

PowerVideo Plus

EverFocus Central Management Software
for Networked Video Devices Management

User's Manual



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Contents

| | | |
|------------------|---|-----------|
| Chapter 1 | Introduction..... | 1 |
| 1.1 | Minimum System Requirements | 1 |
| 1.2 | Installation | 2 |
| 1.3 | Activation | 3 |
| Chapter 2 | Getting Started..... | 4 |
| 2.1 | Accessing the PowerVideo Plus | 4 |
| 2.2 | Main Screen | 5 |
| 2.3 | Adding an IP Device | 6 |
| 2.4 | Device List | 10 |
| 2.5 | Configuring the User Account..... | 13 |
| Chapter 3 | Live View | 15 |
| 3.1 | Live View Tool Bar | 15 |
| 3.2 | Matrix View..... | 16 |
| 3.3 | Floating Matrix..... | 18 |
| 3.3.1 | Activating Multiple Monitors | 18 |
| 3.3.2 | Configuring the Floating Matrix | 19 |
| 3.4 | Digital Zoom..... | 21 |
| 3.5 | Default Stream Settings | 22 |
| 3.6 | OSD Settings..... | 23 |
| Chapter 4 | Live View Recording | 24 |
| 4.1 | Changing the Recording Path..... | 25 |
| Chapter 5 | Local Playback..... | 26 |
| 5.1 | Remote Archive from the DVR / Mobile DVR / NVR..... | 26 |
| 5.2 | Playing Back Archived Recordings from the DVR / NVR / Mobile DVR..... | 28 |
| 5.3 | Playing Back Live View Recordings | 31 |
| 5.4 | Converting Multiple IP Camera Recordings into a Single AVI File | 34 |
| Chapter 6 | Remote Playback..... | 35 |
| 6.1 | Synchronize Playback..... | 36 |
| Chapter 7 | Dynamic E-Maps | 37 |
| 7.1 | Activating the Dynamic E-Maps..... | 38 |
| 7.2 | Creating a Group..... | 38 |
| 7.3 | Configuring the Dynamic E-Maps | 40 |
| Chapter 8 | Record Scheduler (DVR/MDVR/NVR/IP Camera)..... | 44 |
| Chapter 9 | Archive Scheduler | 46 |

| | | |
|-------------------|--|-----------|
| 9.1 | Changing the Recording Path of the Auto Archiving Server | 49 |
| Chapter 10 | Alarm Settings..... | 50 |
| 10.1 | Activating the Alarm Function | 51 |
| 10.2 | Configuring the Notification Settings | 55 |
| 10.2.1 | Motion Detection | 55 |
| 10.2.2 | Alarm Input..... | 57 |
| 10.2.3 | Video Loss..... | 59 |
| 10.2.4 | Fan Failure / HD Temperature / HD Full / HD Off | 61 |
| 10.2.5 | E-Mail Server Settings | 63 |
| 10.3 | Enabling the Alarm Function on the Main Screen..... | 64 |
| Chapter 11 | PTZ Control (IP Speed Dome) | 65 |
| 11.1 | PTZ Control..... | 65 |
| 11.2 | Auto Pan..... | 68 |
| 11.3 | Set Preset | 70 |
| 11.4 | Set Pattern | 71 |
| 11.5 | Set Tour | 72 |
| 11.6 | Auto Mode Settings | 74 |
| Chapter 12 | GPS Tracking..... | 75 |
| 12.1 | Activating GPS Tracking Function | 76 |
| 12.2 | Playing Back GPS Tracks | 78 |
| 12.3 | Configuring the GPS Fences..... | 79 |
| Chapter 13 | Backup Utility..... | 81 |
| Chapter 14 | Bandwidth Monitor..... | 83 |
| Chapter 15 | Other Functions | 84 |
| 15.1 | Applying DVR Settings to Multiple DVRs | 84 |
| 15.2 | Temporarily Disconnecting Live Streams | 85 |
| 15.3 | Lens Control (IP Camera) | 86 |
| 15.4 | PTZ Control for Speed Dome Cameras Connected to the DVR..... | 88 |
| 15.5 | Snapshot List..... | 90 |
| 15.6 | EKB200 | 91 |

Chapter 1 Introduction

The PowerVideo Plus is a central management system (CMS) that allows you to remotely manage EverFocus' DVR, Mobile DVR, NVR and IP cameras connected on the LAN or WAN.

Supported Models:

All EverFocus branded products (few products are still in the integration process)

Key Features:

- Simultaneously access any combination of IP, analog and mobile devices
- Up to 10 pages of 8 x 8 Live View Matrix screens with automatic timer based page flipping (see 3.2 Matrix View)
- Supports unlimited number of monitors up to Microsoft Windows minimum limit (see 3.3 Floating Matrix)*
- Manual, scheduled and event based recording
- Supports multiple recording folders and round-robin over-write schema
- PTZ controls and digital zooming
- Bandwidth monitor
- Time / Event / Smart search
- User access management
- GPS tracking*
- Dynamic E-Maps

The items marked with "*" only supported by the licensed version (see 1.3 Activation).

1.1 Minimum System Requirements


| | |
|------------------|--|
| OS (32 / 64-bit) | Windows XP (Service Pack 3) / Vista / 7 / 8 |
| CPU | Intel Core i3 |
| RAM | 4 GB |
| Graphic Card | DirectX 10 compliant graphics card |
| Ethernet | 10 / 100 / 1000 Base-T Ethernet |
| Hard Disk | 100 MB for program install (not include video storage) |

1.2 Installation



You have to download the PowerVideo Plus software and then install it in your computer. To download the PowerVideo Plus software, go to the Download Center of EverFocus' website (www.everfocus.com.tw) and follow the steps below.


1. Go to the Download Center Web page by clicking **Support** < **Download Center**.
2. Select **Software** from the Document type drop-down list.



3. Type "powervideo plus" in the Keyword Search column and then click the **Search**  button.

The PowerVideo Plus download information appears.

| <div> <div>Software</div> <div>Keyword Search powervideo plus </div> </div> | | | | | | |
|--|-----------------------|-----------------|--------------|---------|--------|---|
| Document type | File Description | Product Name | Release date | Version | Size | Download |
| Software | PowerVideo Plus v1.35 | PowerVideo Plus | 2013/12/09 | v1.35 | 62340K |  |

4. Click the **Download**  button to download the software to your computer.
5. Extract the zip file to your computer.
6. Find the **PowerVideo Plus.exe** and double click it.
7. Follow the on-screen instructions to complete the setup.

1.3 Activation

The PowerVideo Plus CMS software comes with three versions: **PVP Lite**, **PVP Pro-M** and **PVP Pro-IP**. To activate the licensed versions (PVP Pro-M and PVP Pro-IP), users are required to register using a valid key. The table below shows the supported functions of each PowerVideo Plus version.

Versions and Respective Functions of the PowerVideo Plus

| PVP Version | PVP Lite (Free) | PVP Pro-M (MDVR) | PVP Pro-IP (DVR / NVR + IP) |
|-------------------------------|--------------------|---------------------|--------------------------------|
| Max. Number of MDVR Device | 8 units | No restriction | 8 units |
| MDVR Channels on Live View | 64 channels | No restriction | 64 channels |
| Max. Number of DVR/NVR Device | 20 units | 20 units | No restriction |
| DVR/NVR Channels on Live View | 128 channels | 128 channels | No restriction |
| Max. Number of IPCam Device | 32 units | 32 units | No restriction |
| IPCam Channels on Live View | 32 channels | 32 channels | No restriction |
| IPCam Recording Channels | 16 channels | 16 channels | No restriction |
| Floating Matrix | 1 | No restriction | No restriction |
| GPS Function | No | Yes | No |

Online and Offline Activation

Users can activate the license by an Online or Offline process. Computers connected to the internet can be activated Online while computers without an internet connection should be activated using the Offline process.

Please be noted that each license can be activated to only 1 computer. Users can deactivate and transfer the license to another computer. Please refer to the following steps on how to activate the license Online / Offline.

Online Activation:

1. On the Main Screen, click **About** (No.8, *Figure 2-2*) and click **License Manager**. The following window appears.

PowerVideo Plus Activation

Activation Activated Licenses

☒ Online

Registration Name: EF

Installation Key: 3ZMM4YOB-5J0VEKTZ

License Key: iQ-48T5B67Z-4DG5ZSHR-4I36OERJ-1ZWWYTLST4PJ-3HFDDZK3-3M2EO1SN-SVEEUR11AI-3VCH9VWF-1FU24ZI-44MJ8K1R

Activation Key: WRIAXITTEO-16W8GGHOH05-1VB02WLOORO-1KDVFX5F3B-17N4RFHPSI-1VK78D1V7G-1KLC TE3KP4-1PCK3CJFT7-19Y W!

Activate

☐ Offline

Export Offline License File : C:\Documents and Settings\jio_kuo\桌面\Offline_Activation

Export Offline File Information

Import Offline Activation File : C:\Documents and Settings\jio_kuo\桌面\3ZMM4YOB-5J0VEKTZ.lic

Browse

Import

For Offline Activation please visit : <http://licensing.everfocus.in/OfflineActivation.aspx>

Figure 1-1

2. Select **Online**. Type a name in the **Registration Name** field. Copy your license key and paste it in the **License Key** field.
3. Click the **Activate** button, the PowerVideo Plus software will automatically display the Activation Key in the **Activation Key** field. And the below message pops up.

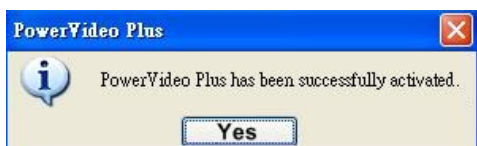


Figure 1-2

4. Click **Yes** to exit and the PowerVideo Plus will restart automatically.
5. In Figure 1-1, click the **Activated Licenses** tab, you will see the added License Key listed in the Activated License Key field.

PowerVideo Plus Activation

Activation Activated Licenses

| Activated License Key | License Detail | De-activate |
|--|------------------------|-------------|
| 494MI01R-4DRNS1XB-4IEOGO73-3D2E5873-3LU972WV-3QH9VP6N-3V4B5R27-2DL7GKI72CYF-44E... | Detail | De-activate |

Figure 1-3

6. If you want to deactivate a license key, in Figure 1-3, click to highlight a license key and then click the **De-activate** button.

Offline Activation:

If you have installed the PowerVideo Plus in a computer without an internet connection, you can use the Offline process to activate your license key. You will need to have another computer with internet connection for validating and generating an Activation Key.

1. On the Main Screen, click **About** (No.8, *Figure 2-2*) and click **License Manager**. The following window appears.

The screenshot shows the 'PowerVideo Plus Activation' window. It has two tabs: 'Activation' and 'Activated Licenses'. The 'Activation' tab is active. Under the 'Activation' tab, there are two radio buttons: 'Online' and 'Offline'. The 'Offline' radio button is selected. Below the radio buttons, there are four text input fields: 'Registration Name' (containing 'EF'), 'Installation Key' (containing '3ZMM4YOB-5J0VEKTZ'), 'License Key' (empty), and 'Activation Key' (empty). To the right of these fields is an 'Activate' button. Below the 'Offline' radio button, there are two text input fields: 'Export Offline License File' and 'Import Offline Activation File'. To the right of the 'Export Offline License File' field is an 'Export Offline File Information' button. To the right of the 'Import Offline Activation File' field are 'Browse' and 'Import' buttons. At the bottom, there is a text label: 'For Offline Activation please visit : <http://licensing.everfocus.in/OfflineActivation.aspx>'. The entire 'Offline' section, including the radio button, input fields, and buttons, is highlighted with a red rectangular box.

Figure 1-4

2. Select **Offline**. Click the **Export Offline File Information** to export the "Offline_Activation" file to this computer.

- Find another computer with internet connection. Open a browser and type <http://licensing.everfocus.in> in the address field to open the following Web page.

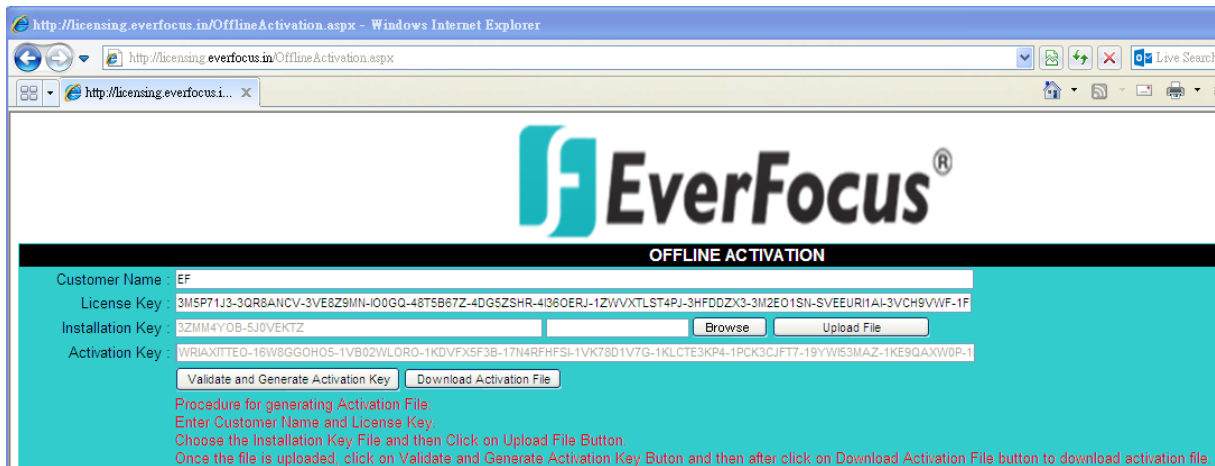


Figure 1-5

- Type a name in the Customer Name field. Enter your license key in the License Key field. Click the **Browse** button to browse the pre-exported "Offline_Activation" file.

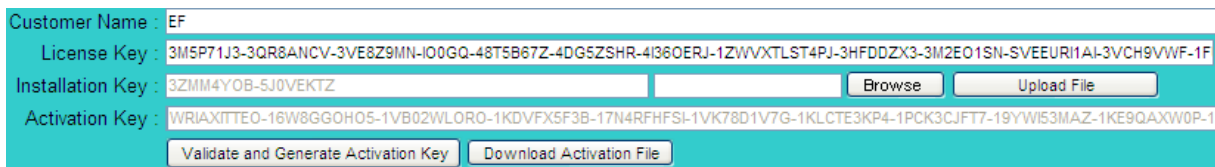


Figure 1-6

- Click the **Upload File** button, the Installation Key will be displayed automatically.
- Click the **Validate and Generate Activation Key** button, the Activation Key will be displayed automatically.
- Click the **Download Activation File** button to download the activation file (.lic) to this computer.
- In Figure 1-4, click the **Browse** button to browse the Activation File (.lic) and then click the **Import** button, the below message pops up.

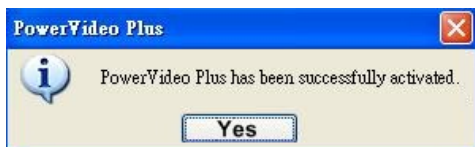


Figure 1-7

- Click **Yes** to exit and the PowerVideo Plus will restart automatically.

Chapter 2 Getting Started

2.1 Accessing the PowerVideo Plus

Start the PowerVideo Plus software, the following login dialog box appears. Please type your user name, password and then click the **Login** button to enter the system. The default user name and password are **admin**.

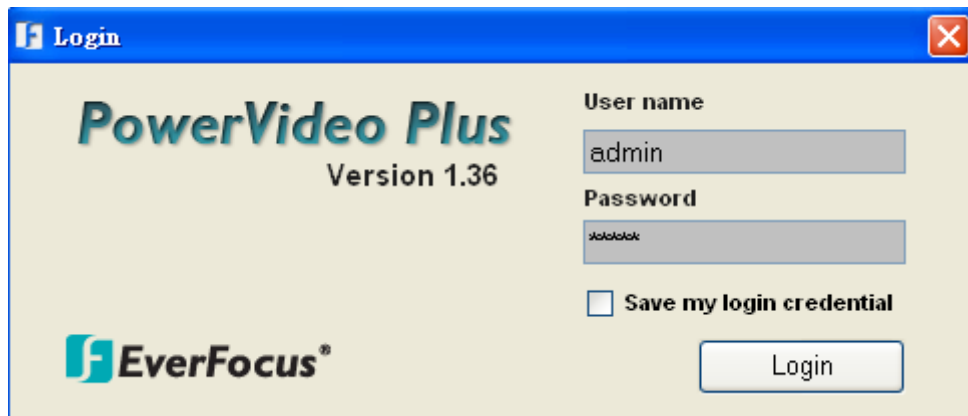


Figure 2-1

Note:

1. To change the language of the user interface, on the Main Screen, click **Option** (No.7, *Figure 2-2*) and click **Select Language**.
2. To change the username or password, on the Main Screen, click **Option** (No.7, *Figure 2-2*) and select **User Management**. See *2.5 Configuring the User Account*.

2.2 Main Screen

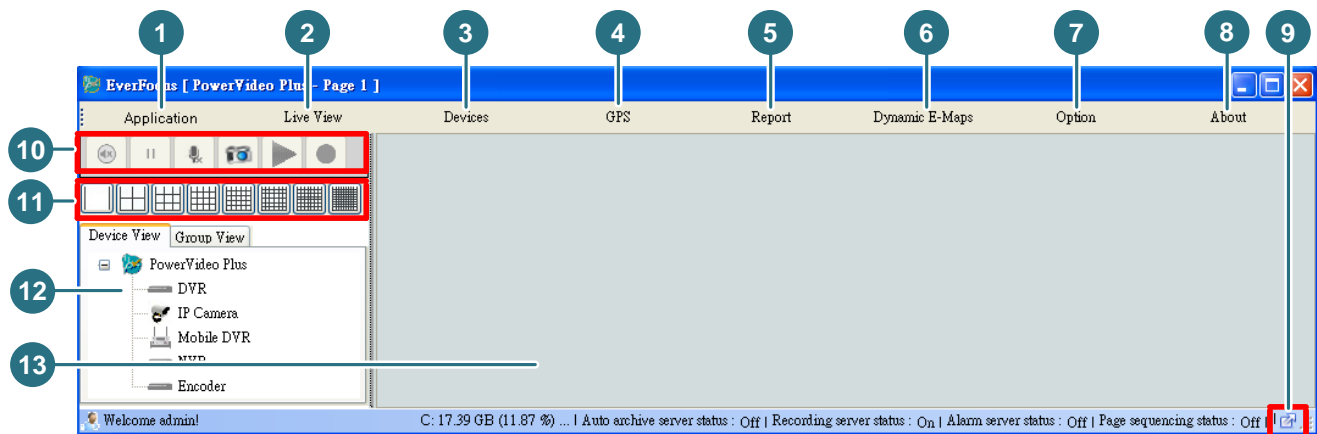


Figure 2-2

The controls on the Main Screen:

| No. | Name | Description |
|-----|---------------------------|--|
| 1 | Application | Click to log out or exit the system. |
| 2 | Live View | Click to modify the display of the Live View Matrixes. By default, the live view matrix is in single camera view. See 3.2 <i>Matrix View</i> . |
| 3 | Devices | Includes the functions related to Device Management, Remote Archive, Playback, Snapshot List Search and PTZ Control. |
| 4 | GPS | Click to start GPS tracking or playing back GPS data. |
| 5 | Report | Click to print out the alarm report. |
| 6 | Dynamic E-Maps | Click to start the Dynamic E-Maps function. See <i>Chapter 7. Dynamic E-Maps</i> . |
| 7 | Option | Click to set up the Storage Path, Recording Schedule, Archiving Schedule, User's Privileges Management, and the Language of the user interface. You may also start the Alarm Server, Auto Archive Schedule Server, Backup Utility and Bandwidth Monitor. |
| 8 | About | Click to view the version of the PowerVideo Plus and its list of supported devices. |
| 9 | Full Screen Icon | Click to view / exit full screen. |
| 10 | Live View Tool Bar | Use the Live View Tool Bar to operate the audio, video, snapshot, quick playback and recording functions directly on the live view window. See <i>Chapter 3. Live View</i> . |
| 11 | Layout Tool Bar | Click to select a layout. |
| 12 | Device List | Displays the list of connected IP devices. You can also Group the connected IP Devices. See 2.4 <i>Device List</i> . |
| 13 | Display Window | Displays the live view matrix. |

2.3 Adding an IP Device

You need to add a DVR, Mobile DVR, NVR or an IP camera before start using the device related features. You can automatically search for EverFocus' devices on the network and then add them to the Device List or add EverFocus' devices manually.

To automatically search for EverFocus' devices on the network:

1. Click the **Devices** button (No.3, Figure 2-2) and click **Device Management**. The following window appears.

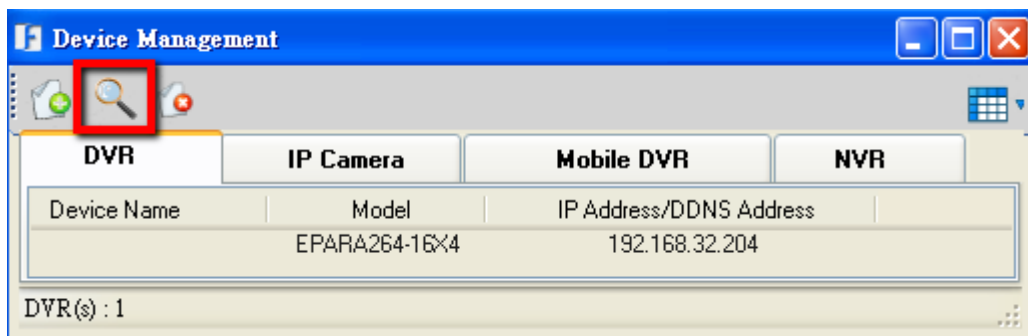


Figure 2-3

2. Click the **Auto Discover Devices** button . The connected devices will be automatically listed.

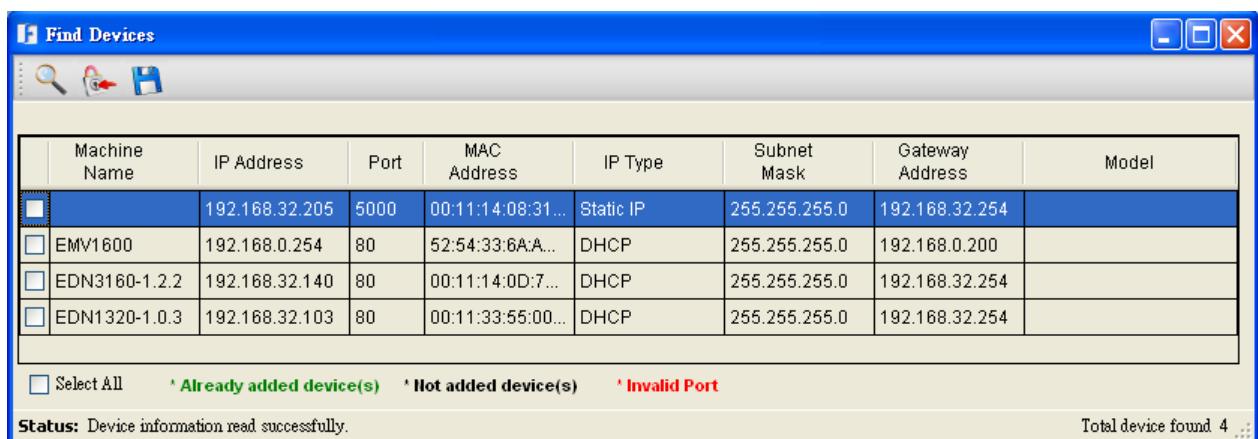



Figure 2-4

3. Check a box to select a desired device. Click the **Login** button , type the user name / password, and click **OK** to login. The system will detect the selected device automatically.

