

# **DvrClient**

## **Software Operation Manual**

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# 1 Product introduction

## 1.1 Import statement

Thank you for using this DvrClient series product. Please read this manual carefully before installing this application software.

This software version is under continual improvement and we reserve the right to make change without notice.

### Exemption Clause

We have tried our best endeavors to ensure the information contained in this manual is accurate, complete and up-to-date, we makes no representation as to its accuracy or completeness and expressly disclaims any liability whatsoever for any loss howsoever arising from or in reliance upon the whole or any part of such information

Read this manual carefully before using this software, we do not undertake any responsibility for the harms and losses caused by using this product incorrectly.

## 1.2 Software Instruction

After installing and running the program, recording and capturing images, system will keep the relative files to below specified path.

### 1.2.1 Software Installation Directory

Software defaulted installation directory should be C:\ Program Files\Video client, and user also can specify a particular installing path during the installation processing.

### 1.2.2 Record storage Directory

Recorded file will be kept to drive D firstly. And then once drive D is full, the record fill will auto convert to next drive. When all the drives except drive C is full, system will automatically overwrite the earlier recorded files starting from drive D

**Note: User can set how many days recorded file can be saved as per actual request. And install enough HDD to guarantee record storage space.**

When record is activated, system will auto generate one storage file. And all the local and remote record files will be stored into the file (D:\Recordfile and \RS Record File\).

## 1.3 Application environment

Before installing the DvrClient software, please make sure your system configuration meets the following recommended minimum hardware requirements.

CPU	Intel Pentium 4 or higher, minimum 3.0GHz
RAM	Minimum 2G
Graphics Adapter	Ge-force 4, AG memory 612 MB or higher
Operation system	Windows XP professional/Vista, Windows 7
Software provided	DirectX 9.1 or higher
Hard disk space for install	Minimum 10 GB

## 2 System overview

### 2.1 System structure

The software includes two isolated sub-systems. After installing and running the two sub-systems, system will be easier to perform live media data storage, display, transfer and back-up etc.

- **Local server**

Local server is acting as a core for data-gathering, video management and auto control of the whole security system, and monitor and record relative data of camera/alarm and system running status.

- **Remote server**

User could monitor and record the real-time video, set relative data of external device (such as camera, alarm etc), control external devices and record system operational database and realize auto-control for the whole security system from a remote server.

### 2.2 Usage management

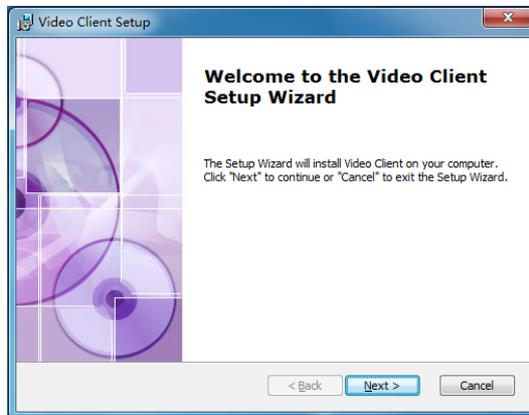
According to the functionality and characters of this software, we strongly suggest:

- All operators should proceed basic operation training to avoid any wrong operation
- You should establish user management and grade system to shelter operation authority of low level user.

# 3 Install and Un-install

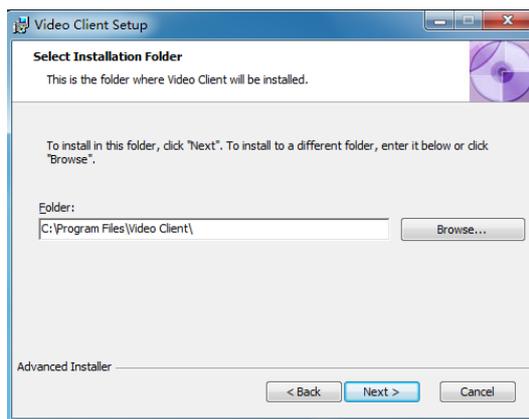
## 3.1 Software installation

- 1 Double-click to run Video\_Client.exe on your computer, and system will show below windows



Picture 3-1

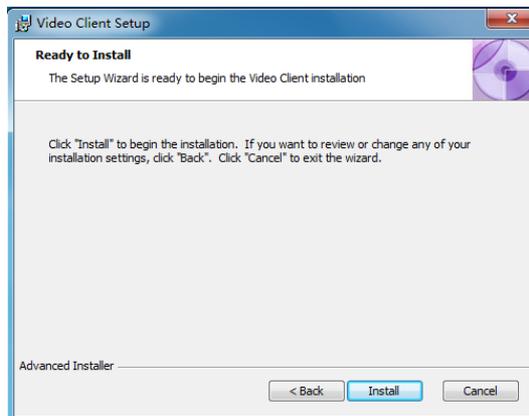
- 2 Click [Next >] to enter into the below window:



Picture 3-2

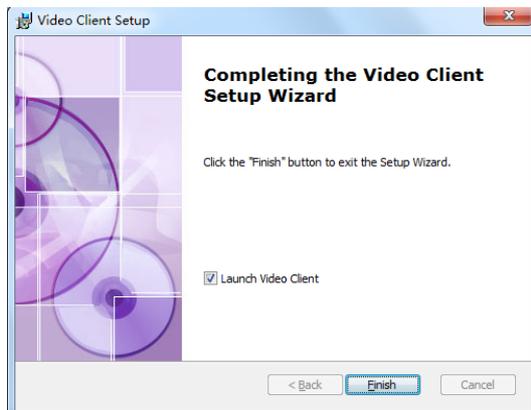
Installation route is faulted to C:\Program Files\Video Client\. If you want to change the installation route, pleas click [Browse...] button to specify a location again and click [Next>] button to continue.

- 3 Click <Install> button to start the installing process.



Picture 3-3

- 4 Wait for the processing to complete, and then click [Finish] button to exit the installation program



Picture 3-4

## 3.2 Software un-installation

**Note :** Please backup all the files stored at `\Program Files\Video Client` before un-installation so as to retrieve relative settings, images and Log information after installing the software next time.

If user need to un-install the software, please enter into [start→setting→control panel→add/delete program] to un-install the software.

User could also run File Un-installation Program to un-install. Details as follows:

1. Click [Start→Programs→Video Client→Uninstall] to pop up the below window



Picture 3-5

2. Click [Yes] button to continue.
3. Wait for the un-installation processing to complete, and then click [Finish] button to exit the un-installation program.

**Note:** If you want to install the software again, please un-install (or delete) previous user name, password and device name, that is to say, please manually delete the files in the `C:\Program Files \ Video Client`.

## 4 Configuration and operation

The chapter will introduce DvrClient's detailed parameters and configuration.

## 4.1 Starting and registering

### 4.1.1 Starting the DvrClient

After successful installation, system will generate a shortcut menu – **DvrClient**- on the PC desk. Double click the Shortcut icon, or enter into [Start→Program→Video Client→DvrClient] to run the program.

Please click the [DvrClient] icon on the desk to enter into the window shown as Picture 4-1.

When the program is activated firstly, please do register one administrator.



Picture 4-1

User name: supports up to 12 characters.

Password: supports up to 24 characters

Confirmed: should be equal to Password and all the password can't enter special characters.

After customizing administrator and password, system will enter into below CMS main interface shown as Picture 4-2.



Picture 4-2



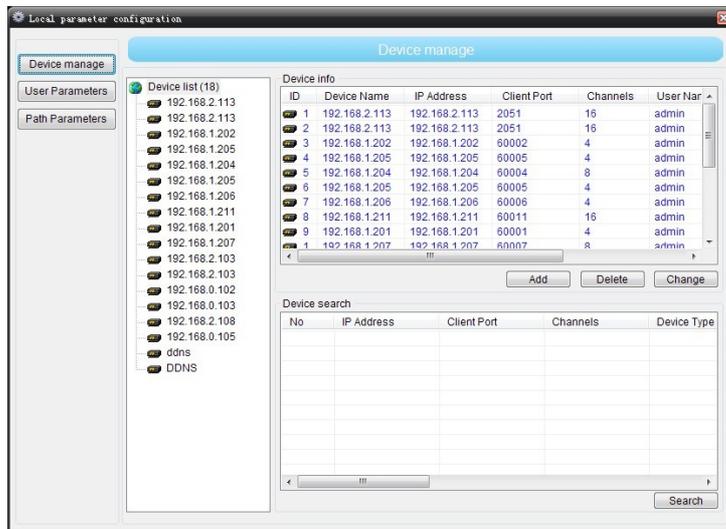
Picture 4-3

Click [🔒] icon to lock the interface, and click [🔓] to enter into the [user unlock] dialog window. Enter password to unlock the interface shown as Picture 4-3.

Click [🆘] icon to display the software version information.

## 4.2 Configuration

After successful registration, click [ Config ] to enter into the window shown as Picture 4-4.



Picture 4-4

### 4.2.1 Add Device

Right-click the [Device List] to enter into [Add device] option shown as Picture 4-5, and then you are allowed to pop up the window shown as Picture 4-6.



