

# **D-ViewCam**

**Windows Home Server Edition**

**Version 1.0**

**USER MANUAL**

**Version 1.5**

## Table of Contents

A. Getting Started	1
A.1. Introduction	1
A.2. Minimum System Requirements	1
A.2.1 Client – Server System structure	1
B. Add-in D-ViewCam Windows Home Server Edition	3
B.1. Add-in Procedure	3
B.2. Remove Procedure	4
C. Using D-ViewCam Windows Home Server Edition	5
C.1. Main Console	5
C.2. Remotely Connect to the D-ViewCam Windows Home Server Edition	5
C.3. Add IP Camera(s)	8
D. Using D-ViewCam Windows Home Server Edition	12
D.1. Main Display Area	13
D.2. System Board Area	14
D.3. Select Device and Map Area	14
D.4. Preview Window Area	14
D.5. Manual Control Area	15
D.6. PTZF Control Area	18
D.7. Event Action Log Area	18
D.8. Setting and Search Area	20
D.10. Event Action Log Area	20
E. Configuring D-ViewCam	22
E.1. Wizard Mode	22
E.1.1. Add IP Camera(s)	22
E.1.2. Quick Recording Settings	23
E.2. Expert Mode	24
E.2.1. Wizard	25
E.2.1.1. Add IP Camera(s)	25
E.2.2. System	25
E.2.2.1. Basic Setting	25
E.2.2.2. Event Action	27
E.2.2.3. Email Server Setting	30
E.2.3. User	31
E.2.3.1. Administrator	31
E.2.3.2. Normal User	32

E.2.4. Map	34
E.2.4.1. My Map	34
E.2.4.2.1. Device Setting – Information	36
E.2.4.2.2. Device Setting – Preset	37
E.2.4.2.3. Device Setting – Motion Detection	39
E.2.4.2.4. Device Setting – Event Actions	40
E.2.4.2.5. Device Setting – Schedule/Recording (Settings)	43
E.2.4.2.6. Device Setting – Schedule/Recording (Schedule)	44
E.2.4.2.7. Device Setting – Schedule/Recording (Specific Date)	46
E.2.4.2.8. Device Setting – Image Quality	47
F. Playback	48
F.1. Video Search and Playback Management	48
F.2. Event Search and Playback Management	51
Appendix 1. Open Source Software Notification	53



## A. Getting Started

### A.1. Introduction

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D-ViewCam Windows Home Server Edition is designed for Microsoft Windows Home Server

- To seamlessly integrate into Microsoft Home Server console
- To provide home video surveillance application with the same use-scenario as in D-ViewCam
- To benefit from Windows Home Server's powerful storage
- To access video thru a secured and personalized website by this application

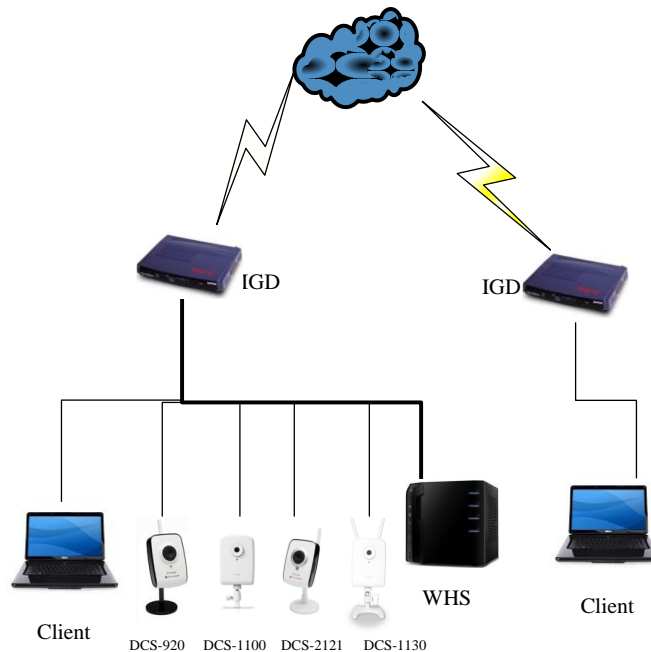
### A.2. Minimum System Requirements

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To ensure D-ViewCam Windows Home Server Edition can deliver high video monitoring and recording performance, certain minimum system configurations are required.

#### A.2.1 Client – Server System structure

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Home surveillance solution for Network Camera and Home Server

- System requirement - Server

<b>Operating System</b>	Windows Home Server Power Pack 2
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- System requirement - Client

<b>CPU</b>	P4 2.8 GHz
<b>Memory</b>	512MB
<b>Hard Disk Size (GB)</b>	40
<b>Display Memory</b>	32MB
<b>Display Resolution</b>	1024x768 (default)
<b>Operating System</b>	Windows XP Professional Service Pack 2 English/ Traditional Chinese version. Windows Vista English/ Traditional Chinese version.
<b>Network Interface</b>	10/100 Mbps Ethernet
<b>Browser</b>	Internet Explorer 6, Internet Explorer 7 and Internet Explorer 8

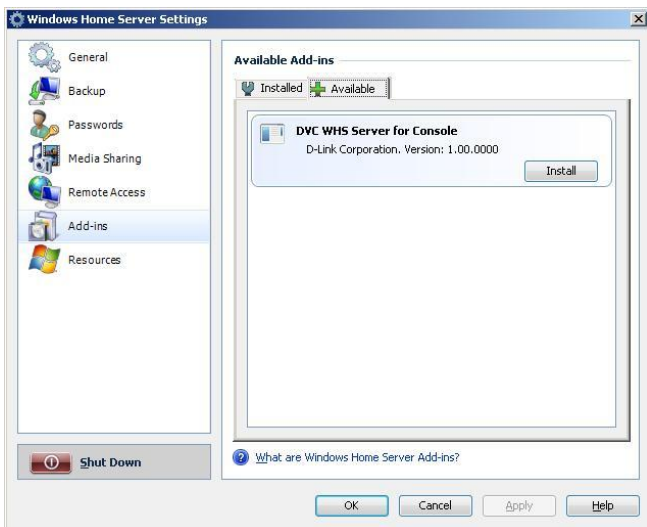
## B. Add-in D-ViewCam Windows Home Server Edition

### B.1. Add-in Procedure



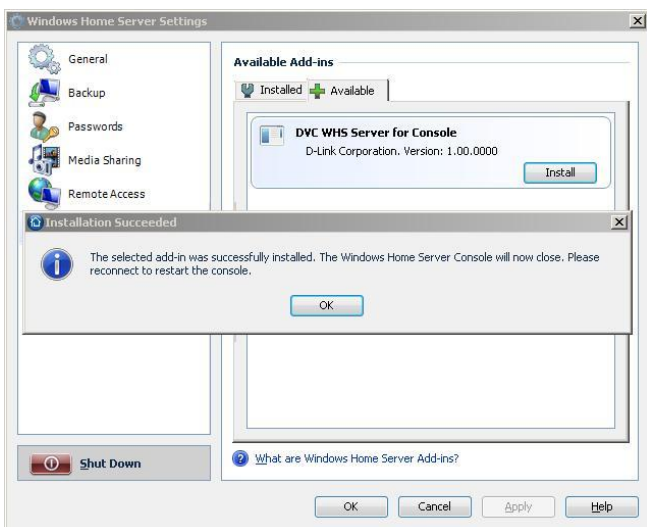
**STEP 1:** Open the Windows Home Server console

**STEP 2:** Click “Settings” tab.



**STEP 3:** Click “Add-ins” from the left bar, then select “Available” tab.

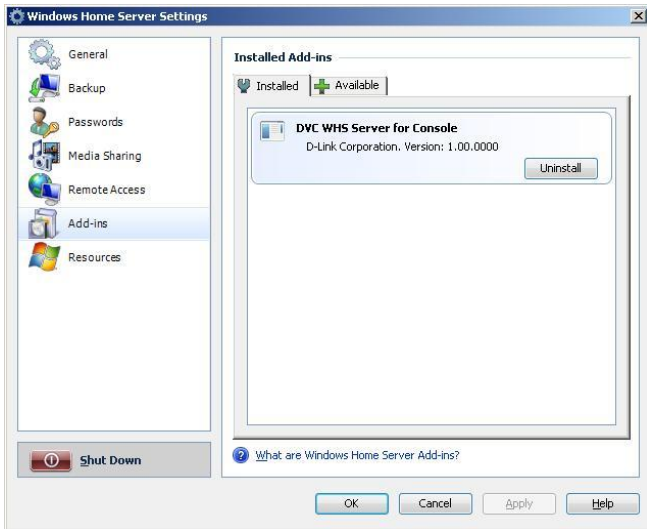
**STEP 4:** Click “Install” DVC WHS Server for Console” to add-in this function to the main console.



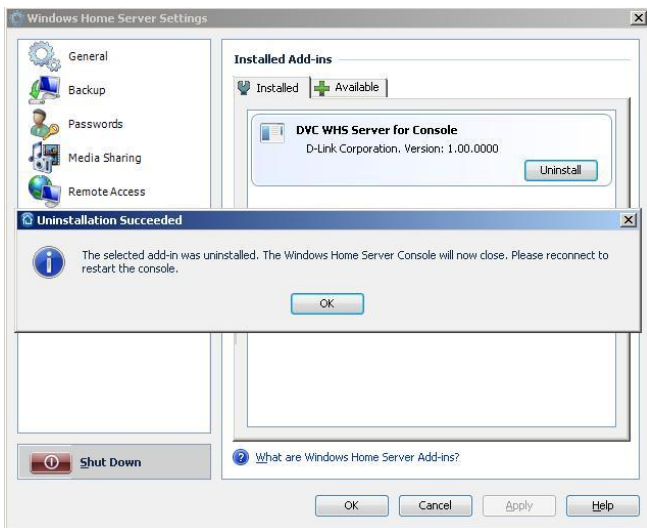
**STEP 5:** Click “OK” to finish the add-in procedure.

## B.2. Remove Procedure

---



**STEP 1:** Click “OK” to finish the add-in procedure.



**STEP 2:** Click “OK” to finish the remove procedure.

## C. Using D-ViewCam Windows Home Server Edition

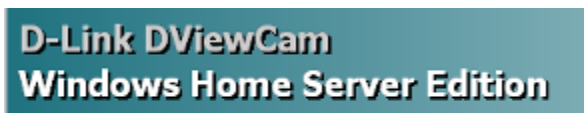
### C.1. Main Console



**STEP 1:** Open the Windows Home Server, then click the D-Link IP Camera. In this page, you can query all the recorded video by date and camera type. Here also shows the current storage usage.

### C.2. Remotely Connect to the D-ViewCam Windows Home Server Edition

**[Note]** Please click “Microsoft .NET Framework” if your computer has not installed this yet.



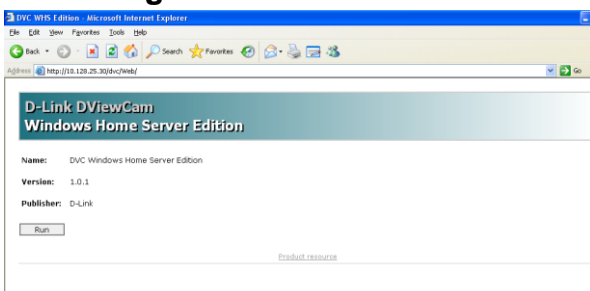
**Name:** DVC Windows Home Server Edition

**Version:** 1.0.1

**Publisher:** D-Link

This program needs **Microsoft .NET Framework** installed!

### Accessing D-ViewCam Windows Home Server Edition with IE Browser



**STEP 1:** Open your IE browser, and enter the following URL: `http://<IP address>/dvc` where <IP address> is the IP address of the D-ViewCam Windows Home Server Edition. (Example:





<http://60.144.11.11/dvc/>). Then go to **Step 5**.