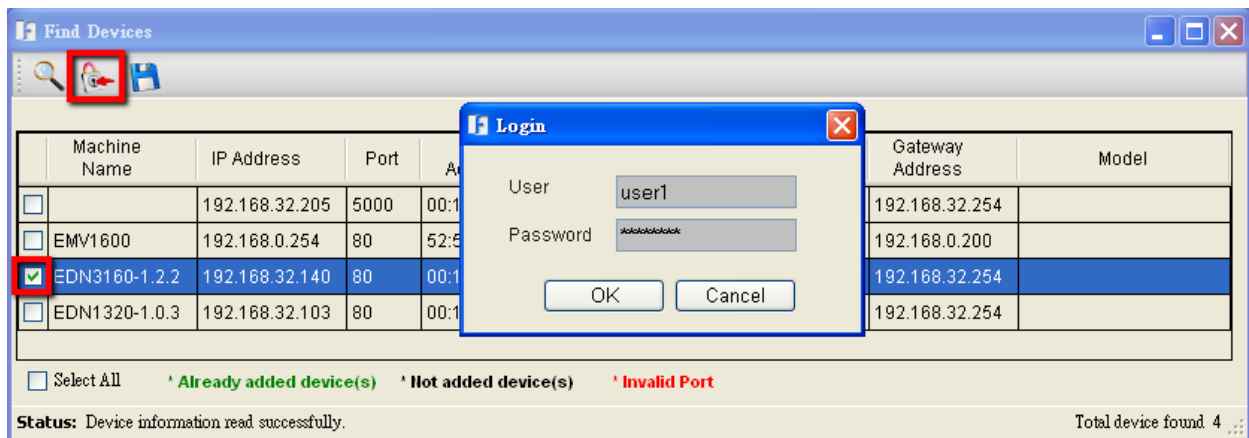




Figure 2-5

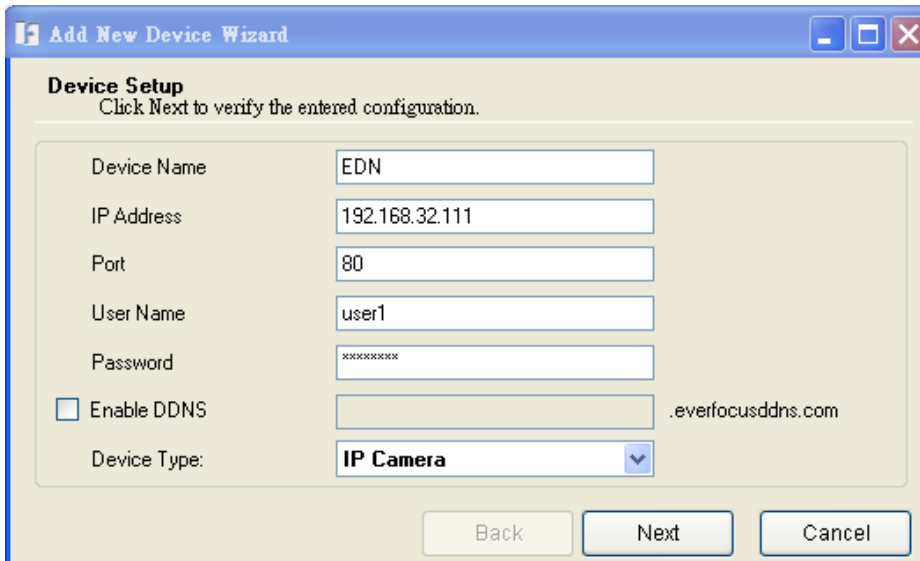
Note: You can login to multiple devices having the same User / Password combination at the same time by selecting multiple devices.

4. Type a meaningful name in the Machine Name field to help you identify the device and then click  to save the settings.

Once all of your devices are added, click  to close the Find Devices window. The device list should now contain the list of the devices just added.

To manually add an EverFocus' device:

1. Click the **Add Device Wizard** button  in Figure 2-3. The following dialog box appears.



Add New Device Wizard

Device Setup
Click Next to verify the entered configuration.

Device Name: EDN

IP Address: 192.168.32.111

Port: 80

User Name: user1

Password: xxxxxxxx

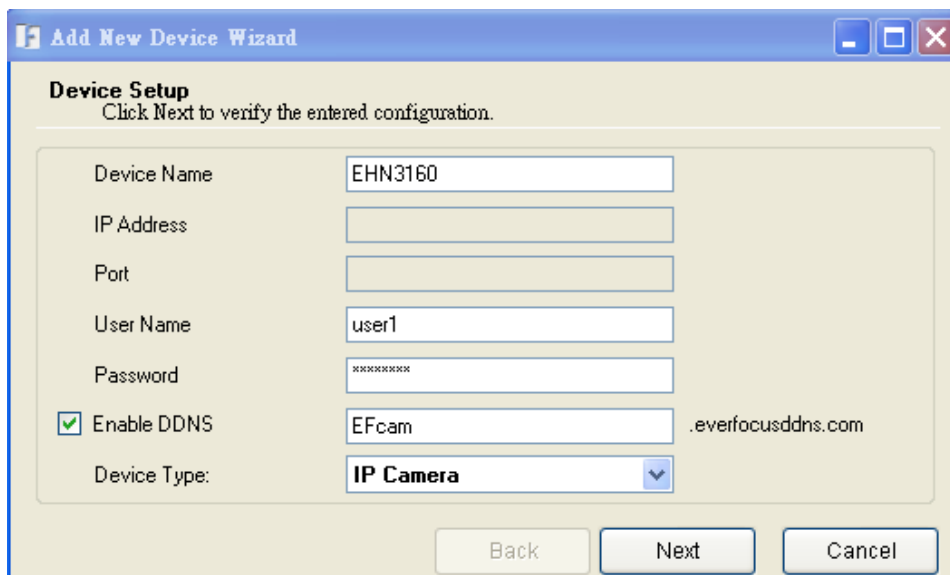
☐ Enable DDNS

Device Type: IP Camera

Back Next Cancel

Figure 2-6

2. Input the information of the IP device for verification. There are two ways:
 - a. Type the Device Name, IP Address, User Name and the Password of the IP device. Modify the default port if necessary. Select the device type of the IP device from the Device Type drop-down list.
 - b. Check the **Enable DDNS** box and type in the host name. Select the device type of the IP device from the Device Type drop-down list.



Add New Device Wizard

Device Setup
Click Next to verify the entered configuration.

Device Name: EHN3160

IP Address:

Port:

User Name: user1

Password: xxxxxxxx

☒ Enable DDNS

Device Type: IP Camera

Back Next Cancel

Figure 2-7

3. Click **Next**. The wizard will verify the IP device automatically. Click **Finish**.

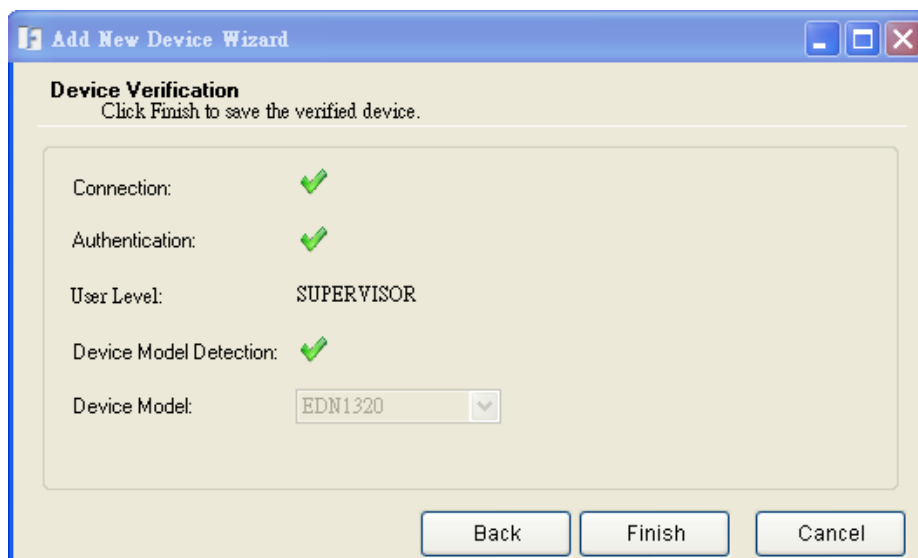


Figure 2-8

2.4 Device List

The connected IP devices will be listed in the Device List. You can optionally display the added devices in Device View or Group View.

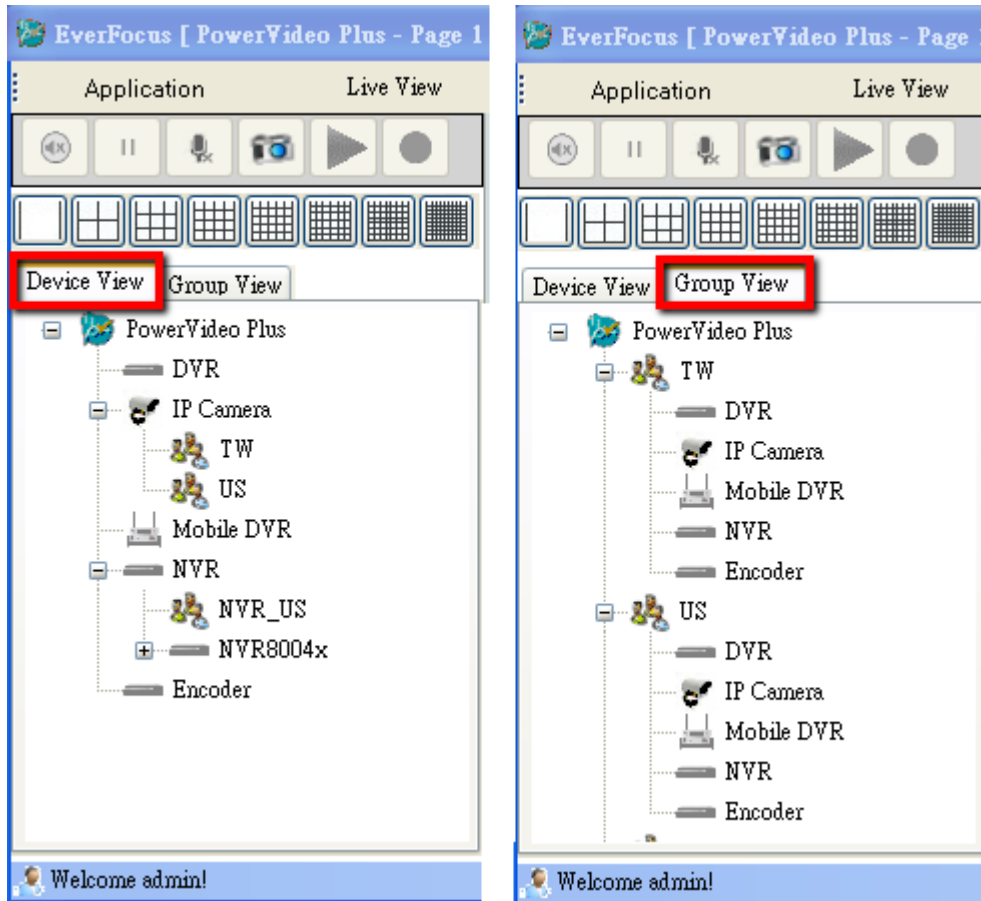


Figure 2-9

1. To add a Group, in the **Device View** List, right-click an IP Device and click **Create Sub Group**.

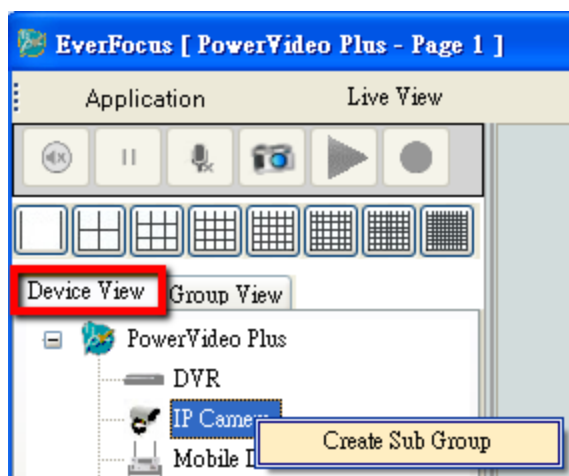


Figure 2-10

- After clicking **Create Sub Group**, the following window appears.

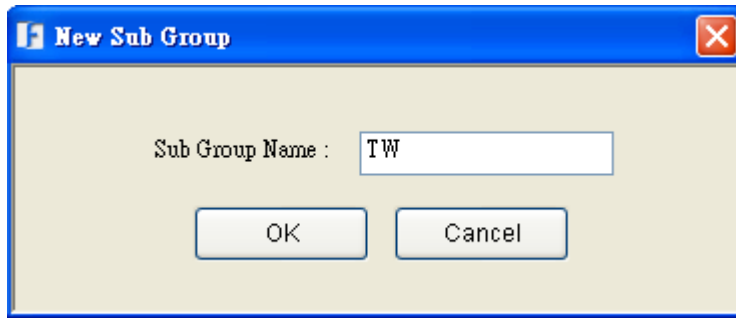


Figure 2-11

- Type a meaningful name in the Sub Group Name field and click **OK**. The group name will be listed.

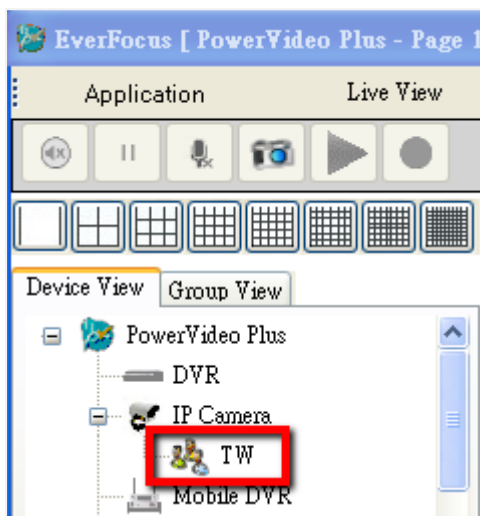


Figure 2-12

- To add IP devices to the created Sub Group, right-click the created Sub Group and click **Add Device**, the Add Device Wizard appears (Figure 2-6).

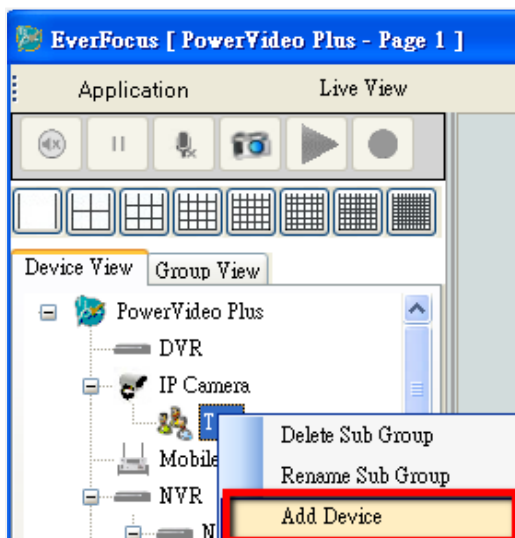


Figure 2-13

5. To delete or rename an added Sub Group, click **Delete Sub Group / Rename Sub Group** in the above image.
6. Follow **Step 1** to **Step 4** to optionally add multiple groups.
7. To move an IP advice from one group to another, right-click an IP device, click **Move To** and then select a Sub Group.

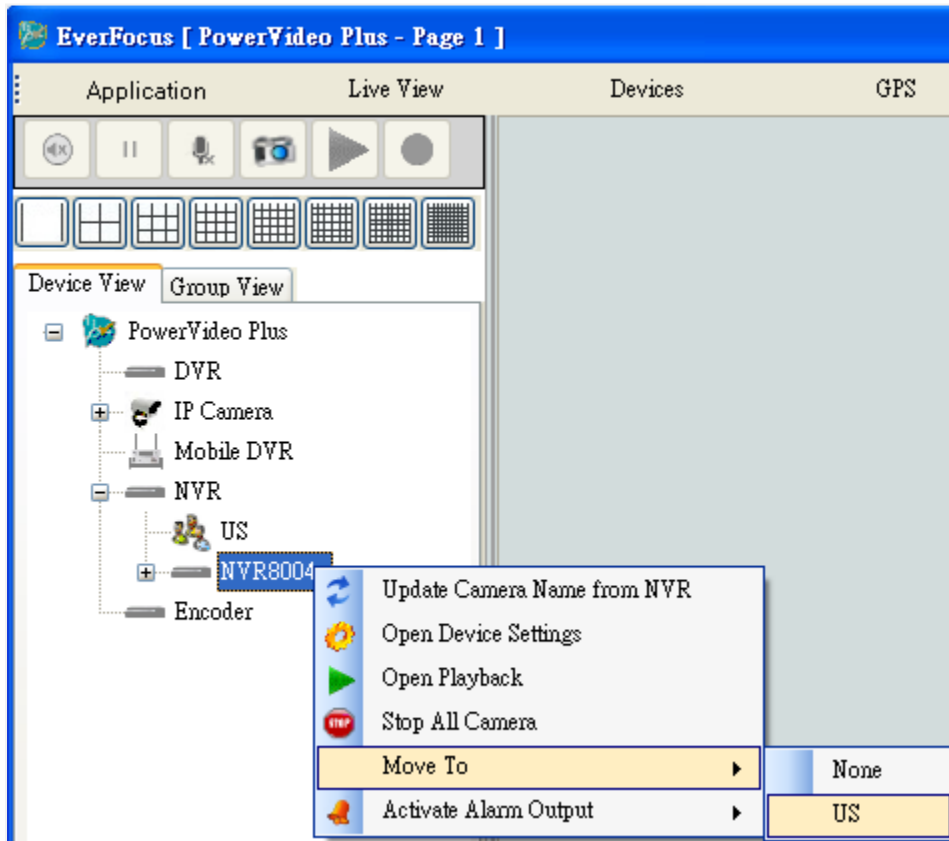


Figure 2-14

2.5 Configuring the User Account

You can create multiple user accounts with different privileges. Click **Option** (No.7, Figure 2-2) and select **User Management**. The User Privileges window appears.

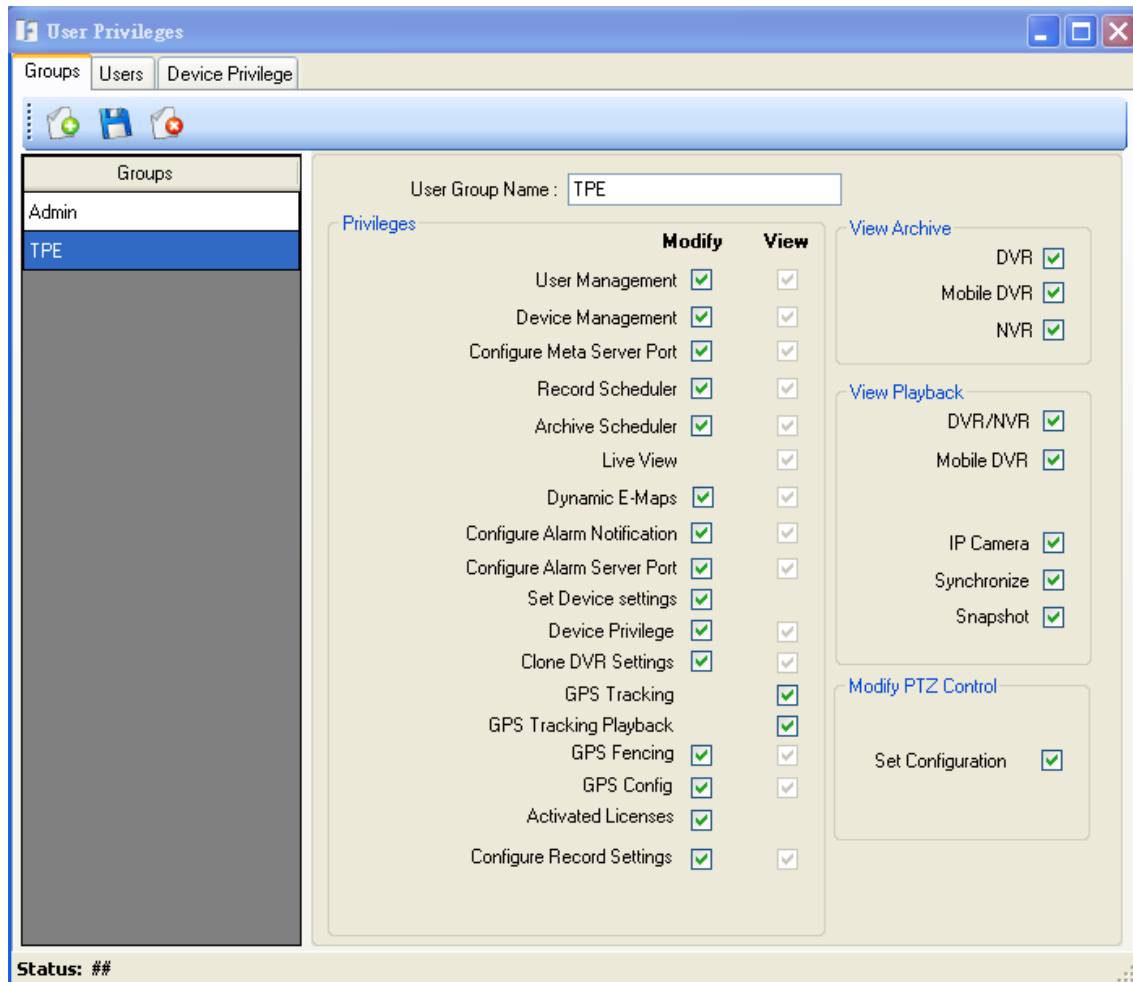






Figure 2-15

1. To create a group, click the **Groups** tab and click the **Add New Group** button .
2. Type a name for the new group and select the privileges for the new group.
3. Click the **Save Group** button , the new group will be listed in the Groups list.
4. To create a new user, click the **Users** tab and click the **Add New User** button .
5. Select the Group the user belongs to and enter the user name and the password both in the Password and Confirm Password fields.
6. Click the **Save User** button , the new user will be listed in the Users list.

To change password:

1. Click the **Users** tab, select an user from the Users list and then type the password in the Old Password field.

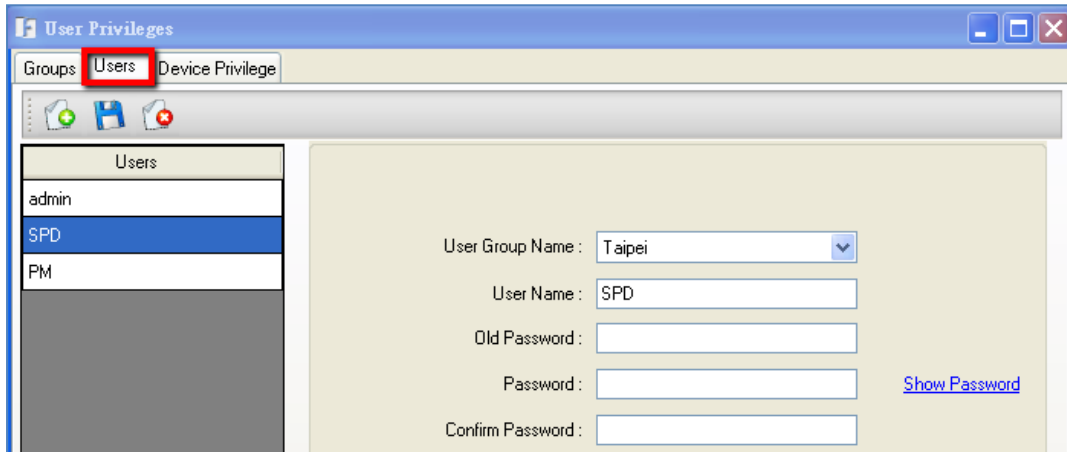






Figure 2-16

2. Type a new password in the Password and Confirm Password fields.
3. Click the **Save User** button  to save the settings.

To block specific cameras from a Group:

1. Click the **Device Privilege** tab, select a group and select a device. The related cameras will be displayed in the Allowed list.
2. Select a camera and use the   buttons to add / remove the camera to the Blocked list.
3. Click the **Save** button  to save the settings.

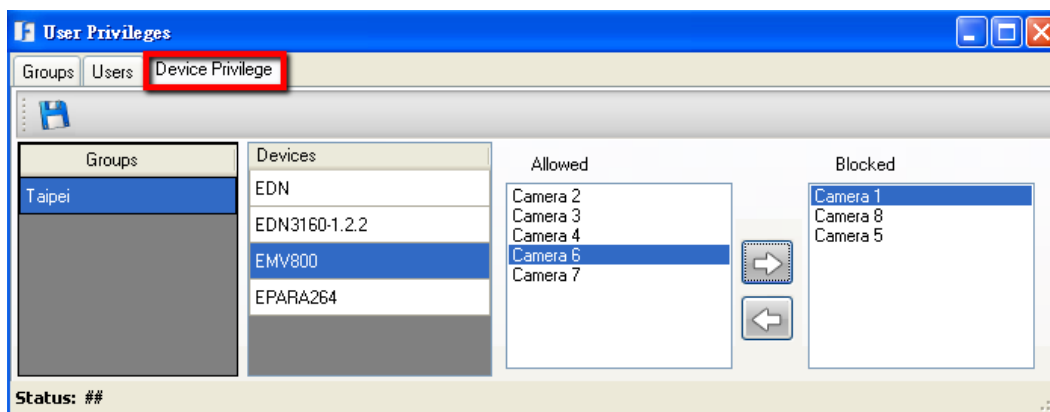


Figure 2-17

Chapter 3 Live View

You can manage the live video on the display window.