Picture 4-5

Or click [Add] to pop up the below window shown as Picture 4-6

Device	<input type="text"/>	Device IP	<input type="text"/>
Port	9000	Channels	16
User Name	admin	Password	*****
Area Name	Device list	Auto Login	Disable

OK Cancel

Picture 4-6

1. Input below device information:

- Device: customize device name;
- Device IP: input the IP address you need to add
- Port: input the media port for the DVR.
- Channels: input the channel number of current DVR.
- User name: input the administrator of DVR

- Password: input the administrator’s password
- Auto Login: If set to “Enable”, system will auto login to DVR once DvrClient is opened, otherwise, you need to manually register the DVR.



Picture 4-7

2. Click [Ok] to end the [Add] processing.
3. Follow the above step 1~2 to add more DVRs.

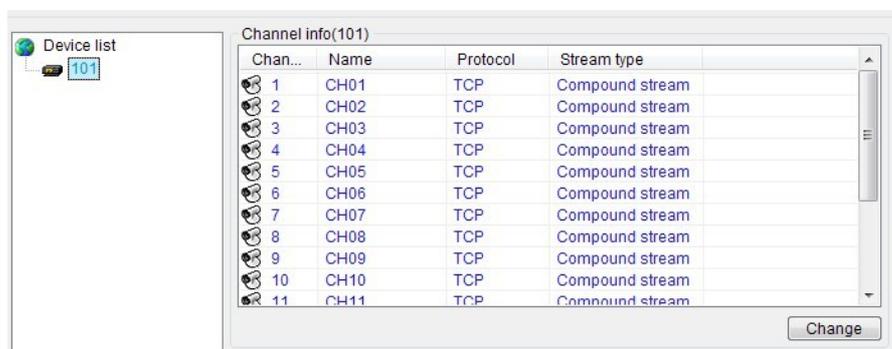
Below Picture 4-8 display you have successfully added DVR 101.



Picture 4-8

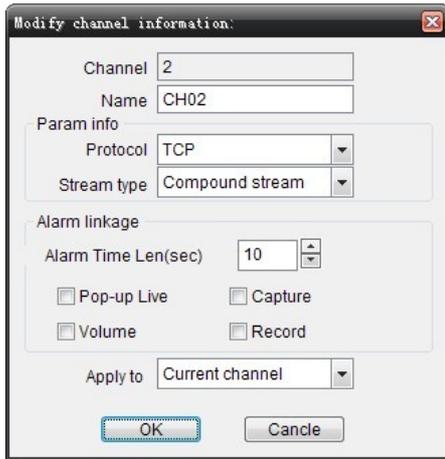
4. Change channel information

Click [DVR 101] on the left and channel info(101) appear in the screen shown as Picture 4-9.



Picture 4-9

Double-click any one channel, or select one channel and click [Change] to enter into the window shown as Picture 4-10.



Picture 4-10

Channel	Indicate the channel no. you could not modify this item under this menu.
Name	Indicate current channel name. allow you change the name.
Protocol	Select its protocol of the channel: TCP and UDP optional (If Device connected to Dvr Client via router, the router must support two network protocols.
Stream Type	Select the stream type of the channel. Compound Stream and video stream optional

About alarm linkage:

Pop up Live	Allow you pop up live alarm images.
Alarm time Len	Allow you set alarm time, and time format is Minute (1~60 minute)
Capture	Allow you auto-capture images and save the images to a specified file when alarm occurs.
Volume	The buzzer will sound when alarm is triggered. (Details please refer to Section 4.4)
Record	The channel will auto record when alarm is triggered.
Apply to	Allow you apply above parameters to current channel or all other channels.

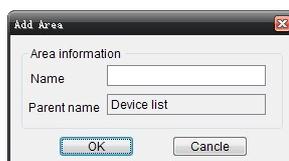
### 4.2.2.2 Add Area

(1) Add area

Right-click [Device list] icon and enter into [Add area] item shown as Picture 4-11.



Picture 4-11



Picture 4-12

Click [Add area] to pop up below window shown as Picture 4-12; Input area name and click [Ok]



Picture 4-13

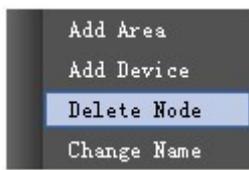
You can find that <Area-22> have been added shown as Picture 4-13

(2) Add Device

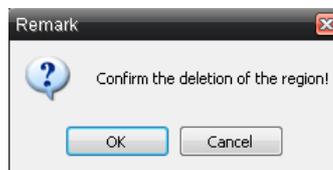
Herein allow you add device at this area. Details please refer to Picture 4-7.

(3) Delete Node

Firstly select one node and right-click mouse to pop up the window shown as Picture 4-14. Then Click<Delete Node> option and then click <Ok> to confirm the deletion of the region.



Picture 4-14



Picture 4-15

(4) Change Name

Highlight the device list and right-click mouse to enter into <Change Name> option, now system will pop up below window shown as Picture 4-16.

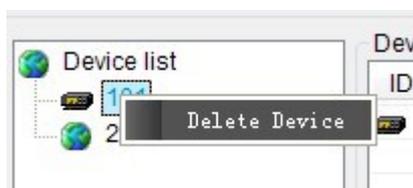
You are allowed to customize the area name



Picture 4-16

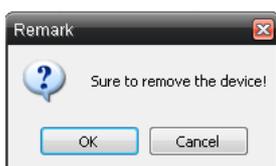
## 4.2.2 Delete Device

There are two methods to delete device, including:



Picture 4-17

1. Select one node/DVR from <Device List> and right-click the mouse to enter into <Delete Device> option shown as Picture 4-17.

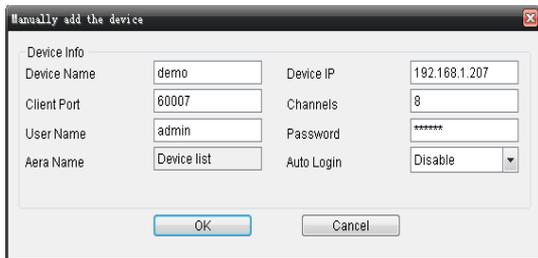


Picture 4-18

2. Click <Delete> button to delete the DVR/node you have selected, then system will pop up the dialog window shown as Picture 4-17. Click <Ok> to sure to remove the device.

### 4.2.3 Change device

**Note:** Not allow you change device information unless you have exited the device.

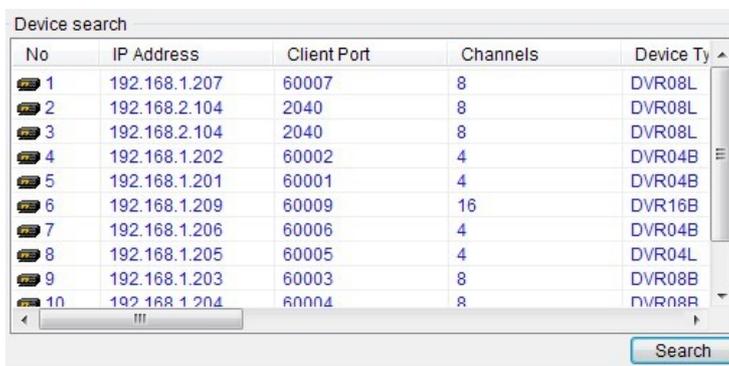


Click [ **Change** ] button to pop up the window shown as Picture 4-19. After changing the relative information, click [Ok]

Picture 4-19

### 4.2.4 Search

Click [ **Search** ] button to search all the DVRs within the same LAN (shown as Picture 4-20).



Picture 4-20

Select one DVR and double click it and you are allowed to enter into below interface shown as Picture 4-21. Click <Ok> to add the DVR.



Picture 4-21

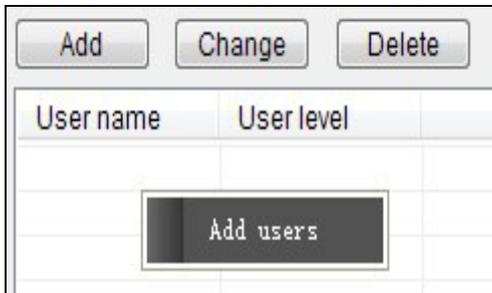
## 4.3 User Parameters



Picture 4-22

### 4.3.1 Add

Click <Add> button, or right-click the mouse and click [Add users] option to enter into <User Info> interface shown as Picture 4-23



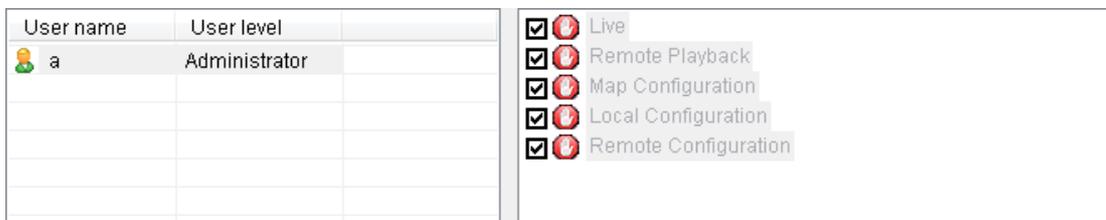
Picture 4-23



Picture 4-24

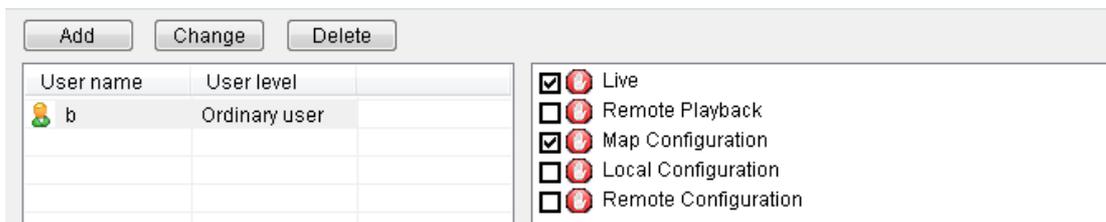
- User name: allow you customize user name and support up to twelve characters.
- Password: allow you customize password and support up to 24 characters (no permit to all enter special characters)
- Confirm: equal to user password
- User level: include Administrator and Ordinary User.