### Accessing D-ViewCam Windows Home Server Edition with Non-IE Browser



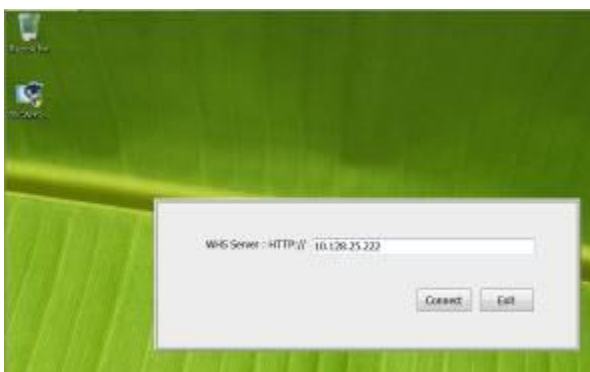
If you use Non-IE browser, it does not support direct launch, please download file and run it, please follow below steps.

**STEP 1:** Click the Download button to download the file.



**STEP 2:** Choose a location to save it on your computer.

You may put it on the desktop for convenience or some other place you will be able to find it.



**STEP 3:** Double click the connector.

**STEP 4:** Type the IP address of the D-ViewCam Windows Home Server Edition. (Example: <http://60.144.11.11>)



**Log In**

User ID:

Password:

**System Logon.**

**STEP 5:** Use “admin” as the default user name and click “OK” to continue the login.

**[Note]** If this is the first time you login, use admin as default user name and leave the password blank, then click “OK” to log into the system.

**Change Password**

User ID:

Current Password:

New Password:

Confirm Password:

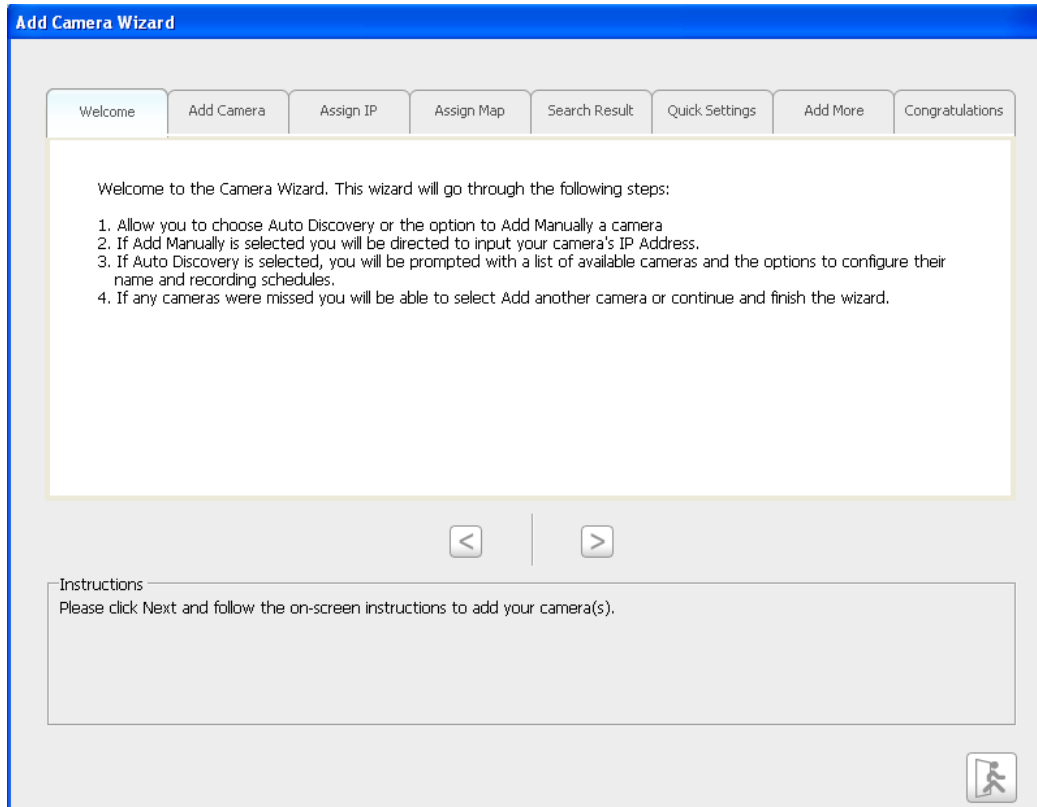
It is recommended that you change this default password after the first time login. Please refer to Section E.2.3. to change the password or you can press the “Change Password” button to show the left dialog box.



### C.3. Add IP Camera(s)

---

Welcome page of the add camera wizard.



**[Note]** Use left or right arrow to navigate within the wizard.  
Please check the video display well before video recording configuration.



Please select the add method for your cameras.

- Auto Discovery
- Add Manually

Welcome Add Camera Assign IP Assign Map Search Result Quick Settings

Camera IP Address  Search...

Port

Model Name

Camera User ID

Camera Password

Welcome Add Camera Assign IP Assign Map Search Result Quick Settings

Assign IP camera to map by drag and drop



Welcome Add Camera Assign IP Assign Map Search Result Quick Settings Add More Congratulations

The detected device showed as below

Select	Camera Name	Model	Camera User ID	Camera Password	IP Address / Domain Name	HTTP Port	MAC Address
<input checked="" type="checkbox"/>	DCS-1100-159	DCS-1100	admin		10.128.25.159	80	000123456
<input checked="" type="checkbox"/>	DCS-2121-15	DCS-2121	admin		10.128.25.15	80	00031858F
<input checked="" type="checkbox"/>	DCS-1130-158	DCS-1130	admin		10.128.25.158	80	00FF56CF9C
<input checked="" type="checkbox"/>	DCS-920-9	DCS-920	admin		10.128.25.9	80	00FF56197F
<input checked="" type="checkbox"/>	DCS-2121-164	DCS-2121	admin		10.128.25.164	80	123456789

### Add Camera(s).

**STEP 1:** Choose either to add camera(s) by automatically search camera(s) or manually add camera(s)

#### STEP 1a: Auto Discovery.

The system will search all cameras that are located at the same subnet within a LAN environment.

#### STEP 1b: Add Manually.

Enter the IP address or domain name, http port, model name, camera ID and password.

Click "Search..." button to detect the camera's model name and the model name will show in the box.

Then assign the manual added camera to a map.

### Result of the auto discovery.

**STEP 2:** The system will list all discovered cameras and assign to the default map (called My Map). Press "Next>" for the next setting.



Welcome	Add Camera	Assign IP	Assign Map	Search Result	Quick Settings	Add More	Congratulations
---------	------------	-----------	------------	---------------	----------------	----------	-----------------

The discovered cameras information showed as below:

Camera Name	Model	Schedule Recording Type	Status	IP Address	MAC Address
DCS-1100-159	DCS-1100	None	Active	10.128.20.159	000123456789
DCS-2121-15	DCS-2121	None	New	10.128.25.15	00031B58F284
DCS-920-9	DCS-920	None	New	10.128.25.9	00FF56197574

### Quick Settings.

The system shows the detected IP Camera(s) information and user can set the schedule recording type.

**STEP 3:** User can modify the schedule recording type:

- **24/7 Continuous Recording:** Start scheduled recording 24 hours a day, 7 days a week.
- **24/7 Motion Detection Recording:** Continuous monitoring the videos but ONLY make recording when motion is detected.
- **Office Hours Only:** Continuous monitoring the videos during office hours (08:00 AM to 06.00 PM) and ONLY make recording when motion is detected.
- **Non-Office Hours Only:** Continuous monitoring the videos during non-office hours (06:00 PM to 08.00 AM) and ONLY make recording when motion is detected.

**[Note]**

Except 24/7 Continuous Recording, the other schedule recording type can be activated ONLY when image motion detection window is created. Please refer to Section E.2.4.2.3 for this setting.

Welcome	Add Camera	Assign IP	Assign Map	Search Result	Quick Settings	Add More
---------	------------	-----------	------------	---------------	----------------	----------

Add another camera :

- Yes
- No

### Add another camera.

**STEP 4:** Select “Yes” to add another camera, or select “No” to continue.

Welcome	Add Camera	Assign IP	Assign Map	Search Result	Quick Settings	Add More	Congratulations
---------	------------	-----------	------------	---------------	----------------	----------	-----------------

Congratulations, your camera configurations are now complete and ready to use.

You may now click the Close button to view your camera and configure any additional advanced settings.



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## **Congratulations!**

**STEP 5:** Now you can enjoy your D-ViewCam. Click “Close” to enter the system.

### **[Note]**

If there is no video display of the camera that you just added to D-ViewCam, please check if:

1. You correctly typed in the IP address of the camera.
2. You changed the default user name and password of the camera. For this condition, you must input that information in D-ViewCam in Expert mode, and the changed value will take effect after re-login the D-ViewCam. Please refer to Section E.2.4.2.1 Device Setting – Information for changing the camera id and password in the D-ViewCam.



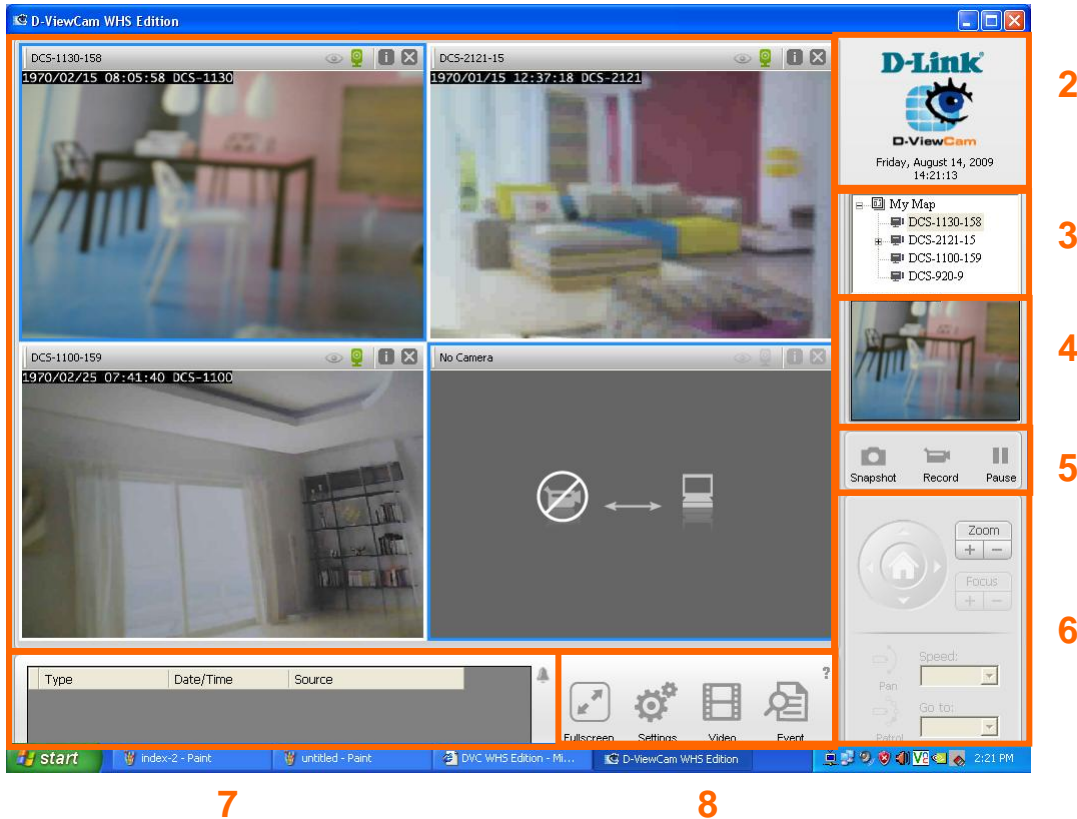
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## D. Using D-ViewCam Windows Home Server Edition

### Main Screen Interface

1



7

8

Area No.	Area Name	Description
1	Main Display Area	Video monitoring area.
2	System Board Area	System date and time display
3	Select Device and Map Area	Tree structure display that shows maps and devices
4	Preview Window Area	Display map or current video image if an active camera is selected from the tree structure
5	Manual Control Area	Snapshot, manual recording, two-way audio controls and freeze video display
6	PTZF Control Area	Selectable when a camera selected has pan, tilt, zoom and focus function



<b>7</b>	<b>Event Action Log</b>	Event log list
<b>8</b>	<b>Setting and Search Area</b>	Full screen, system configuration, search and playback videos, search and playback events, help page

## D.1. Main Display Area

The main display area is where live images from the cameras or e-Map is displayed. There is an information bar for each image that can be used to identify a camera and its current status.

