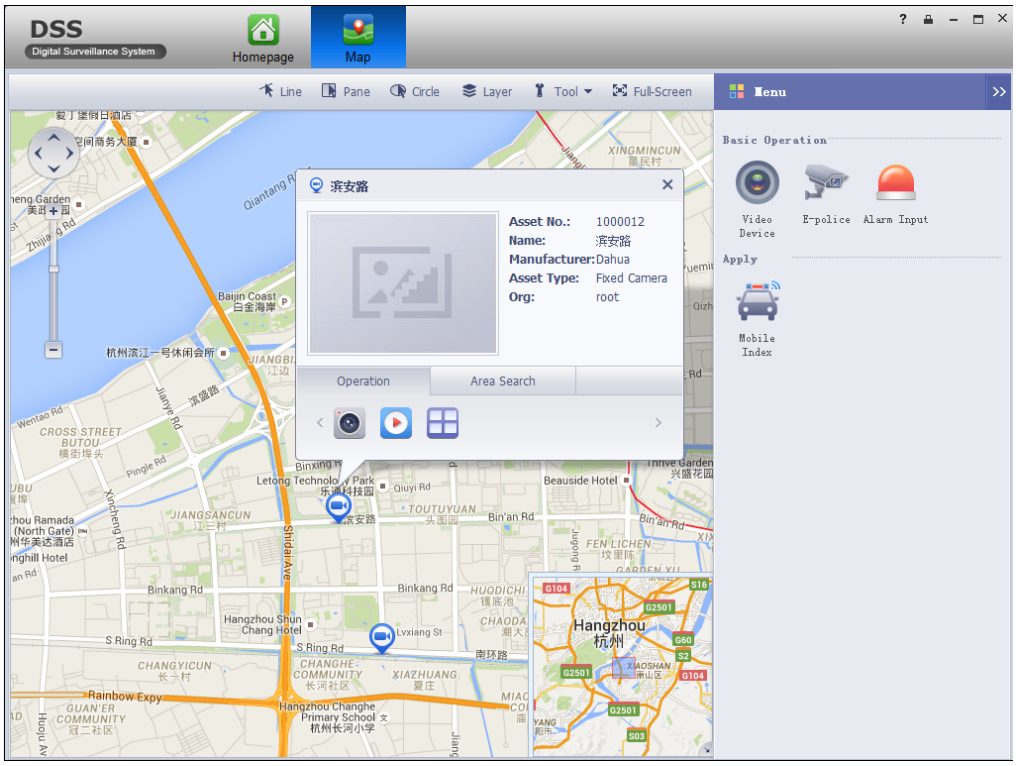



Figure 5- 22

| Parameter | | Note |
|---|---|---|
| Device Operation | | Open channel live video.<br>When it is live previewing, system supports local record, audio talk, snapshot and to enable audio. |
| | | Playback. |

| Parameter | | Note |
|---|---|---|
| | | Output to video wall. |
| | | If the channel is ANPR e-police channel, then you can picture monitor. |
| Search Nearby | | Search channel's nearby video channel and ANPR e-police channel. |

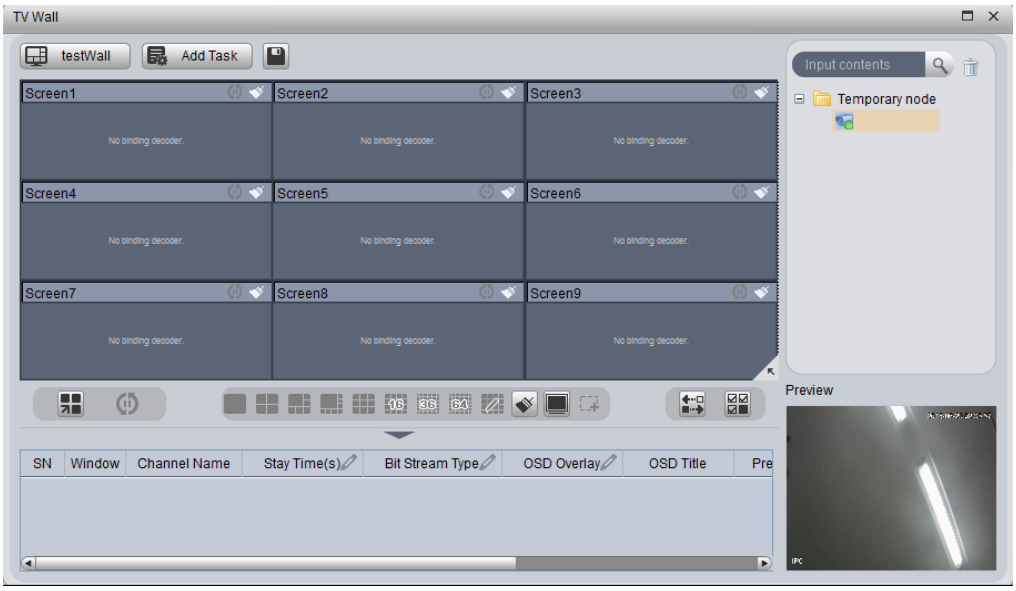
1. Click in device operation area to live preview.
   See Figure 5- 23.

Figure 5- 23

2. Click in device operation box, to playback record on the device or on platform. See

Figure 5- 24

3. Click in area box in device operation, to output video to wall. See Figure 5- 25. Please refer to Ch 5.5.




,

Figure 5- 25

5.3.1.3 Mobile Index

If a vehicle has installed with MDVR device or GPS, or a policeman carries MPT300 device with him, then you can live preview vehicle moving pattern or policeman moving pattern, and search their moving histories by time.

Note:

You must add MDVR and MPT300 in Encoder in General>Device on Manager-end via auto registration, and add the device to e-map before you can viewing police car and policeman moving pattern.

Step 1. Click

on the right of Map interface. System shows mobile index interface, and shows added mobile device and GPS.

Step 2. In dropdown list, select type, and input device channel.

Step 3. Click Search.

Step 4. Click .

Step 5. Configure start time, end time and interval.

- Interval between start time and end time shall not exceed 2 days.
- If you need to search pattern of other police car, then click police car field, and select cat in the dropdown list.

Step 6. Click pattern history.

Step 7. Click search result, system will show details in e-map。

Step 8. Click

at the upper-right to go back to Map homepage.

### 5.3.2 Raster Map Application

If you set Raster Map in DSS series Manager, then you can live preview and playback on raster map on Client.

Step 1. Click Map>Map.

Step 2. Enter video device channel name in search field on the right.

Step 3. Click Search。

Step 4. In search result, click your target. The map will show its info, such as channel name, device no. and channel no.

Step 5. Right click your target on map and select open video. See Figure 5- 26.

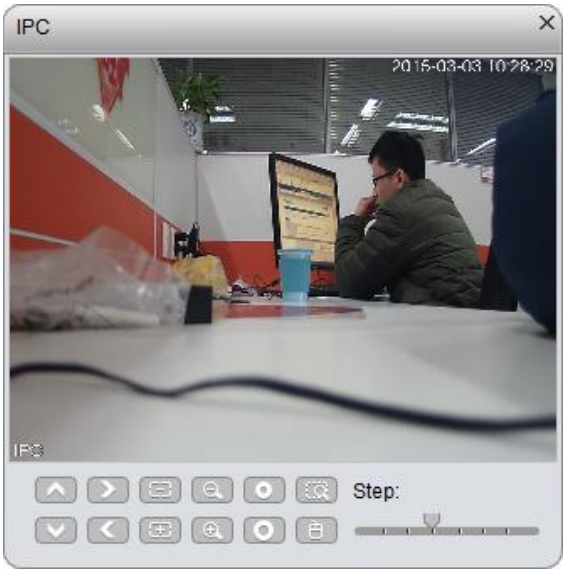



Figure 5- 26

You can right click your target on map, and select playback, select time and recor storage type. See Figure 5- 27.

Figure 5- 27

## 5.4 Alarm Manager

If alarm scheme is configured, when alarm occurs, Alarm Manager displays corresponding alarm. Please refer to Ch 4.2 for config of alarm scheme.

Step 1. In homepage, Click

in Basic area. System displays Alarm Manager interface as in Figure 5- 28.

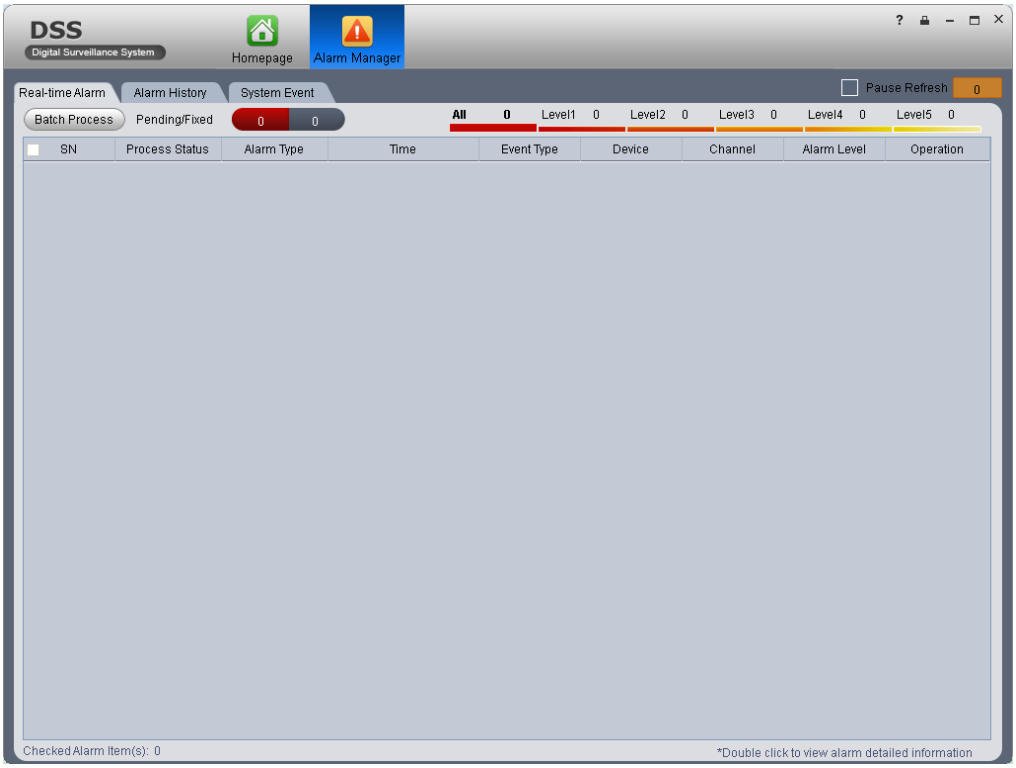



Figure 5- 28

Step 2. Select alarm info, double click alarm details.
Step 3. Select process, input Results and click OK.