Administrator is defaulted to have all the rights (Generic rights and channel rights) shown as Picture 4-25



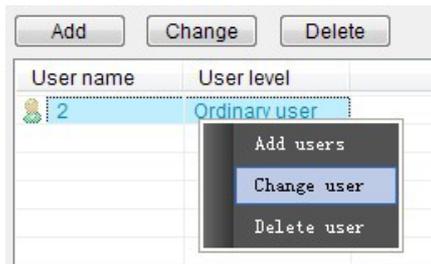
Picture 4-25

Administrator could allocate rights/authorities to Ordinary user as per request shown as Picture 4-26.



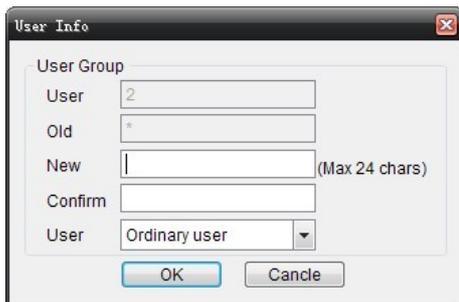
Picture 4-26

### 4.3.2 Change



Picture 4-27

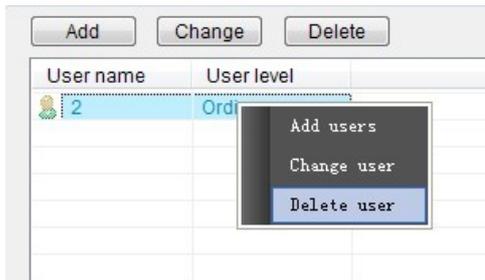
Herein allow you change user information shown as Picture 4-27.



Picture 4-28

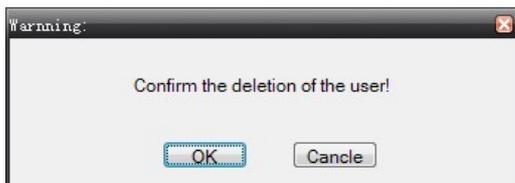
Click [Change] button or enter into [Change User] option, and then pop up the window shown as Picture 4-28.

### 4.3.3 Delete



Picture 4-29

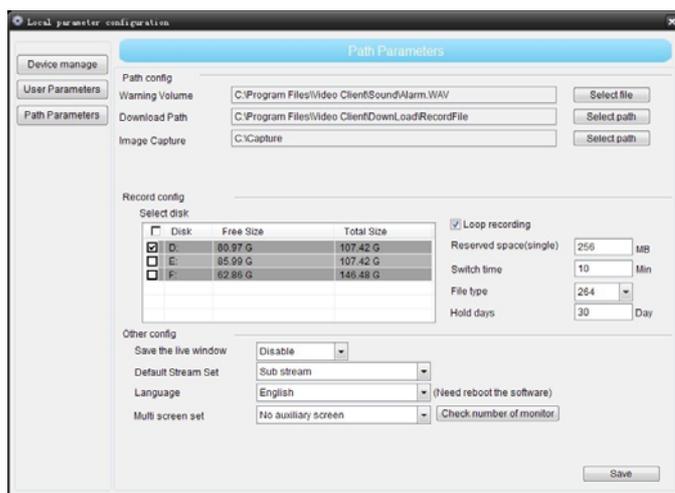
Delete user information: Select one user from the list and click [Delete] button to delete the user shown as Picture 4-29.



Picture 4-30

Clicking [Delete] button will pop up the left dialog and click [Ok] to confirm the deletion of the user shown as Picture 4-30.

## 4.4 Path Parameters



Picture 4-31

### 4.4.1 Path Configuration

The installing path for this program is defaulted to C:\Program Files\Video Client.

**Warning Volume** C:\Program Files\Video Client\Sound\Alarm.WAV (Select file)

: Herein allow you set warning volume to a specified path. Please note that Warning Volume must be with WAV format.

**Download Path** C:\Program Files\Video Client\DownLoad\RecordFile (Select path)

: Herein allow you download remote file to a specified path.

**Image Capture** C:\Program Files\Video Client\Capture (Select path)

: Herein allow you save captured image to a specified path.

### 4.4.2 Record Configuration

Disk Select (Picture 4-33)

Select disk			
<input type="checkbox"/>	Disk	Free Size	Total Size
<input checked="" type="checkbox"/>	D:	83.07 G	107.42 G
<input type="checkbox"/>	E:	90.39 G	107.42 G
<input type="checkbox"/>	F:	102.75 G	146.48 G

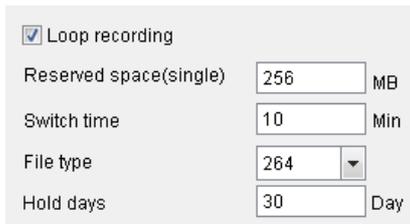
Picture 4-32

If you select all the disks, record files will be stored from starting drive D to last drive in turn.

When all the drives exclude drive C is full, system will overwrite the previous record files from drive D.

If you only select drive D, all the record files will be stored in the drive D, when drive D is full, system will automatically overwrite the early ones in the drive D.

Loop Record (Picture 4-34)



Picture 4-33

Loop Recording: If tick-selecting [Loop Recording] option, system will overwrite the old record files and continue to record when reserved space reach setting value; contrarily, If disabling the [Loop Recording] option, system will stop record when reserved space reach setting value.

**Reserved Space (single):** When reaching the setting value and tick-selecting <Loop Recording>, system will automatically overwrite the old files.

**Switch time:** indicate record package time and herein is defaulted to 30 minutes.

**File type:** indicate storage type of record file; generally include AVI and H.264 format.

### 4.4.3 Other Configuration

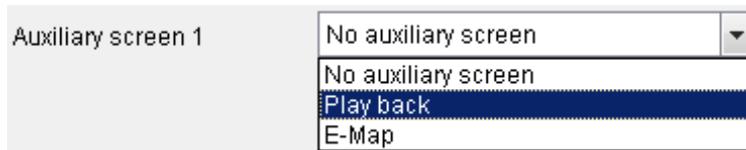
(1)  Save the live window : If enabling <Save the Live window> option, system will record/save current live window. System will automatically recover the live window when you register it next time.

(2) Default Stream Set Sub stream : select default stream set for remote operation, and allow you select main stream or sub stream.

(3) Language English (Need reboot player software) : Allow you select the language you needed. The above settings are available when you restart the program.

(4) Multi screen set : Upon the <Multi Screen Set> mode, you could select <No Auxiliary Screen>, <Play back> or <E-map> option.

- When selecting <Single Auxiliary Screen> option, allow you set Auxiliary screen 1 to display playback or E-map screen shown as Picture 4-34;



Picture 4-34

- When selecting <Double Auxiliary Screen> option, allow you set Auxiliary Screen 1 and Auxiliary Screen 2 to display playback or E-map screen shown as Picture 4-35.