If a map is selected at the Select Device and Map Area (Area 3), the Main Display Area (Area 1) will show the map and device icons on the map (Area 1).



**[Note]**

- 1: Camera Name:** Display camera name or no camera when no video display in screen
- 2: Event Status:** Gray (No event action setting), **Green (Event action setting on),**  
**Flashing Red (Event is detected).**
- 3: Video Status:** Gray (Video lost), **Green (Normal), Red (Recording).**
- 4: Configuration:** Provide user for the system setting.
- 5: Close:** Close the camera display.





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## D.2. System Board Area

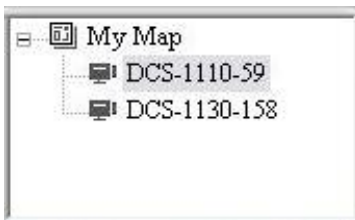
---



This area shows the D-ViewCam logo and the current system date and time, and version information.

## D.3. Select Device and Map Area

---



Display your map and camera(s) in tree structure.

**[Note]**

Click the tree node of “My Map” or “New Map”, the e-map will be shown on “Main Display area”. Double click the tree node of “My Map” or “New Map” to return to the live view.

## D.4. Preview Window Area

---



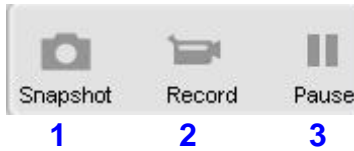
**A**

Area B displays video image of a selected camera in area A. If a Map is selected in area A, it displays video from all cameras in that area one after another.

**B**

## D.5. Manual Control Area

---

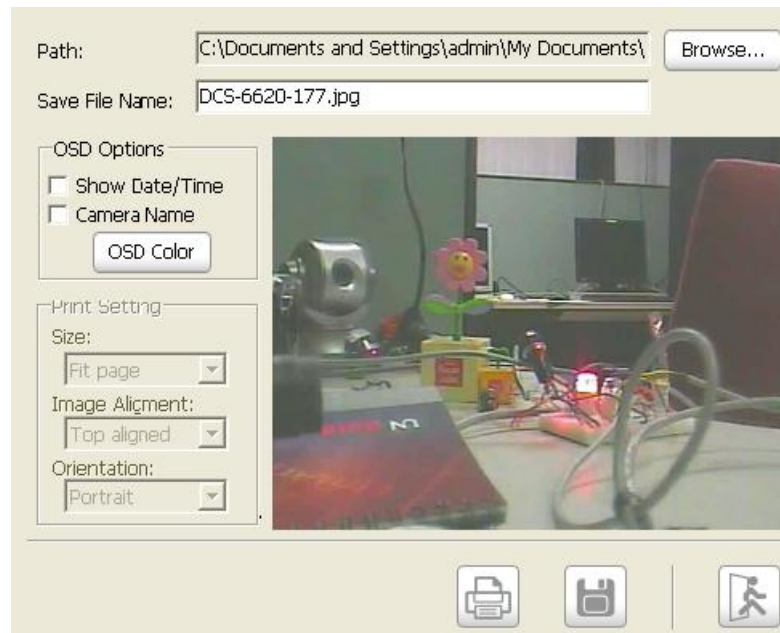


**1. Snapshot:** Capture a selected video image immediately.



Snapshot selected video.

When a camera is selected and live video image can be seen at the main display or preview area, you can take a snapshot using the snapshot button. When this button is pressed, the system will show a dialogue window with the snapshot image and options as shown below:



Once a snapshot is obtained, you can change the content of the overlay information and select text color using the OSD (On Screen Display) color button. Use the browse button to select a folder where the image file will be saved and input a file name.

**[Note]** You can save the file in different format by typing the file format after file name, such as: .png, .jpg, .gif.

**2. Start/Stop Manual Recording Selected Video:** Start/Stop

recording video(s) by selecting this button.



Start Manual Recording.



Stop Manual Recording.



When performing manual recording, the video window will be marked as red and the recording time information will be display in red at the lower right hand corner.

### Manual Recording for Multiple Videos.

**STEP 1:** Select a group of live videos by pressing and holding the “Ctrl” key on the keyboard and then click on cameras image that you want to record in video display areas.

**STEP 2:** To start recording, click the Start Manual Recording button.

**STEP 3:** To stop multiple recording, select the cameras you wish to stop recording by repeating step 1 and then click the Manual Record button to stop. All video data is recorded in the QVGA or CIF format. The frame rate depends on the camera that you select and should be configured in the camera’s web interface.

**3. Freeze Video Display:** Pause all the video display to save CPU resource, but the video is still connected.



Freeze video display.



Unfreeze video display.

This function can be used to temporarily stop displaying all live



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images. Press this button again to resume display.

**[Note]** This feature only freezes the live image display; all other functions such as event and recording are not affected.



## D.6. PTZF Control Area



PTZF control area provides pan, tilt, zoom and focus functions to control the movement of PTZF capable Camera.

**1: PT Control:** Moves the camera to point up, down, left or right.

**2: Zoom:** Click [+] to zoom in, and [-] to zoom out

**3: Focus:** Click [+] or [-] to adjust the camera to get clearer image.

**4: Go to:** Select a preset point for the camera to point to. For the preset point setting, please refer to Section E.2.4.2.3.

**5: Speed:** Adjust the pan and tilt speed of the camera.

**6: Auto Pan:** Enable the PT camera auto panning.

**7: Auto Patrol:** Enable the PT camera auto patrolling to the preset location.

**[Note]** These controls will be automatically enabled when a camera with PTZF functions is selected.

## D.7. Event Action Log Area

Type	Date/Time	Source
ImageMotionDetect...	4/17/2009 22:12:...	DCS-6620-177
ImageMotionDetect...	4/17/2009 22:12:...	DCS-6620-177

A
B

Area A displays the most recent 20 events with the most recent event record first. Double click an event item; the system will bring up the event detail information of the event and if there is a recording you can do playback immediately after the recording is completed. Event canceling will be handled according to your system setting.

### Event button display status:

1. Event action disable: the event action setting is off. You can configure the event on/off



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in the Expert Mode (System - Basic Setting).



Event action is off.

2. Event action enable: the event action setting is on. There are two event action status:



No event is detected.



Event detected.

When event action is enabled, event canceling will be handled according to your system setting:

**Automatic event canceling:** the cancel event button will be flashing for a pre-determined period of time and the event automatically canceled.

**Manual event canceling:** the cancel event button will keep flashing until clicked. Click the cancel event button and the system will cancel all active events.

## D.8. Setting and Search Area

---



**1: Full Screen:** Switch the video to full screen. Double click on the screen again or press “Esc” key to return to pervious screen configuration.

**2: System Configuration:** Provides user two configuration modes, wizard mode and expert mode.



Wizard Mode.



Expert Mode.

**3: Video Search and Playback:** Search and watch the recorded video, such as schedule recording, event recording and manual recording. Please refer to Section F.1. for details.

**4: Event Search and Playback:** Search and watch the unusual event and recorded system information. Please refer to Section F.2. for details.

**5. Help page:** Descriptions, definitions and details about D-ViewCam

## D.10. Event Action Log Area

---

Type	Date/Time	Source
ImageMotionDetect...	4/17/2009 22:12:...	DCS-6620-177
ImageMotionDetect...	4/17/2009 22:12:...	DCS-6620-177

A
B

Area A displays the most recent 20 events with the most recent event record first. Double click an event item; the system will bring up the event detail information of the event and if there is a recording you can do playback immediately after the recording is completed. Event canceling will be handled according to your system setting.



D-ViewCam

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### Event button display status:

3. Event action disable: the event action setting is off. You can configure the event on/off in the Expert Mode (System - Basic Setting).



Event action is off.

4. Event action enable: the event action setting is on. There are two event action status:



No event is detected.



Event detected.

When event action is enabled, event canceling will be handled according to your system setting:

**Automatic event canceling:** the cancel event button will be flashing for a pre-determined period of time and the event automatically canceled.

**Manual event canceling:** the cancel event button will keep flashing until clicked. Click the cancel event button and the system will cancel all active events.



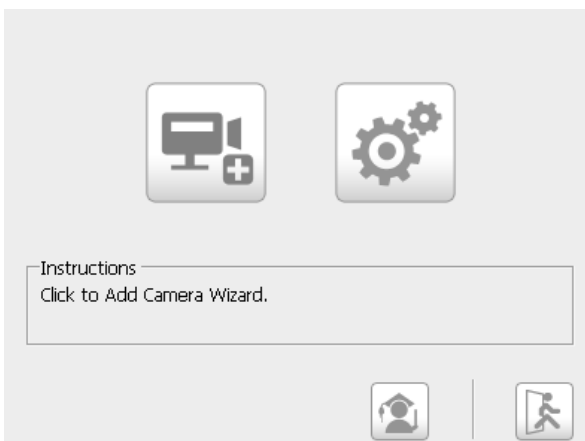


## E. Configuring D-ViewCam

D-ViewCam application is designed in a way that it can be easily set up for simple home surveillance applications. It provides two modes of configuration: wizard mode and expert mode. Wizard mode is designed for basic configuration, including Add Camera, System Backup, and Quick Recording Settings. Expert mode is for more advanced use with comprehensive configuration options. User can switch between these two modes at any time.

### E.1. Wizard Mode

---



Wizard mode configuration is designed to allow a user to quickly set up a D-ViewCam system with a few simple clicks. This mode is recommended to quick set up a working D-ViewCam system. You can use expert mode configuration to fine-tune the system at a latter time.

#### E.1.1. Add IP Camera(s)

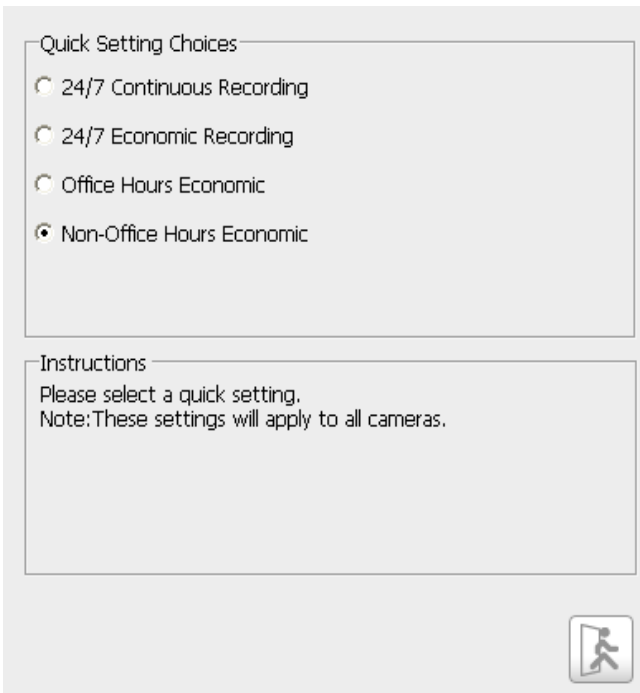
---

To add a new IP camera, please refer to Section C.2.