- You can click in

to quickly enter Alarm Manager interface.
- Click Alarm List tab, systems displays all alarms by level.
- Click Search List tab, select corresponding channel in list on the right, and select Alarm Type, Start Time and End Time. Click Search to search alarm records meeting above criteria.
- Click System Event tab, system shows all system alarms.
- Click Offline Notice tab, system shows offline time of all devices.

## 5.5 Video Output to Wall

Via selecting TV wall schemes and bind video with TV wall to output video to wall.
Note:

- Before configuring TV wall function, you need to add TV wall scheme in Business>TV Wall on DSS Manager.
- You must add TV wall right to current user in DSS Manager.

Step 1. Click

in Basic area.

System displays TV Wall interface.

Step 2. Click at the upper-left corner, select TV wall scheme.

Step 3. Drag channel on the right to corresponding screen of TV wall to bind.

See Figure 5- 29.

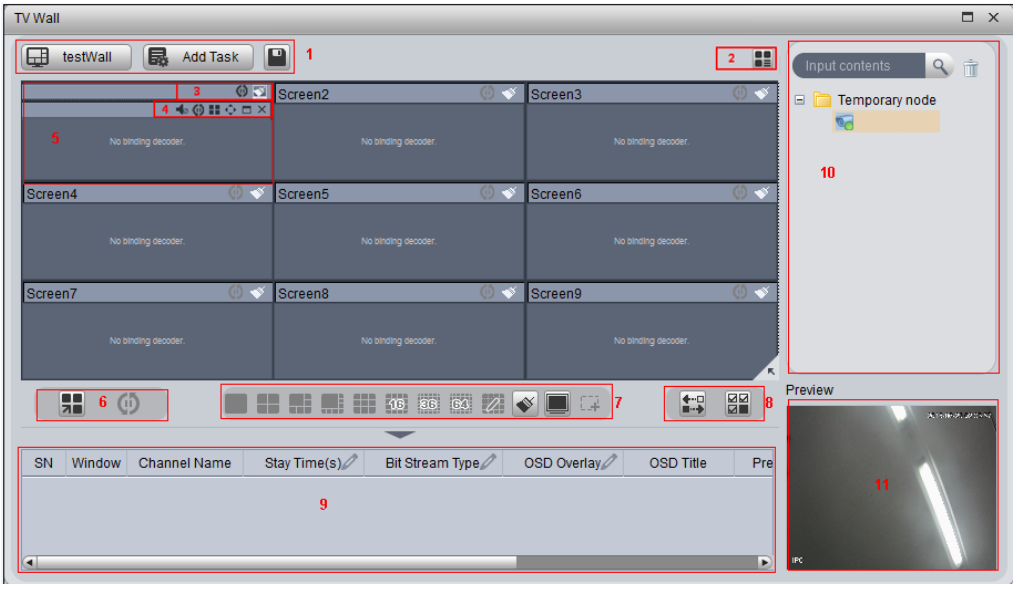



Figure 5- 29

| No. | Interface | Note |
|---|---|---|
| 1 | TV Wall Scheme | ● : click to search all TV wall schemes added on Manager-end.<br>Note:<br>Before configuring TV wall, you shall add TV wall scheme on DSS Manager-end Business>TV Wall.<br>● : click to search all added TV wall tasks.<br>● : Save task. |

| | | |
|---|---|---|
| 2 | TV Wall Plan | ● ：add schedule plan.<br>● ：add tour plan. |
| 3 | Tour, clear | ● ：enable/disable the window tour.<br>● ：clear. |
| 4 | Video Window Operation Buttons | You can create independent video window on free drawing box as freely open window.<br>● ：audio. Multiple audio is ON, one audio will not replace its previous audio, it support mixed audio.<br>● ：paste.<br>Click ，physical is pasted to related windows.<br>When paste physical screen, support to open window by rule.<br>● ：oen four windows on the video window.<br>● ：maximize windoe.<br>● ：close video window. |
| 5 | Video Window | — |
| 6 | Output to wall, Tour | ● ：instant output to wall, when complete this task, system auto output to wall.<br>● ：click to output to wall.<br>● ：enable/disable tour plan. |
| 7 | Split | ● ：screen split, may split 1~64 screens.<br>● ：customize screen split.<br>● ：clear.<br>● ：screen ON/OFF.<br>● ： |

| | | |
|---|---|---|
| 8 | Operation | ● : one-key switch. Window video bit stream type switch, as main stream, sub scream and preview stream. Window video source tour time interval setup.<br>Preview stream is non-compression signal on wall,as raw data output to wall.<br>● : multi-selection buttons.<br>Click multiple window or pane multiple windows, click , may select multiple video windows at the same time. |
| 9 | Operation | Screen, window, channel binding info<br>● Click , you can view if it is the channel you want at the lower-right “preview”.<br>● Click , to adjust order.<br>● Click , to delete added window signal source. |
| 10 | Channel List | — |
| 11 | Video Preview Window | Double click video channel, auto add to window. In channel binding info bat, click , to preview video. |

Step 4. Click .

Step 5. Input Task Name, click OK.

Step 6. Click to complete.

You also can customize TV wall plan to output video to wall. Please refer to Ch 4.3.2.

## 5.6 Audio Talk

Via audio talk, you can talk to front-end device and broadcast.

### 5.6.1 Audio Talk

Audio talk allows Client to talk to a single front-end device.

Step 1. Click Audio Talk in Basic area. System displays broadcast interface, see Figure 5- 30.

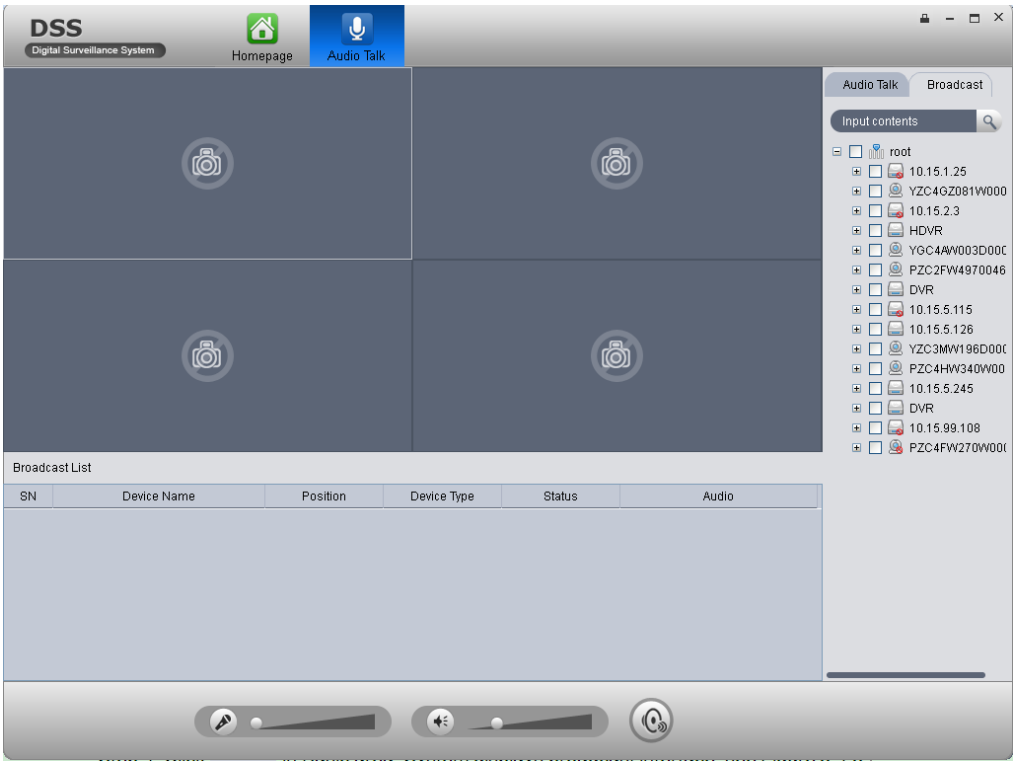



Figure 5- 30

Step 2. Click Audio Talk tab in the upper-right. System shows Audio Talk interface.
Step 3. Select a device to talk.
**Note:**
**Audio talk is valid to device only, not to channel.**

Step 4. Click . System shows interface as in Figure 5- 31.

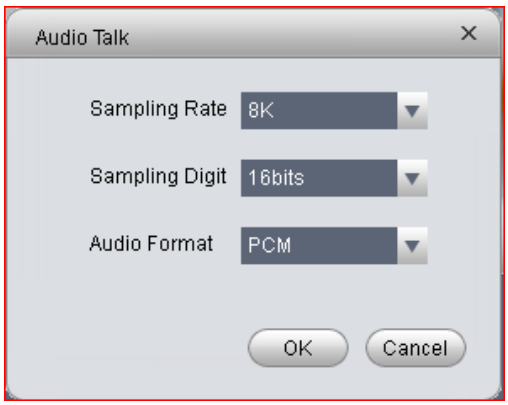



Figure 5- 31

Step 5. Set Sampling Rate, Sampling Digit, and Audio Format, click OK. If config match device, system will inform you that audio talk is successfully enabled, see Figure 5- 32.