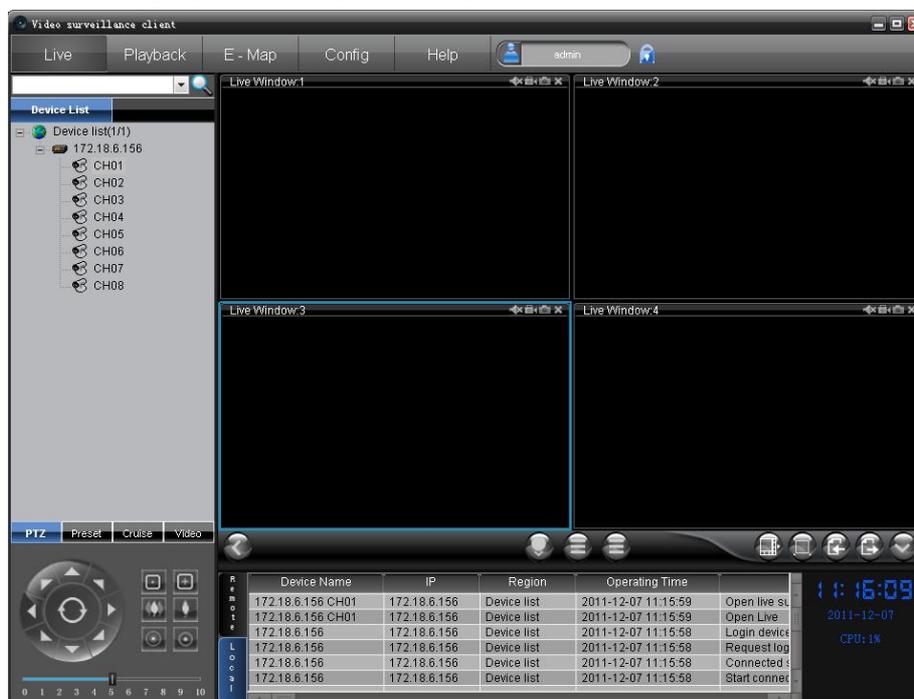


Picture 4-35

(5) **Check number of monitor**: Click <Check number of monitor> option to auto-connect to relative auxiliary screen. When externally connected to one auxiliary screen, system will be entered into Picture 4-34, and to two auxiliary screen, popped up picture 4-35.

## 5 Live Mode

The <Live> mode display as follows (Picture 5-1):

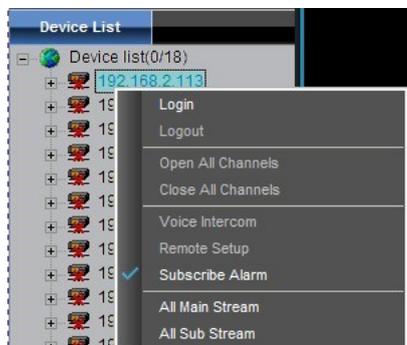


Picture 5-1

### 5.1 Device List

#### 5.1.1 Login and logout

Select one DVR and right-click mouse, and then click <Login> / <Logout> option to login / logout the device shown as Picture 5-2.



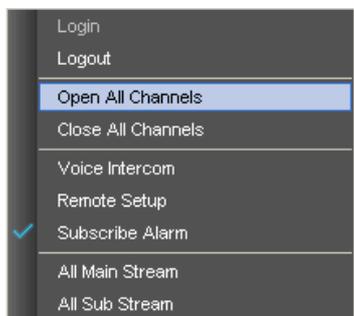
Picture 5-2

#### 5.1.2 Open / close all channels

User could control the whole system remotely via LAN and/or WAN.

Select one device/channels and right-click mouse, and then click <Open all channels> option shown as Picture 5-3 to preview its live window of channels shown as Picture 5-4; or select one device/channel and double-click the channel name to preview its live screen.

Click <Close all channels> shown as Picture 5-3 to close all the channels for the device.



Picture 5-3



Picture 5-4

### 5.1.2 Voice Intercom

Under the Live mode, right-click the mouse and select <Voice Intercom> option; and now you are allowed to talk back with the selected device.

### 5.1.3 Subscribe Alarm

Right click mouse to select <Subscribe alarm> option shown as Picture 5-3 (Motion detection / IO Alarm-Picture 5-5).

	Device Name	IP	Region	Alarm Time	Alarm Type	
Remote						
Local						

Picture 5-5

### 5.1.4 All Main Stream / All Sub Stream

Main stream is mainly used for video stream for the device, and also for network transmission; however, a large stream requires high network. Sub stream is mainly used for network transmission and have poor images; so sub stream is applicable for poor network conditions. You are defaulted to preview all the images under sub stream mode. If you have higher network, you could switch to main stream for preview.

Right-click device/channel and select <All main stream> or <All sub stream> option to change stream type of the selected device/channels shown as Picture 5-6.



Picture 5-6

Right-click the relative channel/camera and select <Main stream> or <Sub stream> option to change stream type of the channel shown as Picture 5-7.



Picture 5-7

### 5.1.5 Live tool-bar



Picture 5-8

Key brief describe as follows:

Key	Description	Key	Description
	Hide device		Open PTZ control mode
	Hide / open all the windows		Real time/Smooth level
	Select Split mode		Full screen mode
	Previous page / Next page		Hide / display alarm information

## 5.1.6 Live screen



Picture 5-9



Picture 5-10

Key	Description	Key	Description
	Volume on/off		Record on/off
	Capture		Stop playing

### Volume on/off

Highlight the selected image and click icon, or right-click the mouse and click <Volume> option shown as Picture 5-9; at this moment, the icon will appear in the screen.

### Record on/off

Highlight the selected window and click the icon, or right-click the mouse and click <Start record>. Now the icon will appear in the screen. And click icon again to stop recording.

### Snapshot

Under the <Live> mode, select one window which is playing and click icon, or right-click the mouse and select <Capture> option. After successful capture system will pop up thumbnail image and path reminder. Click the image to open the captured image and click the path connection to enter into the image's storage directory.

### Stop playing

The option allows you close the channel's video.

**Show bit rate**: the option allows you display bit rate of current channel to video window.

**Original proportions**: the option allow you recover screen to original proportions.

## 5.1.7 PTZ Control



Picture 5-11

We introduced setting PTZ parameters previously in chapter 5.2.5.3. Here we will discuss how to operate PTZ controls.

- Click direction key to rotate PTZ camera;
- slide the processing bar to control PTZ rotation speed (level: 0~10);
- Click  icon to make PTZ camera auto scan, click it again to stop the auto-scan;
- Click [Zoom-/+] button to zoom in / out the image;
- Click [Focus -/+] button to focus the image;
- Click [Iris -/+] button adjust iris to open or close.

The software also provide a new intelligent TILT control system-Screen PTZ control. User could control PTZ rotation by clicking and dragging-and pulling on the play window. The play panel is

separated into 9-split mode shown as Picture 5-12. And  stand for ...eight directions respectively. Click it to control the PTZ rotation direction.



Picture 5-12

### 5.1.7.1 Preset point set

Click  button on the panel to edit one preset point shown as Picture 5-13. bn



Picture 5-13

Select one channel you want to set and number, and then click  icon to add one preset point shown as Picture 5-14.



Picture 5-14

Move PTZ camera to a specified position, and click icon to finish this preset point.

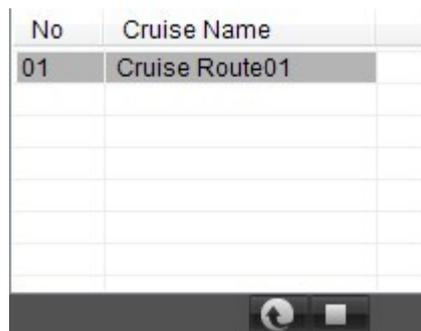
Select one preset point and Click icon to call this preset point.

Select one preset point and click icon to delete the preset point.

### 5.1.7.2 Cruise

If one channel adds two or more than preset point, you could configure one cruise route according these preset points. Details configuration please follow below steps:

1. Select one channel you want to cruise and click button to enter into the window shown as Picture 5-15.

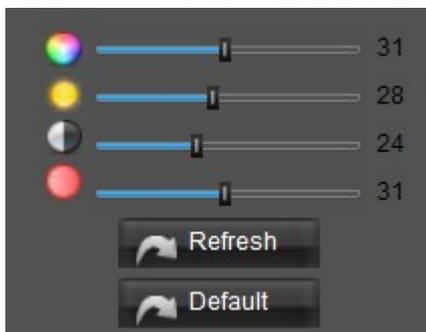


Picture 5-15

2. Select one cruise route and double-click the mouse or click icon to call the cruise, and click icon to stop the cruise.

### 5.1.7.2 Video Control

Click icon to enter into the window shown as Picture 5-16.



Picture 5-16

<Video control> icon describe as follows:

Icon	Description	Icon	Description
	Hue		brightness
	Contrast		saturation
 Refresh	Refresh	 Default	Recovery Default

## 6 Playback mode

The monitoring software will include remote playback and file type playback according to different storage position.

### 6.1 Remote Playback

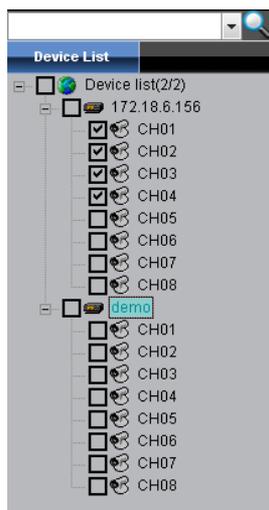
Click < Playback > button to pop up the below window shown as Picture 6-1.



Picture 6-1

#### 6.1.1 Search

Select one channel you desire to playback, and allow you select up to four channels (shown as Picture 6-2).