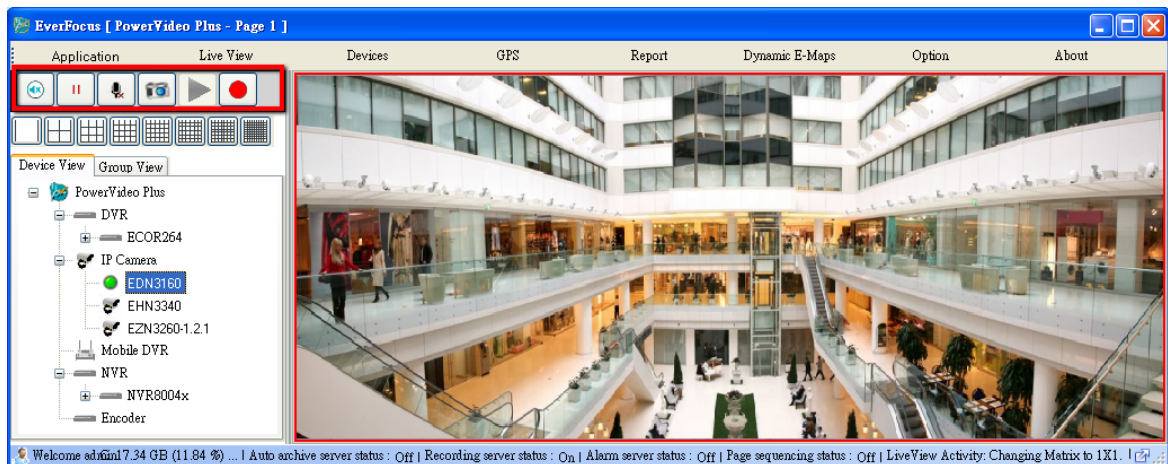










Figure 3-1

3.1 Live View Tool Bar

You can operate the audio, quick playback, snapshot and recording functions using the tool bar.



Figure 3-2

| No. | Name | Description |
|-----|--|---|
| 1 |  Audio On/Off | Click to turn on / off the audio-out function. |
| 2 |  Pause/Play | Click to temporarily disconnect the live streams. Please refer to <i>15.2 Temporarily Disconnecting Live Streams</i> . |
| 3 |  Microphone On/Off | Click to turn on / off the microphone function. |
| 4 |  Take a Snapshot | Click to take a snapshot. By default, the snapshot images are saved at C:\Program Files\Everfocus\PowerVideo Plus\Everfocus\Snapshot . To change the storage path, see <i>4.1 Changing the Recording Path</i> . To search snapshots, see <i>15.5 Snapshot List</i> . |
| 5 |  Quick Playback | Play back the videos from the predefined interval of the DVR/NVR. This function is for DVR/NVR only. |
| 6 |  Start Recording | Start/ stop recording the live stream to the computer (<i>Chapter 4 Live View Recording</i>).  : Indicates the IP camera is on live view recording.  : Indicates the IP camera is in the schedule recording mode. Live view recording is disabled. |

3.2 Matrix View

The Matrix View allows you to monitor up to 64 cameras from EverFocus' DVR, Mobile DVR, NVR or IP cameras on the same screen. You can edit up to 10 pages of Matrix View in different matrix sizes.

1. On the Main Screen, click **Live View**, click **Go To Page** and select a page and then click to check the selected page. You can optionally edit the name of this page by typing a name in the column above **Add to Favorites**.

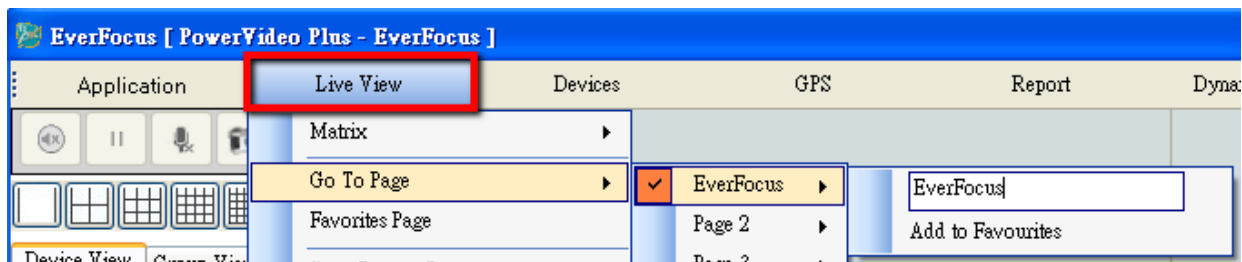


Figure 3-3

2. Select a layout from the Layout Tool Bar or click **Live View**, click **Matrix** and click (check) a matrix size.



Figure 3-4

3. Drag and drop a camera view from the Device List to the desired squares on the Display Window. You can also spread the whole camera streams of a DVR / NVR / Mobile DVR or all the streams on the IP camera list into the matrix by dragging and dropping the device to the matrix.

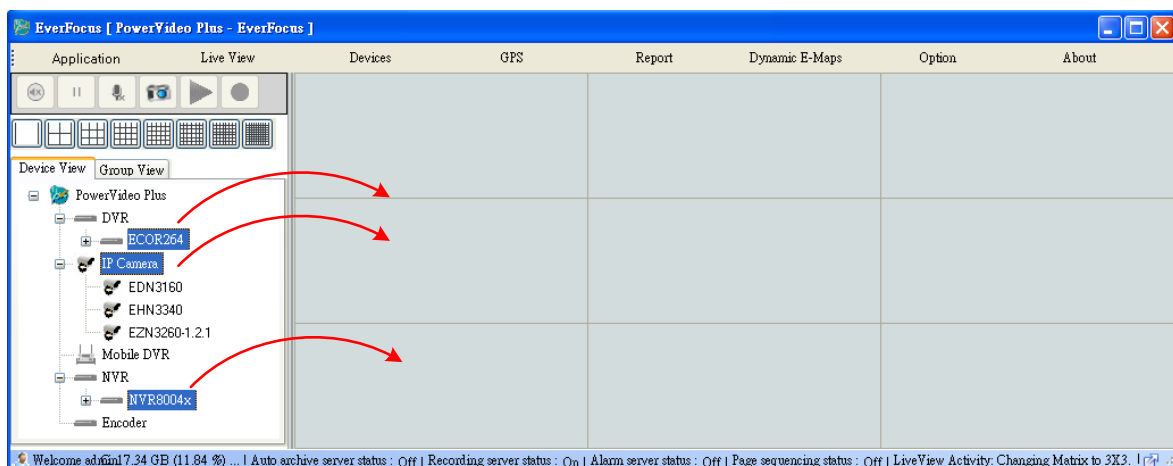


Figure 3-5

4. Click **Live View** and click **Save Current Page** to save this page.
5. Repeat from **Step 1** to **Step 4** to edit another page.
6. To add a certain page to the Favorites Page, on Figure 3-3, select **Add to Favorites**. The page will be added to the **Favorites Page**.

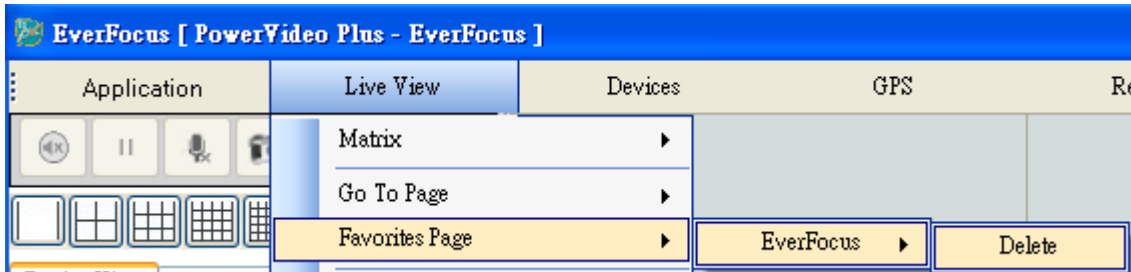



Figure 3-6

7. To edit the name or the interval time of a page in order to activate the Sequencing function, click **Live View** and click **Adjust Page Timer**. Double click on the page name to type a name or double click on the time interval to set up an interval in second. Click the **Save Page** button  to save the settings.

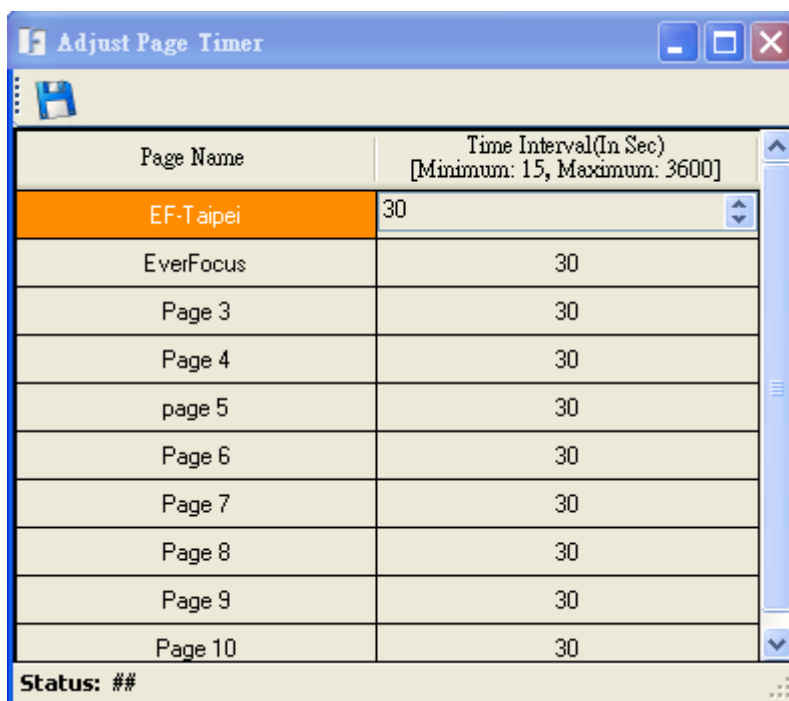


Figure 3-7

To use the **Sequencing** function, on the Main Screen, click **Live View** and click **Enable Sequencing**. The edited Matrix View pages will be displayed in sequence based on the time interval.

3.3 Floating Matrix

You can use the Floating Matrix function to create more screen space to display multiple channels on multiple monitors. The number of monitor is unlimited up to Microsoft Windows maximum limit. This function is useful for TV wall control.



Figure 3-8

3.3.1 Activating Multiple Monitors

Use Windows **Display Properties** to activate multiple monitors. Here we use Windows XP for example to illustrate the steps.

1. Right-click the desktop, click **Properties** and click the **Settings** tab. The Display Properties dialog box appears.

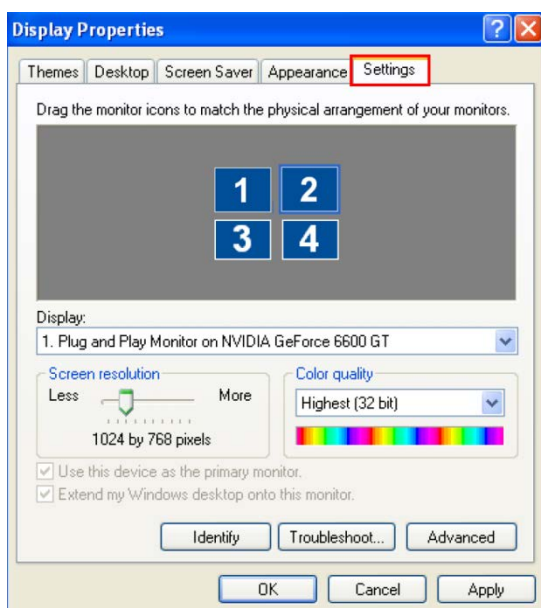


Figure 3-9




2. Click the **Display** list. If you do not see multiple monitors listed, check if your additional monitors are connected with the computer properly.
3. Select the primary monitor from the list, and select **Use This Device as the Primary Monitor**.
4. Select additional monitors from the list, and select **Extend my Windows desktop onto this monitor** for each monitor.
5. Click **Identify**. Windows XP displays a large number to identify your monitors. Drag and drop the monitor icons to match the physical arrangement of your monitors.
6. Click **OK**.

3.3.2 Configuring the Floating Matrix

You can set up multiple Floating Matrix windows to display the matrix live view on additional monitors. Each Floating Matrix window can be set up with up to 64 channels from Everfocus' supported IP devices. You can edit up to 10 pages of Matrix View in different matrix sizes for each Floating Matrix window.



Figure 3-10

1. On the Main Screen, click **Live View**, click **Floating Matrix Window** and click **Add New Floating Window**. The above window appears.
2. Type a name for the Floating Matrix window in the name field .
3. Click to select a page.
4. Click to select a matrix size for the selected page.
5. Drag and drop a camera view from the Device List to the desired squares on the matrix window. You can also spread the whole camera streams of a DVR / NVR / Mobile DVR or all the streams on the IP camera list into the matrix by dragging and dropping the device to the matrix window.
6. Click  to save the current page.
7. Repeat from **Step 3** to **Step 6** to edit another page.
8. To edit the interval time of a page for the Sequencing function, click the **Settings** button  and select **Adjust Page Timer**. Click on the page name to type a name or click on the time interval to set up an interval in second. Click the **Save Page** button  to save the settings.

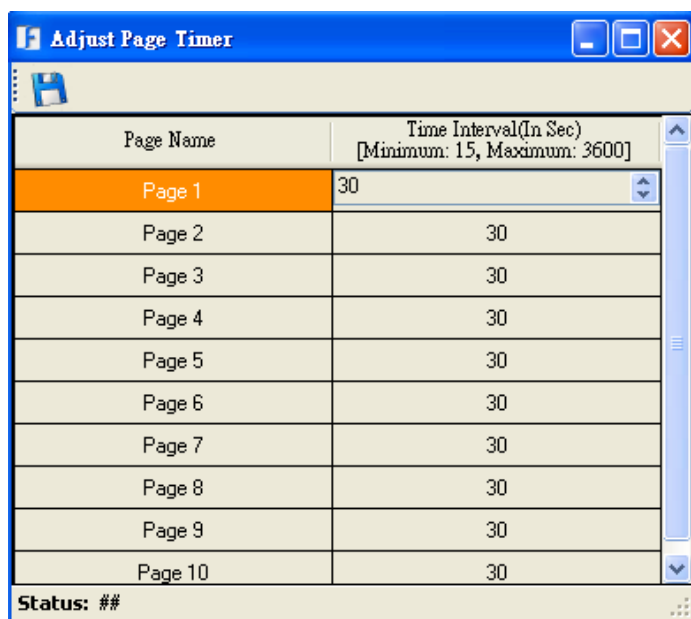



Figure 3-11

To use the **Sequencing** function, click the **Settings** button  and click **Enable Sequencing**. The edited Matrix View pages will be displayed in sequence based on the time interval.

9. Drag and drop the Floating Matrix on the desired Monitor.

You can optionally use the Tool Bar  to control the audio, quick playback, snapshot and recording functions. For details of the function icons on the Tool Bar, see 3.1 Live View Tool Bar.

3.4 Digital Zoom

You can zoom in / out the camera live view through the PowerVideo Plus.

1. On the Device List, right click a camera and click **View Camera**.

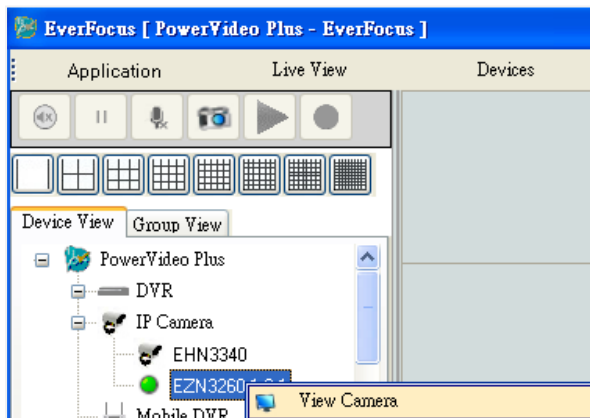


Figure 3-12


2. Once the below live view window appears, click the **Show Digital Zoom** button , a separate live view window with **Zoom In** and **Zoom Out** buttons appears.



Figure 3-13

3. Click the **Zoom In / Zoom Out** button to zoom in / out the camera live view. Click and hold the mouse, and drag the image in the direction you want to view.

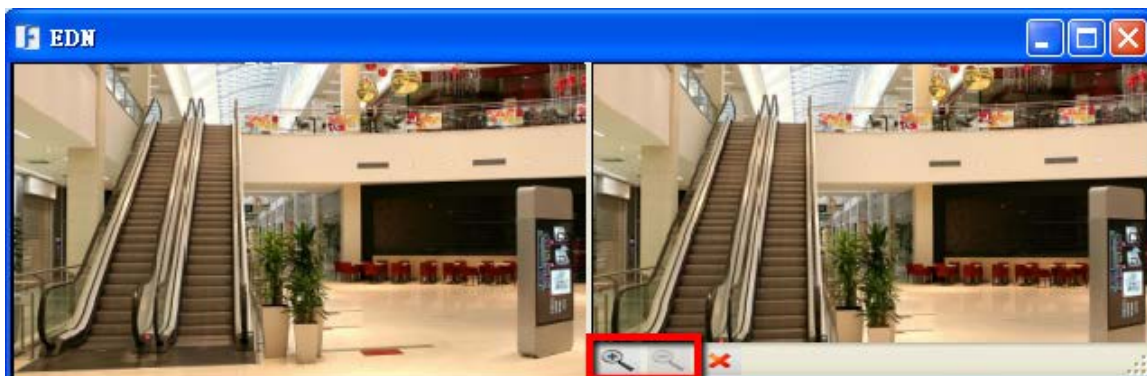


Figure 3-14

3.5 Default Stream Settings

You can select Main Stream or Sub Stream for the default Live View Stream. Note that you have to pre-configure the stream settings on the IP device before using this function.

On the Main Screen, click **Live View** and click **Default Stream Settings**, the below window appears.

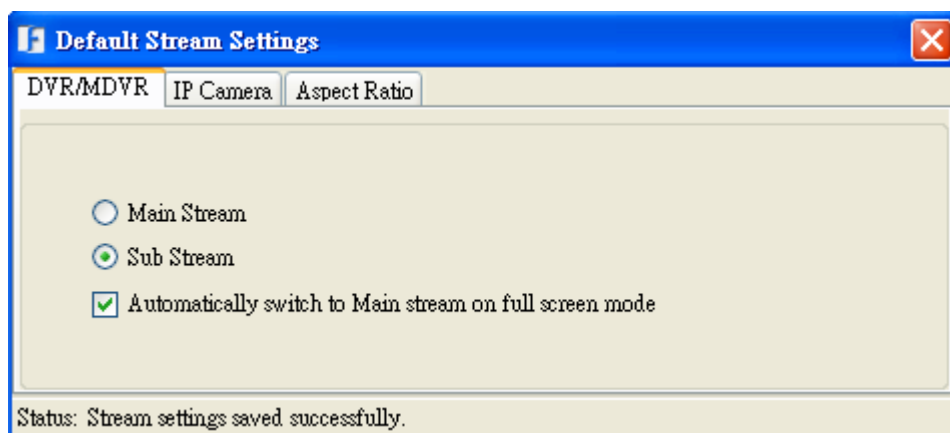


Figure 3-15

Main Stream: Select to display the main stream on the Live View window.

Sub Stream: Select to display the sub stream on the Live View window. Check the **Automatically switch to Main stream on full screen mode** if you want the PowerVideo Plus to automatically switch the live view of this device to Main Stream once the Full Screen mode is enabled.

To enable full screen mode of a live view stream, right click on a live view stream and select **Full Screen**.

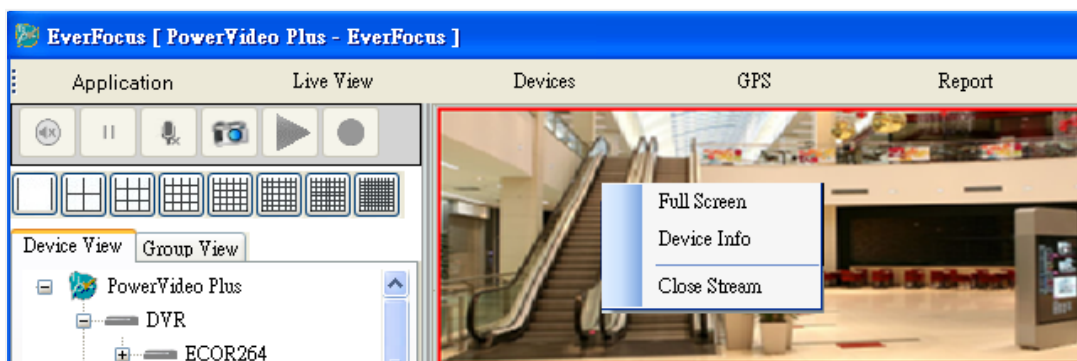


Figure 3-16

3.6 OSD Settings

In the OSD Settings, you can choose to display or hide the connected device Title, Date Time and Alarm Information on the live view window.

To configure the settings, please follow the steps below:

1. Click **Devices** and click **OSD Settings**, the following window appears.

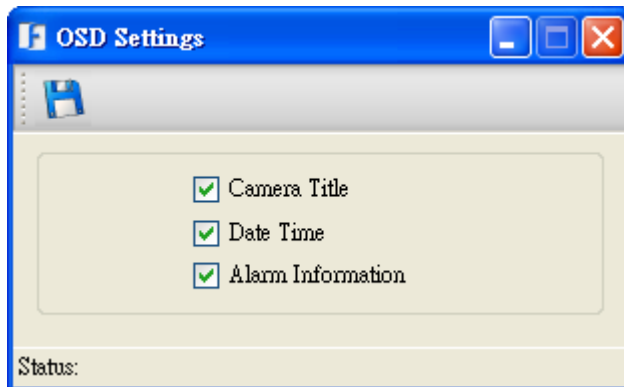




Figure 3-17

2. Check / uncheck the desired options to enable / disable displaying the information on the live view window.
3. Click the **Save** button  to save the settings and then close the OSD Settings window.
4. Drag and drop the devices from the Device List to the desired squares on the Display Window. The selected item should be displayed on the Live View.

If you have already drag and drop the devices on the Display Window before configuring the settings, close the live view windows and re-drag and drop the devices on the Display Window. And then you will see the selected items displayed on the Live View.

Chapter 4 Live View Recording

You can record live videos from the IP cameras and the cameras from the DVR / NVR / MDVR, to the computer. Click the **Start Recording** button  on the Live View Tool Bar to start / stop recording the camera live view. The recordings can be played back using the internal built-in player. Please refer to *Chapter 6, Remote Playback*.

Note: The live view streams are recorded in **EVF** file. However, you can convert them to **AVI** file and use any other players support AVI format to play back. Please refer to *5.3 Playing Back Live View Recordings* and *5.4 Converting Multiple IP Camera Recordings into a Single AVI File* for more details.



To start live view recording:

1. On the Main Screen, click to select an IP camera live view (highlight with a red frame) on the Display Window. The Live View Tool Bar should be activated.

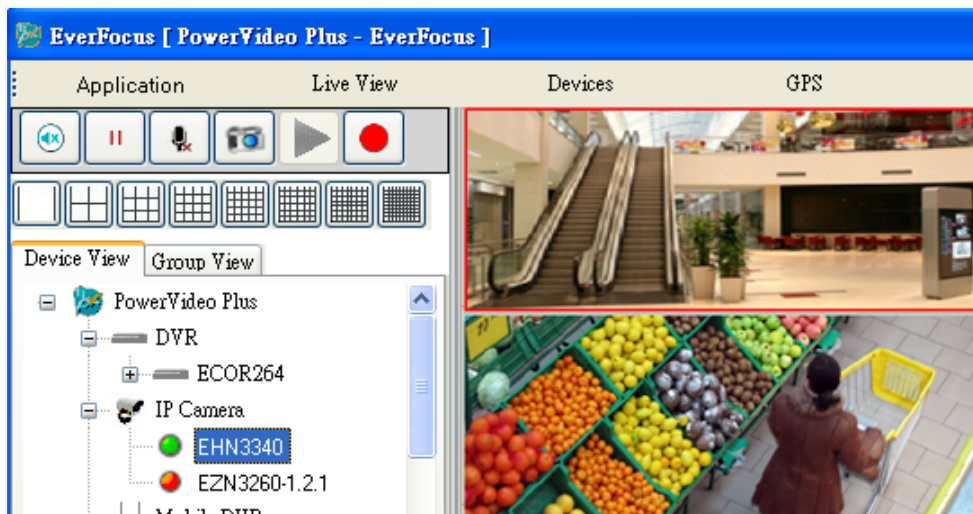







Figure 4-1

2. Click the **Start Recording** button  on the Live View Tool Bar. The button should turn to a blue square  to indicate this IP camera is on live view recording.
3. To stop recording, click the  button. The button should turn back to .

If a green square button  appears, it indicates the IP camera is in the schedule recording mode and the Live view recording function is disabled. For details on the schedule recording mode, see *Chapter 8 Record Scheduler (DVR / MDVR / NVR / IP Camera)*.

By default, the live view recordings are saved at **C:\Program Files\Everfocus\PowerVideo Plus\Everfocus\Recordings**. To change the recording path, see *4.1 Changing the Recording Path*.

4.1 Changing the Recording Path

Follow the steps below to change the live view recording path.