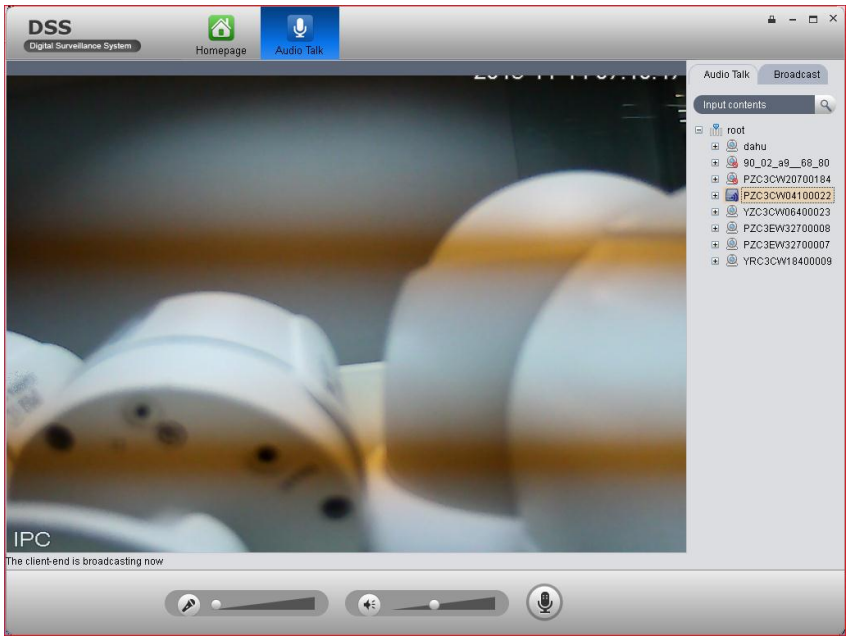



Figure 5- 32

**Note:**
**If config do not match device, system will inform you that failed to enable audio talk, and show recommended parameter. You can config based on the recommended parameter.**

During audio talk, click to end audio talk.

## 5.7 Broadcast

Broadcast allows the Client to broadcast with multiple front-end devices.

Step 1. Click Broadcast tab in Audio Talk interface. System shows Broadcast interface.

Step 2. Select multiple devices on the right. The selected devices will be displayed in broadcast list.

Step 3. Click . System displays Broadcast setup interface, see Figure 5- 33.

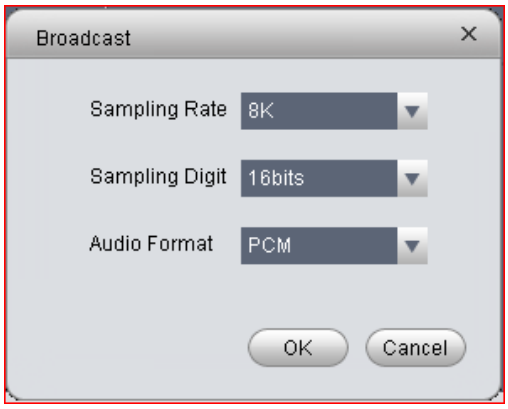



Figure 5- 33

Step 4. Set Sampling Rate, Sampling Digit and Audio Format.

Step 5. Click OK.

If config match device, then you enable broadcast successfully and device in list will show enable status, see Figure 5- 34.

Figure 5- 34

During broadcast stats, click to end broadcast.

## 5.8 POS Live

Step 1 On Client, click Live Preview button.

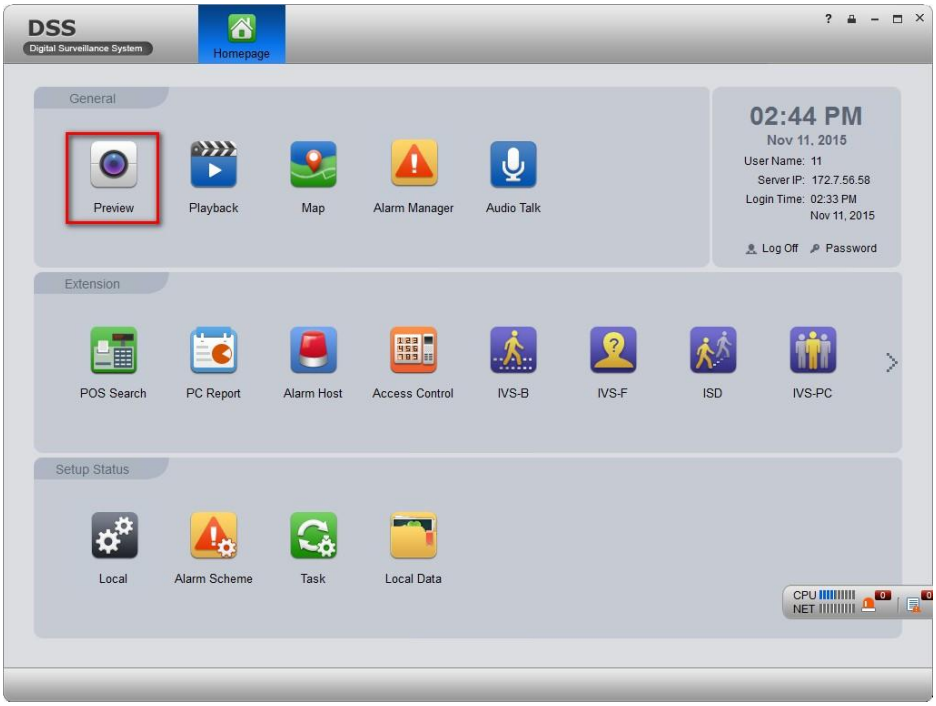



Figure 5- 35

Step 2 Click POS tab, double click POS device you want to view. Content is empty at beginning.

Figure 5- 36

Step 3 When POS device sends info, preview interface will display the received info.

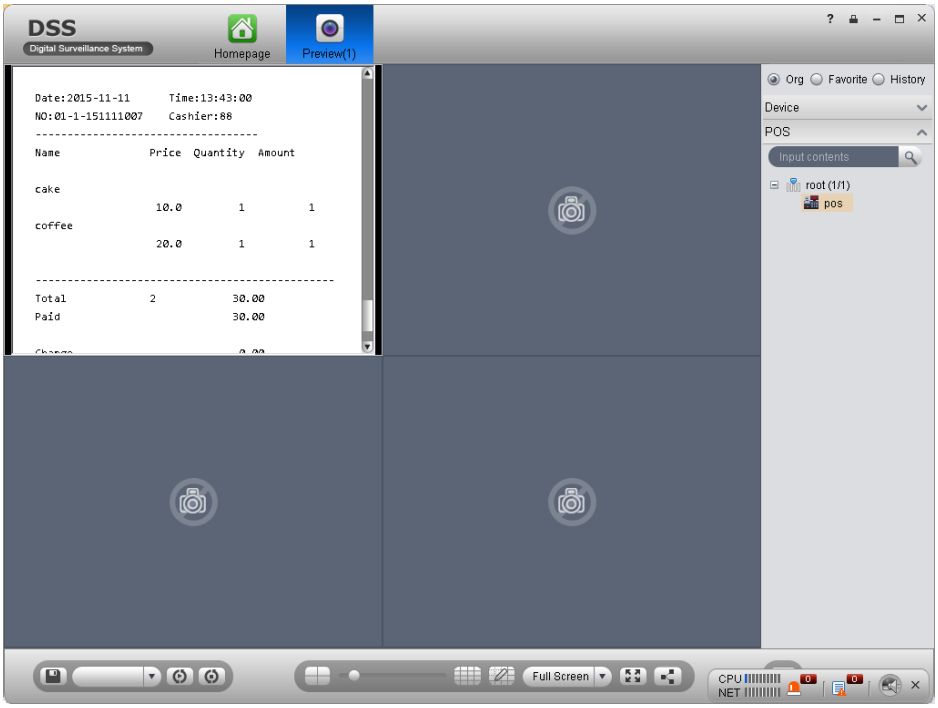



Figure 5- 37

## 5.9 POS Search

Step 1 On Client, click POS button.