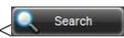


Picture6-2

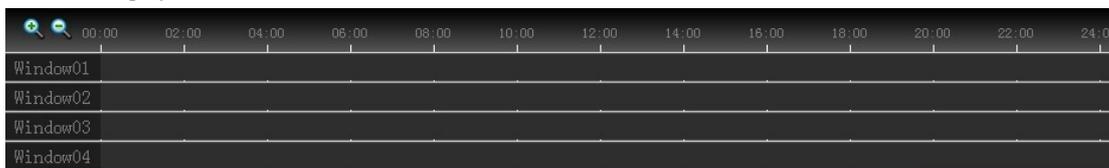
Secondly, select file type and date shown as Picture 6-3. And system support normal record, alarm record and All.



Picture 6-3

Third, Click  button to search relative record files.

Below Picture 6-4 is time axis panel of record file. Click / icon to enlarge or narrow display rate of the time axis.



Picture 6-4

Fourth, Click  button to start record playback. When moving curse, current time will appear on the time axis. If the channel have record file at this day, system will playback early record file of the day.



Picture6-5

 **Note:**

1. The software support up to 4-CH synchronous playback.
2. If you tick-select <synchronous Playback>, the four playback window will perform 4-CH synchronous playback.

### 6.1.2 Playback control



Picture 6-6

Playback control bar describes as follows:

Key	Description	Key	Description
	Open/Close Volume		Volume adjust
	Playing		Pause
	Stop		Play by frame
	Clip		Snapshot
	Download		Playback processing bar
	All stop		Single Channel display
	Quad mode		Full screen display

#### Record file clip

After opening playback, click icon to clip the selected file; and click again to stop the clip function. Record clip file will be saved to <RS RecordFile>.

#### Snapshot function

Click icon to capture the live images remotely. After capturing the images successfully, thumbnail images and path prompt will be popped up. Click the thumbnail images to open the captured picture and click the path connection to enter into images storage directory.

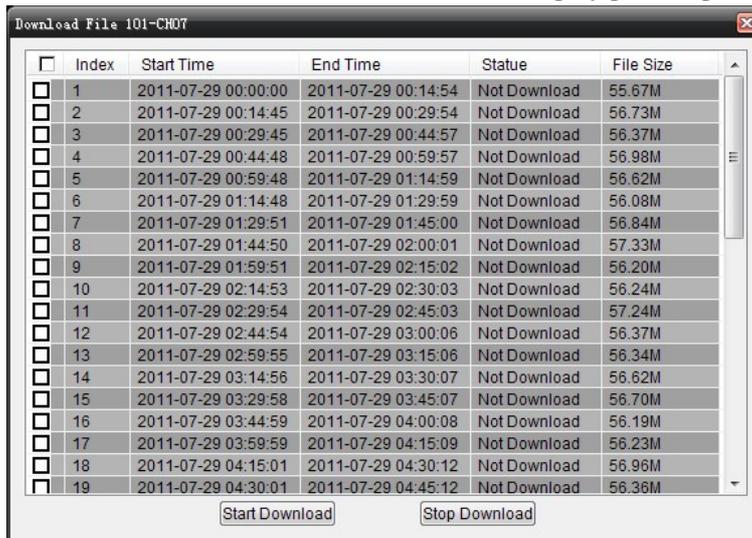


Picture 6-7

#### Record file download

Click icon to enter into the file download interface shown as Picture 6-8. Tick-select the record file you want to download and click [Start download], System will download the record

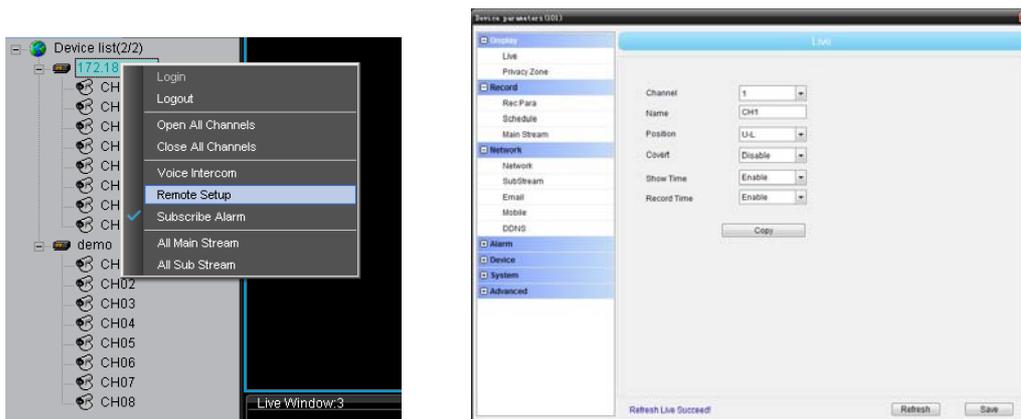
file in turn and save them to local PC. Downloaded file will display process percentage.



Picture 6-8

## 7 Device Parameters

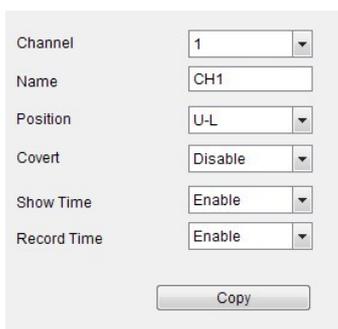
Select <Device Parameters> option to pop up the <Device Parameters> interface shown as Picture7-1.



Picture 7-1

### 7.1 Display

#### 7.1.1 Live



Picture 7-2

- **Channel:** Select one channel you want to set from the pull-down menu.
- **Name:** Allow you specify channel name and support up to eight characters or four Chinese characters.
- **Position:** indicate display position of the channel
- **Covert:** allow you enable real-time monitoring or not
- **Show time:** allow you record system time to Live mode
- **Record time:** allow you display system record on the record files
- **Copy:** allow you copy one channel's parameter to other one channel/channels

## 7.1.2 Privacy Zone

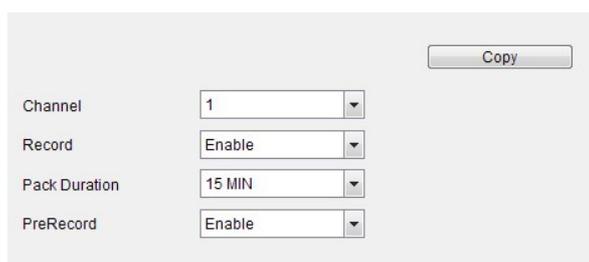


Picture7-3

- Tick-select the <Privacy zone> option;
- Pull-and-drag the mouse to select one privacy zone shown as Picture 7-3.

## 7.2 Record

### 7.2.1 Record Parameters



Picture7-4

- **Channel:** Select one channel you want to set from the pull-down menu.
- **Record:** Allow you set the channel enable record
- **Pack Duration:** allow you set packing time of single record file (15m, 30m, 45m and 60m)
- **Pre-record:** When set to <Enable>, motion detection and I/O triggered supports the Pre-record function.

## 7.2.2 Schedule

Picture7-5

[Channel] option allows you select one channel you desired.

To setup weekly schedules, tick-select the box of the record status you want (Alarm, General, or No Record) and then click on each box in the schedule time line that you want this method to apply to. You can use the [From – To] pull-down menus and Copy button to copy settings from one day to another day or all days.

**Note: Explanation:** Under the <record Set> and <search> menu, original color stands for no record, “Red” stands for alarm record, “Blue” stands for normal record.

## 7.2.3 Main Stream

Picture7-6

- **Resolution:** support CIF/HD1/D1
- **FPS:** PAL: 25f/s; NTSC: 30f/s
- **Bitrate:** Allow you select Bitrate from the pull-down menu.
- **Audio:** When set to <Enable> under the main stream mode, device will record and transfer video and audio simultaneously; and set to <Enable> under the sub stream mode, you are allowed to transfer video and audio simultaneously on the Live mode.

## 7.3 Network

### 7.3.1 Network setting

After selecting network mode - such as DHCP, PPPOE or static allocation- and setting up web ports, you can visit DVR remotely through a network or internet.

Type	DHCP
Client Port	60011
HTTP Port	60111
IP Address	192 . 168 . 1 . 211
Netmask	255 . 255 . 255 . 0
Gateway	192 . 168 . 1 . 1
DNS 1	192 . 168 . 1 . 1
DNS 2	0 . 0 . 0 . 0
UPNP	Enable

Picture 7-7

1) When selecting DHCP from the Type, A router will automatically allocate IP address for your DVR. After restarting each time, the IP address captured by your DVR may be different. So, port forwarding is required when you visit the remote DVR.

1. Select DHCP and click [Save] button;
2. Exit and restart DVR;
3. Input media port and web port
4. Set IP address captured by DVR and web port to a router
5. Visit a remote DVR

http:// public net IP: web port (such as: 8080)

http://intranet IP: web port (such as: 8080 - only use for Intranet)

**DNS:** DNS server is generally provided by local ISP. Herein please enter the IP address of your domain name server.

**Friendly Reminder:**

1. **All the parameters you set are available only when you click [Apply] and after system are restarted.**
2. **User need to change MAC address when there are multiple DVRs at the same local area network. Details please refer to section-System Information.**

Type	DHCP
Client Port	60011
HTTP Port	60111
IP Address	192 . 168 . 1 . 211
Netmask	255 . 255 . 255 . 0
Gateway	192 . 168 . 1 . 1
DNS 1	192 . 168 . 1 . 1
DNS 2	0 . 0 . 0 . 0
UPNP	Enable

Picture 7-8

2) When selecting Static from the Type, user can directly input IP address, Net Mask, Gateway and DNS shown as below picture 7-9.