1. On the Main Screen, click **Option** and click **Configure Record Settings**.

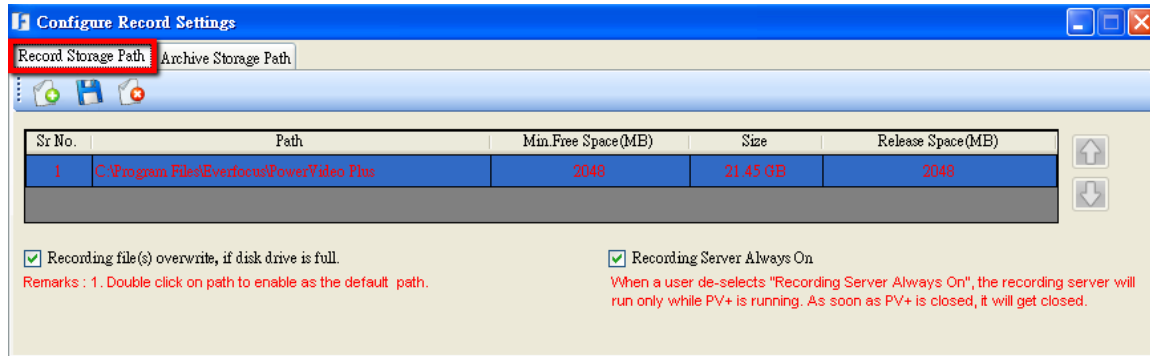



Figure 4-2

2. Click the **Record Storage Path** tab, click the **Add New Path** button  and select a storage location. The new path will be listed in the storage path list.

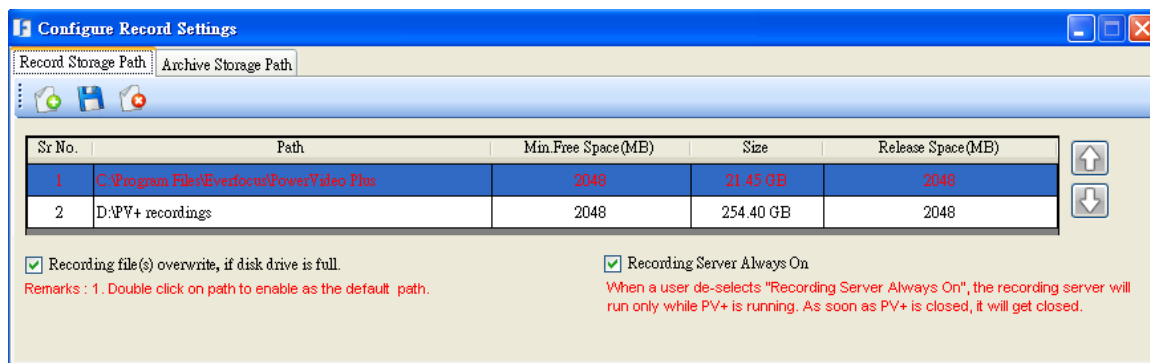


Figure 4-3

3. Double click on the added path to enable it as the default path. The color of the wordings will change from black to red to indicate the path has set up as the default path.

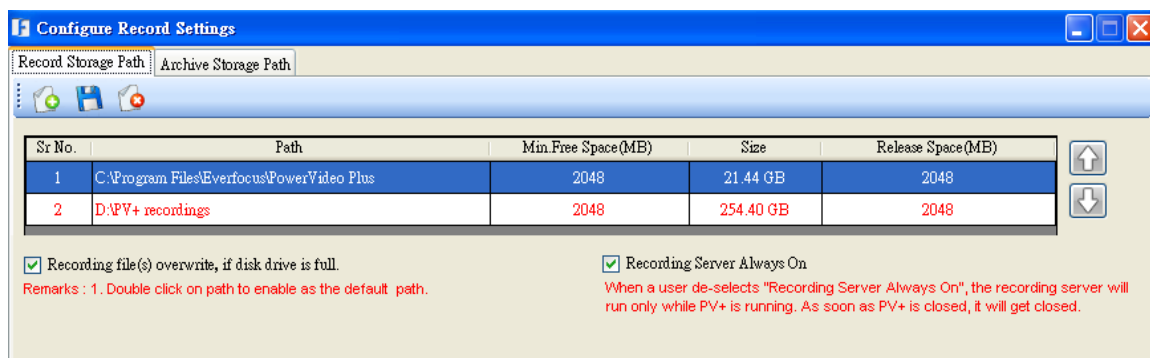


Figure 4-4

4. You can optionally enable **Recording file (s) overwrite**, if disk drive is full; or **Recording Server Always On** to keep the Recording Server running even when the PowerVideo Plus is existed.
5. Click the **Save** button to save the settings.

Chapter 5 Local Playback

You can play back the archived recordings from the DVR / NVR / Mobile DVR stored in your computer using EverFocus' **EFPlayer**, **960EFPlayer**; or play back the live view recordings of IP cameras using EverFocus' **ArvViewer Nevio**. You can also play back the live view recordings of the cameras from the DVR / NVR / Mobile DVR or IP cameras using the internal built-in player of PVP.

EFPlayer: For playing back recordings from the DVR (except 960 series) / Mobile DVR / NVR.

960EFPlayer: For playing back recordings from the 960 series DVR (i.e. Paragon960 / ECOR960).

ArvViewer Nevio: For playing back IP camera live view recordings.

5.1 Remote Archive from the DVR / Mobile DVR / NVR

You can either remotely archive the recordings from the DVR/ Mobile DVR / NVR to the computer, or remotely copy the recordings to the USB storage device or DVD burner of the DVR / Mobile DVR / NVR. There are two ways for remote archiving: Automatically and Manually. For automatically remote archiving, please refer to *Chapter 9, Archive Scheduler*.

Note: The **Remote Archive** function is mainly designed for DVR/NVR. Exceptional conditions may occur if you apply this function to Mobile DVRs. Contact EverFocus for more details.

For DVR / NVR:

To start manually remote archiving, on the Main Screen, click **Devices**, click **Archive** and select **DVR** or **NVR**. The archiving setup window appears.

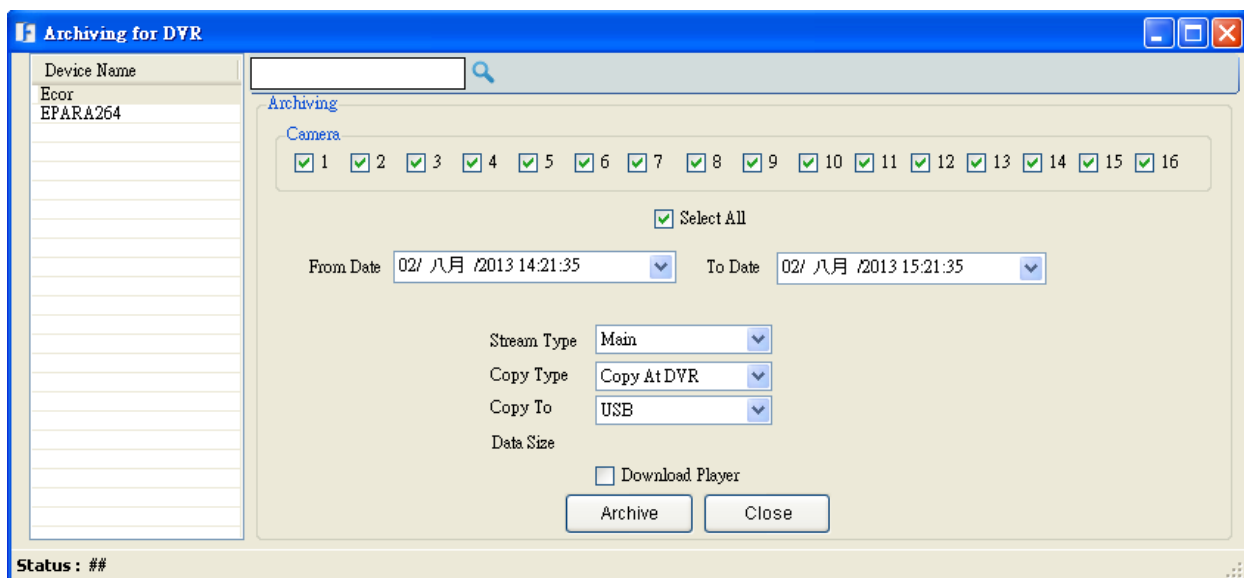



Figure 5-1

Search Device : Enter the device name and click **Search** to search for a certain device.

Camera: Check the boxes to select the desired cameras or check **Select All** to select all cameras.

From Date...To Date: Select the desired time period. You can simply set up the date and time period by clicking on the number and type the desired date and time.

Stream Type: Select Main or Sub stream. Note that you have to pre-configure the stream settings on the DVR / NVR.

Copy Type: Select **Remote** to archive the recordings to the computer or select **Copy at DVR** (this option is only available for DVRs) to remotely copy the recordings to the DVR. Select **Copy at DVR** will display the **Copy To** option below.

Copy To: After selecting **Copy at DVR**, select **USB** or **CD/DVD** for the DVR to copy the recordings to. Note that you have to insert a USB storage device or placing a CD/DVD disc to the DVR before start using this function. This function is only available for DVRs.

Download Player: Check the box to include the **ePlayer** program in the copy. You can then use the **ePlayer** to play back the recordings. This function is only available for DVRs.

Archive: Click to select a storage path for the recordings. The recordings will be saved in **.avr** format.

Close: Click to close the window.

For Mobile DVR:

To start manually remote archiving, on the Main Screen, click **Devices**, click **Archive** and select **Mobile DVR**. The archiving setup window appears.

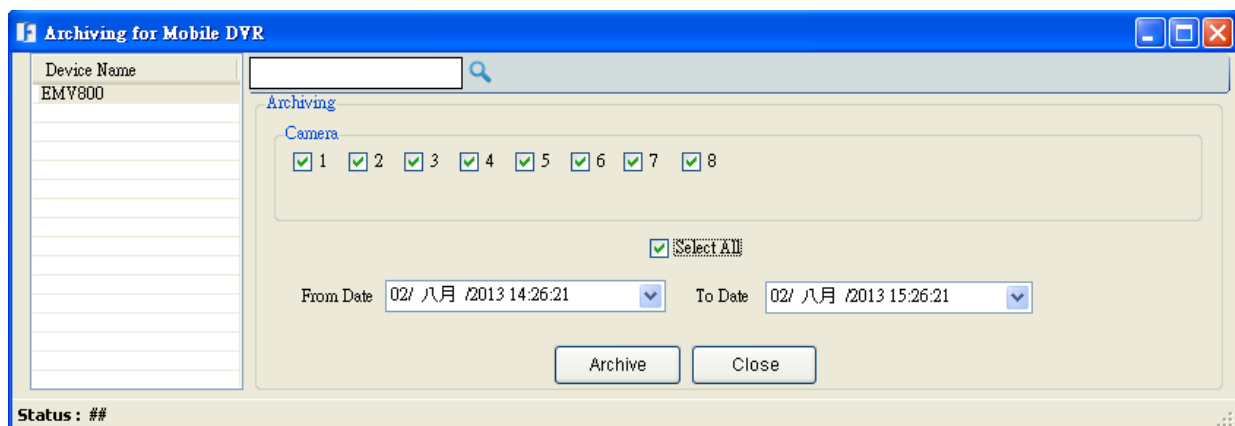


Figure 5-2

Search Device : Enter the device name and click **Search** to search for a certain device.

Camera: Check the boxes to select the desired cameras or check **Select All** to select all cameras.

From Date...To Date: Select the desired time period. You can simply set up the date and time period by clicking on the number and type the desired date and time.

Archive: Click to select a storage path for the recordings. The recordings will be saved in **.avr** format.

Close: Click to close the window.

5.2 Playing Back Archived Recordings from the DVR / NVR / Mobile DVR

To play back the archived recordings from the DVR / NVR / Mobile DVR, on the Main Screen, click **Option** and click **EFPlayer / 960EFPlayer** (for 960 series DVRs), the following windows appear. Click the **Load Files** button to load and then play back the recording file.

EFPlayer: Use this to play back recordings from the DVR (except 960 series) / Mobile DVR / NVR.

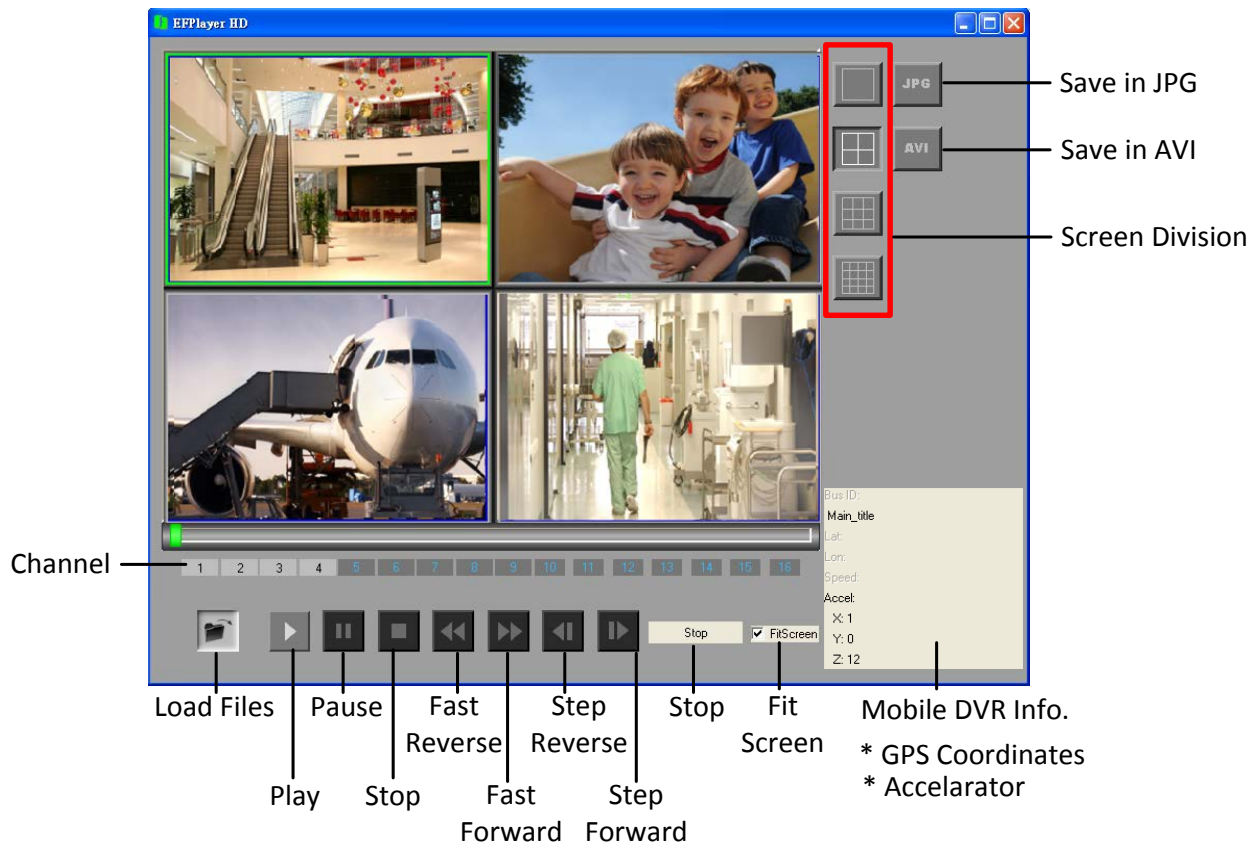


Figure 5-3

To turn on / off the camera view for playing back, click the number of channel button.

To display the camera view to fit the screen size on the Screen Division, enable **Fit Screen**.

To save a video image in JPG format, click the **JPG** button.






To save a video file in AVI format, click the **AVI** button.



To display the next / previous frame, click the **Step Forward / Step Reverse** button.

960EFPlayer: Use this to play back recordings from the 960 series DVRs (i.e. Paragon960 / ECOR960). Click the **Load** button to load and then play back the recording file.



Figure 5-4

| No. | Name | Function Description |
|-----|-------------------|---|
| 1 | Information | Shows the recording information of the hard disk drive, including model of the recorder, recording start time / date, current playback time, recording end time / date. |
| 2 | Load | Click to select a file and open it. |
| 3 | Save as AVI | Click to save the recording file in AVI format. |
| 4 | Time Search | Click to search a recording from a selected time. |
| 5 | Time Bar | Move the time bar to a desired time to play back the recording from that time. |
| 6 | Playback Controls | <div>   : Click to fast reverse / fast forward. </div> <div>   : Click to reverse play / play. </div> <div>  : Click to pause play backing. </div> |

| | | |
|-----------|------------------------|---|
| 7 | Snapshot | Click to take a snapshot of one selected channel. You can save the snapshot file to a desired location. |
| 8 | Mute | Click to mute; click again to turn off the mute function. |
| 9 | Volume | Slide the bar to increase or lower the volume. |
| 10 | Scale Out / In | Click to adjust time scale. There are three time bar scales: 5 minutes, 1 hour and 12 hours. |
| 11 | Screen Division |  : Click to display the selected channel in full screen. You can also double-click on a channel to display that channel in full screen.  : Click to select a desired screen division display mode (1, 4, 9, 16, 32 screen division display modes). |

5.3 Playing Back Live View Recordings

You can play back the Live View recordings of the IP cameras and the cameras from the DVR / NVR / MDVR stored in the local computer, using the internal built-in player; or play back the IP camera live view recordings using the player of ArvViewer Nevio.

To play back live view recordings using the internal built-in player: On the Main Screen, click **Devices**, click **Playback** and select **Local Recording Playback**. Select the desired device, date and time, recording type and file type. Click the **Search** button and the desired recordings will be listed.

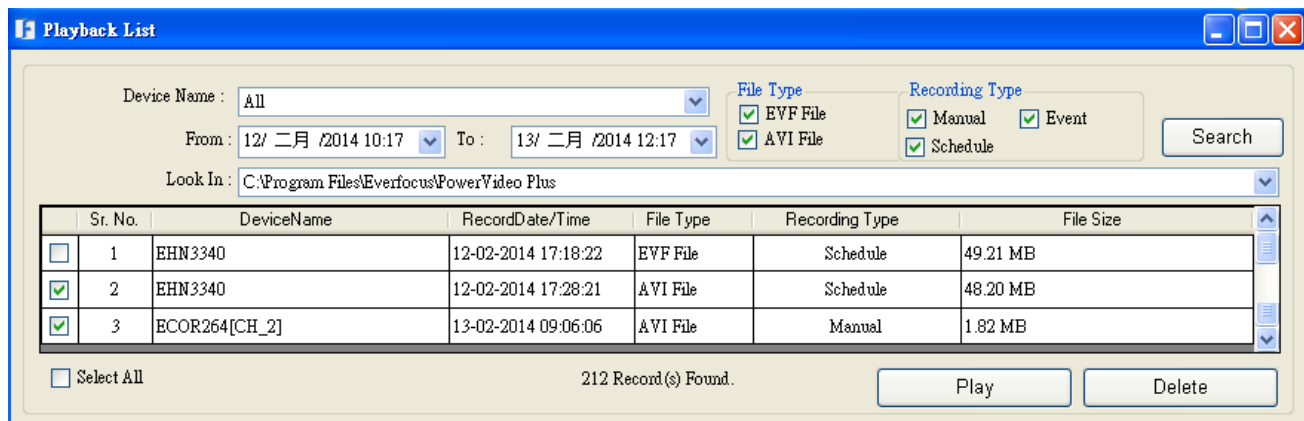


Figure 5-5

Select the desired recordings and click the **Play** button, the system will run an internal process for converting the EVF file into AVI file. This process will only be activated once when the first time you click the **Play** button for the selected recordings. You can then play back the AVI file using other players supporting AVI format.

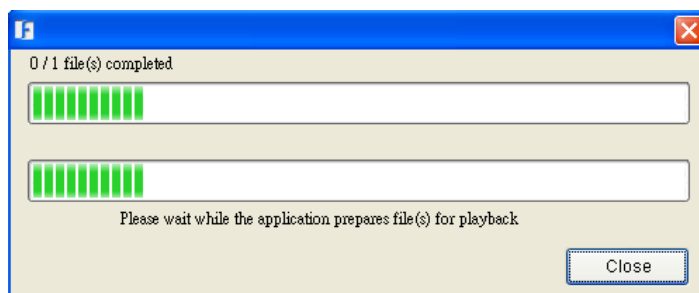


Figure 5-6

After the above process is complete, the Playback window pops up. You can click the **Snapshot** button to take a snapshot for print or click the **Zoom In** button to zoom in and then navigate the live view. After clicking the Zoom In button, an Inset Window will appear on the bottom-right of the Playback window. Move your mouse to the Inset Window and then navigate the live view by moving the Mouse Cursor over the Inset Window.



Figure 5-7

To play back IP camera live view recordings using ArvViewer Nevio: On the Main Screen, click **Option**, click **ArvViewer Nevio**, the ArvViewer window appears. Click the **Load File** button to load the recordings for playing back.

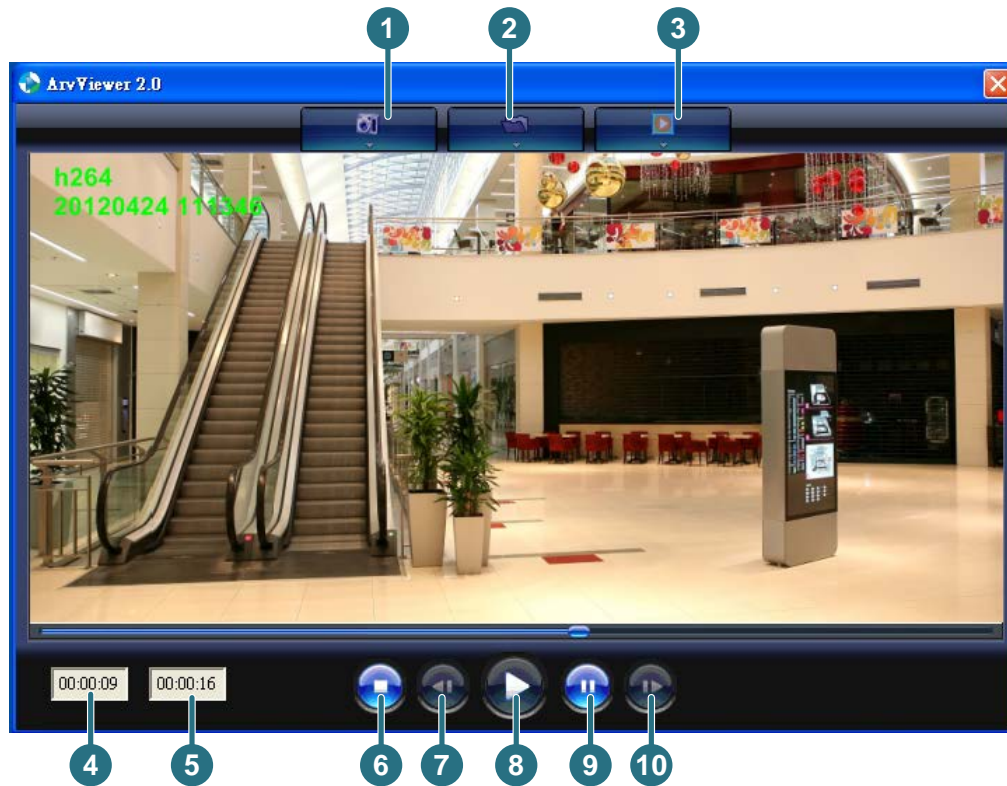


Figure 5-8

| No. | Item Name | Descriptions |
|-----|--------------------------------|--|
| 1 | Snapshot | Click to take and save a snapshot. |
| 2 | Load File | Click to load the recordings for playing back. |
| 3 | Convert ARV to AVI | Convert the recording from ARV format to AVI format. |
| 4 | Playback Time | Display the playback time. |
| 5 | Total Time of Recording | Display the total time of the recording. |
| 6 | Stop | Click to stop playing the recording. |
| 7 | Step Reverse | Click to display the previous frame. |
| 8 | Play | Click to play back the recording. |
| 9 | Pause | Click to pause the recording. |
| 10 | Step Forward | Click to display the next frame. |

5.4 Converting Multiple IP Camera Recordings into a Single AVI File

You can convert multiple IP camera recordings stored in your computer into a single AVI file, and then play back the AVI file using other players supporting AVI format.

On the Main Screen, click **Option** and then click **Video Export**, the following window appears. Set up the time period of the recordings, select the path where you want the AVI file being saved to, and then select an IP camera. Click the **Export** button, the converting process begins.

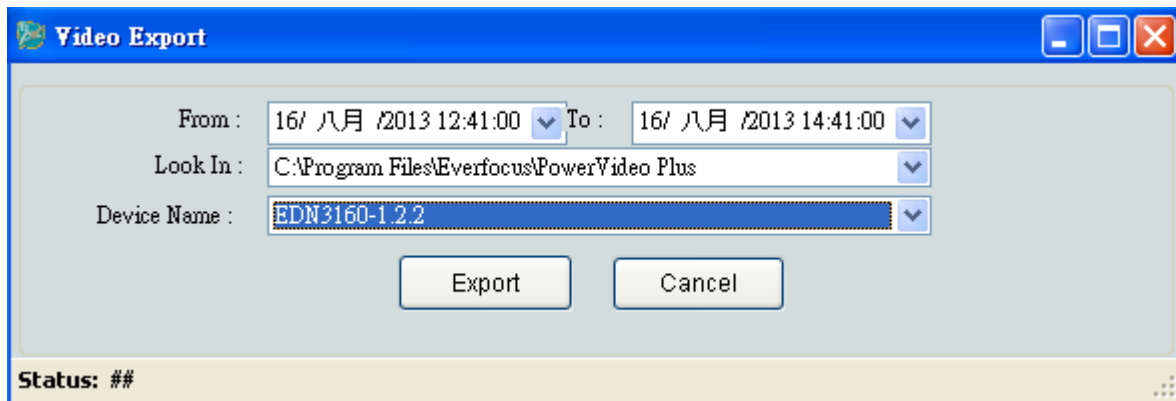


Figure 5-9

Chapter 6 Remote Playback

You can remotely play back recordings from the DVRs / NVRs / Mobile DVRs using the internal built-in player.