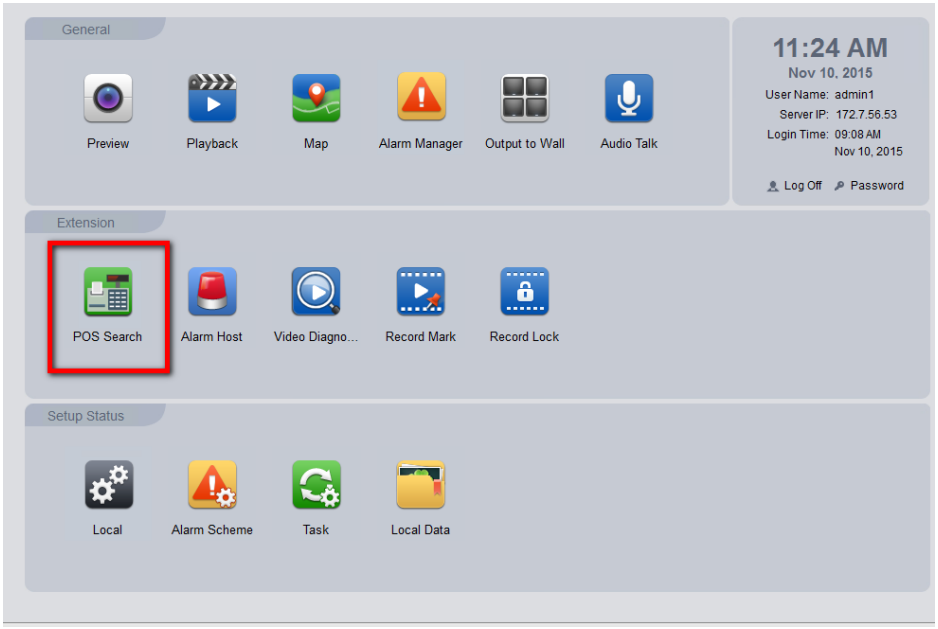



Figure 5- 38

Initialization status is as follows：

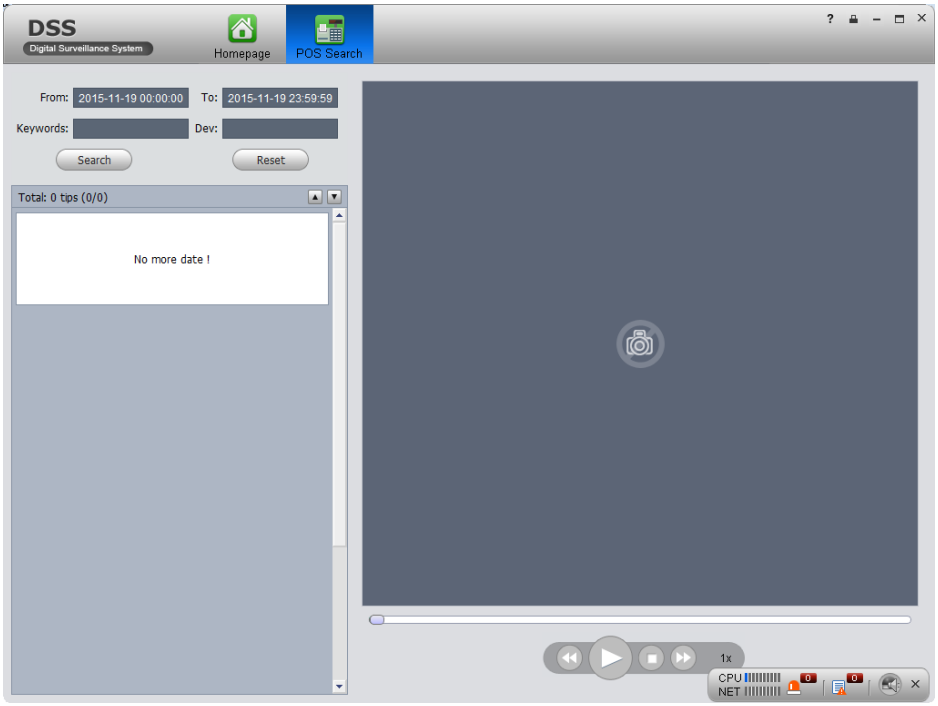



Figure 5- 39

Step 2 Select search time, pos device, keyword, and then click search button,Seared content：

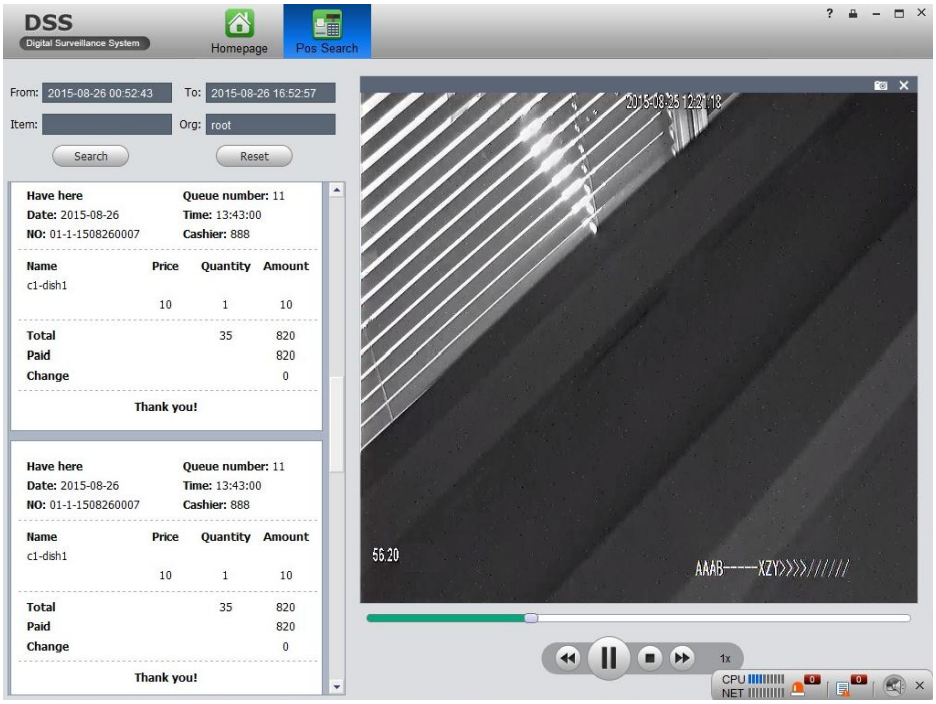

DSS
Digital Surveillance System
Homepage
Pos Search
From: 2015-08-26 00:52:43
To: 2015-08-26 16:52:57
Item:
Org: root
Search
Reset
Have here
Queue number: 11
Date: 2015-08-26
Time: 13:43:00
NO: 01-1-1508260007
Cashier: 888
Name
Price
Quantity
Amount
c1-dish1
10
1
10
Total
35
820
Paid
820
Change
0
Thank you!
Have here
Queue number: 11
Date: 2015-08-26
Time: 13:43:00
NO: 01-1-1508260007
Cashier: 888
Name
Price
Quantity
Amount
c1-dish1
10
1
10
Total
35
820
Paid
820
Change
0
Thank you!
56:20
AAAB-----XZY
1x
CPU
NET

Figure 5- 40

# 6 More Functions

## 6.1 ANPR Monitoring

ANPR monitoring is mainly used to manage ANPR device and snapshot time, location and plate no.

Note:

You shall add ANPR device on DSS Manager-end before you can view alarm host info on DSS Client. Please refer to Ch 5.2.5 in DSS Manager User's Manual.

Step 1. In Extension area, click .

Step 2. In device list, select ANPR device and drag into video window, you can view corresponding plate no. plate color vehicle color, speed vehicle passing under the snaoshot location. See

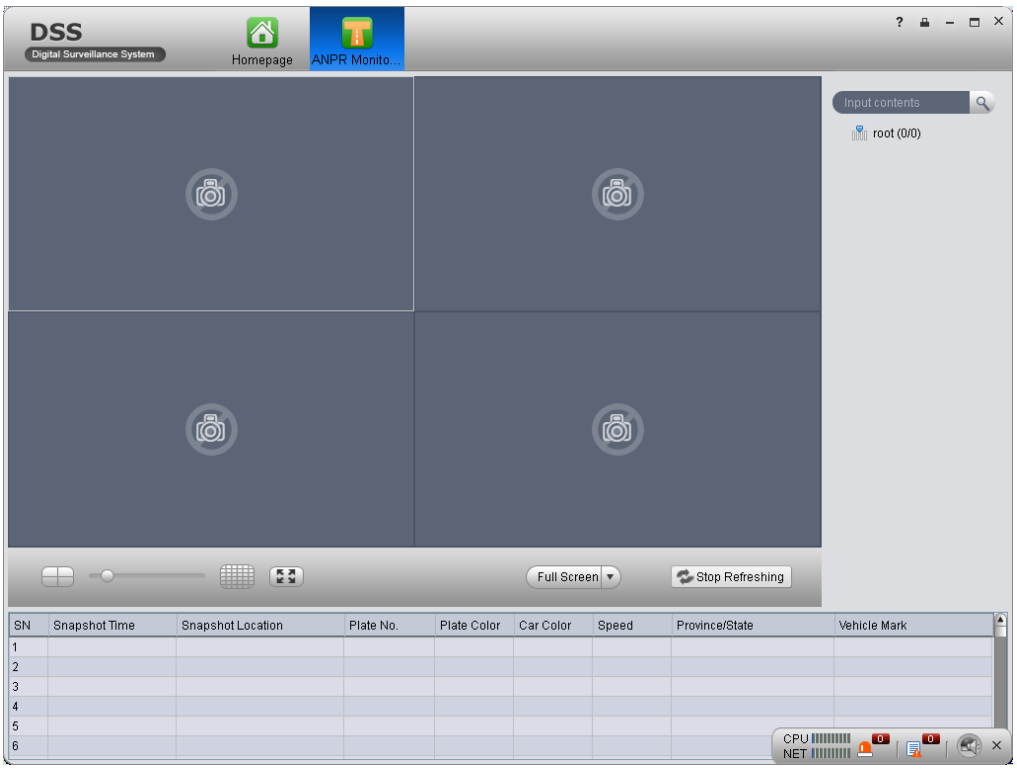



Figure 6- 1

## 6.2 Vehicle Search

DSS supports search and statistics of all history of vehicle under ANPR monitoring by start time, end time, snapshot location, plate no. vehicle type.

Step 1. In Extension area, click .

Step 2. Input filter, click . System will show search resule in format of list, chart and statistics. See Figure 6- 2.