- Set your net type to Static;
- Set Client port number and HTTP port, and the ports need to be forwarded to a router.
- Input a specified IP address to [IP address] column.
- The Subnet Mask, gateway and DNS server should be consistent with your router's configurations.
- Input DNS address. Please check router firstly. The setting should be consistent with router's
- Click [Apply] button
- Now you could remotely visit the DVR via IP
  - http: // public net IP: web port (such as: 8080)
  - http: //intranet IP: web port (such as: 8080 - only use for Intranet)

Type	Static
Client Port	60011
HTTP Port	60111
IP Address	192 . 168 . 1 . 211
Netmask	255 . 255 . 255 . 0
Gateway	192 . 168 . 1 . 1
DNS 1	192 . 168 . 1 . 1
DNS 2	0 . 0 . 0 . 0
UPNP	Enable

Picture 7-9

- 3) When selecting PPPoE form the Type, user can input user name and password provided by ISP and set Client and HTTP port. And now you can visit your remote DVR by using the IP address captured after registering a domain name and web port and connect to your DVR via public network.

Type	PPPoE
Client Port	60011
HTTP Port	60111
User Name	
Password	
DNS 1	192 . 168 . 1 . 1
DNS 2	0 . 0 . 0 . 0
UPNP	Enable

Picture7-10

DDNS (Dynamic DNS) is a service that register a domain name and the floating IP address with the DDNS server so that the domain name can be routed to the IP address even if the IP address is changed in a dynamic IP system.

You could set and use DDNS to visit your remote DVR under above any one mode.

You can apply for a DDNS account for free at the web <http://www.changeip.com/> or <http://www.dnsexit.com/> or <http://www.no-ip.com/> or [www.3322.org](http://www.3322.org) .

### 7.3.1.1 Router's Port Forwarding

If PPPoE is selected, port forwarding is not required. Port forwarding is required when you select <Static> and <DHCP>. Once you set the relative parameters for Router and device, now you are allowed to visit and playback the remote record files.

Strongly commend user follow below steps before changing network parameters:

- 1、 Enter into below router configuration interface;
- 2、 Input router's IP address which have be not used in the in-house network.
- 3、 Set the port of IP address specified to the device shown as Picture 7-11.
- 4、 The DVR IP address for the intranet should be 192.168.1.101, you should forward server port (9000) and web port (8080) to this IP address respectively.

ID	Service Port	IP Address	Protocol	Enable
1	9000	192.168.1.101	ALL	<input checked="" type="checkbox"/>
2	8080	192.168.1.101	ALL	<input checked="" type="checkbox"/>
3	554	192.168.1.101	ALL	<input checked="" type="checkbox"/>
4		192.168.1.	ALL	<input type="checkbox"/>
5		192.168.1.	ALL	<input type="checkbox"/>
6		192.168.1.	ALL	<input type="checkbox"/>
7		192.168.1.	ALL	<input type="checkbox"/>
8		192.168.1.	ALL	<input type="checkbox"/>

Common Service Port:   ID

Picture7-11

**Friendly Reminder:** The router's port forwarding interface may be different, however, when entering into virtual server, user will always need forward port 8080 and port 9000 of router to IP address of DVR allocated or automatically captured, and select [All] or [Both] in corresponding protocol column and save the above setting.

Above steps may differ from the router device depending on the manufacturer.

### 7.3.2 Sub Stream

Channel:

Video:

FPS:

Bitrate:

Audio:

Picture7-12

- **Resolution:** support CIF
- **Frame rate:** PAL: 1--5f/s; NTSC: 1--6f/s。
- **Bit rate:** allow you select relative stream.
- **Audio:** When set to <Enable> under the main stream mode, device will record and transfer video and audio simultaneously; and set to <Enable> under the sub stream mode, you are allowed to transfer video and audio simultaneously on the Live mode.

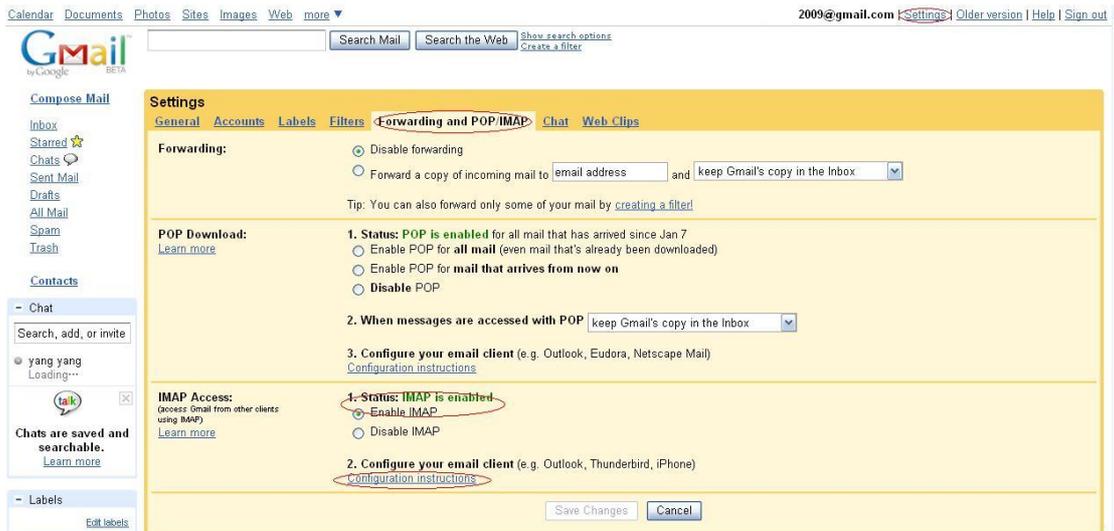
### 7.3.3 Email

Select <Enable email> option shown as Picture 7-13.

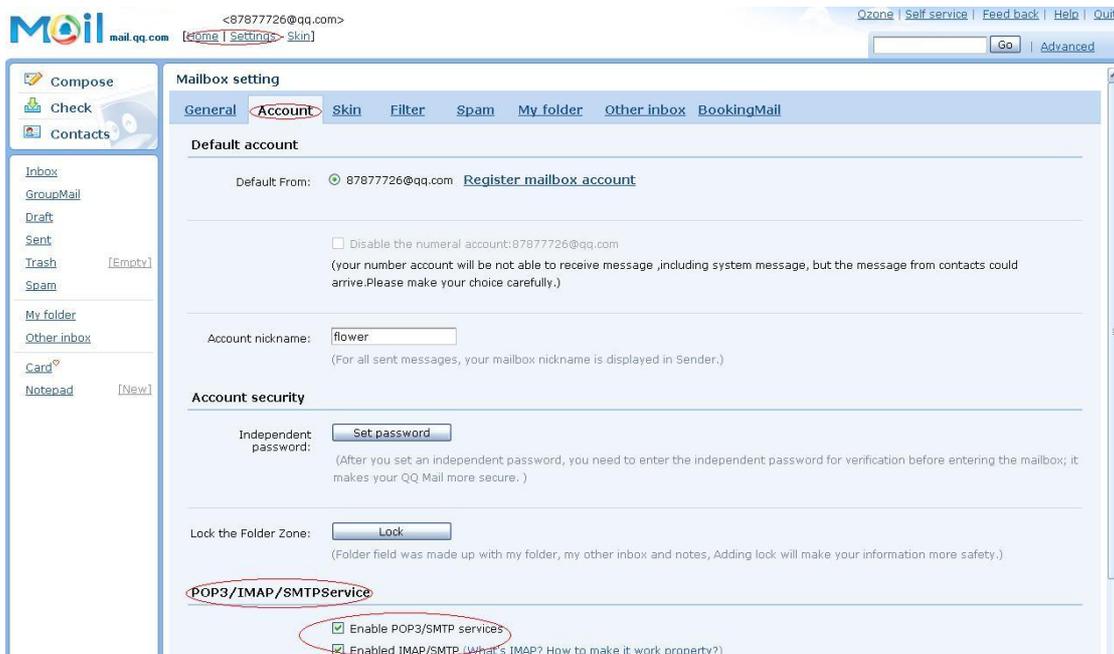
Email	Enable
SSL	Enable
SMTP Port	25
SMTP Server	
Sender Email	
Sender Pwd	
Receiver Email	
Interval	1 Min

Picture7-13

- **SSL:** is a security link transport protocol. You can encrypt your communication info (including your email) using SSL to prevent hackers from monitoring your email or communication info and even your password.  
Please set SSL to “On” via Gmail.com server, and set to “Off” via other mail server.
  - **SMTP Port:** indicate one kind of mail transmittal port opened by Simple Message Transfer Protocol (SMTP). The port number for most mails is 25 except such as Gmail server (Port number: 465).
  - **SMTP server:** indicates server address you used.
  - **Sender address:** indicates sender’s email address. The email address should be consistent with the server you use. That is to say, when you use email address – [aaa@gmail.com](mailto:aaa@gmail.com), the according server should be smtp.gmail.com.
  - **Receiver address:** indicates receiver’s email address. The email address is used to receive image transmitted from alarm DVR. Please clear the images you have received as soon as possible to avoid overloading your email account.
- SMTP protocol setting please refers to below Picture 7-14 and Picture 7-15.**



Picture 7-14



Picture 7-15

### 7.3.4 Mobile

Please set the mobile configuration as per below (shown as Picture 7-16).