## E.1.2. Quick Recording Settings

---

This setting will apply to all cameras. For user convenience, the system provides four different recording methods for user to choose.



### **24/7 Continuous Recording.**

Scheduled recording time: 24 hours a day and 7 days a week continuous recording of all IP cameras.

This recording arrangement will need larger disk spaces.

### **24/7 Economic Recording.**

Scheduled recording time: Any time when motion is detected by the IP camera.

This mode may consume a large amount of your CPU resources.

### **Office Hours Economic.**

Scheduled recording time: Monday to Friday from 8:00 AM to 6:00 PM and start recording when motion is detected.

### **Non-Office Hours Economic.**

Scheduled recording time: Monday to Friday from 6:00 PM to 8:00 AM and start recording when motion is detected.

### **[Note]**

1. If these quick recording settings do not satisfied your schedule recording requirement, you may set up the schedule for each IP Camera. Please refer to Section E.2.4.2.5.
2. Except 24/7 Continuous Recording, the other schedule recording type can be activated ONLY when image motion detection window is created. Please refer to Section E.2.4.2.3 for this setting.

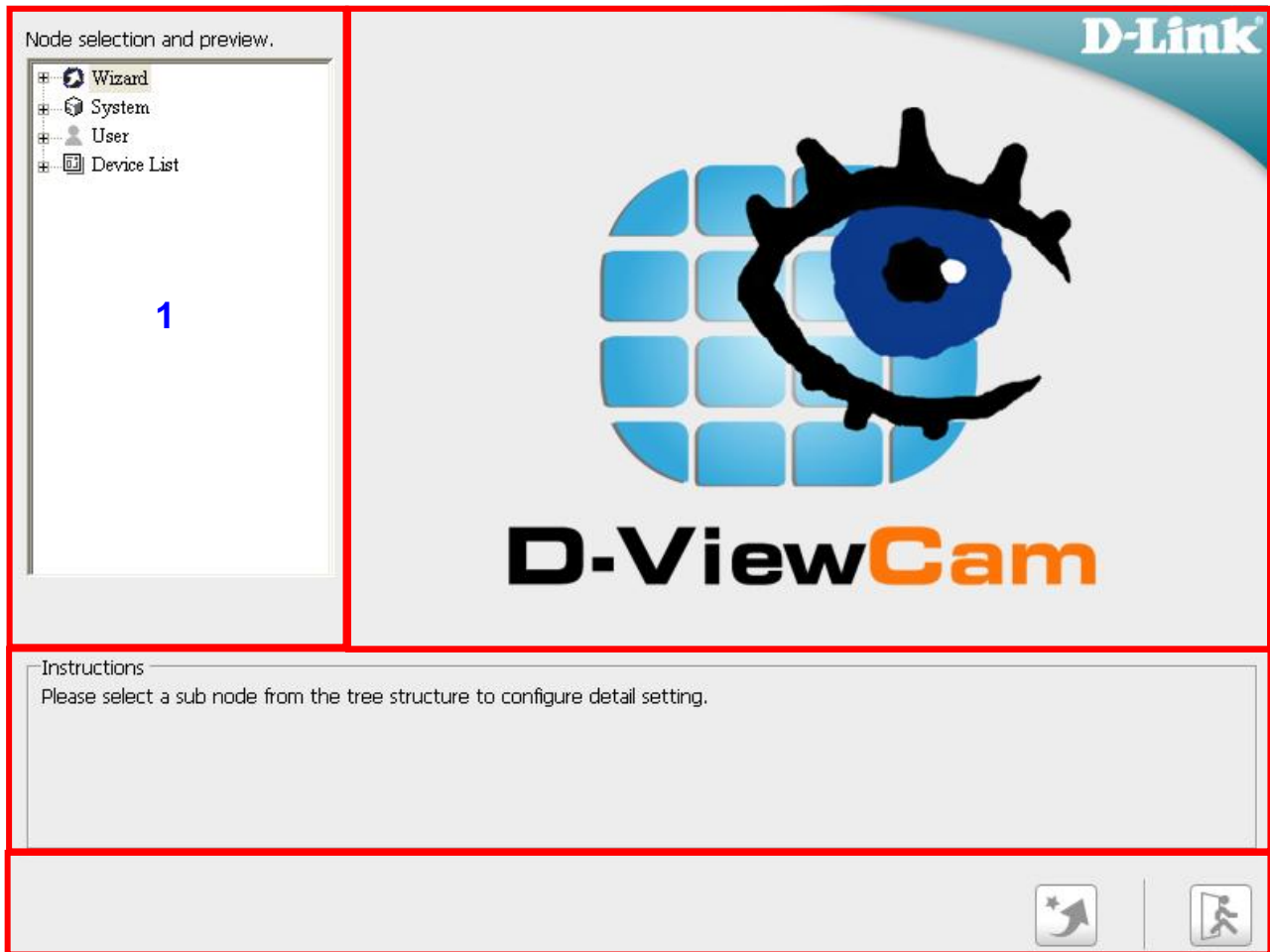


## E.2. Expert Mode

Expert mode is similar to wizard mode. The two modes differ in the amount of settings available. Wizard mode offers minimal amount of settings, while expert mode provides comprehensive options and settings that you can modify.

Click the “System Configuration” button and select “Expert Mode” button, the system will bring up the expert mode configuration panel.

### Expert Mode Main Screen Interface



#### Area description:

Area No.	Area Name	Description
1	Node selection and preview	1. <b>Wizard:</b> Provides access to the Wizard functions 2. <b>System:</b> This setting is more concerned with the whole



	<b>Area</b>	system management, such as <i>Basic Setting</i> (allocating disk spaces for recording), <i>Event Action</i> (set an action when the Recording Path Error or Disk Full event is occurred), <i>Email Server Setting</i> (setup Email server for event notification). <b>3. User:</b> The system only provides five user accounts, one administrator account and four user accounts. (See Section E.2.3.). <b>4. Map:</b> The default map is called My Map, you can build your own are maps and assign device(s) to any map as you wish. (See Section E.2.4.).
<b>2</b>	<b>Operation Area</b>	Display system configuration UI according to function selected in Area 1
<b>3</b>	<b>Instruction Area</b>	Display help information for operations in Area 2
<b>4</b>	<b>Button Area</b>	Change to “Wizard Mode” button and “Exit” button

### How to configure Expert Mode

<b>STEP 1</b>	<b>STEP 2</b>	<b>STEP 3</b>
Select a node in Area 1	Area 2 will change according your selection in Area 1	Use button in Area 4 to activate the setting

## E.2.1. Wizard

---

This mode function is same with the Section E.1.

### E.2.1.1. Add IP Camera(s)

---

Start add new IP camera wizard, please refer to Section C.3.

## E.2.2. System

---

In system configuration, you can set the Basic Setting, Event Action and Email Server Setting.

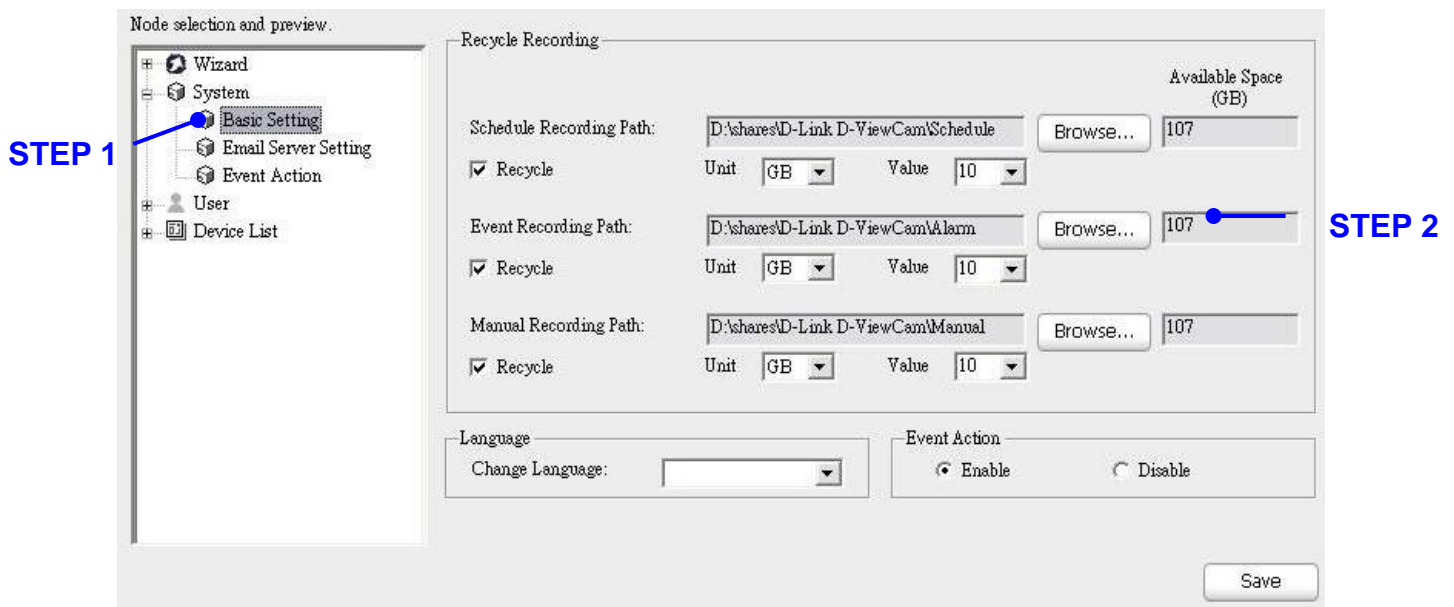
### E.2.2.1. Basic Setting

---



- STEP 1:** Select the “Basic Setting” from the tree menu.
- STEP 2:** Assign recording paths for: schedule recording, event recording, manual recording, snapshot storage and backup.
- STEP 3:** You can change the system language to English or Chinese Traditional.
- STEP 4:** Enable/Disable the event action function.

The system will detect whether the assigned recording path exists. If not, the system will inform you to change it to an appropriate path. Please follow the instructions below.



**[Description]**

**Recycle:**

The system will automatically delete out-dated data to reclaim storage space. You can choose the recycle unit (in GB or days).

**Recycle rule:**

1. When the image data exceeds 90% of recycle unit, the system will trigger a warning message to related parties.
2. The system will overwrite historical data when it reaches 80% of recycle unit.



**Available space (GB):** The system will count and display the available space of your disk in this textbox.

**[Note]**

All recording files will be recorded in D-ViewCam Windows Home Server Edition (D:\Shares\D-Link D-ViewCam), you can find schedule recording under Schedule file folder, event recording under Alarm file folder, and manual recording under Manual file folder.

### E.2.2.2. Event Action

Set event actions for the system events: “recording path error” or “disk full” event. For device event action, see Section E.2.4.2.4.

- STEP 1:** Select the “Event Action” from the “Node selection and preview” area.
- STEP 2:** Select an event type from “Available Events”. The system will show Set Event Action window. For this setting, please refer to “Event Action List Table” section below.
- STEP 3:** After setting the event action, the action(s) configuration will show on the “Action Table”. You can use “Modify” or “Remove” buttons to modify or remove these settings.

**[Note]** You can cancel the event notification by setting a timer or manually cancel it.

Node selection and preview.