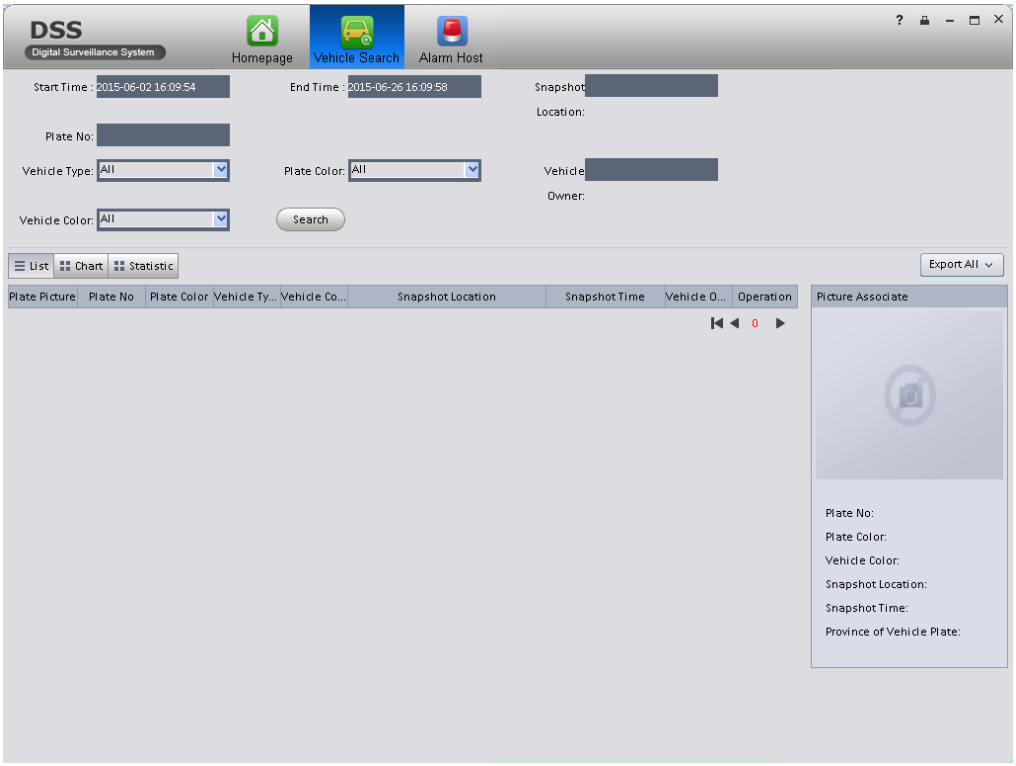



Figure 6- 2

## 6.3 Alarm Host

Click , system shows Alarm Host interface.

Alarm Host interface shows all added alarm host device and zone, the shown device status includes online, offline, alarm, bypass, arm and disarm. You can filter device by status.

Note:

You shall add alarm host deivce on DSS Manager-end before you can view alarm host info on Client. Please refer to Ch 6.2.4 in DSS Manager User's Manual.

On the right, select different alarm hosts which lead to different zones. Select root, to show all zones. See Figure 6- 3.

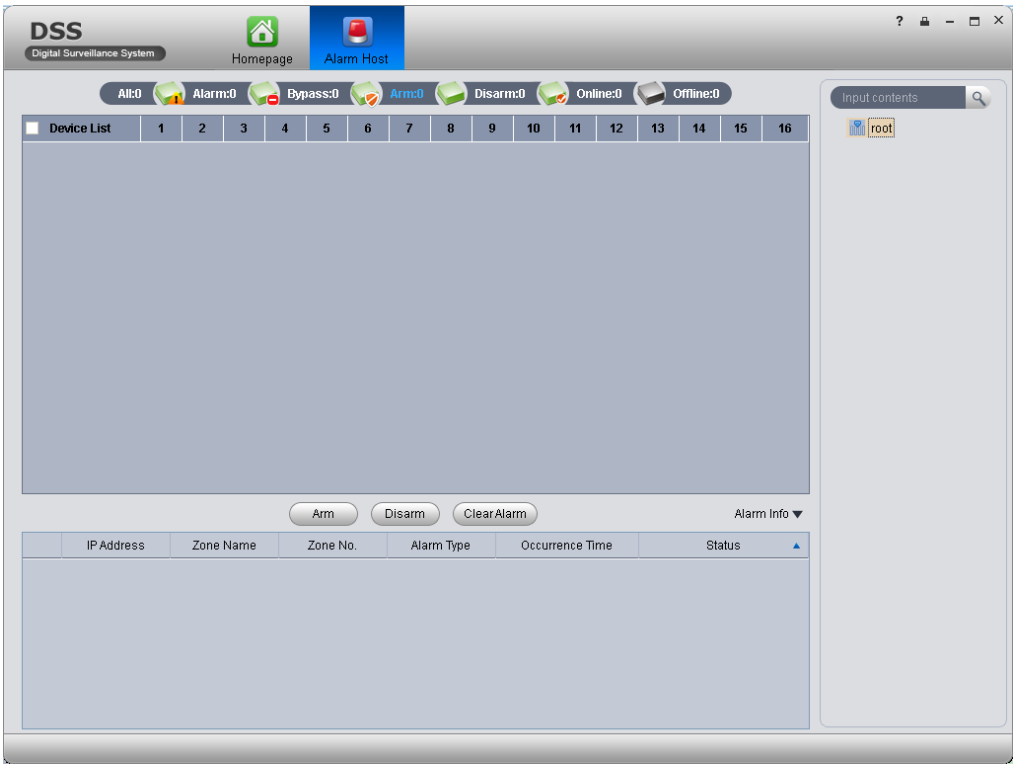



Figure 6- 3

You can batch select device and zone to arm and disarm. Double click zone, to view zone details and monitoring video. Double click alarm info, system pops up alarm details page.

You can view current live preview and record video, and process current alarm. Processing status includes processed, pending, in progress, miss-alarmed and ignored. Processes status will be shown in status in alarm info list.

## 6.4 Access Control

Access Control interface shows all added access control device status including online, offline, alarm, unlock and lock. You can filter device according to status.

Note:

You shall add access control device on DSS Manager first before you can view alarm host info on Client. Please refer to Ch 6.2.4 in DSS Manager User's Manual.

Step 1. In Extension area, click .

Step 2. On the right, select different access control device to show unlock/lock info, door sensor alarm and over time alaem of different access controls.

See Figure 6- 4.

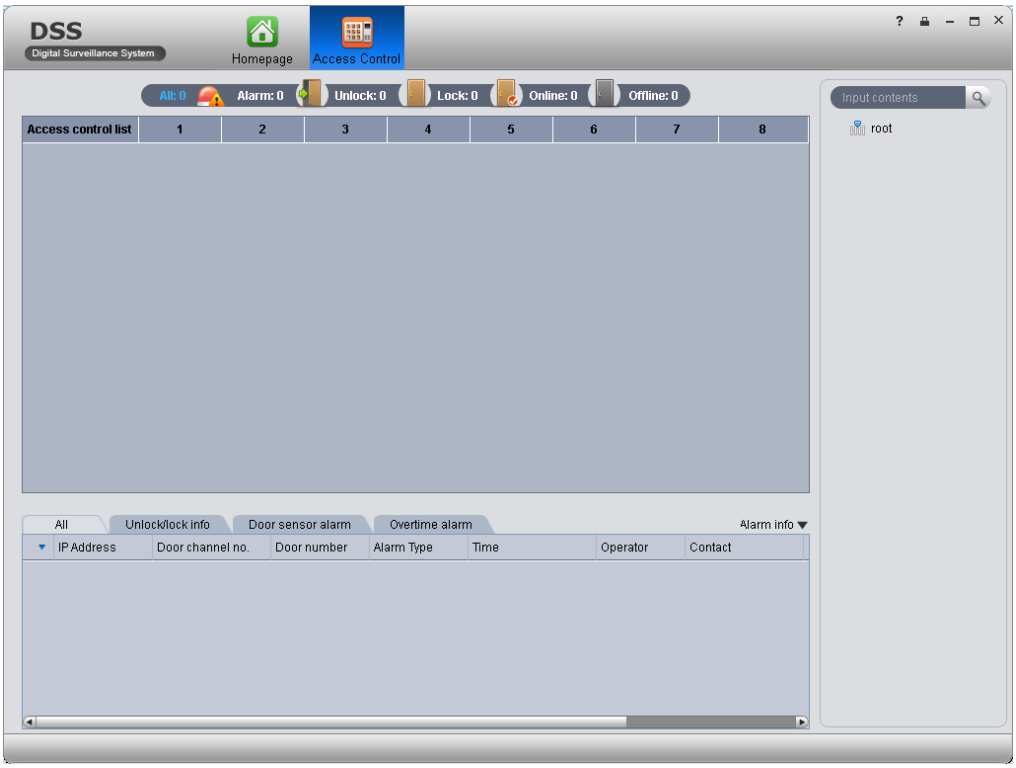



Figure 6- 4

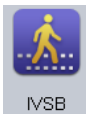
You can click device channel with root node on device tree to control switch of access control.

## 6.5 Behavior

Behavior function is to analyze behavior of people or object that goes into armed zone. If analysis result matches the rule, then system will alarm.

Note:

Before behavior analysis, you shall add IVS-B device in General>Device>IVS in DSS Manager-end. Please refer to DSS Manager User's Manual Ch 5.2.3.

Step 1. Click 

in Extension area. System shows IVSB interface where only IVS-B device will be displayed.

Step 2. Drag device on the right into video window. When corresponding behavior is done in zone, system will detect and analyze.

## 6.6 Face Recognition

Face recognition is to recognize face in zone and display snapshot face.

Note:

Before face recognition, you shall add IVS-F device in General>Device>IVS in DSS Manager-end. Please refer to DSS Manager User's Manual Ch 5.2.3.

Step 1. Click

in Extension area. System shows IVSF interface.
Step 2. Drag device on the right into video window.
Step 3. Click below, system will display snapshot face.

## 6.7 Smart Track

Smart track is to track people or object that goes into ruled zone.
Note:
Before behavior analysis, you shall add ISD device in General>Device>IVS in DSS Manager. Please refer to DSS Manager User's Manual Ch 5.2.3.

Step 1. Click

in Extension area. System shows ISD interface.
Step 2. Drag device on the right into video window.
Step 3. Click below to enable smark track function. When people goes into the zone, system will automatically track him.