- **User Name:** indicate user name of DVR, and support numbers and characters and 1~15 bits length
- **User password:** indicate user password of DVR
- **Server port:** Mobile monitoring port. Setting range is between 1024 and 65535.

Please note that the server port is not equal to the port you have set to network set.

User Name	<input type="text" value="admin"/>
Password	<input type="password" value="*****"/>
Mobile Port	<input type="text" value="18004"/>

Picture7-16

## 7.3.5 DDNS

DDNS (Dynamic DNS) is a service that register a domain name and the floating IP address with the DDNS server so that the domain name can be routed to the IP address even if the IP address is changed in a dynamic IP system.

Tick select <Enable DDNS> option shown as Picture 7-17.

<input checked="" type="checkbox"/> Enable DDNS	
Server Address	<input type="text" value="NO-IP"/>
Host Name	<input type="text"/>
User Name	<input type="text"/>
Password	<input type="password"/>

Picture 7-17

- **Server:** select DDNS provider
- **Host name:** input the host domain name you have registered at dynamic domain name system, such as: DVR2011.no-ip.org
- **User Name:** Input a user name registered before applying for a domain name

- **Password:** Input a password you set when registering a user name.

Enter the domain name (such as: <http://www.no-ip.com/>) to visit your remote DVR.

## 7.4 Alarm

### 7.4.1 Motion

Channel	<input type="text" value="CH1"/>	<input type="button" value="Copy"/>
<input checked="" type="checkbox"/> Enable		
Sensitivity	<input type="text" value="5"/>	
<input checked="" type="checkbox"/> Record Channel		
Post Recording	<input type="text" value="30 S"/>	
<input type="checkbox"/> Check All		
<input checked="" type="checkbox"/> CH1	<input type="checkbox"/> CH2	<input type="checkbox"/> CH3
<input type="checkbox"/> CH4	<input type="checkbox"/> CH5	<input type="checkbox"/> CH6
<input type="checkbox"/> CH7	<input type="checkbox"/> CH8	<input type="checkbox"/> CH9
<input type="checkbox"/> CH10	<input type="checkbox"/> CH11	<input type="checkbox"/> CH12
<input type="checkbox"/> CH13	<input type="checkbox"/> CH14	<input type="checkbox"/> CH15
<input type="checkbox"/> CH16		
<input type="checkbox"/> Alarm Out		
Latch Time	<input type="text" value="10 S"/>	
Full Screen	<input type="text" value="OFF"/>	
<input checked="" type="checkbox"/> Show Message	<input checked="" type="checkbox"/> Send Email	
Buzzer	<input type="text" value="OFF"/>	
		<input type="button" value="Check All"/> <input type="button" value="Clear"/>



Picture7-18

- **Channel:** allow you enable/disable the motion function for any channel.
- **Sensitivity:** allow you to set sensitivity level of motion detection from higher to low with 8 being the most sensitive.
- **Latch Time:** how long the buzzer will sound when object move is detected (10s, 20, 40s, 60s);
- **Post Recording:** you can set how long alarm record will last when alarm ends (30s, 1m, 2m, 5m).
- **Record Channel:** the record channel will be activated when the object move is

detected.

- **Alarm out:** allow you connect external alarm sensor.
- **Latch Time:** how long the external alarm will sound when object move is detected (10s, 20, 40s, 60s);
- **Full screen:** The function is defaulted to "On". When the motion detection or external alarm is triggered, the corresponding channel will be switched to the full screen mode.
- **Show Message:** You can set show message on the screen when motion alarm is detected.
- **Send Email:** Allow you send the alarm images to a specified email when motion alarm is detected.
- **Area:** Click the zone to enter into area setup interface shown as Picture 7-19.



Picture7-19

The channel will be separated into a 15X10 (PAL) or 15X12 (NTSC) grids. When any object moves into the motion detection area, and the area where the object is located is displayed in red and motion detection will be triggered. In the semi-transparent area the motion detection is not activated.

## 7.4.2 Alarm Setting

Picture7-20

- **Channel:** allow you select one desired channel.
- **I/O Status:** allows you select the three options – NO (Normal Open), NC (Normal Close) and OFF. Set to "Normal Open", I/O status Alarm will be activated while sensor is ON; set to "Normal Close", I/O status alarm will be activated while sensor is OFF; set to "OFF", I/O status alarm will not be triggered.
- **Buzzer time:** you can set how long the buzzer will sound when sensor alarm is



## 7.5.2 PTZ Configuration

The screenshot shows a configuration window for PTZ settings. It includes a 'Copy' button at the top right. The settings are as follows:

Channel	1
Protocol	Pelco_D
Baudrate	9600
DataBit	8
StopBit	1
Parity	None
Cruise	Disable
Address	1

Picture 7-22

You could select the channel you desire to control and set PTZ protocol (Pelco-D or Pelco-P), Baud Rate (1200, 2400, 4800, 9600), Data bit (8, 7, 6, 5), Stop bit (1, 2), Parity Check (None, Odd, Even, Mark, Space) and Address Code (1-255) respectively. Above channel parameters must be consistent with PTZ parameters and you must set Protocol, Baud rate and address code. Detail connections please refer to system connection configuration and Rear Panel layout.

## 7.6 System

### 7.6.1 General

#### 7.6.1.1 DST/Time Configuration

The screenshot shows a 'DST/Time Configuration' window with the following settings:

- Device Date: 12/07/2011
- Device Time: 12:13:59
- Use PC time:
- Date Format: MM/DD/YY
- Time Format: 24 Hour
- Language: ENGLISH
- Video Format: PAL
- Menu Time Out: 1Min
- Daylight Saving Time
  - Time Offset: 1 Hour
  - Daylight Saving Time Mode: Week
  - Week:
    - Start Time: Mar., The 2nd, Sun., 2:00:00
    - End Time: Nov., The 1st, Sun., 2:00:00
  - Date:
    - Start Time: 01/01/2010, 2:00:00
    - End Time: 01/01/2010, 2:00:00
- Enable NTP
  - Server Address: pool.ntp.org
  - Time Zone: GMT+08:00

Picture 7-23

1. User could modify system date, time, date format and time format.
2. Time format includes 12 hour and 24 hour.
3. DST mode includes Week mode and day mode.
4. Time Offset includes 0-1 hour and 1-2 hour.

## 7.6.1.2 NTP Configuration

Tick selects the <Enable NTP> option shown as Picture 7-24.

Picture 7-24

- **Enable NTP:** Allow you Enable <NTP> function.
- **Server Address:** Allow you select NTP server, currently supports three servers.
- **Time Zone: System supports thirty Time Zones.**

**Update:** Click <Update> to calibrate NTP parameters, that is to say, DVR will calibrate system time to the selected Time zone (Note: DVR must be connected to Internet).

## 7.6.2 Users

Picture7-25

The model supports up to seven users with one Admin and six users.

User name and password supports ASSIC code, and user name up to eight characters, password to six characters.

**Generic rights/Channel Rights:** Admin default to have all the generic rights and channel rights; and select and configure common user's Generic and Channel rights as per actual request.

**Generic Rights** includes Log Search, Parameter, Maintain, Disk Manage, Remote Login, SEQ Control and Manual Record.

**Channel Rights** includes Backup, Live, Playback and PTZ control.

## 7.6.3 Info

Device Name	DVR-16CIF
Device ID	000000
Device Type	DVR16B
MAC Address	00-23-63-23-A7-1C
Software Version	V3.0-20111012
IE Client Version	1.1.775.0
Hardware Version	DM-83

Picture 7-26

## 7.7 Advanced

### 7.7.1 Firmware Update

Update File Path	<input type="text"/>	<input type="button" value="Select"/>
Update Status	<input type="text"/>	
	<input type="button" value="Start"/>	<input type="button" value="Stop"/>

Picture7-27

- Select Update file path;
- The format of updated file is \*.sw;
- Please do not break DVR power and close the software when update processing is running;
- After selecting the path, please click <Start>;
- After finishing the update processing, system will auto reboot, and please be patient to wait for about five minutes...

### 7.7.2 Load Default

<input type="checkbox"/> Check All
<input type="checkbox"/> Display
<input type="checkbox"/> Record
<input type="checkbox"/> Network
<input type="checkbox"/> Alarm
<input type="checkbox"/> Device
<input type="checkbox"/> System
<input type="checkbox"/> Advanced

Tick-Select <check all> or any sub-option to recover defaulted parameters as per your actual requirement.