- Wizard
- System
  - Basic Setting
  - Event Action**
  - E-MailServerSetting
- User
- Device List

**STEP 1**

Add Event

Recording Path Error      Disk Full

**STEP 2**

Event name: Recording Path Error

Select an action

- Change Digital Output State
- Send Email
- Play Sound
- Show Live Video
- Start Recording
- Go to Preset Point

Seconds before starting event action: 0

Remark:

**STEP 3**

Item	Event Type	Action

Set Digital Output

- My Map
- DCS-53000-38
- DCS-6620-177

Output state

- On
- Off

Instructions

To change digital output (relay) on an event, please select a digital output (relay) and target status.

For All Event Notification

- Automatic cancel after 30 seconds
- Manual cancel only



## Event Action (for System) List Table

The screenshot shows the configuration interface for setting a digital output state. It is divided into three steps:

- STEP 1:** Select an action. The 'Change Digital Output State' option is selected.
- STEP 2:** Set Digital Output. A tree view shows 'My Map' expanded to show 'DCS-53003-38' and 'DCS-6630-177'. The 'Output state' is set to 'On'.
- STEP 3:** Seconds before starting event action. The value is set to '0'.

Additional fields include 'Event name' (Recording Path Error), 'Remark', and 'Instructions' (To change digital output (relay) on an event, please select a digital output (relay) and target status.).

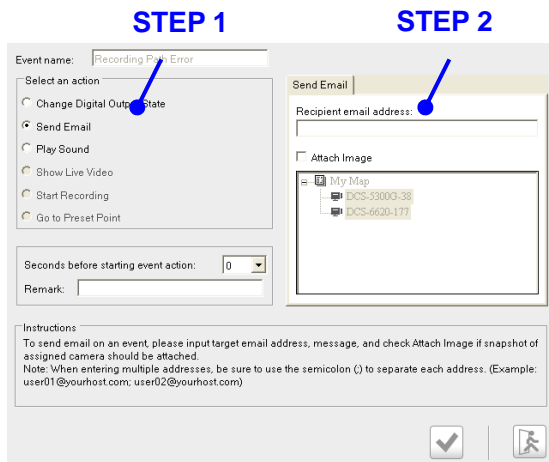
### Change Digital Output State.

Triggers the devices that connect to the system, such as alarm lights and sirens. When an event occurred, you can change the device status (available for digital output only).

**STEP 1:** Select an action (Change digital output state) and digital output.

**STEP 2:** Change the output state to on or off.

**STEP 3:** Seconds before starting event action means the delayed time before execute the event action. If you prefer NOT to start the event action immediately, you can set a wait time so that the action will start after the wait time has expired. Click "OK" to activate this setup.



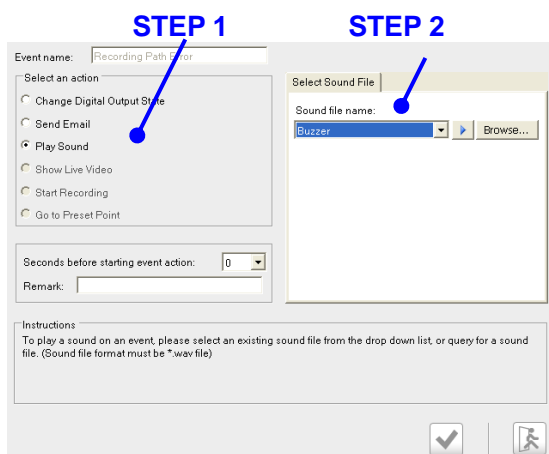
### Send Email.

The system will send an E-mail to the specified accounts indicating the type of event and attach an image taken while the event occurred.

**STEP 1:** Select an action (Send email) and fill in the E-mail address.

Check the Attach image checkbox if you want the system send the image taken from the selected IP camera.

**STEP 2:** Seconds before starting event action means the delayed time before execute the event action. If you prefer NOT to start the alarm immediately, you can set a wait time so that the action will start after the wait time has expired. Then click "OK" to activate this setup.



### Play Sound.

**STEP 1:** You can select a sound from the drop-down menu or you can select your own sound file by clicking the "Browse" button and choose a Wave file (.wav).

**STEP 2:** You can test the sound file by clicking the play sound button.

**STEP 3:** Seconds before starting event action means the delayed time before execute the event action. If you prefer NOT to start the





alarm immediately, you can set a wait time so that the action will start after the wait time has expired.  
Click "OK" to activate this setup.

### E.2.2.3. Email Server Setting

---

This function is used to set up an email server that will be used to send event notifications.

**STEP 1:** Select "Email Server Setting" from the tree menu at left.

**STEP 2:** Input the email server information.

**Server Name/IP:** Input your email server name of your email provider.

Example: mail.test.com or an IP address, such 192.168.1.1

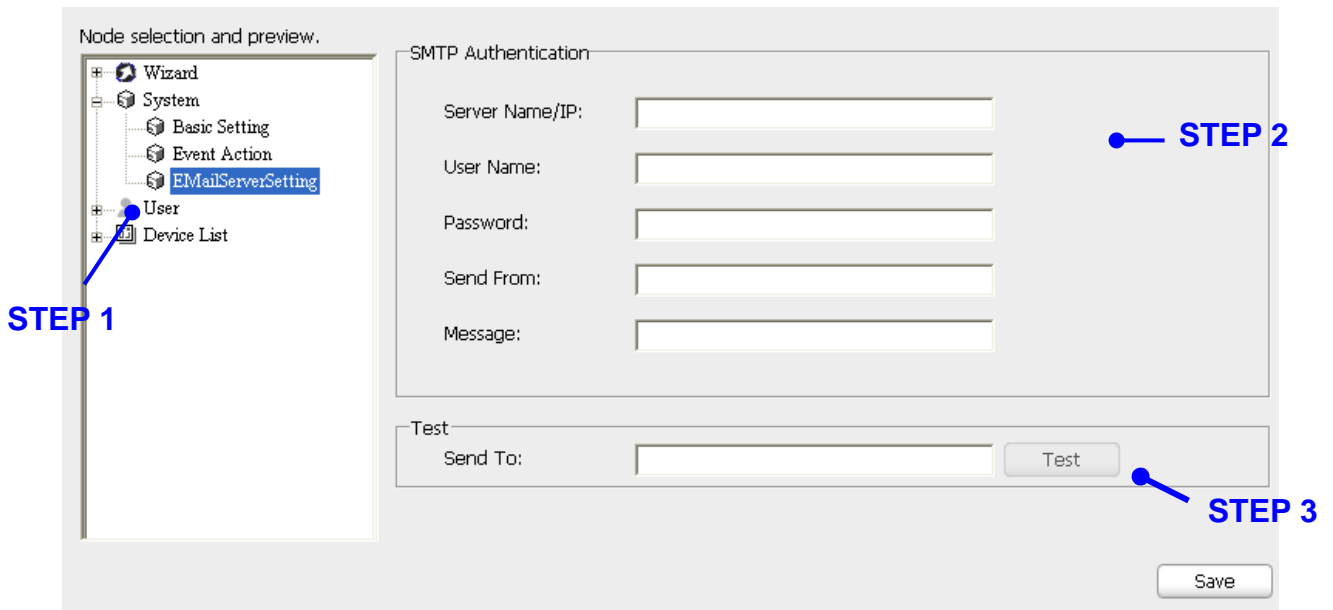
**Username:** Input email account ID. Example: sender

**Password:** Input email account password. Example: your password

**Send From:** Insert sender email address. Example: sender@mail.test.com

**Message Subject:** Insert your email message. This message will send to your email once an event is detected. Example: An alarm occurs in the kitchen.

**STEP 3:** Click "Test" button to test the setting. An email will be sent using the current setting. Then click "OK" to activate this setup.



### E.2.3. User

---

The system provides 5 user accounts, 1 administrator account and 4 user accounts.

#### E.2.3.1. Administrator

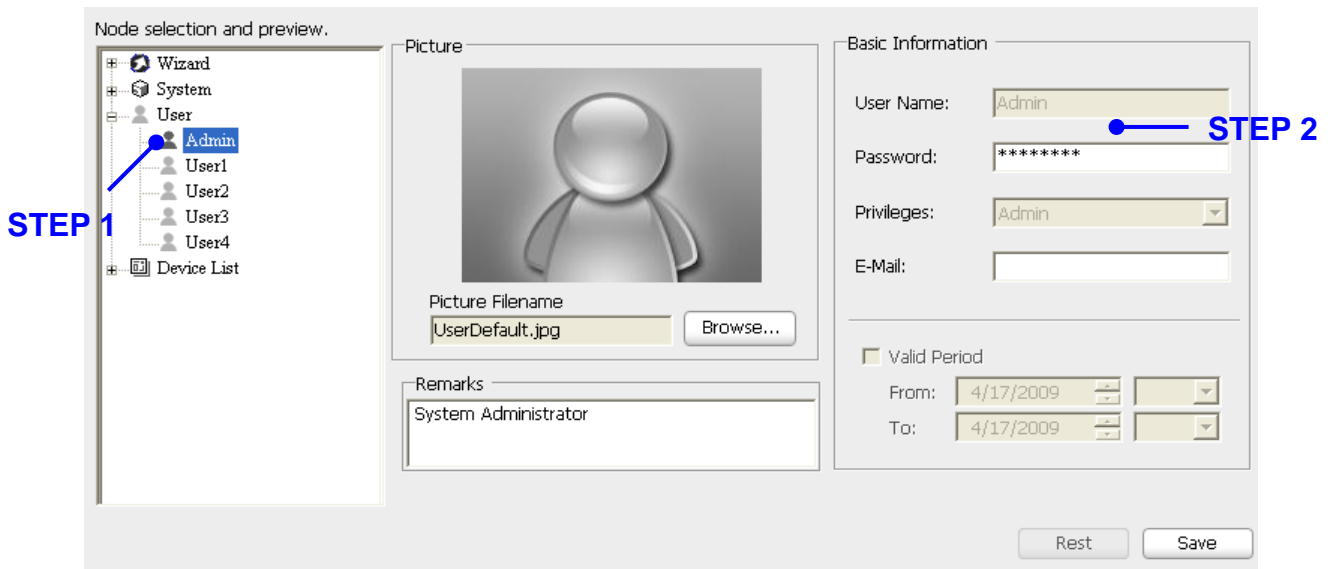
---

Only an administrator may modify the settings here.

**STEP 1:** Select the “Administrator” from the left menu.

**STEP 2:** You can upload a picture of administrator.

Fill in the basic information. You can change the password here and fill in the email address. Email format: abc@abc.com. Then click “OK” to activate this setup.



### E.2.3.2. Normal User

---

The administrator may manage the other user accounts here. The system provides four user accounts to set up. You can modify or remove information from user accounts but can not add more accounts.

**STEP 1:** Select the “User1” from the tree menu at left.

**STEP 2:** You can upload a picture of user.

Fill in the user’s basic information. You can change user name, password, fill in the email address, and modify the privilege setting here. A normal user can be administrator if he receives administrator privilege. Email format: abc@abc.com. You can adjust this user’s valid time. Then click “OK” to activate this setup.



D-ViewCam


## Home Surveillance Solution for Network Camera and Home Server

Node selection and preview.

**STEP 1**

- Wizard
- System
- User
  - Admin
  - User1**
  - User2
  - User3
  - User4
- Device List

Picture



Picture Filename: UserDefault.jpg

Remarks: System User1

**STEP 2**

Basic Information

User Name:

Password:

Privileges:

E-Mail:

Valid Period

From:

To:

## E.2.4. Map

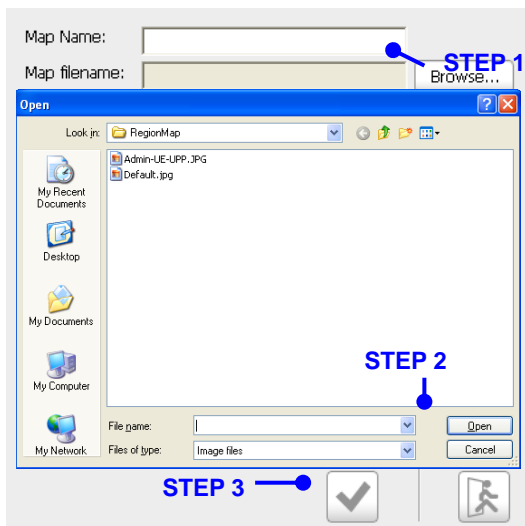
---

The default map is called “My Map”. Feel free to build your own maps and assign the device(s) to any map.