## 6.8 People Counting

People counting is to count number of people in the ruled zone.
Note:
Before behavior analysis, you shall add IVS-PC device in General>Device>IVS in DSS Manager-end. Please refer to DSS Manager User's Manual Ch 5.2.3.

Step 1. Click

in Extension area.

Step 2. Drag device on the right into video window. People count will be shown in the upper left. See Figure 6- 5.

Figure 6- 5

Step 3. Click Statistics tab.
Step 4. Select target, statistics unit and statistics range.
Step 5. Click Statistics Start. System shows results.

## 6.9 Master/Slave Tracking

DSS has master/slave tracking, auto PTZ link and supports fixed point tracking and fixed target tracking.

Step 1. Click IVSM in Extension area.
Step 2. Drag device on the right into video window. Camera detects target and triggers alarm rule, then speed dome starts to track.

## 6.10 Video Diagnosis

Video Diagnosis is to diagnose abnormal video such as brightness, low illumination, color difference, contrast, definition, video loss and etc.

Step 1. In Extension area, click .
System shows Video Disgnosis>Abnormality Analysis tab by default. See Figure 6- 6.

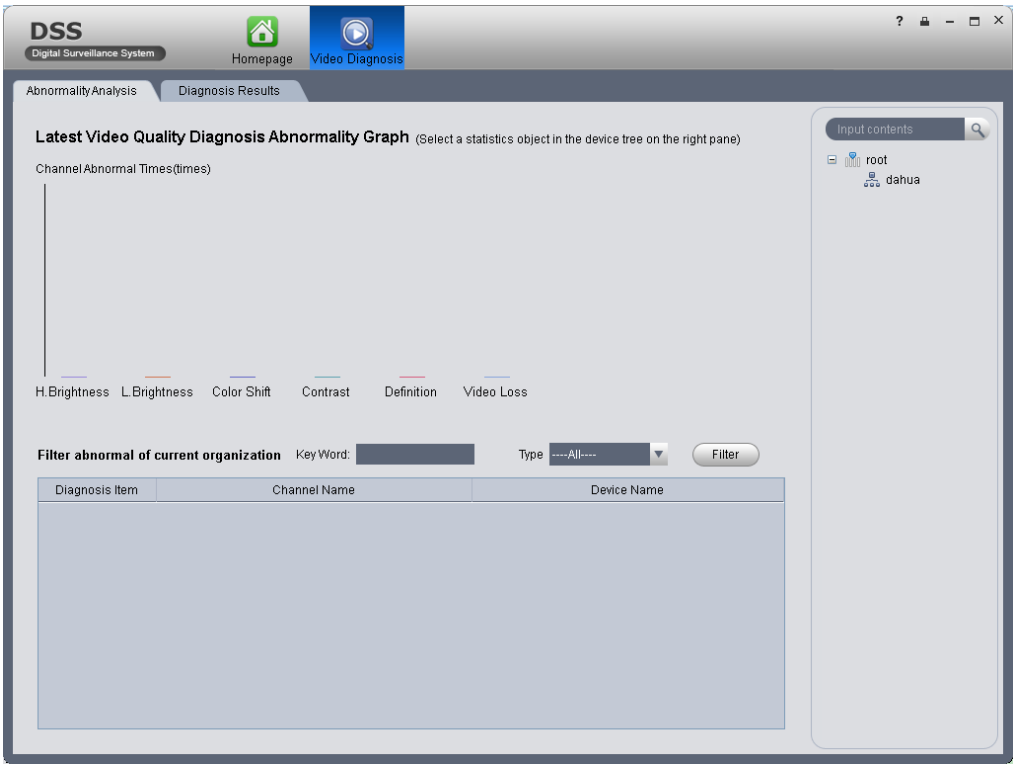



Figure 6- 6

Step 2. Click Diagnosis Result tab, to view all contents of video diagnosis. See Figure 6- 7.

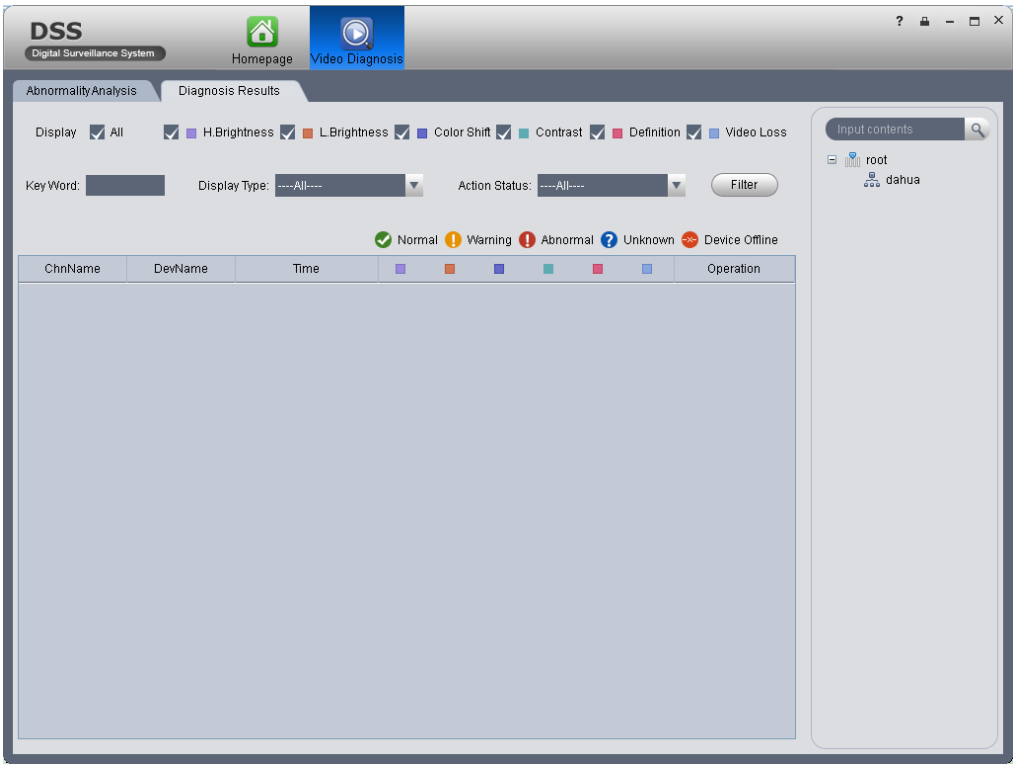



Figure 6- 7

Click : video diagnosis.

Click : play video.

Click : playback record.

## 6.11 Record Mark

If you have marked record, you can quickly search record with the mark, and you also can playback, edit and delete the record. Please refer to Ch 5.2.3.

To search marked record:

Step 1. In Extension area, click . System displays Recrd Mark interface.

Step 2. In device list, select channel, time, and input mark name.

Step 3. Click Search Mark. System shows search result, see Figure 6- 8.

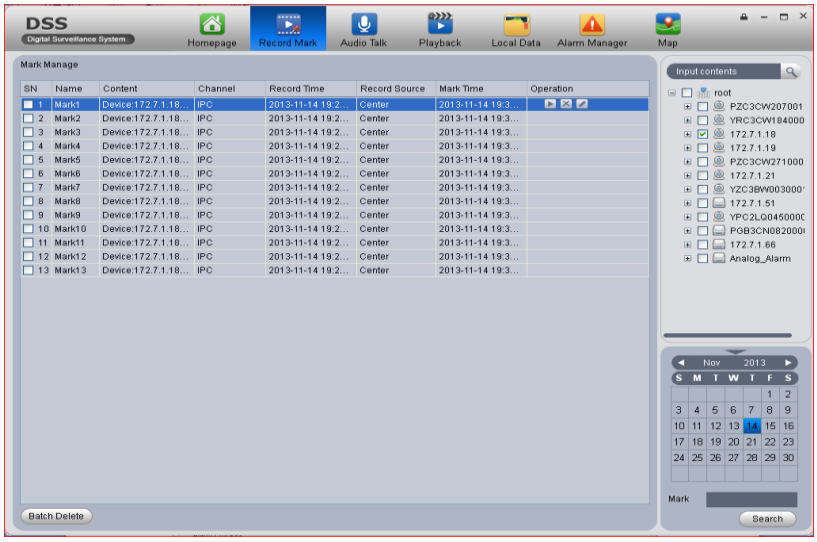



Figure 6- 8

Step 4. Check multiple marked records, and click Batch Delete to delete checked records.

Click to play record.

Click to delete record.

Click to edit.

## 6.12 Record Lock

Record lock is to lock record for unlocking and playing.

Step 1. Click Record Lock in Extension area. System shows Record Lock interface.

Step 2. In device list, select Channel, Start Time, End Time and Enter Lock Reason. Click Search to search lock record. See Figure 6- 9.

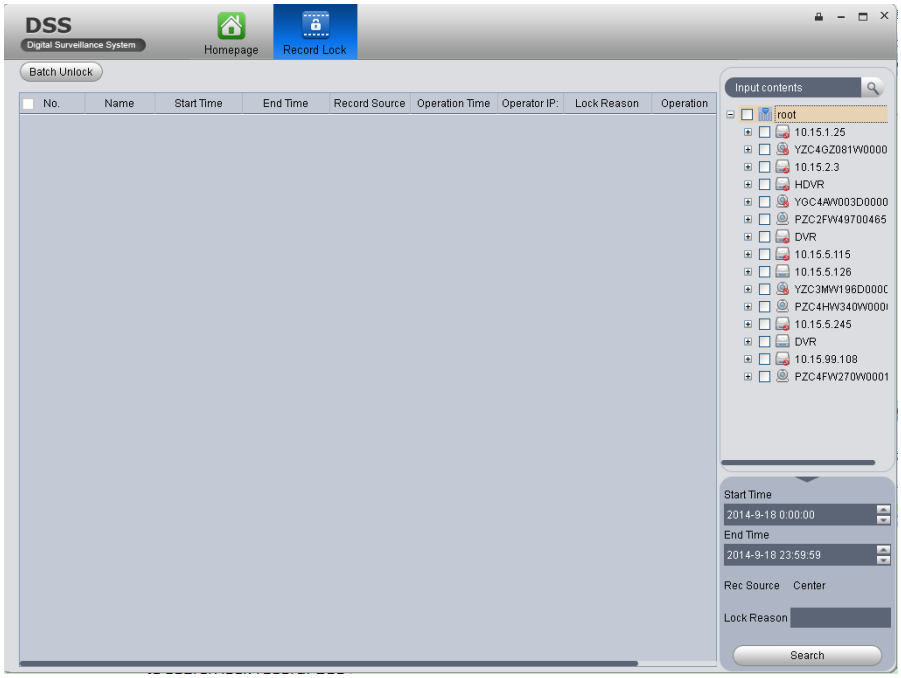



Figure 6- 9

Step 3. Select channel, click to unlock multiple records at once.