1. On the Main Screen, click **Devices**, click **Playback** and select **Remote Recording (DVR/NVR/MDVR)**.

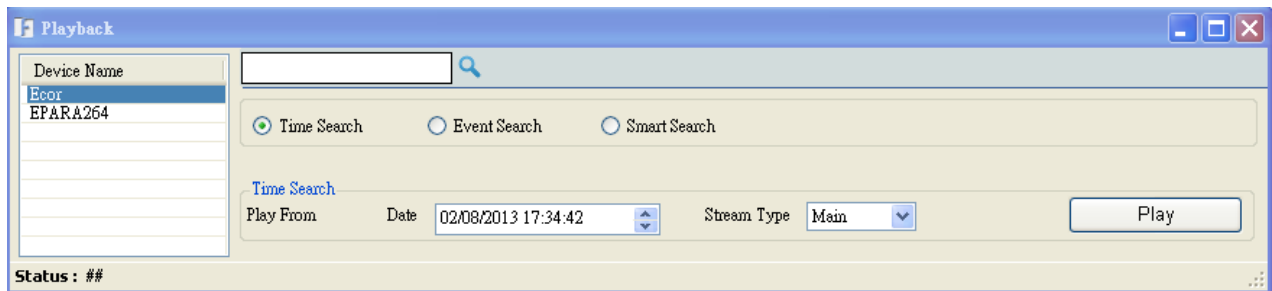


Figure 6-1

2. Select or search a device, and then select a search type to search for the desired recordings.

Time Search: Search the recordings with a specific date, time and stream type.

Event Search: Search the recordings with the selected event type: Alarm, Video Lost, Motion, Power On or Network Lost (Multiple selections).

Smart Search: This feature is only available for DVR devices. Smart Search allows you to search the recordings with unattended or missing objects in a period of time. Click the **Show Grid** button to specify multiple regions for unattended or missing objects.

3. Click the **Play** button to play back the desired recording. The Playback window appears.

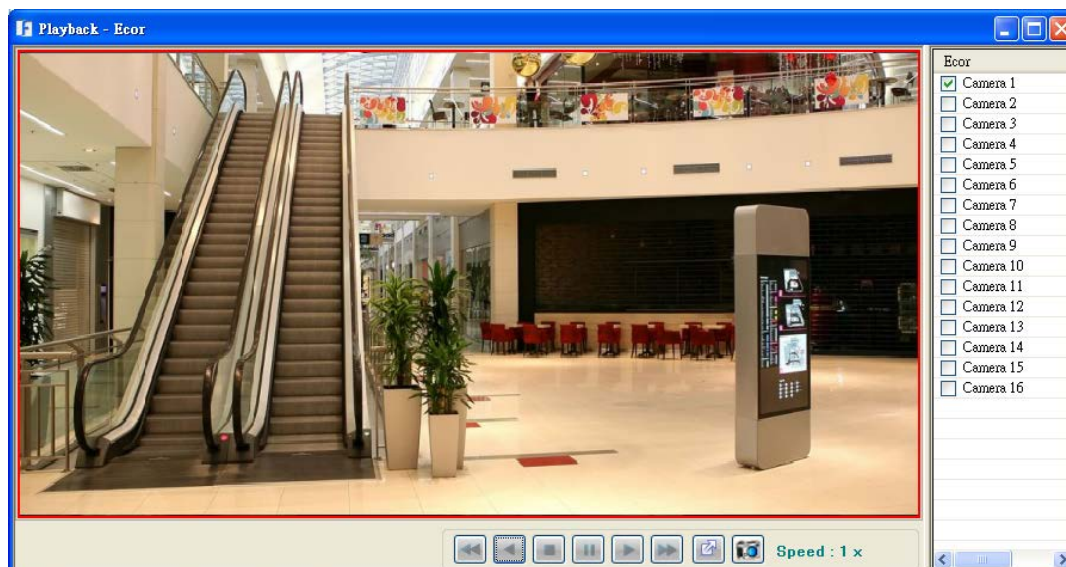


Figure 6-2

6.1 Synchronize Playback

You can synchronize the cameras from DVR, NVR or Mobile DVR and then playback the recordings using Synchronize Player.

1. On the Main Screen, click **Devices**, click **Playback** and select **Synchronize Playback**. The following window appears.

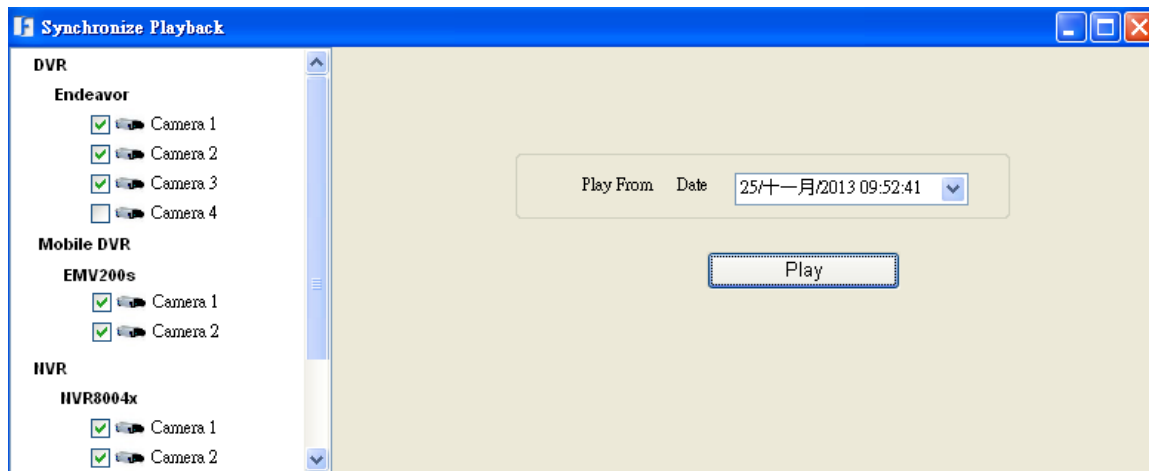


Figure 6-3

2. Select the desired cameras from the left-side device list, select time from the Play From Date drop-down list and click the **Play** button. The Synchronize Player appears.

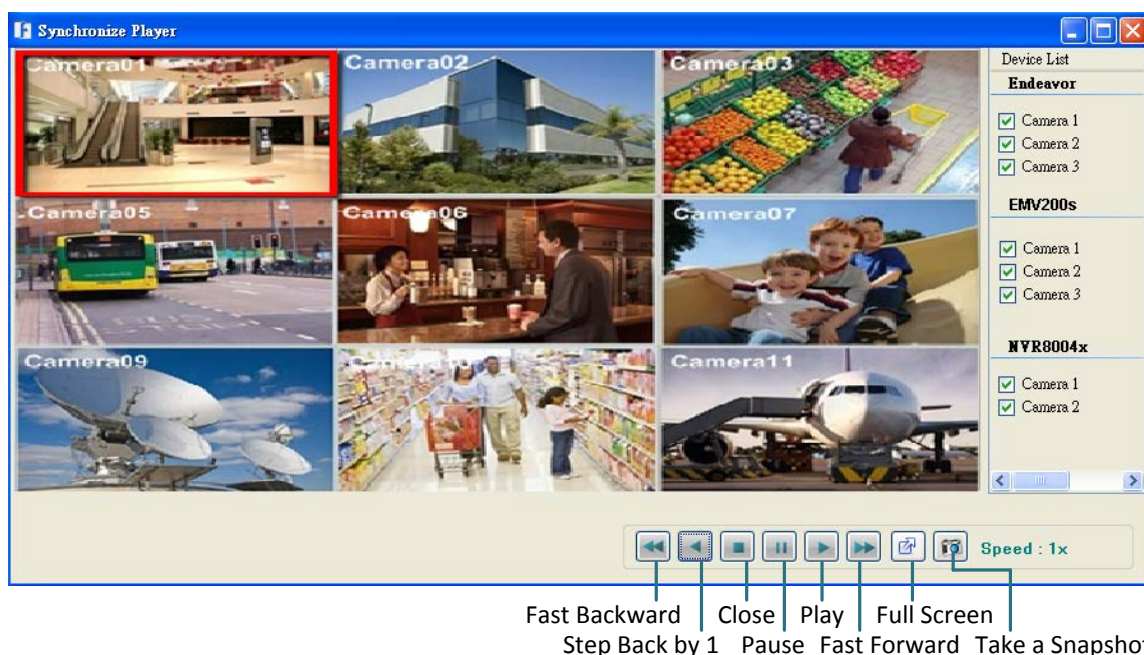


Figure 6-4

To close the Synchronize Player window, click the **Close** button.

To take a snapshot, select a desired camera by clicking on the camera to make a red frame, and then click the **Take a Snapshot** button.

To reverse playing back the recording by one second, click the **Step Back by 1** button.

Chapter 7 Dynamic E-Maps

You can configure a dynamic E-Map alert to lay out the locations of triggered cameras and alarms within a floor plan. When a motion, video loss or input trigger is detected, the color of the camera icon will turn red or yellow for alert (red for video loss and yellow for triggered cameras and alarms). You can also right-click the camera icon and select **View Camera** to see its live view. By doing so, the camera icon will turn green.



Figure 7-1

You have to enable the Alarm Server for using the Dynamic E-Maps function. On the Main Screen, click **Option** and click **Start Alarm Server**. The Alarm Server icon will be minimized to the system tray. To exit the Alarm Server, right click the Alarm Server icon and click **Exit**.

7.1 Activating the Dynamic E-Maps

You have to configure the settings on the Web interfaces of the DVR, Mobile DVR or IP cameras, and then configure the protocol and port settings for the Alarm Server on the PowerVideo Plus. For details, please refer to *10.1 Activating the Alarm Function*.

7.2 Creating a Group

You need to create a group before start using the dynamic E-Maps.

1. On the Main Screen, click the **Dynamic E-Maps** button, the E-Map window appears.

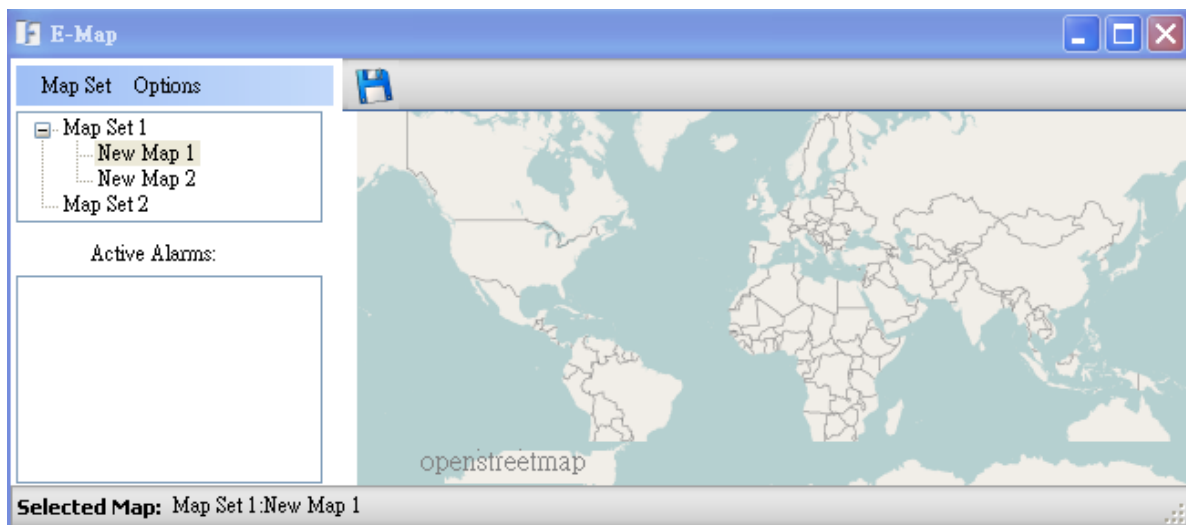
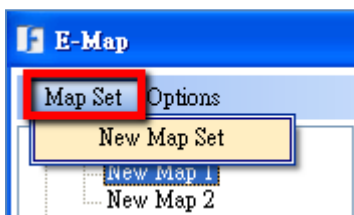
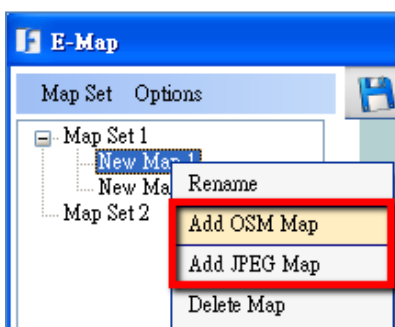


Figure 7-2

2. To create a group to include multiple E-Maps, click the **Map Set** tab and click **New Map Set**.



3. To create an E-Map in the Map Set 1 group, right-click on the **Map Set 1** and then click **Add OSM Map** to import the free **OpenStreet Map** or click **Add JPEG Map** to import a self-created E-Map in JPEG file, an E-Map (New Map 1) is created under the Map Set 1. You can repeat this step to create multiple E-Maps.



4. To rename the created E-Maps, right-click on the E-Map and select **Rename**.
5. To locate the E-Map image, drag and drop the self-created E-Map in JPEG file to the right-side window. Or right-click **New Map 1** and then click **Add JPEG Map**.
6. To locate the cameras on the E-Map, drag and drop the cameras from the Device List (No.11, *Figure 2-2*) to the created E-Map. You can change the direction of the camera icon by right-clicking on the camera icon and click **Rotate Right / Rotate Left**.

7.3 Configuring the Dynamic E-Maps

You can further configure the Dynamic E-Maps. When an event occurs or an alarm is triggered, the Dynamic E-Maps will pop up a window for live view, SOP panel or camera list (contains the triggered cameras / alarms). Click the **Options** button on Figure 7-1 and click **Alarm Options**, the Alarm Option dialog box appears.

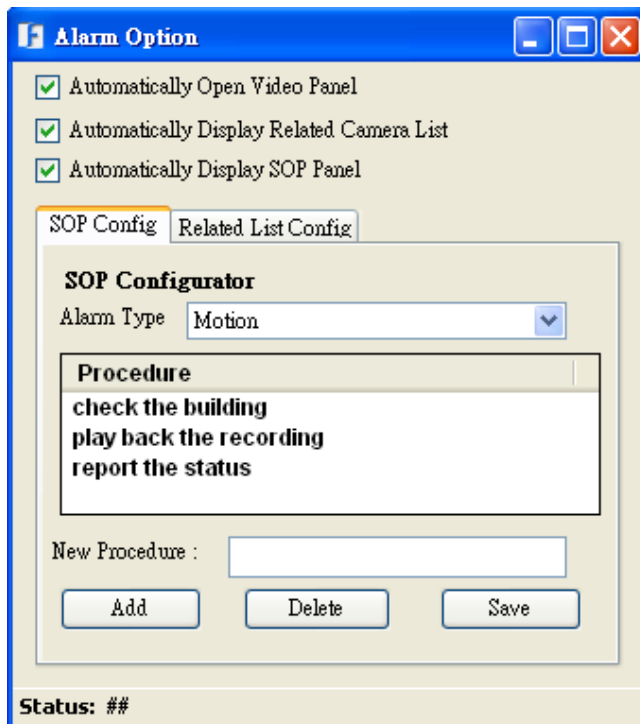


Figure 7-3

To pop up the live view windows:

Enable the **Automatically Open Video Panel**, the following live view window will pop up when an event occurs or an alarm is triggered.

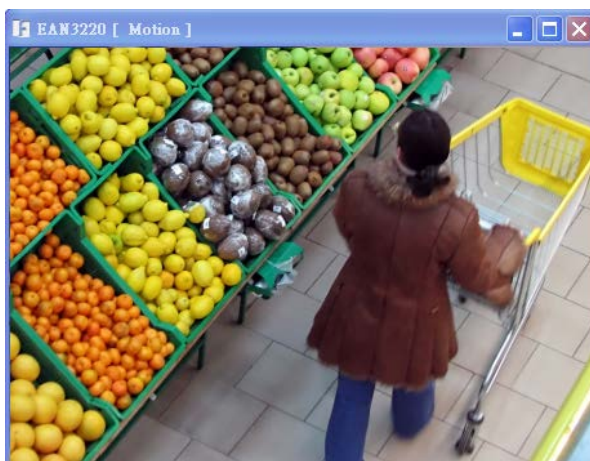


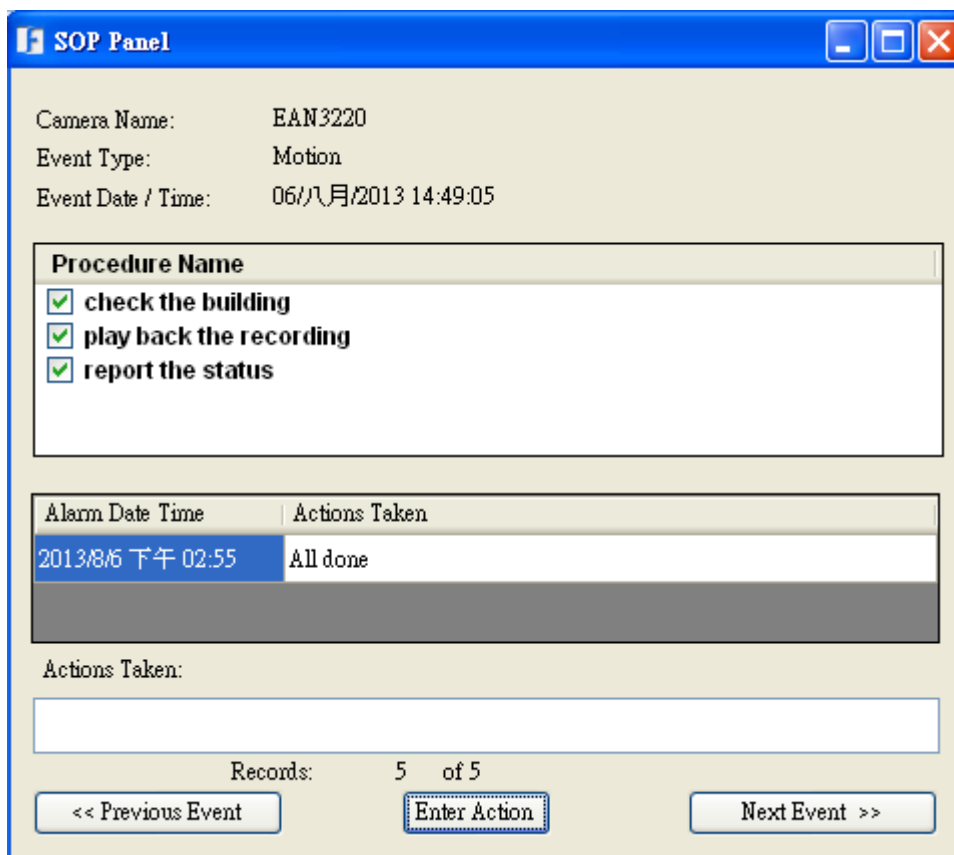
Figure 7-4

To pop up an SOP panel:

The SOP panel is designed to inform the operators for what procedures to take when an event occurs or an alarm is triggered.

1. Enable **Automatically Display SOP Panel**.
2. Click the **SOP Config** tab and select an alarm type from the Alarm Type drop-down list.
3. Type the procedures in the New Procedure field and click **Add**.
4. Click **Save**.

When an event occurs or an alarm is triggered, the following SOP Panel will pop up. You can check the procedures to take and enter what actions you have done in the Actions Taken field and then click the **Enter Action** button. You can also click the **Previous Event** or the **Next Event** buttons to check the previous or next events.



SOP Panel

Camera Name: EAN3220
 Event Type: Motion
 Event Date / Time: 06/八月/2013 14:49:05

Procedure Name

- ☒ check the building
- ☒ play back the recording
- ☒ report the status

| Alarm Date Time | Actions Taken |
|-------------------|---------------|
| 2013/8/6 下午 02:55 | All done |

Actions Taken:

Records: 5 of 5

<< Previous Event Enter Action Next Event >>

Figure 7-5

To pop up a related camera list:

You can configure the Dynamic E-Maps to pop up a related camera list which includes the triggered cameras or alarms when an event occurs or an alarm is triggered.

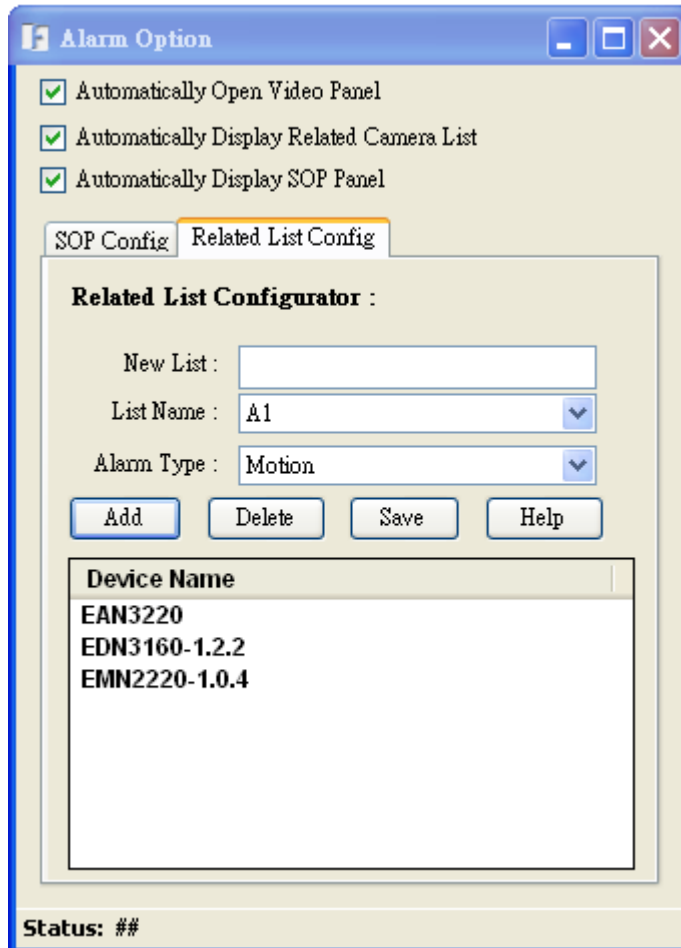


Figure 7-6

1. Enable **Automatically Display Related Camera List** and click the **Related List Config** tab.
2. Type a name in the New List field and click the **Add** button. The created list name will be added to the List Name.
3. Select an alarm type from the Alarm Type drop-down list.
4. Drag and drop the cameras from the Device List (No.11, *Figure 2-2*) to the Device Name box.
5. Click **Save**.

When any of the cameras / alarms included in the created list has been triggered, the created camera list will pop up. Select a model or select all, and click the **View Selected** button, the live view windows of the selected models will pop up. Click the **Record Selected** / **Stop Recording** buttons, the live view of the selected IP cameras will be recorded to the setup recording path.

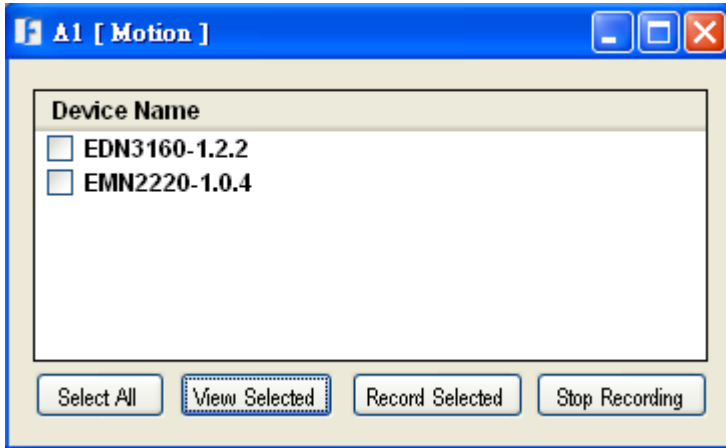


Figure 7-7

Chapter 8 Record Scheduler (DVR/MDVR/NVR/IP Camera)

You can set up a weekly recording schedule for the connected IP devices to record the videos in the computer. Note that enabling the Record Scheduler function will disable the Live View recording function of the IP cameras.