### E.2.4.1. My Map

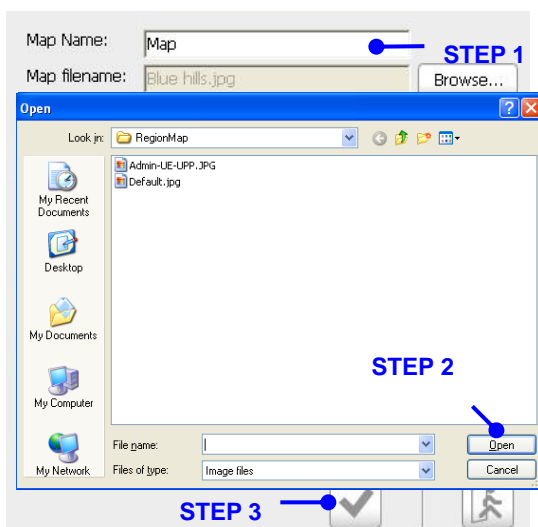
---

My Map is the system’s default map, you can build your own map by adding it and assign the device(s) to any map as you like.



#### Add Map.

- STEP 1:** Type a map name, then click “Load Map” button.
- STEP 2:** Select an image file, then click “Open”.
- STEP 3:** Click “OK” to save and exit the setting. The new map will be added to the tree menu at left.



#### Modify Map.

- STEP 1:** Click “Browse” button to locate the desired image file or input the image filename directly.
- STEP 2:** Select an image file, then click the “Open” button.
- STEP 3:** Click “OK” to save and exit the setting. The new map image will be loaded to the Map Display Area.

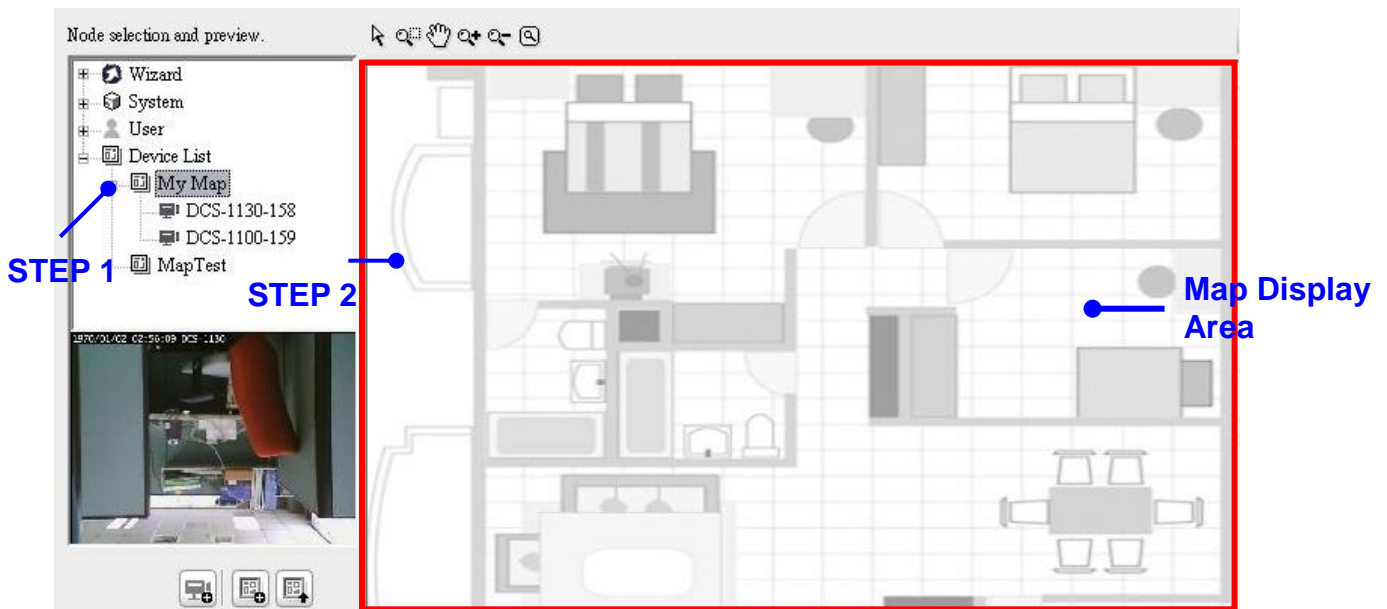
### Placing Device to eMap

**STEP 1:** Select My Map icon at the Node Selection and Preview Area. The selected eMap will be displayed at the Map Display area.

**STEP 2:** Drag the device icon from Node Selection and Preview Area, and then drop it onto the eMap Display Area.

Right click the device icon in eMap interface, you will find eight directions to select to indicate what direction that IP camera is facing.

**[Note]** All devices could be deleted by right click device icon in the eMap interface to find “Delete” function.



**[Note]**

**1: Pointer**

**2: Area Zoom**

**3: Move**

**4: Center Zoom in**

**5: Center Zoom out**

**6: Default Scale**



### E.2.4.2. Device Setting

---

Device should be configured in Expert Mode. If the device displays disconnected, the device setting such as preset, motion detection, and image quality function will be disabled.

The following section will explain the details of device setting.

#### E.2.4.2.1. Device Setting – Information

---

##### Camera Basic Information

Information	Preset	Motion Detection	Event Actions	Schedule/Recording	Image Quality
<b>Basic Information</b>		<b>Networking Information</b>			
Camera Name:	DCS-5300G-38	IP Address:	10.128.20.38	Device Port:	80
MAC Address:	000D887CF987	Status:	Connected		
Model Name:	DCS-5300G				
Camera ID:	admin				
Camera Password:	*****				
<b>Select Orientation</b>		<b>Audio</b>			
<input checked="" type="radio"/> Normal		<input type="radio"/> Enable			
<input type="radio"/> Vertical Flipped		<input checked="" type="radio"/> Disable			
<input type="radio"/> Mirror Image					
<input type="radio"/> Inverted					
<input type="button" value="Save"/>					

#### [Description]

##### Camera Information:

Camera Name, ID and Password: You can change this information.

Model name, IP address, Device Port, MAC Address, and Status: The system will load this information automatically, and you can not modify this information.

##### Networking Information:

IP Address, Device Port: You can change the camera IP address and its port number. Status: The system will load this information automatically, and you can not modify the



status manually.

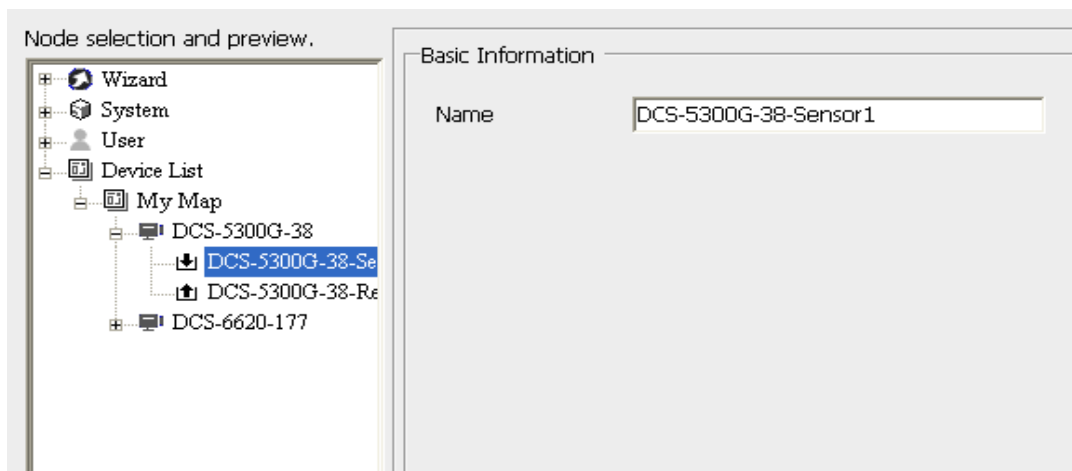
**Select Orientation:** If the IP camera is installed upside down, use this function to flip the image upside down or Mirror Image to flip the image to the left/right or both.

**Audio:** Check Enable checkbox to disable this two way audio function.

### Sensor/Relay Basic Information

To configure the camera's sensor and relay, expand the camera node from the Node selection and preview, then select the sensor/relay node.

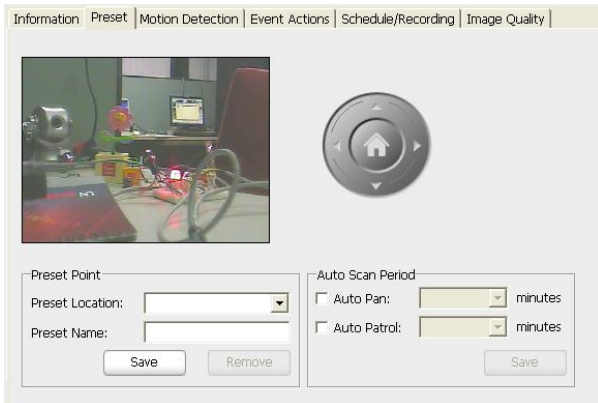
In the sensor/relay page, you can re-name the sensor/relay and define the normal status for sensor/relay on the sensor/relay page. Sensor/relay will be triggered when the status is different from its normal state.



#### E.2.4.2.2. Device Setting – Preset

---





### Preset Point

Preset Location specifies the IP camera to point to. Preset Name specifies the IP camera pointer position name.

**STEP 1:** Use the PT Control interface to adjust the direction of IP camera. Choose a number in Preset Location field, and enter a name of this point in Preset Name text box.

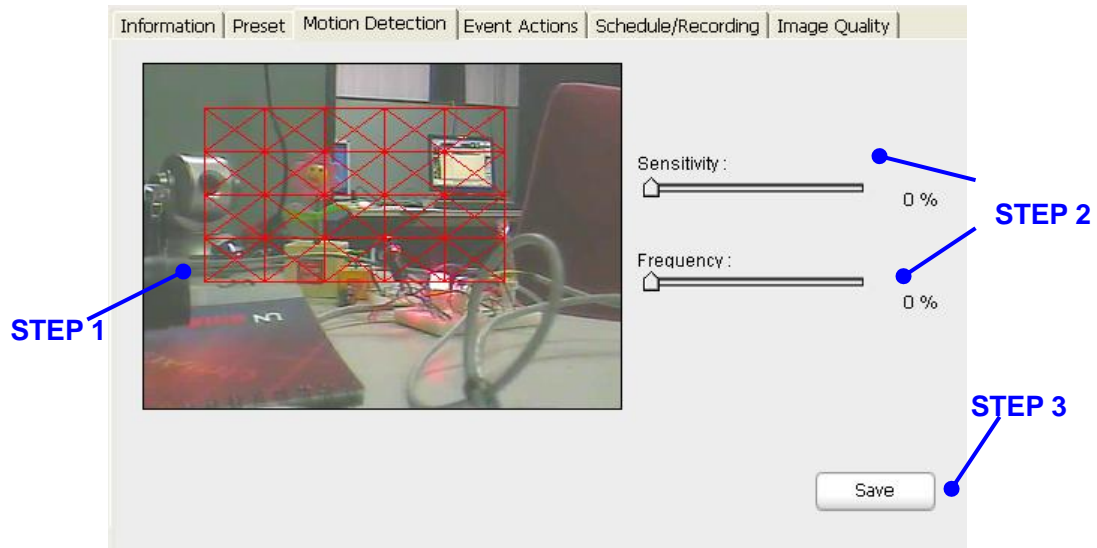
**STEP 2:** Click “Save” and the newly added preset name will show up in the Preset Location field (you can also add other preset points in the same way)

**STEP 3:** Select the Preset Location and click “Remove”.

### Auto Scan Period

The IP camera will auto pan and auto patrol within this time interval. You may get service of Periodically AutoPan and Periodically AutoPatrol by assigned interval, but this service will stop the alarm service of that IP camera, including Event Action of Go Preset.