Click to play record.

Click to unlock record.

## 6.13 ANPR Search

### 6.13.1 Vehicle Search

DSS Client supports search for snapshot taken by ANPR device according to setup time, period, location, plate no. and etc.

Note:

The system supports filter of plate no. Thus if you check Exclude next to plate no., and input plate no. in the Exclude field, then vehicle with this plate no. will not be searched out.

Step 1. Search Vehicle Search>General.

Step 2. Input search time.

Step 3. Check Fuzzy Search if you want to search without specific filter info.

Step 4. Click Search. See Figure 6- 10.

Place mouse onto associated image on the left, you can zoom in image. The zoom in part will be shown on the right. You also scroll mouse to zoom in/out.

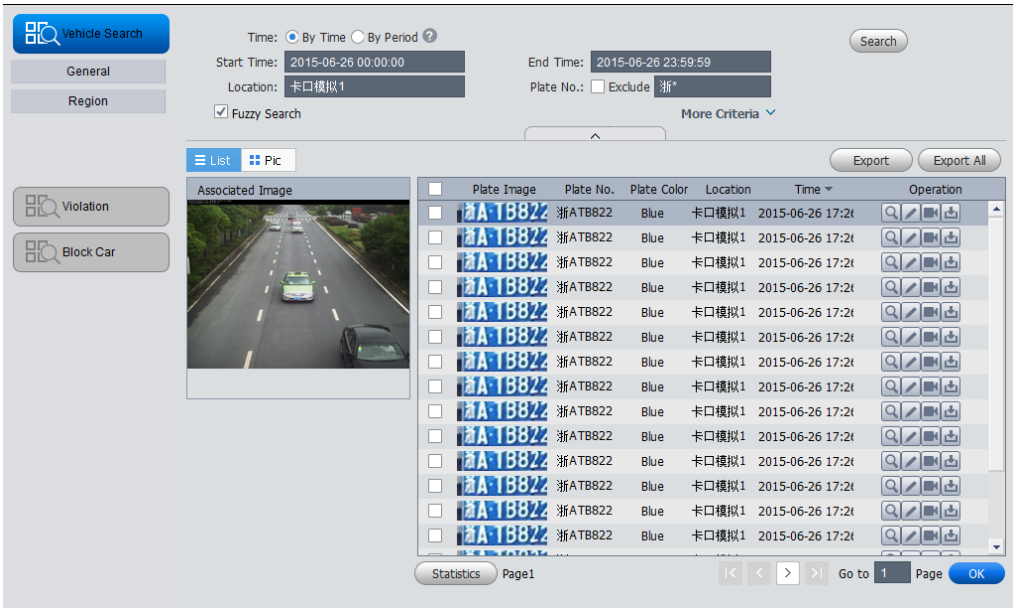



Figure 6- 10

批注 [U1]: 图里全是中文车牌

Press up, down, left and right keys on keyboard, you can view previous, next, previous page and next page of record.

You also can fuzzy search, view vehicle details (bypass info, violation info and pattern), edit vehicle info, view image linked video, pattern and download the record. Please refer to Ch 2.4.

### 6.13.2 Region Search

Region search is to search vehicle that passed a certain location within a certain period, or a or some specific vehicles passed different locations within different periods.

Step 1. Select Vehicle Search>Region.

Step 2. Select snapshot location. If you have not set snapshot location, then system will select all by default. You must add ANPR device on Manager-end first before you can select snapshot location here.

Step 3. Set period.

a) Click text box next to snapshot time.

b) Set snapshot period. See Figure 6- 11.

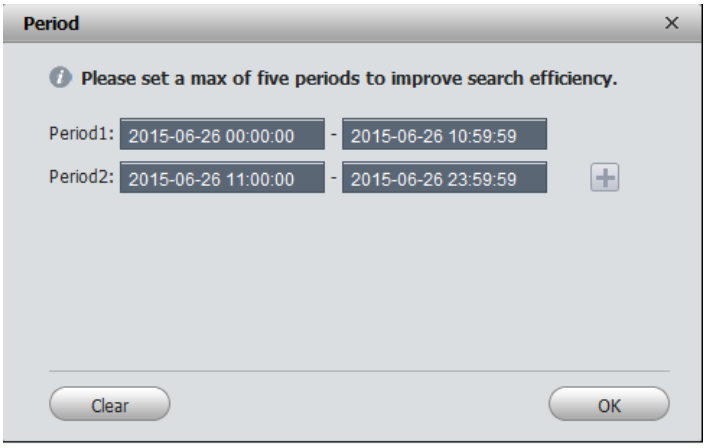



Figure 6- 11

Note:

Click to add period.

c) Click OK.

Step 4. Click Search.

### 6.13.3 Violation

DSS Client supports search for violation vehicle according to time, period, plates no. and etc and verify these violation records, copy violation record to violation database.

Step 1. Select Violation>Violation..

Step 2. Select by time or by period, input start time, end time, snapshot location and etc.

You click More Criteria to fill in more criteria.

Step 3. Click Search. See Figure 6- 12.

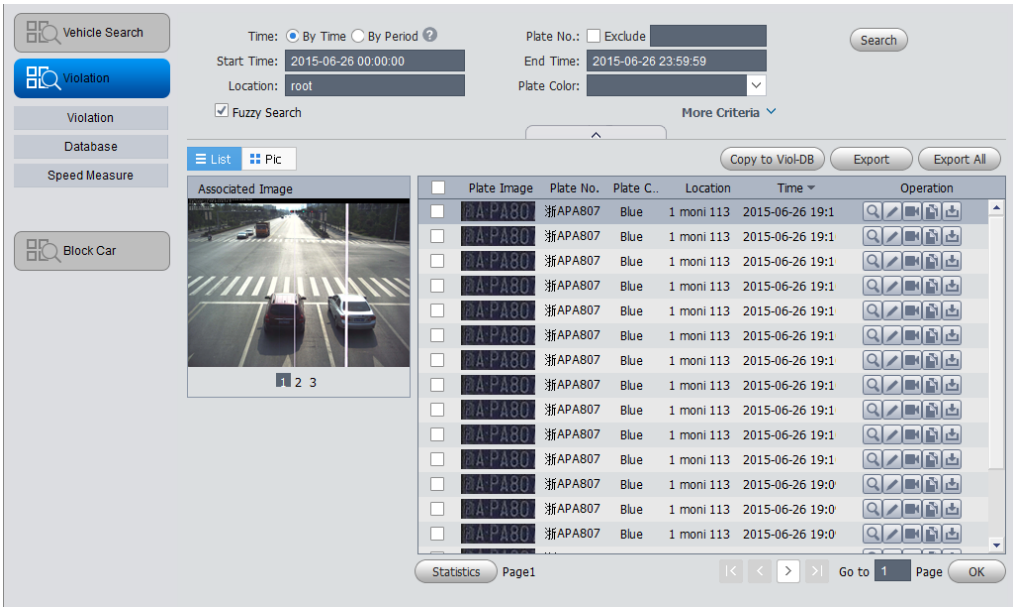


Figure 6- 12

You can view vehicle details (bypass info, violation info and pattern), edit vehicle info, view pattern of the vehicle, copy record to violation database and download the record. Please refer to Ch 2.4.

Step 4. According to search result, verify violation of the vehicle.

Step 5. Click , copy the violation to database.

You also can click Copy to Viol-DB to do so.

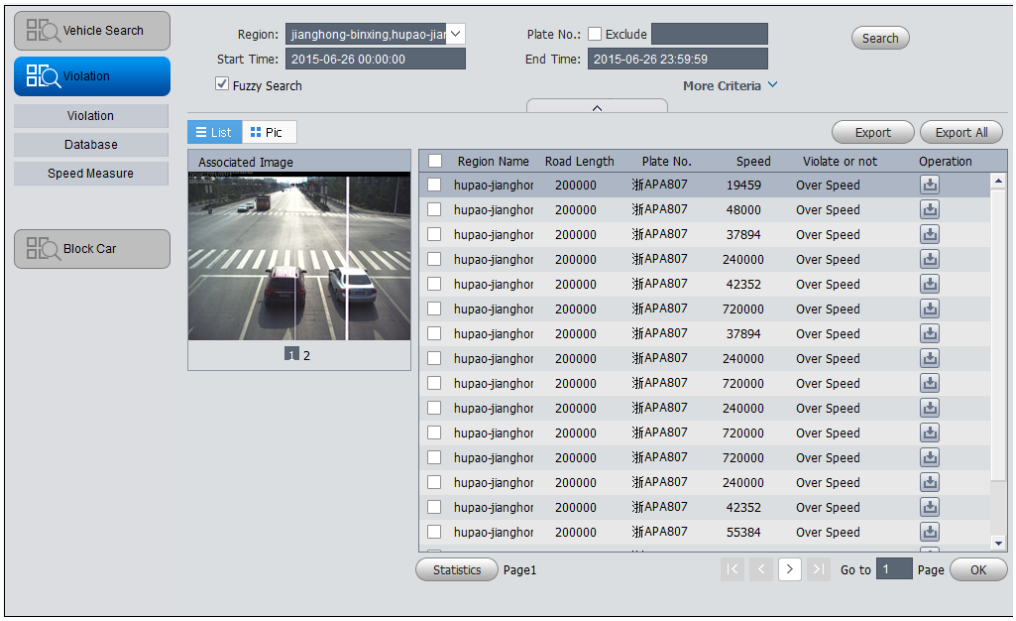



Figure 6- 13

You also can view vehicle details (bypass info, violation info), edit vehicle info, view image linked record and download the record. Please refer to Ch 2.4.