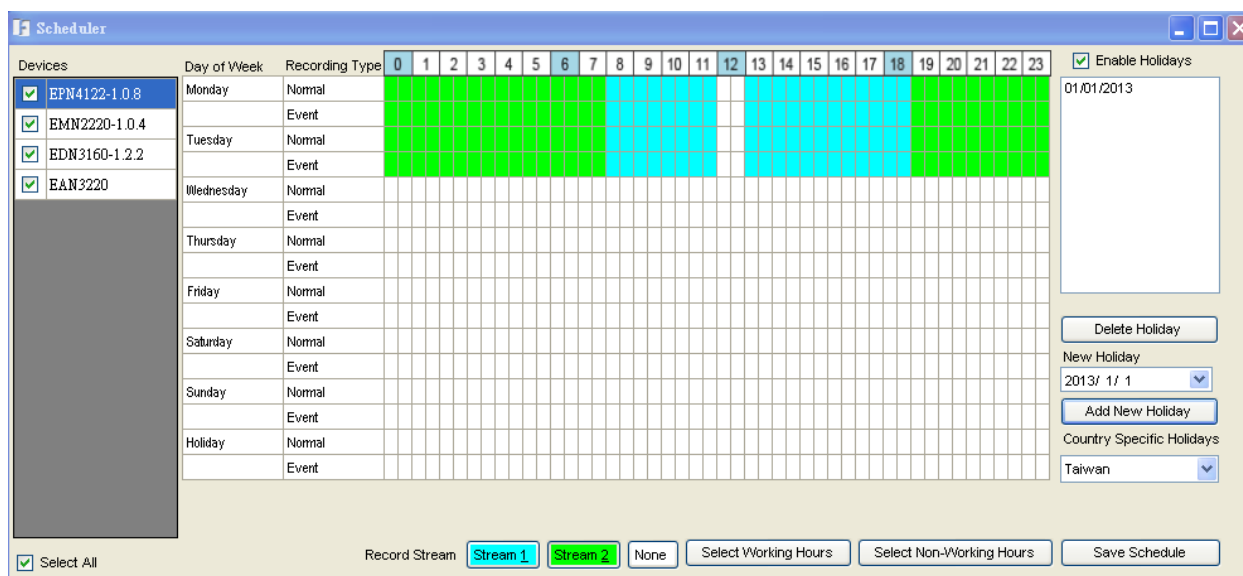





Figure 8-1



To set up the recording schedule, follow the steps below:

1. On the Main Screen, click **Option** and click **Record Scheduler (DVR/MDVR/NVR/IP Camera)**, the above window appears.
2. Select the desired devices in the Devices field.
3. Click **Stream 1** or **Stream 2** to select a record stream.
4. Move the cursor on a desired time square, click and drag the cursor to set up the time period for Stream 1 / Stream 2 recordings on each day. The squares will be displayed in blue / green to indicate which stream is applied to the time period.
5. You can also quickly apply the Stream1 / Stream2 settings to the working hours / non working hours for the Normal Recording schedule. Following is an example of applying Stream1 setting to each Normal Recording schedule during working hours.
 - a. Click the **Stream 1** button.
 - b. Click the **Select Working Hours** button, the working hours (between 8 and 17) of each Normal Recording type will be applied with Stream1 setting (blue color).
6. To clear the selected squares, click the **None** button. Move the cursor on the desired square, click and drag the cursor to clear the settings.

7. Click the  button to save the settings. The Recording Server will be automatically started and the Recording Server icon  will be minimized to the system tray. To exit Recording Server, right-click the Recording Server icon and then click **Exit Recording Server**.
8. To disable the Record Scheduler function, clear all the selected squares by clicking the **None** button and apply it to the whole time squares.

Creating Holidays

You can optionally create the holidays and apply the recording schedule settings for the created holidays. On the right side of the *Figure 8-1*, check the **Enable Holidays** box, select a country from the **Country Specific Holidays** drop-down list, select a date from the **New Holiday** drop-down list and then click the  button. The created holiday will be listed in the white box above the **Delete Holiday** button. After creating the holidays, you can set up the holiday recording schedule on the timeline.

| | | |
|---------|--------|--|
| Holiday | Normal |  |
| | Event |  |

By default, the recordings are saved at **C:\Program Files\Everfocus\PowerVideo Plus\Everfocus**. To change the recording path, please refer to *4.1 Changing the Recording Path*.

Chapter 9 Archive Scheduler

You can set up a daily or a specific time archiving schedule to automatically archive the recordings from the DVR / Mobile DVR / NVR. On the Main Screen, click **Option** and click **Archive Scheduler (DVR) / Archive Scheduler (NVR)**, the following dialog box appears. For details on manually archiving recordings, see 5.1 Remote Archive from the DVR/Mobile DVR/NVR.

Note: The **Archive Scheduler** function is mainly designed for DVR/NVR. Exceptional conditions may occur if you apply this function to Mobile DVRs. Contact EverFocus for more details.

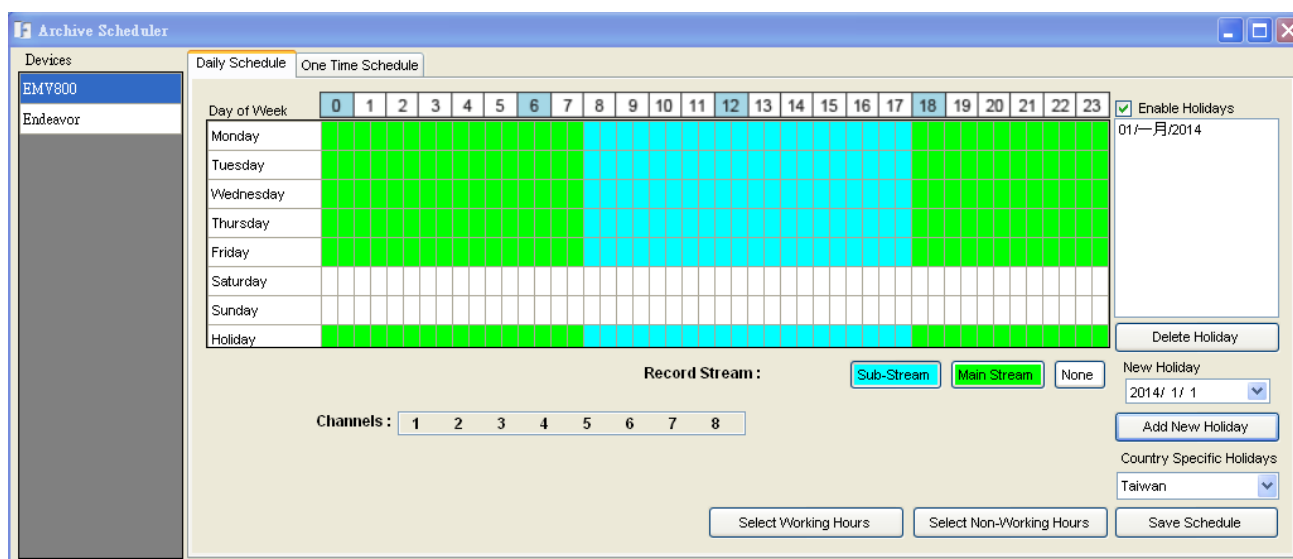
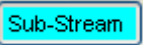

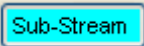




Figure 9-1

To set up a daily archiving schedule:

1. On the Main Screen, click **Option** and click **Archive Scheduler (DVR) / Archive Scheduler (NVR)**, the above image appears.
2. Select the desired devices in the Devices field and select the desired channels by clicking on the channel numbers in the Channels field.
3. Click  or  to select a stream.
4. Move the cursor on a desired time square, click and drag the cursor to set up the time period for Sub-Stream / Main Stream recording on each day. The squares will be displayed in blue / green to indicate which stream is applied to the time period.
5. You can also quickly apply the Sub-Stream / Main Stream settings to the working hours / non working hours. Following is an example of applying Sub-Stream setting to the working hours.
 - a. Click the  button.
 - b. Click the  button, the working hours (between 8 and 17) will be applied with Sub-Stream setting (blue color).

- To clear the selected squares, click the **None** button. Move the cursor on the desired square, click and drag the cursor to clear the settings.
- Click the **Save Schedule** button to save the settings. The Recording Server will be automatically started and the Recording Server icon  will be minimized to the system tray. To exit Recording Server, right-click the Recording Server icon and then click **Exit Recording Server**.
- To disable the Record Scheduler function, clear all the selected squares by clicking the **None** button and apply it to the whole time squares.

Creating Holidays

You can optionally create the holidays and apply the archiving schedule settings for the created holidays. On the right side of the *Figure 9-1*, check the **Enable Holidays** box, select a country from the **Country Specific Holidays** drop-down list, select a date from the **New Holiday** drop-down list and then click the **Add New Holiday** button. The created holiday will be listed in the white box. After creating the holidays, you can set up the holiday recording schedule on the timeline.



To set up a specific time for the archiving schedule:

- In *Figure 9-1*, click the **One Time Schedule** tab, the following window appears.

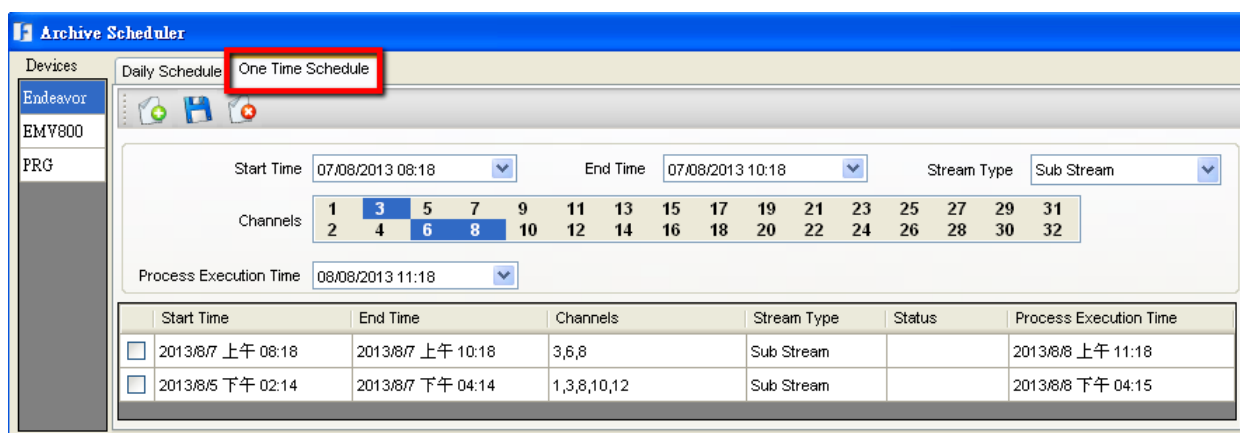






Figure 9-2

- Select a desired device in the Devices field. Click the **Add** button  and then select the Start / End time, stream type and channels of the desired specific time.
- Select a desired time from the Process Execution Time drop-down list for the setup archive schedule to start.
- Click the **Save** button  to save the settings.
- Follow **Step 2** to **4** to add multiple one-time schedule.
- To edit an one-time schedule, highlight a schedule, re-configure the above settings, and then click the **Save** button.

- To delete an one-time schedule, check the box of the schedule and then click the **Delete Schedule** button .

After setting up the Archive Scheduler, you have to enable the Auto Archive Server for the function to work. On the Main Screen, click **Option** and click **Start Auto Archive Server**. The Auto Archive Schedule Server  will be minimized to the system tray. Right-click the **Archive Schedule Server** icon and click **Show Archive Progress**, the Archive Progress window appears. To exit the Auto Archive Schedule Server, right-click the Auto Archive Schedule Server and click **Exit Auto Archive Server**.

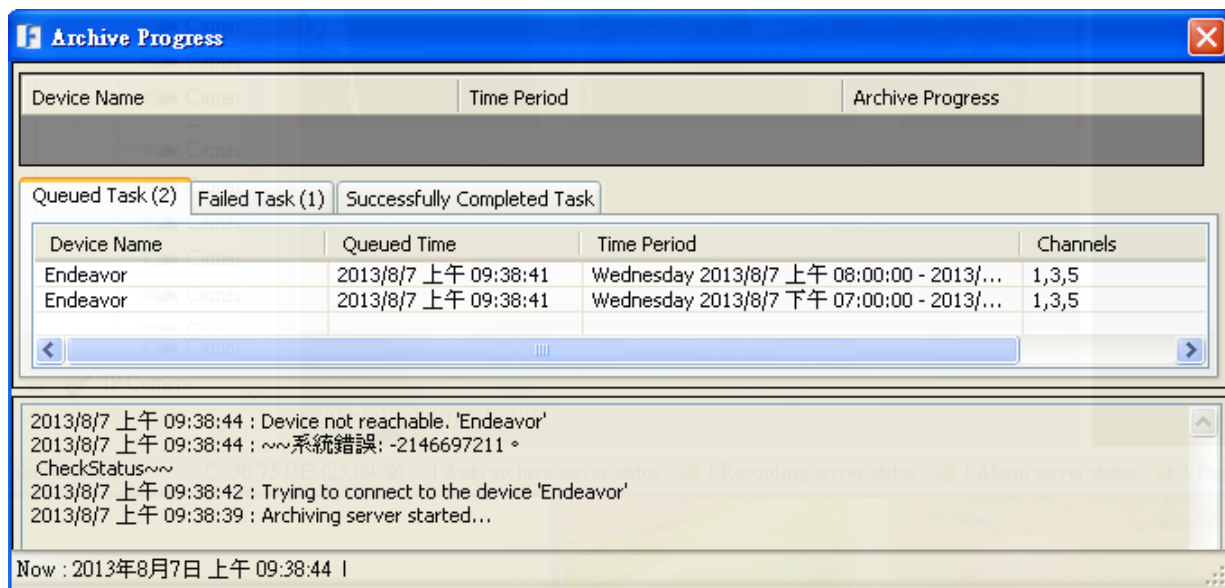


Figure 9-3

By default, the recordings are saved at **C:\Program Files\Everfocus\PowerVideo Plus\Everfocus**. To change the recording path, please refer to *4.1 Changing the Recording Path*.

9.1 Changing the Recording Path of the Auto Archiving Server

By default, the automatically archived recordings are saved at **C:\Program Files\Everfocus\PowerVideo Plus\Everfocus**. Follow the steps below to change the recording path.

1. On the Main Screen, click **Option** and click **Configure Record Settings**.

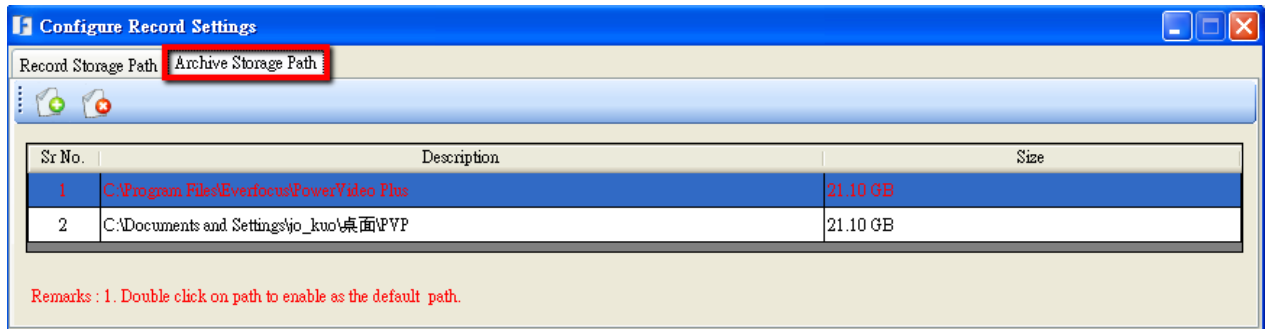




Figure 9-4

2. Click the **Archive Storage Path** tab, click the **Add Path** button  and select a storage location.
The new path will be listed in the storage path list.
3. Double click on the added path to enable it as the default path. The color of the wordings will change to red to indicate the path has been set up as the default path.

Chapter 10 Alarm Settings

You can configure the alarm settings for the connected cameras. When an event occurs or the alarm is triggered, on the Main Screen, the color of the camera icon will change for alert. Or you can set up to pop up a notification window in text or video format. You can also enable the alert sound or E-mail alert when a notification occurs.

You have to enable the Alarm Server for using the Alarm function. On the Main Screen, click **Option** and click **Start Alarm Server**. The Alarm Server  will be minimized to the system tray. To exit the Alarm Server, right-click the Alarm Server icon and then click **Exit**.

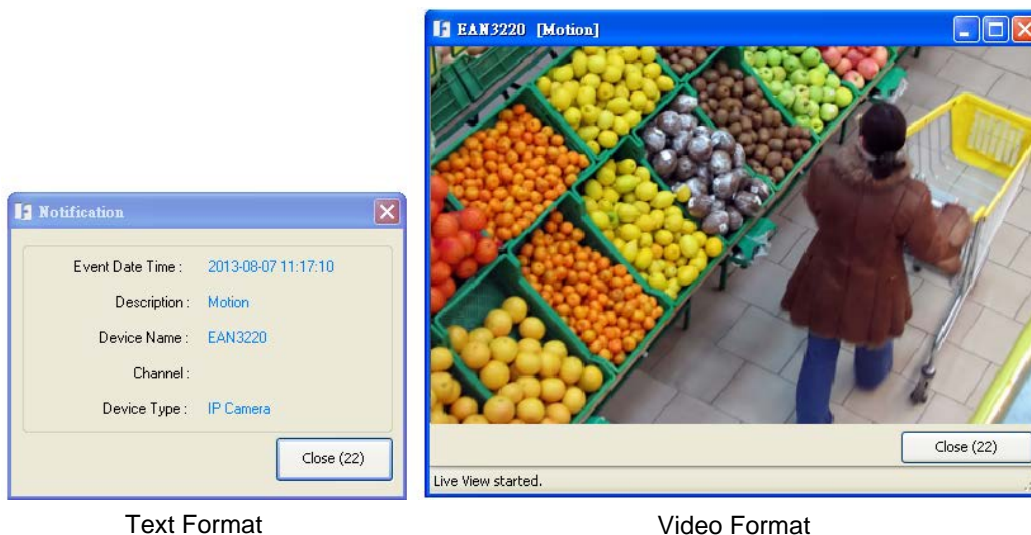


Figure 10-1

10.1 Activating the Alarm Function

You have to configure the settings on the Web interfaces of the DVR, NVR, Mobile DVR or IP cameras, and then configure the protocol and port settings of the Alarm Server to activate the alarm function.

- On the **Web interface** of the DVR / NVR / Mobile DVR:
 - a. Check the **Enable** box and enable the **Network Alarm** function on the Motion, Video Loss or Alarm / Event settings page.

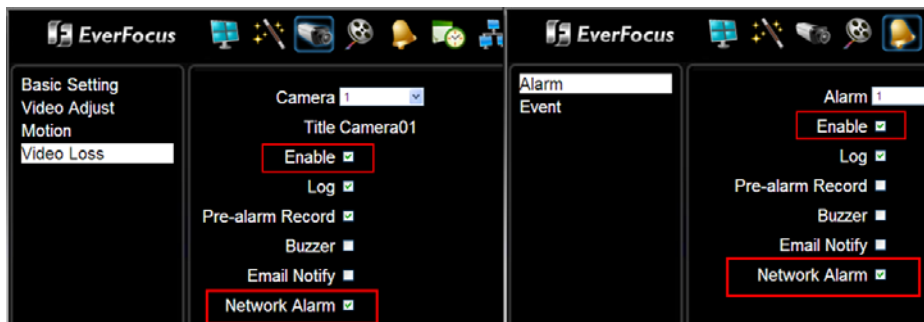


Figure 10-2

- b. On the Network settings page, click **Alarm Server**, type the IP address of the local computer, select a Protocol and enter 1600 in the Port field. Type a 10-digit network ID for network identification.

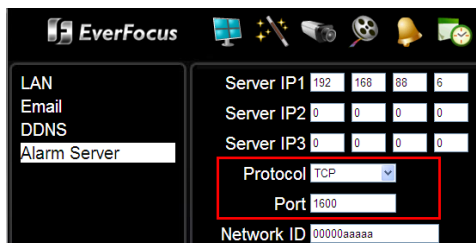


Figure 10-3

Note: All devices connected to the PowerVideo Plus have to be set up with a 10-digit network ID for the Alarm Server to work.

- On the **Web interface** of the IP Camera:
 - Configure the event settings (Event < Event Settings).

| Enable | Name | Event Type | Notification |
|-------------------------------------|------------|------------|----------------|
| <input checked="" type="checkbox"/> | Building A | IO | IO, syslog |
| <input checked="" type="checkbox"/> | Taipei | IO | PC, NA |
| <input checked="" type="checkbox"/> | U.S.A | IO | IO, email, FTP |

Pre/Post Trigger Settings

Pre-trigger Buffer : 10 Sec

Post-trigger Buffer : 10 Sec

Figure 10-4

Ensure to enable the **Network Alarm** notification for the desired events.

Enter Event Name : Motion

Event Triggered by : Motion Detection

☒ Enable This Event

☐ Enable Re-trigger

☒ Enable Pre-trigger Buffer

☒ Enable Post-trigger Buffer

Motion Area : Area 1

Notification Over :

☒ Log

☐ Trigger Alarm Output

Alarm Output Duration Time 10 Second

☒ Send Mail Notification

☐ Upload to FTP

☐ Record to SD Card

☐ Record to PC

☒ Network Alarm

OK Cancel

Figure 10-5

- b. Select a Protocol and enter 1600 in the Port No field. Type a 10-digit network ID for network identification (Network < Network Alarm). Enter the Alarm Server's IP address in the Server 1 field.

Figure 10-6

Note: All devices connected to the PowerVideo Plus have to be set up with a 10-digit network ID for the Alarm Server to work.

- On the **Alarm Server:**
 - a. Right-click the Alarm Server icon, click the **Notification Settings**, the Login dialog box appears.

Figure 10-7

- b. Type the User Name, Password and then click the **Login** button. The Notification Settings window appears.

Figure 10-8

- c. Click the **Option** tab, select a protocol type and type the Alarm Server Port matching the ones you've set up on the IP device. Click the **Save Settings** button.
- d. To check the Network Alarm settings of the connected IP devices, click the **Network Alarm Settings Check** tab, the following window appears.

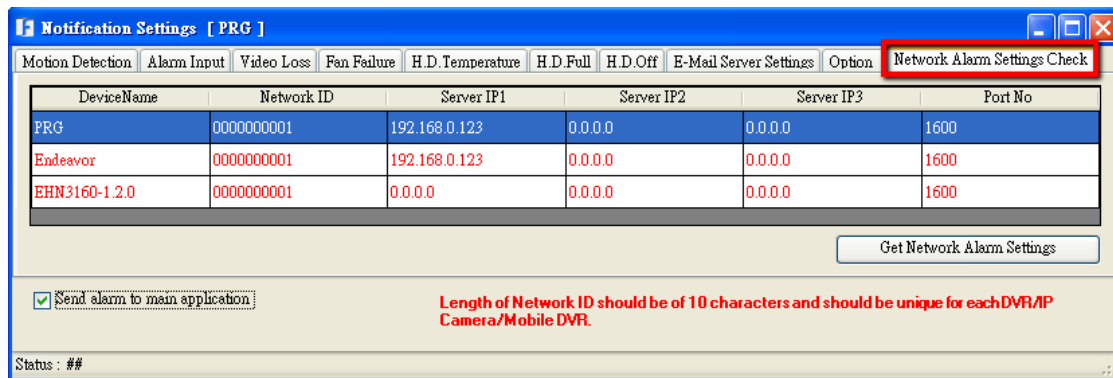



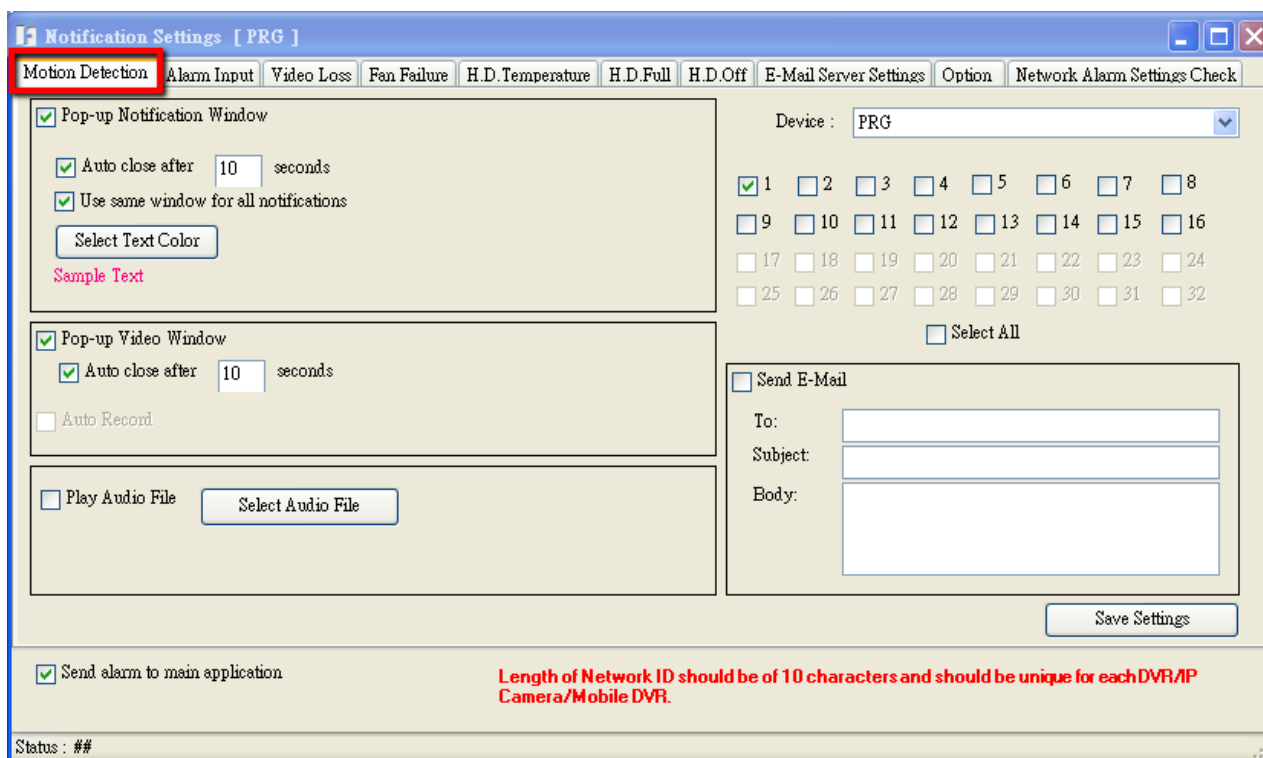
Figure 10-9

- e. Click the **Get Network Alarm Settings** button, the connected devices will be automatically detected and listed.