Picture 7-28

### 7.7.3 Events

Picture 7-29

- **Event Type:** support the three abnormal types: Disk No Space, Disk Error and Video Loss.
  - **Enable/Disable:** allow you enable/disable abnormal alarm.
  - **Buzzer time:** you can set how long the buzzer will sound when abnormal occurs. (Off, 10s, 20, 40s, and 60s).
  - **Show Message:** You can set show message on the screen when abnormal occurs.
  - **Send Email:** Allows you send one alarm images to a specified email when abnormal occurs.
- **Alarm out:** Allows you connect external alarm sensor
  - **Latch:** you can set how long the buzzer will sound when the alarm ends (10s, 20, 40s, 60s).

### 7.7.3 Maintain

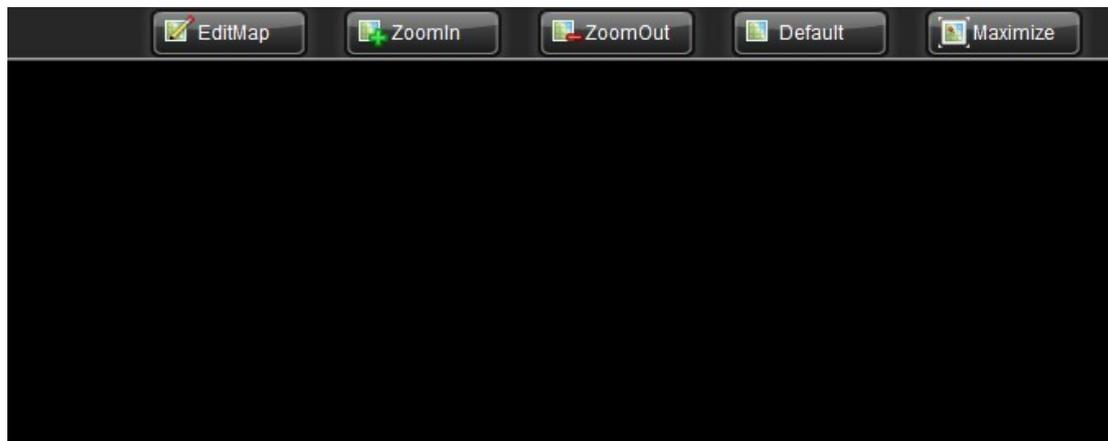
Allow you set auto-reboot and reboot time as per your actual requirement shown as Picture 7-30.

Picture 7-30

## 8 E-map

### 8.1 Edit the E-map

Click the [E-Map] icon to enter into the below window shown as Picture 8-1. And initial Open mode is maximized.



Picture 8-1

Below picture 8-2 is shown as E-map tool-bar.

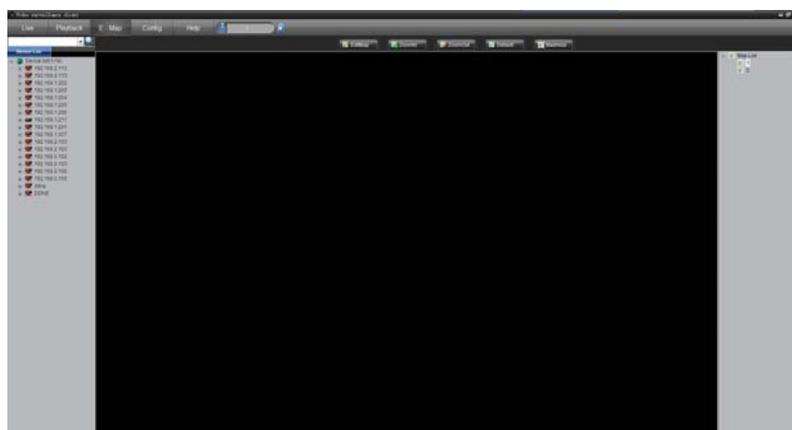


Picture 8-2

and E-map toolbar brief description is as below:

Key	Description	Key	Description
	Open or close <Edit> function.		<Down size>
	<Enlarge>		Full size
	<Maximize> and <Minimize> button		

Click [] icon to minimize the window and start to edit the E-map shown as Picture 8-3.



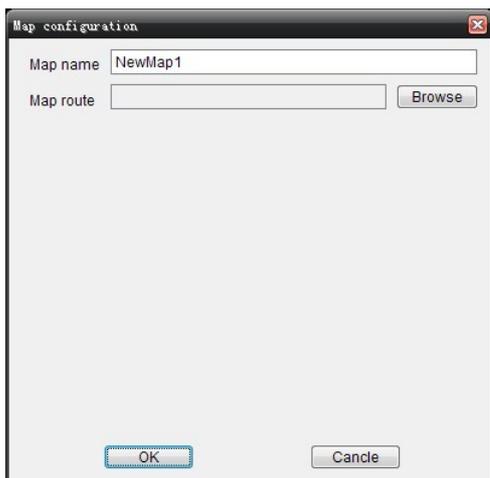
Picture 8-3

Click [] icon, and then highlight [Map List] and right-click the mouse to add one E-map shown as Picture 8-4.



Picture 8-4

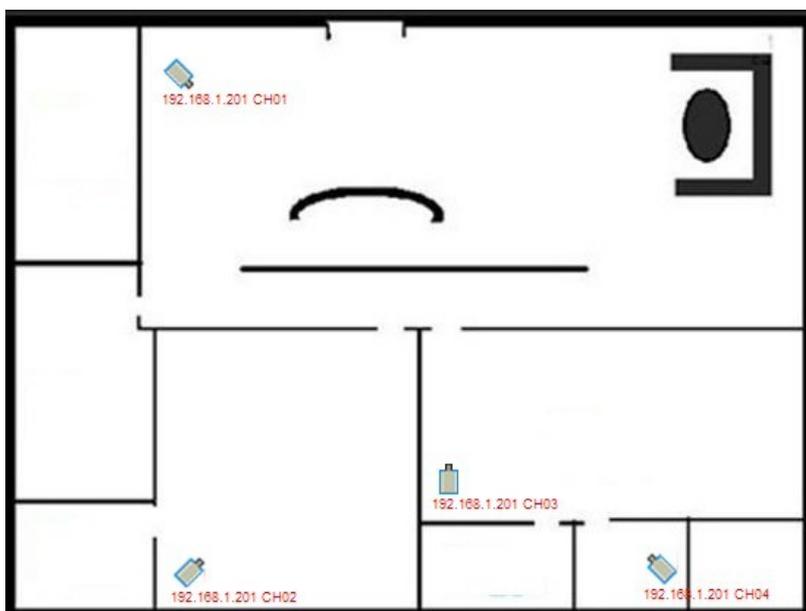
Click [Add Map] to enter into the following window shown as Picture 8-5.



Picture 8-5

- **Map name:** allow you customize the Map name.
- **Map route:** allow you select and browse route of the Map.

After setting map configuration, pull and drag one Channel into the Map shown as Picture 8-6.



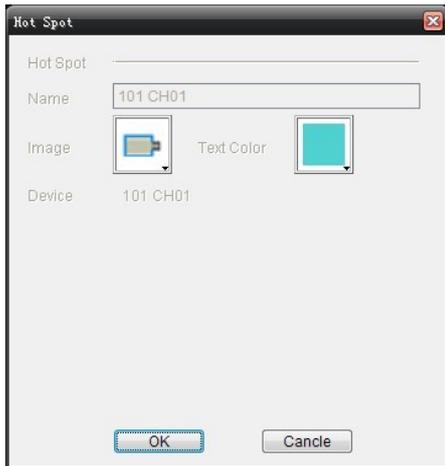
Picture8-6

Then select any one camera and right-click mouse to enter into <MapPin Config> option shown as Picture 8-7.



Picture 8-7

Click <MapPin Config> option to enter into the window shown as Picture 8-8.



Picture 8-8

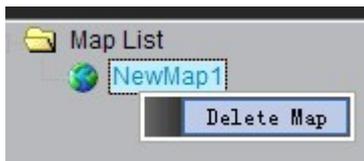
- **Name:** allow you customize the camera's name
- **Image:** allow you select its images according to current direction of the camera, including left, right, up, down, bottom left, bottom right, upper left and upper right
- **Text Color:** allow you select text color.

Select any one camera, then right-click the mouse and click <Delete> to delete the camera shown as Picture 8-9.



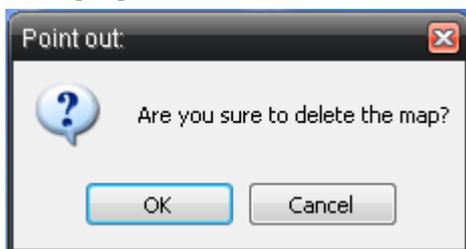
Picture 8-9

Select one map from Map list, and then right-click the mouse to delete the Map shown as Picture 8-10.



Picture 8-10

Click [Ok] button to confirm and delete the Map shown as Picture 8-11.



8-11

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