### 6.13.4 Database Search

DSS Client supports search for violation record that has been verified according to time, period, plate no., snapshot location and etc.

Note:

You must search violation record in violation search, and copy it to violation database first.

Step 1. Select Violation>Database.

Step 2. Select by time or by period, input start time, end time, snapshot location and etc.

You click More Criteria to fill in more criteria.

Step 3. Click Search.

You also can view vehicle details (bypass info, violation info), edit vehicle info, view image linked record and download the record. Please refer to Ch 2.4.

### 6.13.5 Speed Measure

If you have configured ANPR region on Manager-end, then you can search over speed or low speed vehicle on Client according to snapshot region, plate no. and etc.

Note:

Before you can select ANPR region on Client, you must configure ANPR region on DSS Manager. Please refer to Ch 7.7.3.

Step 1. Select Violation>Speed Measure.

Step 2. Select region snapshot, input plate no., start time and end time.

If you do not input plate no., then system will select all by default.

Step 3. Click Search. System shows result.

### 6.13.6 Block Car

After you set arming, you can search arming alarm info. DSS Client supports the search, view, edition, download and import/export of arming alarm.

Select Block Car>Block Car Alarm, input corresponding criteria, and click Search. The result is shown in Figure 6- 14.

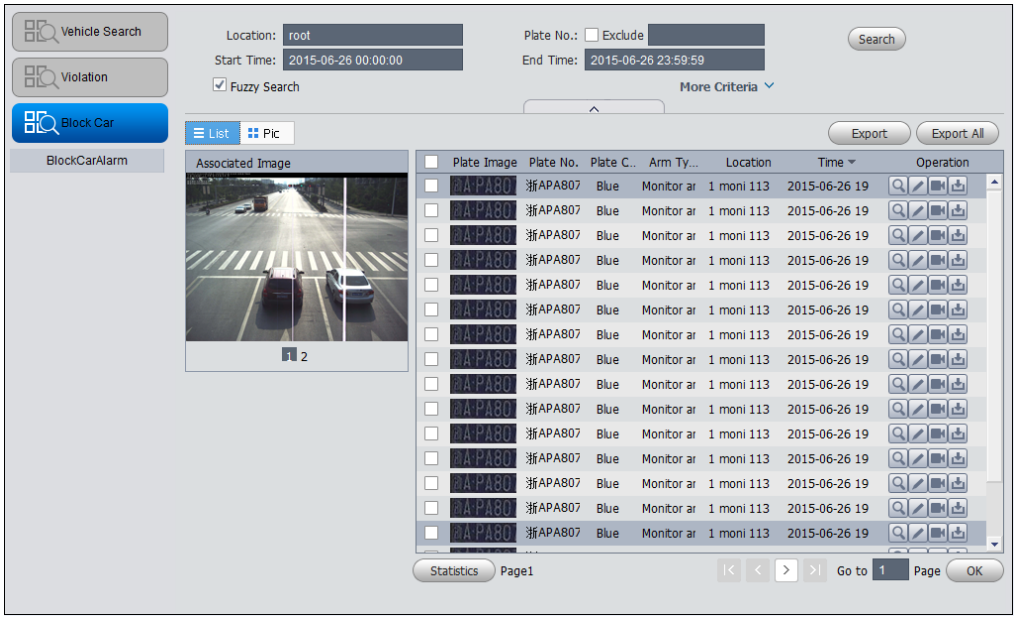



Figure 6- 14

# 7 WEB

DSS supports B/S format client. Via login WEB Manager, you can set local config, preview, playback, TV wall and E-map.

## 7.1 Login WEB

**Note:**

**Before web login, you must add user in DSS Manager: General>Account, and add preview, playback, download, PTZ and etc. and add system rights to the role of this user. Please refer to DSS Manager User's Manual's Ch 6.**

To log in WEB:

Step 1. In Internet Explorer, input IP address of DSS, and press Enter. System shows login interface as in Figure 7- 1.

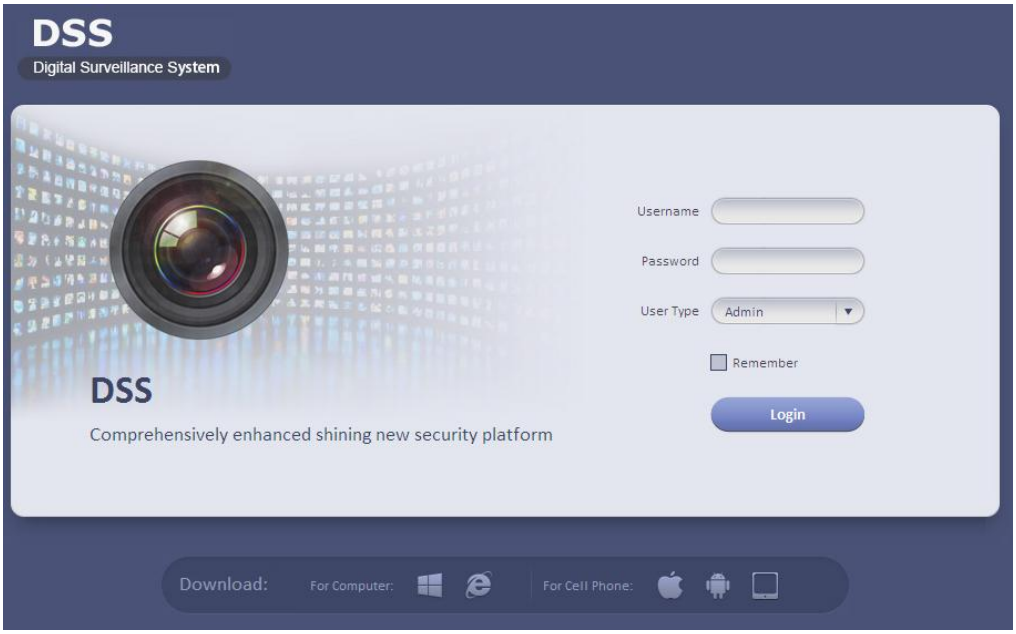



Figure 7- 1

Step 2. Click , system prompts to download Plugin.exe.

Step 3. Download and install Plugin.exe.

Step 4. In Internet Explorer, input IP address of DSS, and press Enter.

Step 5. In login interface, input username and password. Select user type as Operator.

Step 6. Click Login. See Figure 7- 2.

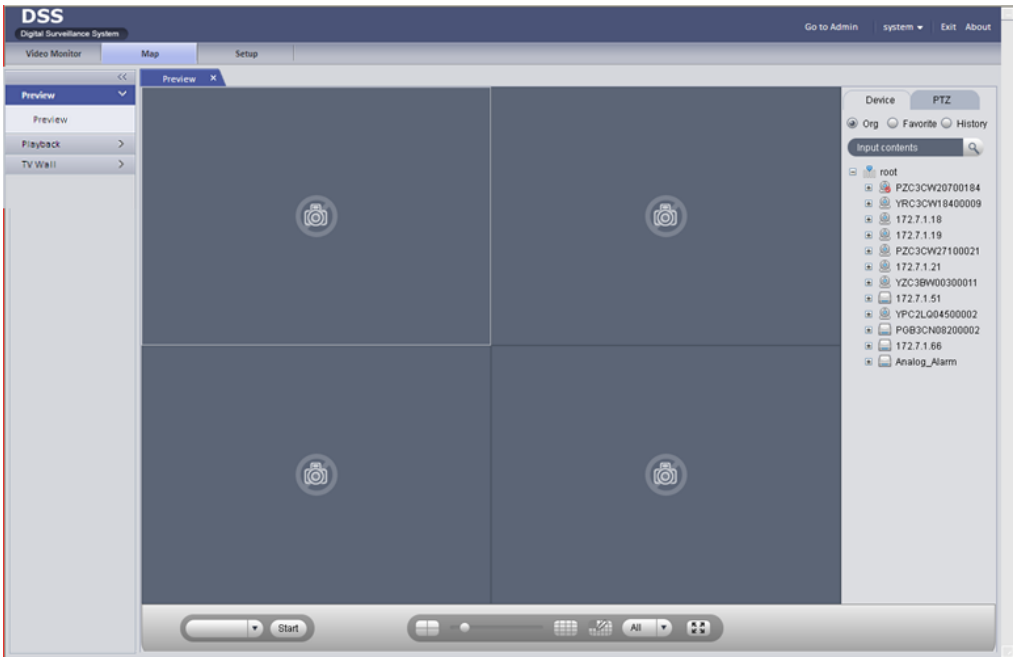



Figure 7- 2

## 7.2 Setup

Please refer to Ch 4.1.

## 7.3 Video Monitor

### 7.3.1 Preview

Please refer to Ch 5.1.

### 7.3.2 Playback

Please refer to Ch 5.2.

### 7.3.3 TV Wall

Please refer to Ch 5.5.

## 7.4 Map

Please refer to Ch 5.3.

**Note:**

- **This manual is for reference only. Slight difference may be found in the user interface.**
- **All the designs and software here are subject to change without prior written notice.**
- **All trademarks and registered trademarks are the properties of their respective owners.**
- **If there is any uncertainty or controversy, please refer to the final explanation of us.**
- **Please visit our website or contact your local service engineer for more information.**