10.2 Configuring the Notification Settings

Left-click the Alarm Server , select **Notification Settings** and type the ID and password. The Notification Settings dialog box appears. You can configure the alarm settings for each device.

10.2.1 Motion Detection



Notification Settings [PRG]

Motion Detection | Alarm Input | Video Loss | Fan Failure | H.D.Temperature | H.D.Full | H.D.Off | E-Mail Server Settings | Option | Network Alarm Settings Check

☒ Pop-up Notification Window

☒ Auto close after seconds

☒ Use same window for all notifications

Select Text Color

Sample Text

☒ Pop-up Video Window

☒ Auto close after seconds

☐ Auto Record

☐ Play Audio File

Device : PRG

☒ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8

☐ 9 ☐ 10 ☐ 11 ☐ 12 ☐ 13 ☐ 14 ☐ 15 ☐ 16

☐ 17 ☐ 18 ☐ 19 ☐ 20 ☐ 21 ☐ 22 ☐ 23 ☐ 24

☐ 25 ☐ 26 ☐ 27 ☐ 28 ☐ 29 ☐ 30 ☐ 31 ☐ 32

☐ Select All

☐ Send E-Mail

To:

Subject:

Body:

☒ Send alarm to main application

Length of Network ID should be of 10 characters and should be unique for each DVR/IP Camera/Mobile DVR.

Status : ##

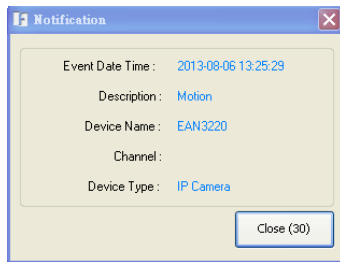
Figure 10-10

Device: Select a device from the drop-down list and select the desired channels.

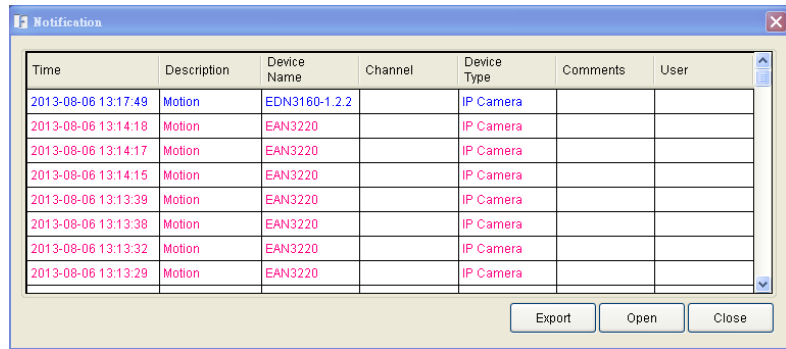
Save Settings: After configuring all the settings, click the button to save the settings.

【Pop-up Notification Window】 Check the box to enable a notification pop-up window in text format when an event occurs.

- **Auto close after xxx seconds:** Check the box to close the pop-up window based on the set-up time.
- **Use same window for all notifications:** Check the box to display all the text notifications on the same window. Uncheck the box will display each text notification on an individual window.



Notifications on the individual windows



Notifications on the same window

- **Select Text Color:** Click to set up the text color.

【Pop-up Video Window】 Check the box to enable a notification pop-up window in video format when an event occurs.

- **Auto close after xxx seconds:** Check the box to close the pop-up window based on the set-up time.
- **Auto Record:** Check the box to record the live view when an event occurs. Note this function is only available for IP cameras.

【Play Audio File】 Check the box to set up an alert sound. Click the **Select Audio File** button to import an audio file in WAV, WMA, MP3 or MID formats to alert the operator when an event occurs.

【Send E-Mail】 When an event occurs, the PowerVideo Plus will send a text notification to the setup E-mail address. Check the **Send E-Mail** box, type the E-mail addresses, subject and text content. You can add multiple E-Mail address by adding a comma between two addresses. To enable the E-Mail function, you have to configure the E-Mail settings (see *10.2.5 E-Mail Server Settings*).

Send Alarm to Main Application: Check the box to enable the alarm function on the Main Screen. For details, please refer to *10.3 Enabling the Alarm Function on the Main Screen*.

10.2.2 Alarm Input

Notification Settings [PRG]

Motion Detection **Alarm Input** Video Loss Fan Failure H.D.Temperature H.D.Full H.D.Off E-Mail Server Settings Option Network Alarm Settings Check

☒ Pop-up Notification Window

☒ Auto close after 30 seconds

☒ Use same window for all notifications

Select Text Color

Sample Text

☒ Pop-up Video Window

☒ Auto close after 30 seconds

☐ Auto Record

☒ Play Audio File

Select Audio File

Device : PRG

☒ 1 ☒ 2 ☒ 3 ☒ 4 ☒ 5 ☒ 6 ☒ 7 ☒ 8

☒ 9 ☒ 10 ☒ 11 ☒ 12 ☒ 13 ☒ 14 ☒ 15 ☒ 16

☐ 17 ☐ 18 ☐ 19 ☐ 20 ☐ 21 ☐ 22 ☐ 23 ☐ 24

☐ 25 ☐ 26 ☐ 27 ☐ 28 ☐ 29 ☐ 30 ☐ 31 ☐ 32

☒ Select All

☐ Send E-Mail

To:

Subject:

Body:

Save Settings

☒ Send alarm to main application

Length of Network ID should be of 10 characters and should be unique for each DVR/IP Camera/Mobile DVR.

Status : ##

Figure 10-11

Device: Select a device from the drop-down list and select the desired channels.

Save Settings: After configuring all the settings, click the button to save the settings.

【Pop-up Notification Window】 Check the box to enable a notification pop-up window in text format when an event occurs.

- **Auto close after xxx seconds:** Check the box to close the pop-up window based on the set-up time.
- **Use same window for all notifications:** Check the box to display all the text notifications on the same window. Uncheck the box will display each text notification on an individual window.

Notification

Event Date Time : 2013-08-06 13:25:29

Description : Motion

Device Name : EAN3220

Channel :

Device Type : IP Camera

Close (30)

| Time | Description | Device Name | Channel | Device Type | Comments | User |
|---------------------|-------------|---------------|---------|-------------|----------|------|
| 2013-08-06 13:17:49 | Motion | EDN3160-1.2.2 | | IP Camera | | |
| 2013-08-06 13:14:18 | Motion | EAN3220 | | IP Camera | | |
| 2013-08-06 13:14:17 | Motion | EAN3220 | | IP Camera | | |
| 2013-08-06 13:14:15 | Motion | EAN3220 | | IP Camera | | |
| 2013-08-06 13:13:39 | Motion | EAN3220 | | IP Camera | | |
| 2013-08-06 13:13:38 | Motion | EAN3220 | | IP Camera | | |
| 2013-08-06 13:13:32 | Motion | EAN3220 | | IP Camera | | |
| 2013-08-06 13:13:29 | Motion | EAN3220 | | IP Camera | | |

Export Open Close

Notifications on the individual windows

Notifications on the same window

- **Select Text Color:** Click to set up the text color.

【Pop-up Video Window】 Check the box to enable a notification pop-up window in video format when an event occurs.

- **Auto close after xxx seconds:** Check the box to close the pop-up window based on the set-up time.
- **Auto Record:** Check the box to record the live view when an event occurs. Note this function is only available for IP cameras.

【Play Audio File】 Check the box to set up an alert sound. Click the **Select Audio File** button to import an audio file in WAV, WMA, MP3 or MID formats to alert the operator when an event occurs.

【Send E-Mail】 When an event occurs, the PowerVideo Plus will send a text notification to the setup E-mail address. Check the **Send E-Mail** box, type the E-mail addresses, subject and text content. You can add multiple E-Mail address by adding a comma between two addresses. To enable the E-Mail function, you have to configure the E-Mail settings (see *10.2.5 E-Mail Server Settings*).

Send Alarm to Main Application: Check the box to enable the alarm function on the Main Screen. For details, please refer to *10.3 Enabling the Alarm Function on the Main Screen*.

10.2.3 Video Loss

This function is not available for IP Cameras.

Notification Settings [PRG]

Tabs: Motion Detection | Alarm Input | **Video Loss** | Fan Failure | H.D.Temperature | H.D.Full | H.D.Off | E-Mail Server Settings | Option | Network Alarm Settings Check

☒ Pop-up Notification Window

☒ Auto close after seconds

☒ Use same window for all notifications

Sample Text

☒ Play Audio File

Device:

☒ 1 ☒ 2 ☒ 3 ☒ 4 ☒ 5 ☒ 6 ☒ 7 ☒ 8
☒ 9 ☒ 10 ☒ 11 ☒ 12 ☒ 13 ☒ 14 ☒ 15 ☒ 16
☐ 17 ☐ 18 ☐ 19 ☐ 20 ☐ 21 ☐ 22 ☐ 23 ☐ 24
☐ 25 ☐ 26 ☐ 27 ☐ 28 ☐ 29 ☐ 30 ☐ 31 ☐ 32

☒ Select All

☐ Send E-Mail

To:

Subject:

Body:

☒ Send alarm to main application

Length of Network ID should be of 10 characters and should be unique for each DVR/IP Camera/Mobile DVR.

Status: ##

Figure 10-12

Device: Select a device from the drop-down list and select the desired channels.

Save Settings: After configuring all the settings, click the button to save the settings.

【Pop-up Notification Window】 Check the box to enable a notification pop-up window in text format when an event occurs.

- **Auto close after xxx seconds:** Check the box to close the pop-up window based on the set-up time.
- **Use same window for all notifications:** Check the box to display all the text notifications on the same window. Uncheck the box will display each text notification on an individual window.

Notification (Left)

Event Date Time: 2013-08-06 13:25:29

Description: Motion

Device Name: EAN3220

Channel:

Device Type: IP Camera

Notification (Right)

| Time | Description | Device Name | Channel | Device Type | Comments | User |
|---------------------|-------------|---------------|---------|-------------|----------|------|
| 2013-08-06 13:17:49 | Motion | EDN3160-1.2.2 | | IP Camera | | |
| 2013-08-06 13:14:18 | Motion | EAN3220 | | IP Camera | | |
| 2013-08-06 13:14:17 | Motion | EAN3220 | | IP Camera | | |
| 2013-08-06 13:14:15 | Motion | EAN3220 | | IP Camera | | |
| 2013-08-06 13:13:39 | Motion | EAN3220 | | IP Camera | | |
| 2013-08-06 13:13:38 | Motion | EAN3220 | | IP Camera | | |
| 2013-08-06 13:13:32 | Motion | EAN3220 | | IP Camera | | |
| 2013-08-06 13:13:29 | Motion | EAN3220 | | IP Camera | | |

Notifications on the individual windows

Notifications on the same window

- **Select Text Color:** Click to set up the text color.

【Play Audio File】 Check the box to set up an alert sound. Click the **Select Audio File** button to import an audio file in WAV, WMA, MP3 or MID formats to alert the operator when an event occurs.

【Send E-Mail】 When an event occurs, the PowerVideo Plus will send a text notification to the setup E-mail address. Check the **Send E-Mail** box, type the E-mail addresses, subject and text content. You can add multiple E-Mail address by adding a comma between two addresses. To enable the E-Mail function, you have to configure the E-Mail settings (see *10.2.5 E-Mail Server Settings*).

Send Alarm to Main Application: Check the box to enable the alarm function on the Main Screen. For details, please refer to *10.3 Enabling the Alarm Function on the Main Screen*.

10.2.4 Fan Failure / HD Temperature / HD Full / HD Off

This function is not available for IP Cameras.

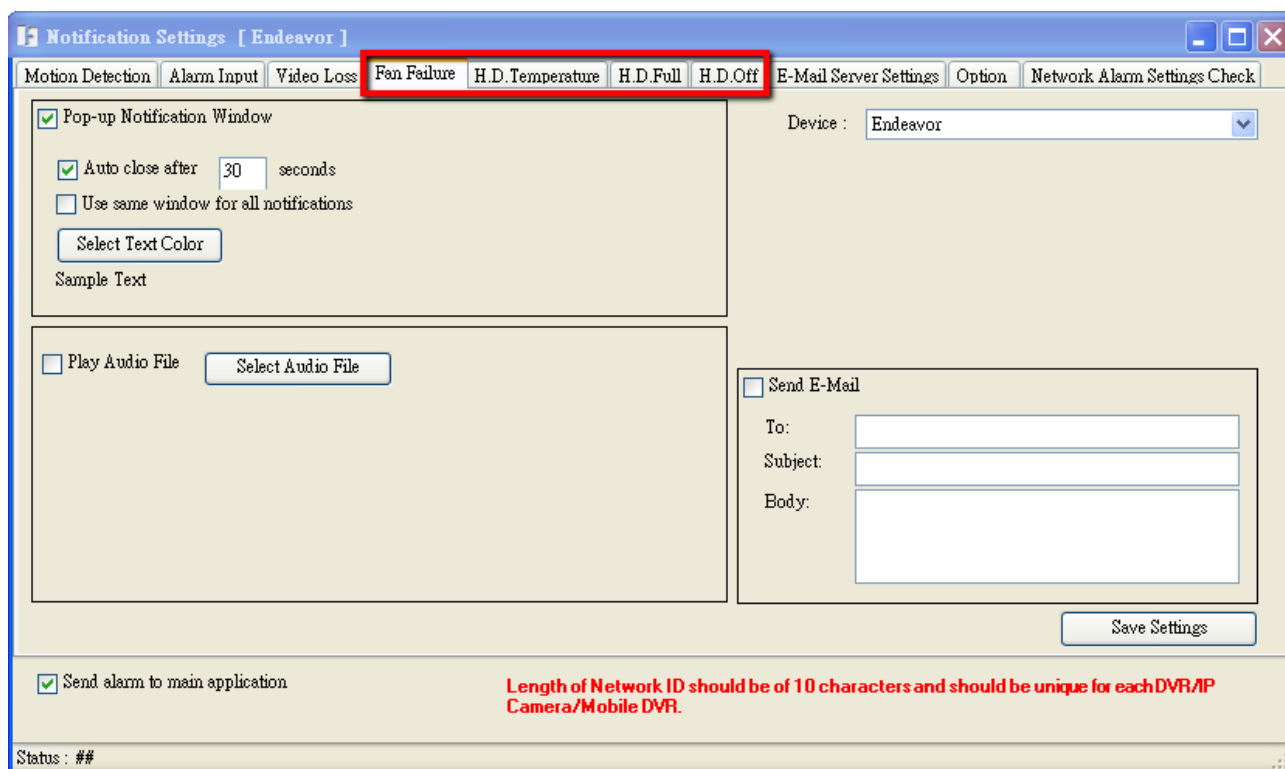


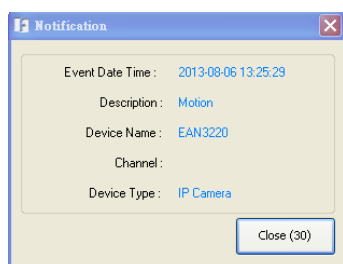
Figure 10-13

Device: Select a device from the drop-down list and select the desired channels.

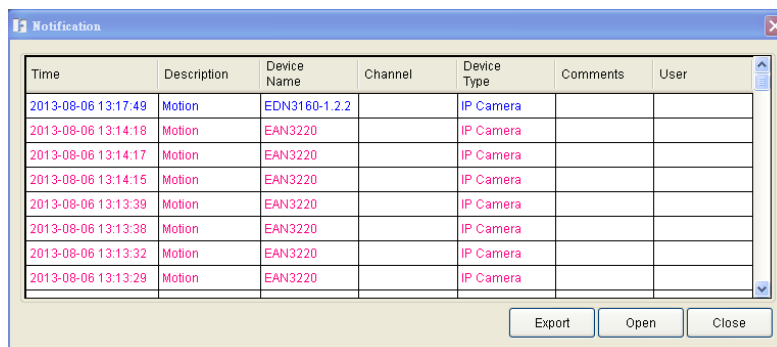
Save Settings: After configuring all the settings, click the button to save the settings.

【Pop-up Notification Window】 Check the box to enable a notification pop-up window in text format when an event occurs.

- **Auto close after xxx seconds:** Check the box to close the pop-up window based on the set-up time.
- **Use same window for all notifications:** Check the box to display all the text notifications on the same window. Uncheck the box will display each text notification on an individual window.



Notifications on the individual windows



Notifications on the same window

- **Select Text Color:** Click to set up the text color.

【Play Audio File】 Check the box to set up an alert sound. Click the **Select Audio File** button to import an audio file in WAV, WMA, MP3 or MID formats to alert the operator when an event occurs.

【Send E-Mail】 When an event occurs, the PowerVideo Plus will send a text notification to the setup E-mail address. Check the **Send E-Mail** box, type the E-mail addresses, subject and text content. You can add multiple E-Mail address by adding a comma between two addresses. To enable the E-Mail function, you have to configure the E-Mail settings (see *10.2.5 E-Mail Server Settings*).

Send Alarm to Main Application: Check the box to enable the alarm function on the Main Screen. For details, please refer to *10.3 Enabling the Alarm Function on the Main Screen*.

10.2.5 E-Mail Server Settings

Notification Settings [Endeavor]

Motion Detection Alarm Input Video Loss Fan Failure H.D.Temperature H.D.Full H.D.Off **E-Mail Server Settings** Option Network Alarm Settings Check

SMTP Server Address : mail.everfocus.com.tw

SMTP Port : 25

From : taipei@everfocus.com.tw

User Name : 123

Password : ***

☒ Use SSL

Save Settings

☒ Send alarm to main application

Length of Network ID should be of 10 characters and should be unique for each DVR/IP Camera/Mobile DVR.

Status : ##

Figure 10-14

SMTP Server Address: Type the outgoing server address.

SMTP Port: Keep 25 for the SMTP port.

From: Type the e-mail address that the notifications sent from.

User Name: Type the user name of the e-mail address entered in the From field.

Password: Type the password of the e-mail address entered in the From field.

User SSL: If your e-mail server requires an SSL (Secure Sockets Layer) authentication for connection, check the **User SSL** box.

Save Settings: Click to save the settings.

10.3 Enabling the Alarm Function on the Main Screen

When an event occurs or the alarm is triggered, on the Main Screen, the color of the camera icon will change for alert. To enable this function, on Figure 10-2, select the desired devices, configure the event / alarm settings, enable **Send alarm to Main Application** and click the **Save** button.

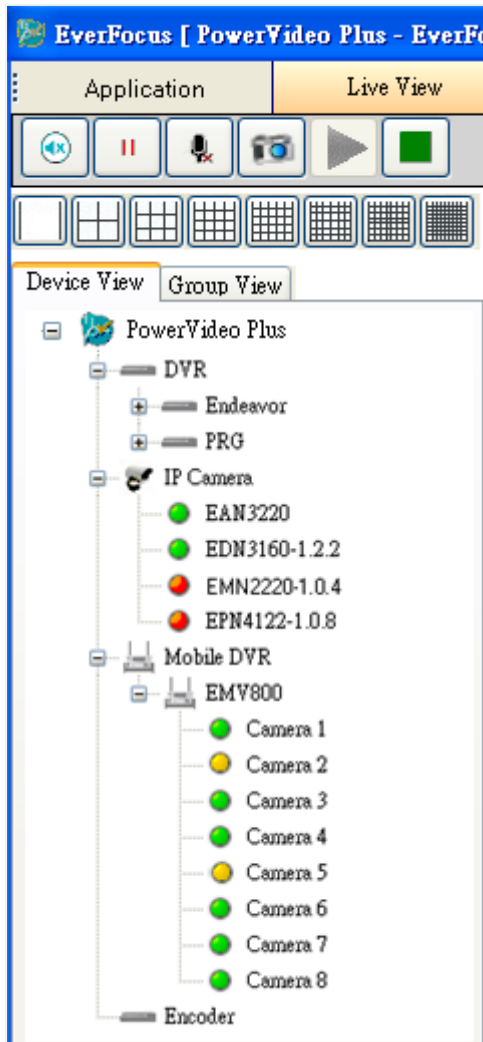


Figure 10-15

Green: Indicates the camera is working normally.

Red: Indicates video loss on the camera.

Yellow: Indicates the event occurs or the alarm is triggered.

Chapter 11 PTZ Control (IP Speed Dome)

You can remotely control the IP Speed Dome cameras or configure their settings through the PowerVideo Plus. By setting up the Preset Position, Auto Pan, Tour and Pattern functions, you can force the camera to move to a certain position or to move in a setup sequence.

To remotely control the speed dome cameras connected to the DVR, please refer to *15.4 PTZ Control for Speed Dome Connected to the DVR*.

11.1 PTZ Control

The PTZ Control is designed to control the PTZ cameras through the PowerVideo Plus. After configuring the PTZ settings, you can activate the functions in the Actions Control Buttons field. To configure the PTZ settings, please refer to the following sections.