### E.2.4.2.3. Device Setting – Motion Detection



To detect specific area motion detection, you have to define a detection zone.

**STEP 1:** Move your mouse to the live video area. A red square will follow mouse movement, click to place the red square to the area of motion detection or click to deselect a specified area. Any motion within the detected area should over the threshold of sensitivity to trigger a motion detection alarm.

**[Note]** You may define more than one zone on the screen by repeating the same process.

**STEP 2:** Set the sensitivity and frequency percentage.

**[Note]** It is recommended not to set the sensitivity higher than 80%

**STEP 3:** Click “Save” button.

#### **[Description]**

**Sensitivity:** Modify the sensitivity setting by changing the slider control. Move toward right will increase the sensitivity level, which means a relatively small movement will trigger an action. Move the slider control toward left will reduce the sensitivity for movement detection.

**Percentage:** Modify the percentage setting by changing the slider control.

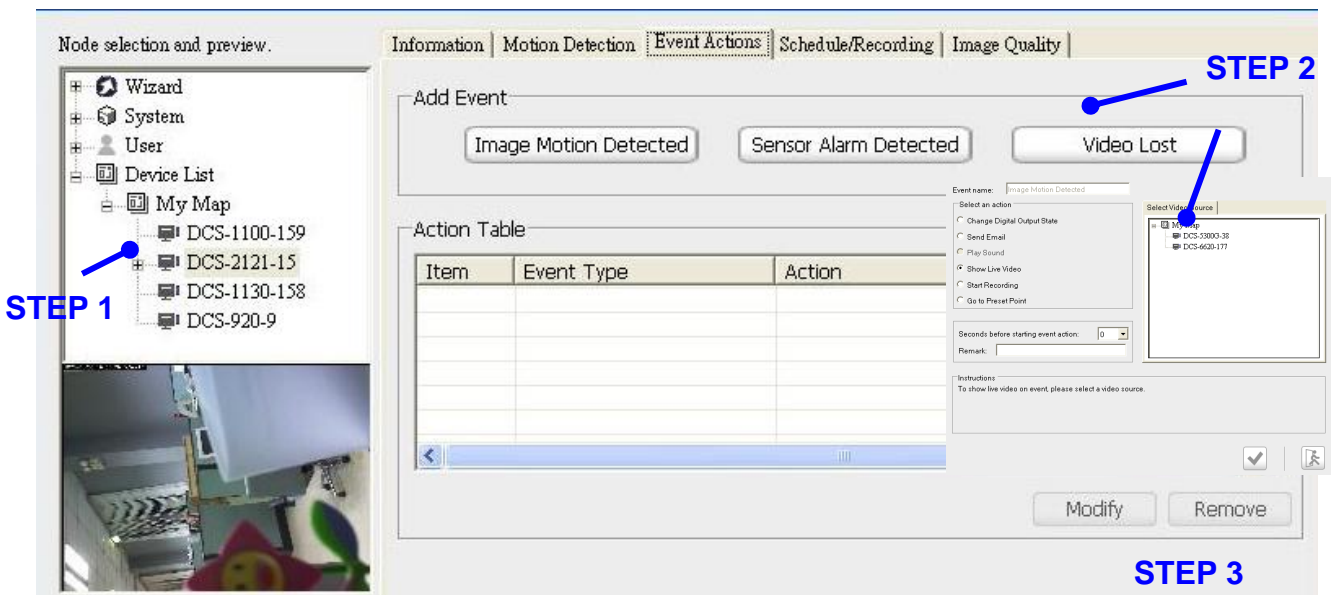
**Save:** Save the settings.



### E.2.4.2.4. Device Setting – Event Actions

These event actions are more related to the device event, such as: when the “image motion detected” or “sensor alarm detected” or “video lost” event occurred. For system event action setting, please refer to Section E.2.2.2.

- STEP 1:** Select the Device Icon from the “Node selection and preview” area.
- STEP 2:** Select an event type from the “Available Events of Selected Device Table”. The system will show Set Event Action window. For this setting, please refer to “Set Event Action Table” description.
- STEP 3:** After setting the Event Action, the action(s) configuration will show on the “Action Table”. You can use these buttons to modify or remove these settings.



## Event Action (for Device) List Table

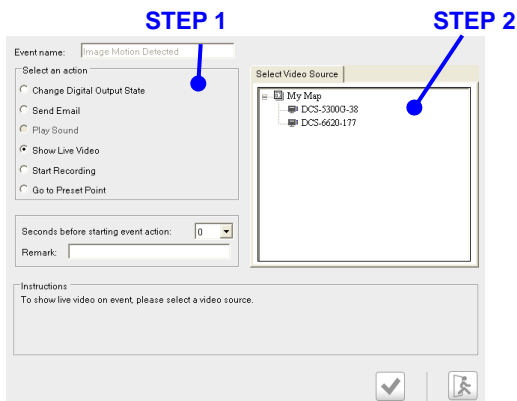
### Change Digital Output State:

Please refer to Section E.2.2.2.

### Send Email:

Please refer to Section E.2.2.2.

### Show Live Video



The screenshot shows the configuration interface for the 'Show Live Video' event action. The 'Event name' is 'Image Motion Detected'. Under 'Select an action', 'Show Live Video' is selected. Below this, there is a dropdown for 'Seconds before starting event action' set to 0 and a 'Remark' field. A 'Select Video Source' dialog is open, showing a tree view with 'MyMap' and two sub-items: 'DCS-53000-38' and 'DCS-6620-177'. Blue arrows labeled 'STEP 1' and 'STEP 2' point to the 'Show Live Video' radio button and the selected video source, respectively.

**STEP 1:** Select Show Live Video action.

**STEP 2:** Select a video source.

(1) If only one event is triggered, the different device breached by Show Live Video event action will be displayed on the 4 split screen and it is arranged starting from up-left to up-right, low-left, and low-right.

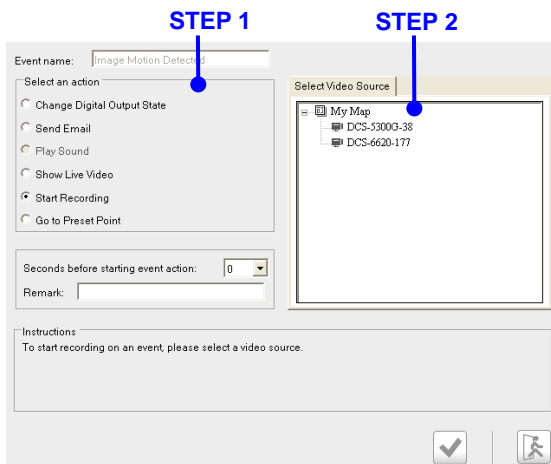
(2) If live video is breached by different event source, live video is displayed accordingly. If the number of live video is greater than 4, they will be displayed rotationally.

**[Note]** Seconds before starting event action means the delayed time before execute the event action. If you prefer NOT to start the event action immediately, you can set a wait time so that the action will start after the wait time has expired.

Click "OK" to activate this setup.



### Start Recording



The event recording of breached camera; event recording time is set by number of seconds.

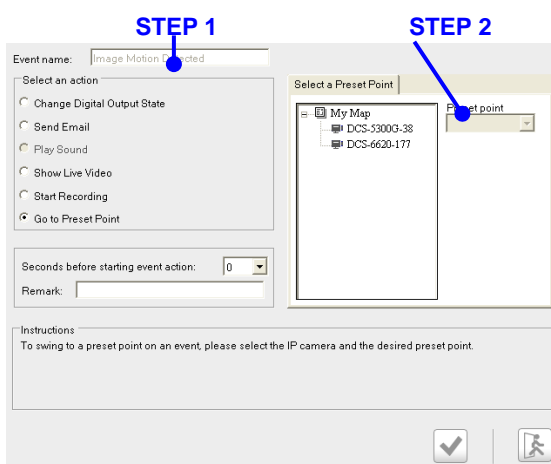
**STEP 1:** Select “Start Recording” Action.

**STEP 2:** Select a video source.

**[Note]** Seconds before starting event action means the delayed time before execute the event action. If you prefer NOT to start the event action immediately, you can set a wait time so that the action will start after the wait time has expired.

Click “OK” to activate this setup.

### Go to Preset Point



Turn to the preset location upon the motion triggering.

**STEP 1:** Select “Go to Preset Point” Action.

**STEP 2:** Select Preset Point edited in Section E.2.4.2.2. from Preset Point field. When event is detected, the system will turn PT camera to the specified preset location. Then click “OK” to activate this setup.

**[Note]** Seconds before starting event action means the delayed time before execute the event action. If you prefer NOT to start the event action immediately, you can set a wait time so that the action will start after the wait time has expired.

Click “OK” to activate this setup.



### E.2.4.2.5. Device Setting – Schedule/Recording (Settings)

---

Information | Motion Detection | Event Actions | **Schedule/Recording** | Image Quality

Settings | Schedule | Specific Date

Recording Rate

FPS of Scheduled Recording: 10

FPS of Event Recording: 10

Event Recording Length

Pre-Event Length: 5 seconds

Post-Event Length: 15 minutes

Save

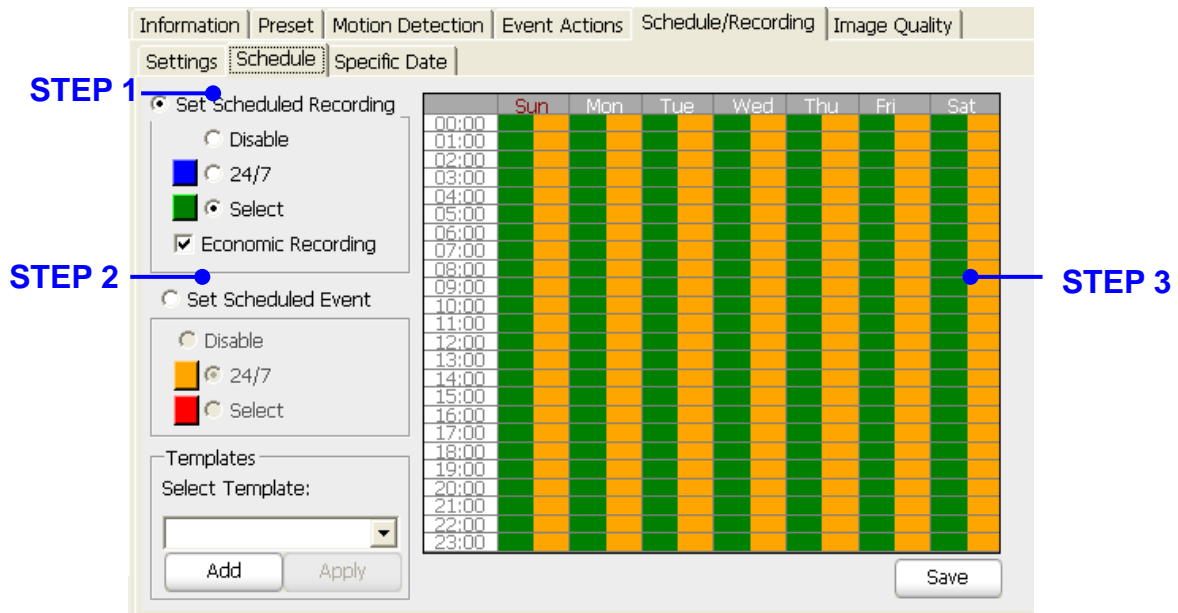
**[Description]**

**Recording Rate:** Set the recording frame rate, in frames per second (FPS).

**Event Recording Length:** Define the time length of event recording for pre-event and post-event. **The recording length is the total time of pre-alarm and post-alarm length.**

**[Note]** If successive alarm occurred during this interval, it will be ignored.

### E.2.4.2.6. Device Setting – Schedule/Recording (Schedule)



**STEP 1:** Select Set Scheduled Recording to set up schedule recording type, or select Set Scheduled Event to set up event recording type.

**STEP 2:** **Scheduled Recording Setting.**

The system provides five schedule recording types:

- \* **Disable:** No video will be recorded for this schedule.
- \* **24/7:** Video will always be recorded.
- \* **Select:** Video will be recorded base on your selection.
- \* **Economic:** Tick Economic checkbox will only record video is detected by motion to save your storage for schedule recording.

**Scheduled Event Setting.**

- \* **Disable:** When there is an event occurred, no video will be recorded.
- \* **24/7:** When there is an event occurred, the video will always be recorded.
- \* **Select:** When there is an event occurred, the video will be recorded base on your schedule.



**D-ViewCam**

Home Surveillance Solution for Network Camera and Home Server

**STEP 3:**

For any Select option, you can select the time period for which you want to schedule a recording. The activated block will be colored. To cancel or modify a schedule setting, click the colored block to deactivate it.

**[Description]**

**Templates:**

This template provides template for you to apply. You must add/set a template first before apply it to other devices.

**Add Template:**

You can add your recording scheduled setting to a template.

**Apply Template:**

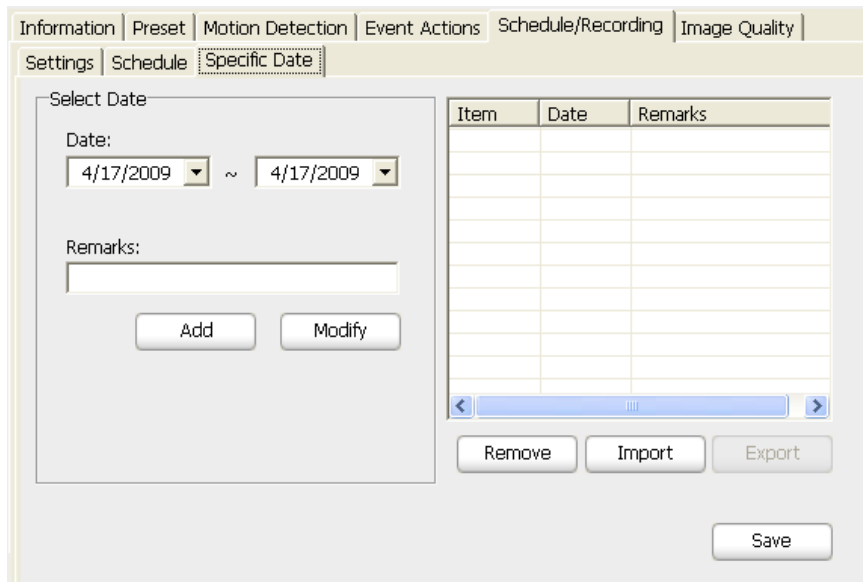
You can select a template from the drop-down menu then click “Apply” the setting from other devices, if any. This can save some effort in setting up the recording schedule.





### E.2.4.2.7. Device Setting – Schedule/Recording (Specific Date)

- STEP 1:** Select the start date and end date.
- STEP 2:** Put a remark for the specific date.
- STEP 3:** Click “Add” to add a specific date to the table at left.
- STEP 4:** If you want to modify the specific date, click a specific date from the table, then modify the date and remarks, and click “Modify”.
- STEP 5:** Click Import/Export button to load or output the specific date.
- STEP 6:** Select a specific date and click “Remove” to delete the specific date.



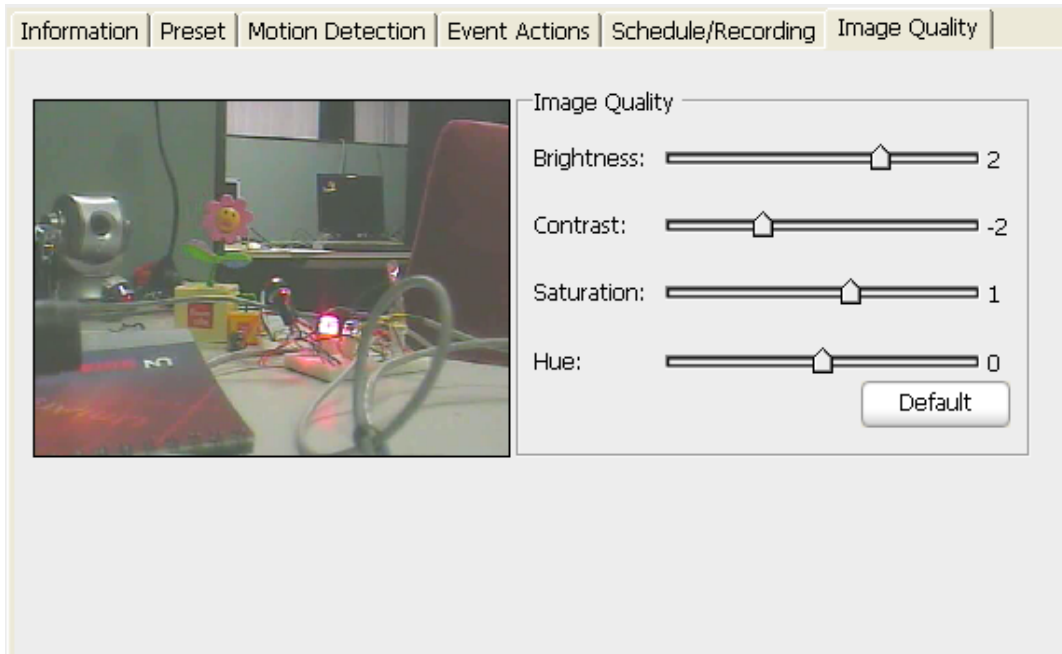
#### [Description]

- Date:** Select the specific date period.
- Remarks:** You can put a remark to describe the specific date.
- Add:** Click “Add” to add a specific date.
- Modify:** You can modify the specific date by selecting a specific date and click “Modify” button.
- Import:** Click “Import” to import from another setting.
- Export:** Click “Export” to save the holiday list defined here into a text file. This can later be import by another setting to save effort.
- Remove:** Remove the specific date.



### E.2.4.2.8. Device Setting – Image Quality

---



**[Description]**

- Contrast:** The difference in color and light between parts of an image.
- Brightness:** An image appears to emit a given amount of light.
- Hue:** Aspect of a color described with names.
- Saturation:** The intensity of a specific hue.
- Default:** Click the “Default” button to preset all the setting to default values.



## F. Playback

### F.1. Video Search and Playback Management

---

The “Video search and playback” button allows you to playback recorded video through the schedule recording, event recording, manual recording, or above all.

**STEP 1:** Select the video type, start and end date.

**STEP 2:** Select device type, and then click “Query”.

Or you can browse the file which has been backup by clicking the “Browse...” button.

**STEP 3:** Double click the file you want to playback from the result list.

**STEP 4:** You can use the button in the Playback Control area to playback the video.

The system allow you to rewind, fast backward, stop/pause, fast forward, snapshot an image and enlarge the video display by clicking the “Switch to full mode” button.

**Switch to full mode.**

Click the “Switch to full mode” button in the playback control, the system will switch to full video display mode, and click the ”Switch to default mode” to go back to video search and playback page.

**STEP 5:** Click “Close” button to return to main screen.



D-ViewCam

Home Surveillance Solution for Network Camera and Home Server

**STEP 1** Type of Video

**STEP 2** Select Device

**STEP 3** Result List

**STEP 4** Playback Control (1: Rewind, 2: Play, 3: Stop, 4: Fast forward, 5: Snapshot, 6: Switch to full mode)

**STEP 5** Video Display

**STEP 6** Full Screen Icon

**[Note]**

- 1: Rewind**
- 2: Play**
- 3: Stop**
- 4: Fast forward**
- 5: Snapshot**
- 6: Switch to full mode**

**[Description]**

**Type of Video:** The system provides three type of video: schedule recording, event recording, and manual recording.

**From, To:** You can assign the system to query particular date.

**Select Device:** The system lists all the devices attached on your system.

**Result List:** A query result will appear in the spreadsheet. You can assign the



**D-ViewCam**

Home Surveillance Solution for Network Camera and Home Server

system to print out how many records in a page. And use the paging button to navigate the page of the spreadsheet.

**List View/**

Switch the result list to list view or thumbnail view.

**Thumbnail View:**

**Playback Control:**

You can use the button in the control area to operate the video.



## F.2. Event Search and Playback Management

---

The “Event search and playback” button allows you to playback the event which recorded by the system. Here you can choose the type of events you want to view by checking the checkbox, choose a channel you want to view, query the event also you can play the video and you can export the event log information to .txt file (this log contents: Date/Time, Source, Type, Action, Relation Source and Context information).

- STEP 1:** Select the event type, start and end date.
- STEP 2:** Select device type, and then click “Query”.
- STEP 3:** If the result list has a recording file, double click the list, then the system will pop up a video display page and playback the video. Click “Close” button to return to event search and playback page.
- STEP 4:** You can export the log lists by clicking the “Export” button.
- STEP 5:** Click “Close” button to return to main screen.



**STEP 1**

Type of Event :

- All
- Camera
  - Motion Detected
  - Video Lost
- Digital Input

From: 4/17/2009 00:00  
To: 4/17/2009 24:00

**STEP 2**

Select Device:

- My Map
  - DCS-5300G-38
  - DCS-6620-177

Query

Log List

Show only topmost  records

Date/Time	Source	Type	Action
4/17/2009 11:10:2...	DCS-6620-177	ImageMotionDetected	Liv
4/17/2009 11:09:5...	DCS-6620-177	ImageMotionDetected	Liv
4/17/2009 11:09:2...	DCS-6620-177	ImageMotionDetected	Liv
4/17/2009 11:08:5...	DCS-6620-177	ImageMotionDetected	Liv
4/17/2009 11:08:2...	DCS-6620-177	ImageMotionDetected	Liv
4/17/2009 11:07:5...	DCS-6620-177	ImageMotionDetected	Liv
4/17/2009 11:07:2...	DCS-6620-177	ImageMotionDetected	Liv
4/17/2009 11:06:5...	DCS-6620-177	ImageMotionDetected	Liv
4/17/2009 11:06:2...	DCS-6620-177	ImageMotionDetected	Liv

Page: 1/12

**STEP 3**

Event Log Export

Export to :  Browse... Export

**STEP 4**

**STEP 5**

**[Description]**

- Type of Event:** The system provides several type of device event; different device has different event action.
- From, To:** You can assign the system to query event in particular date.
- Select Device:** The system lists all the devices attached on your system.
- Log List:** List the unusual event history that had been detected by the system.
- Export:** Export the event log information to .txt file.



## Appendix 1. Open Source Software Notification

D-ViewCam Windows Home Server Edition 1.x product makes use of the following software licensed under GPL (General Public License). Copies of the GPL licensed software are included in the software distribution CD of D-ViewCam Windows Home Server Edition 1.x product. You can also download the software from the official web site listed here.

### 1. Xvid MPEG-4 video codec version 1.1.3 ([www.xvid.org](http://www.xvid.org), GPL v2)

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