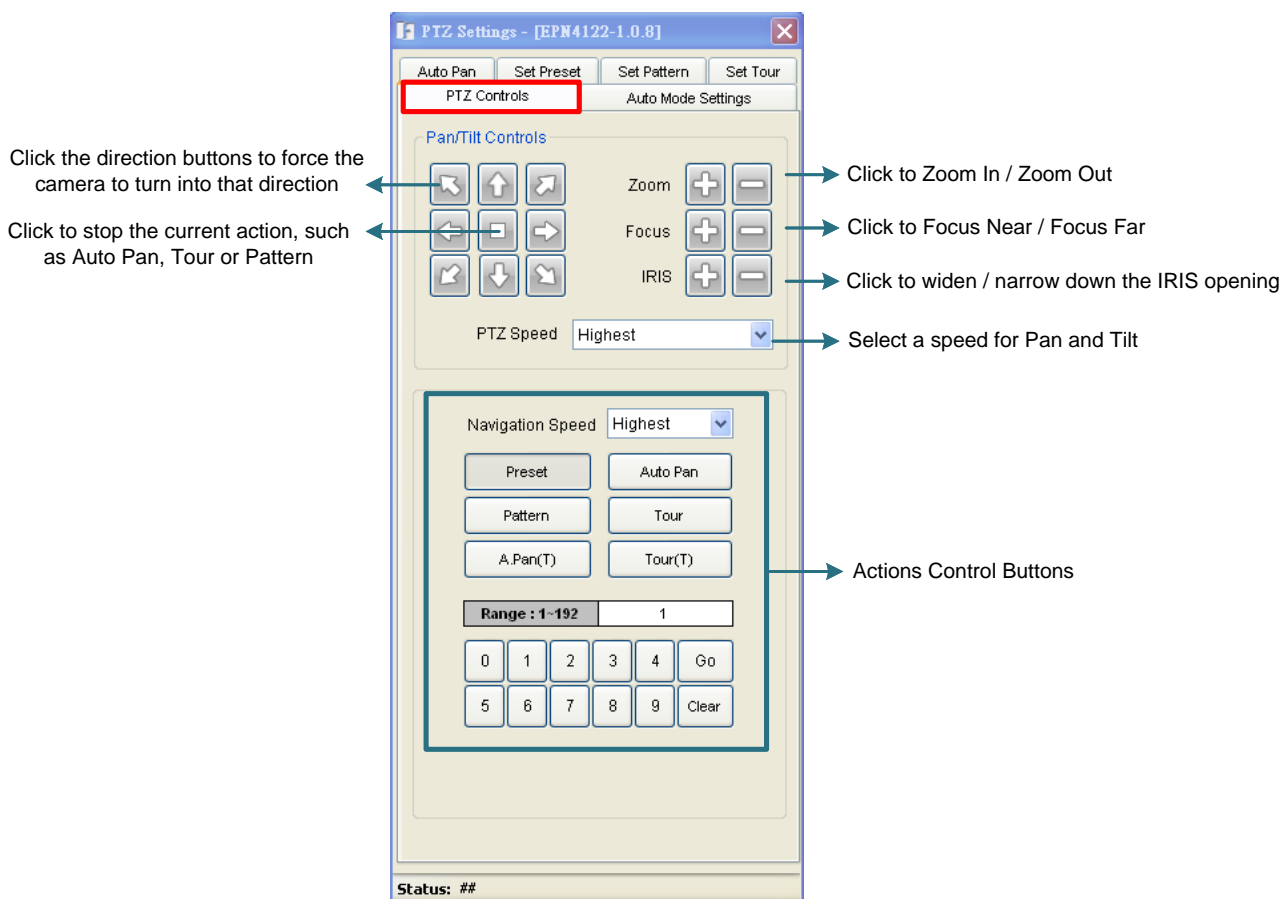






Figure 11-1

Actions Control Buttons

| | |
|---|--|
| Navigation Speed | Select a navigation speed for the setup actions. |
|  | To force the camera to turn to the preconfigured preset position, click the Preset button, select a Preset number and then click the Go button. Note: To use this function, you have to set a preset position (see 11.3 Set Preset). |
|  | To force the camera to pan automatically, click the Auto Pan button, select 1 or 2 (1 for the preconfigured point-to-point pan; 2 for endless 360°pan) and then click the Go button. Only one preset Auto Pan can be configured. The endless pan will rotate horizontally around the currently selected vertical camera axis. Simply change the current vertical camera axis, if required, before clicking the Go button. Note: To use this function, you have to set up an auto pan sequence or endless pan speed (see 11.2 Auto Pan). |
|  | To move the camera in a preconfigured sequence movement, click the Pattern button, select a pattern number and then click the Go button. Click the Live View Window once can stop running the pattern. A preset Pattern is where you get up to 90 seconds to move the camera (via the PTZ buttons) to your choice of sequential positions at a preset speed. After which you can save that sequence of movements. Up to 4 Patterns can be configured. Note: To use this function, you have to set up a pattern (see 11.4 Set Pattern). |
|  | To move the camera in a preconfigured sequence consists of a selection of Patterns and Preset Positions, click the Tour button, select a tour number and then click the Go button. Note: To use this function, you have to set up at least one tour (see 11.5 Set Tour). |
| Numeric Buttons | Click to enter the number for the selected action. |
| Range | Displays the selected number. |
| Go | Click this button to activate the selected action number. |
| Clear | Click this button to clear the entered number. |

To bring up the PTZ Settings panel, follow the steps below:

1. On the Main Screen, drag and drop a PTZ camera in the Live View window.
2. Click on a live view window to select the camera which you want to set the PTZ controls. The selected camera will be highlighted with a red frame.

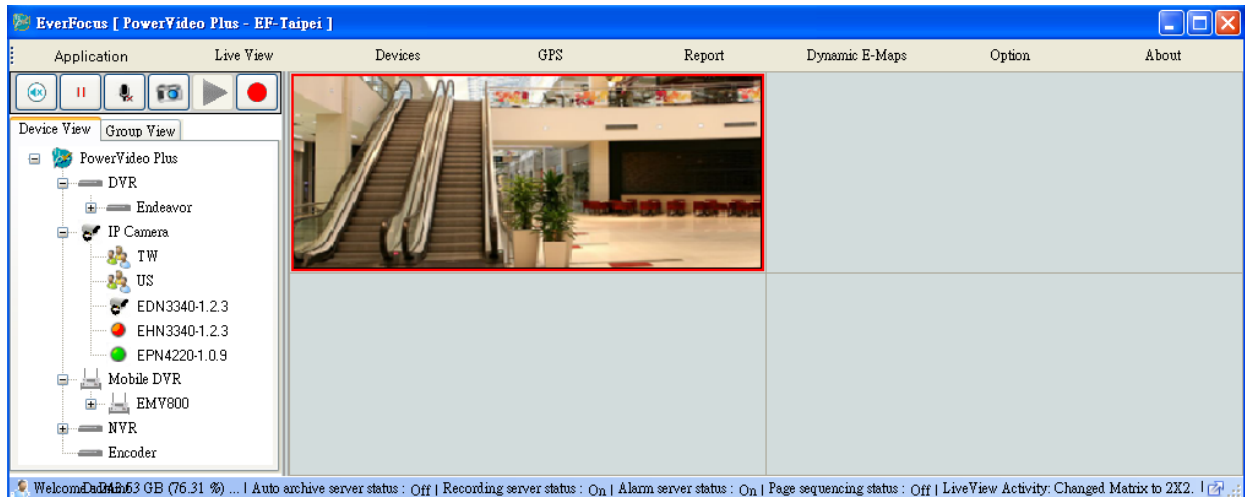


Figure 11-2

3. Click **Devices** and click **PTZ Control**.

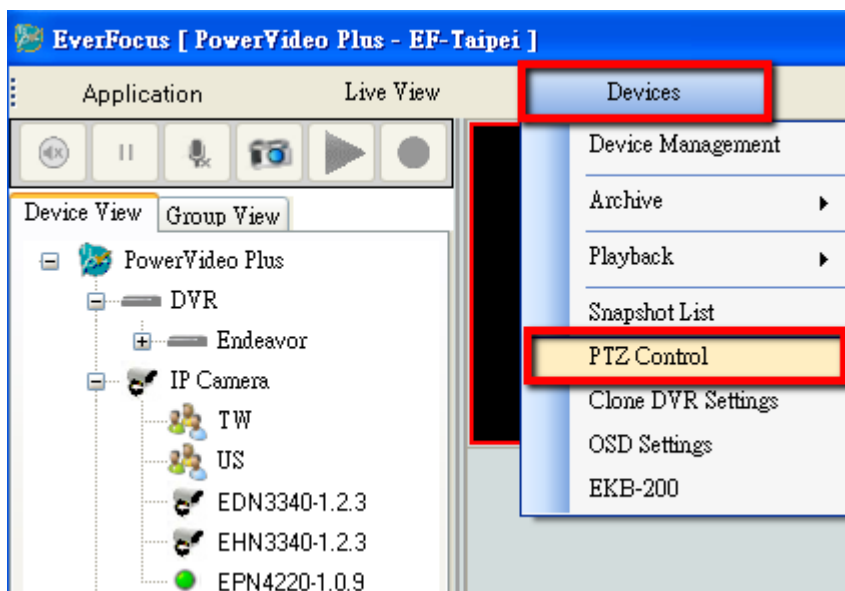


Figure 11-3

4. The PTZ Settings panel pops up.

11.2 Auto Pan

To configure the Auto Pan settings to force the camera to pan automatically, click the **Auto Pan** tab, the following panel appears.

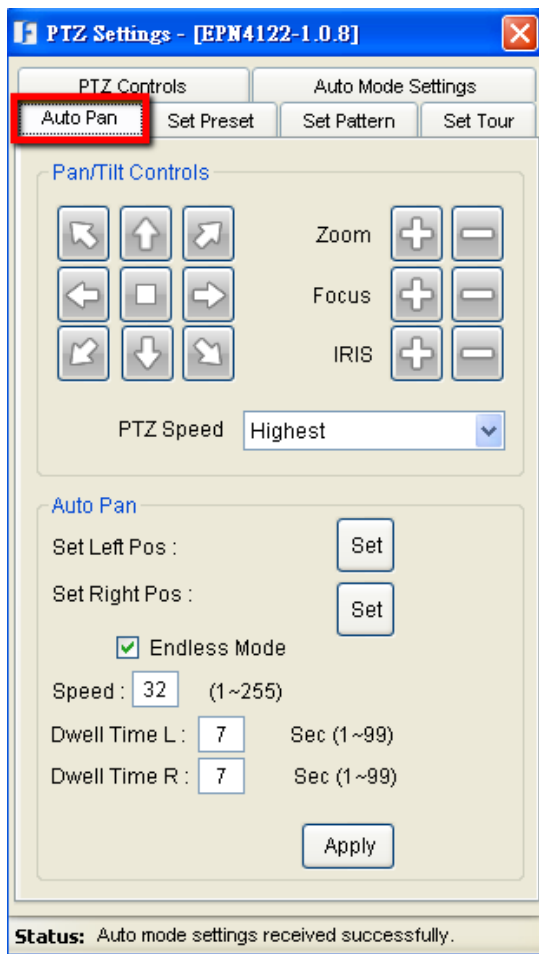


Figure 11-4

1. Using the direction buttons to adjust the camera view to a desired position where you want to set up the position as the Left Position. You can select the pan / tilt speed from the PT Speed drop-down list for controlling the direction buttons. Adjust zoom, focus and Iris if necessary.
2. Click the **Set** button next to **Set Left Pos** to save the current position as the Left Position.
3. Follow **Step 2** to set up the Right Position and then click the **Set** button next to **Set Right Pos**.
4. Check the **Endless Mode** check box if you want the camera to pan endlessly.
5. Enter a speed at which the camera will move during the Auto Pan sequence.
6. Enter a dwell time for the Left and Right positions (the time that the camera will pause at each position).
7. Click **Apply** to apply the settings.

To activate the configured Auto Pan function on the Live View window, on the **PTZ Controls** panel, click the **Auto Pan** button, click “1” on the numeric buttons and then click the **Go** button. The camera will continuously move to the left and right positions which you have configured. Click “2” on the numeric buttons and then click the **Go** button will force the camera to pan 360° endlessly. Only one preset Auto Pan can be configured.

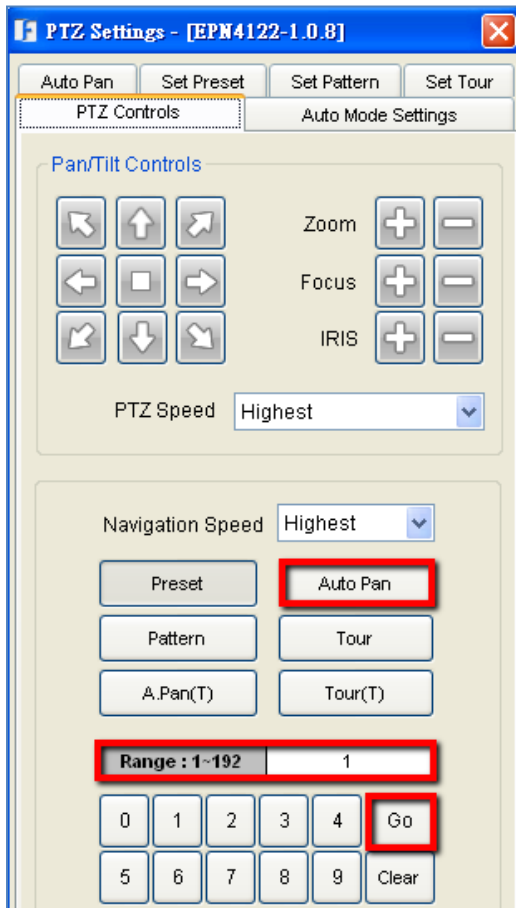


Figure 11-5

Note: The endless pan will rotate horizontally around the currently selected vertical camera axis. Simply change the current vertical camera axis, if required, before clicking the **Go** button.

11.3 Set Preset

You can configure up to 192 preset positions in this field. Click the **Set Preset** tab, the following panel appears.

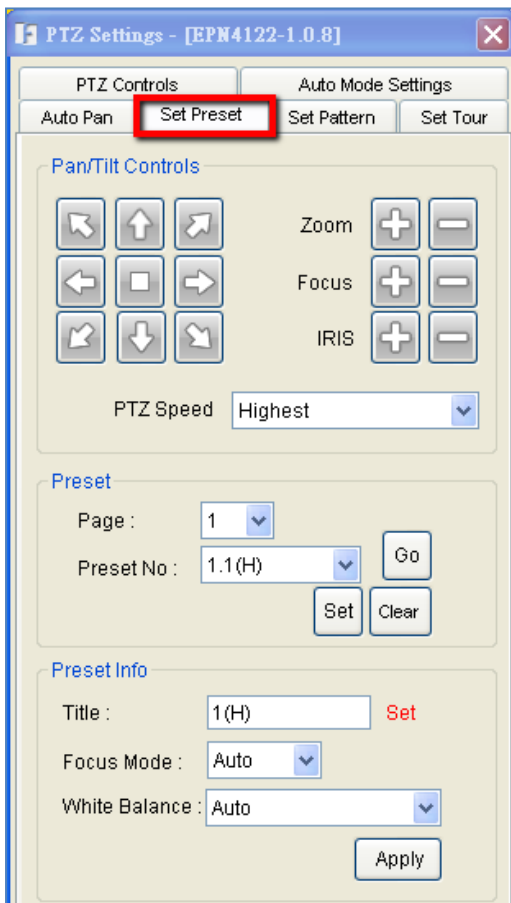


Figure 11-6

1. Adjust the camera view to a desired position using the direction button. You can select the pan / tilt speed from the PT Speed drop-down list for controlling the direction buttons. Adjust zoom, focus and Iris if necessary.
2. To set up the current camera view as a preset position, select a page number and a preset number from the **Page** and **Preset No** drop-down list for the current camera view.
3. Click **Set** to save the current position as the Preset Number you have selected.
4. Optionally set up a title, focus mode and white balance for this preset position view.
5. Follow **Step 2** to **5** to set up another preset position. You can click the **Next** button to go to the next page and then click the Preset No drop-down list to select a number. Or click on the number in the Page field to select a preset number.

To activate the Preset function on the Live View window, click the **PTZ Controls** to display the PTZ Control panel. Click the **Preset** button, click on the numeric buttons to select a preset number and then click the **Go** button. The selected preset position should be displayed on the camera view.

11.4 Set Pattern

You are given 90 seconds to move the camera (via the PTZ buttons) to different positions (and different zoom / focus / Iris positions). The camera then saves that sequence under the Pattern No. you've selected. Up to 4 Patterns can be configured. Click the **Set Preset** tab, the following panel appears.

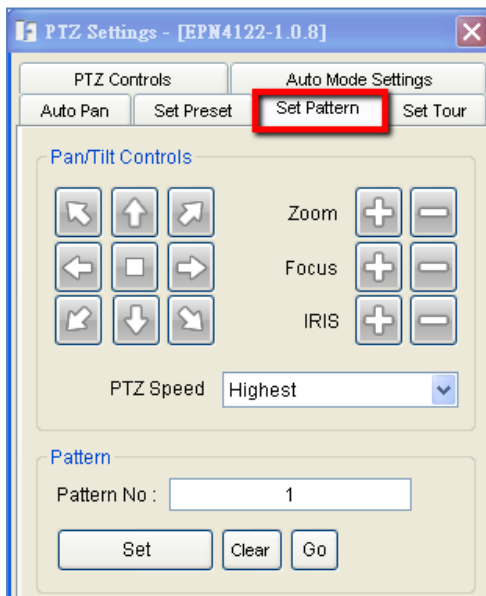


Figure 11-7

To set up a Pattern Sequence:

1. Select a pan and tilt speed from the PTZ Speed drop-down list for the camera to move to the directions when you use the direction buttons during the configuration period.
2. Enter a pattern number in the Pattern No field.
3. Click the **Set** button to start the 90-second configuration period. Use the direction / zoom / focus / Iris buttons to move the camera in the desired sequence.
4. Click the **Complete** button to end the configuration.

Click **Clear** can void the configuration for the entered Pattern No. Click **Go** to view/test the configured Pattern sequence.

To activate the configured Pattern function on the Live View window, click the **PTZ Controls** to display the PTZ Control panel. Click the **Pattern** button, click on the numeric buttons to select a Pattern number and then click the **Go** button. The camera will move to the positions in the Pattern sequence you have configured.

11.5 Set Tour

You can combine up to 16 preconfigured camera positions and patterns into one long sequence. Up to 16 Tour sequences can be set up.

To set up a Tour Sequence:

1. Click the **Set Tour**, the following Tour panel appears.

PTZ Settings - [EPN4122-1.0.8]

PTZ Controls: Auto Pan, Set Preset, Set Pattern, **Set Tour**

Auto Mode Settings

Tour No: 1

| Sr | Mode | Value | Dwell Time(1~99) | Speed(1~255) |
|----|--------|-------|------------------|--------------|
| 1 | Preset | 1 | 7 | 100 |
| 2 | Preset | 2 | 7 | 100 |
| 3 | Preset | 3 | 7 | 100 |
| 4 | Preset | 4 | 7 | 100 |
| 5 | Preset | 5 | 7 | 100 |
| 6 | Preset | 6 | 7 | 100 |
| 7 | Preset | 7 | 7 | 100 |
| 8 | Preset | 8 | 7 | 100 |
| 9 | Preset | 9 | 7 | 100 |
| 10 | Preset | 10 | 7 | 100 |
| 11 | Preset | 11 | 7 | 100 |
| 12 | Preset | 12 | 7 | 100 |
| 13 | Preset | 13 | 7 | 100 |
| 14 | Preset | 14 | 7 | 100 |
| 15 | Preset | 15 | 7 | 100 |
| 16 | Preset | 16 | 7 | 100 |

Apply Default

Figure 11-8

2. Select a number from the Tour No drop-down list.
3. To set up the first position for Tour No.1, select **OFF**, **Preset** or **Pattern** in the Mode field.

Tour No: 1

| Sr | Mode | Value | Dwell Time(1~99) | Speed(1~255) |
|----|---------|-------|------------------|--------------|
| 1 | Preset | 1 | 7 | 100 |
| 2 | Off | | | 100 |
| 3 | Pattern | | | 100 |

Figure 11-9

4. Enter a Preset No. or Pattern No. in the **Value** field.
5. Enter a dwell time that the Tour will pause at a Preset position or after a Pattern sequence.
6. Enter a speed at which the camera will move to the Preset position or first point of the Pattern sequence.
7. Follow **Step 3 to 6** to configure up to 16 positions for Tour No.1.
8. To configure another Tour sequences, select a number from the Tour No drop-down list and follow **Step 3 to 6** to configure up to 16 positions for the selected Tour number.
9. Click **Apply** to apply the settings.

To activate the configured Tour function on the Live View window, click the **PTZ Controls** to display the PTZ Control panel. Click the **Tour** button, click on the numeric buttons to select a Tour number and then click the **Go** button. The camera will move to the positions in a long sequence you have configured.

11.6 Auto Mode Settings

Click the **Auto Mode Settings**, and the following panel displays.

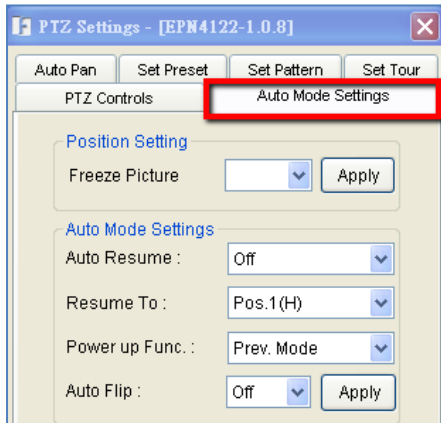


Figure 11-10

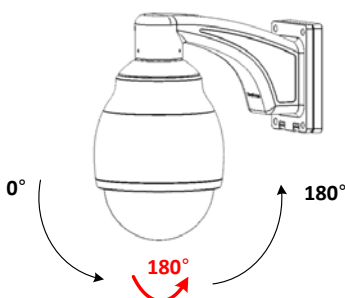
Freeze Picture: This function can be used in conjunction with the Preset function. If you select **On**, the camera will directly jump to the selected position without moving. If you select **Off**, the camera will move to the selected position.

Auto Resume: Activate this setting to return the camera to the previous mode, if no action has occurred for a selectable period of time. Available options include After 0.5 M (minute), After 1 M, After 5 M, After 10 M, After 30 M, After 60 M, and OFF (deactivate this function). After the selected period, the camera will revert to the mode you set in the “Resume To” field below.

Resume To: Select the mode that the camera will return to, if you have configured the Auto Resume field above. Available options are POS.1 (H) (the Preset position “1”), TOUR1, PAT.1 (Pattern “1”), AUTO PAN and PREV.MODE (the previous mode the camera was in).

Power Up Func.: Select the mode that the system will revert to when a power failure occurs. Available options of this field are OFF, POS.1 (H) (the Preset position “1”), TOUR.1, PAT.1 (Pattern “1”), AUTO PAN and PREV.MODE.

Auto Flip: Select **ON** to tilt the camera by 180° using the direction controls on the PTZ Control window. Owing to the mechanical design, the camera will tilt 90° first, and then the camera will flip by 180 degrees, after that, go down to 180° (see image below). Select **OFF** to disable the Auto Flip function and the camera will be tilted by 90°.



Chapter 12 GPS Tracking

You can send the GPS data from the mobile DVR to the PoverVideo Plus through Meta Server, and display multiple GPS tracks on single window. The number of GPS tracks is unlimited. You can also play back the GPS tracks or set up GPS fences on the E-Map.

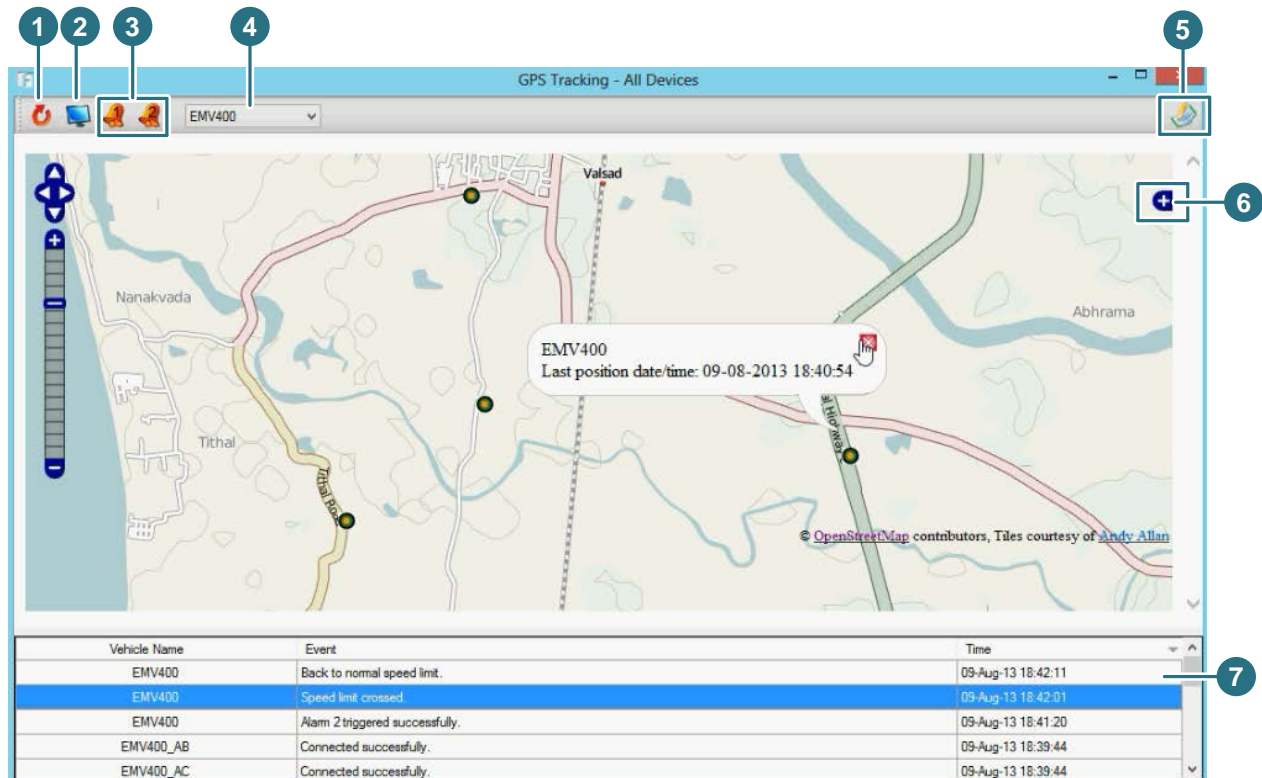


Figure 12-1

| No. | Name | Description |
|-----|---------------|---|
| 1 | Reset Map | Click to refresh the E-map. |
| 2 | Live View | Click to display the live view window of the selected device. |
| 3 | Trigger Alarm | Click to trigger the alarms of the selected device. |
| 4 | Device List | Select a device from the drop-down list. |
| 5 | Hide Event | Click to hide / display the Event List. |
| 6 | Map Rendering | Click to select a desired rendering of the map. |
| 7 | Event List | Display the events and time of the devices. |

12.1 Activating GPS Tracking Function

You have to configure the Meta Server port on the PowerVideo Plus and then configure the Meta Server settings on the Web interface of the Mobile DVR.

- On the **Power Video Plus**:

On the Main Screen, click the **Option** button and click **Configure Meta Server Port**. The default Meta Server port is **1602**. If you want to set up a new port, type the new port, click the **Save** button and then restart the PowerVideo Plus.



Figure 12-2

- On the Web interface of the **Mobile DVR**:

- Click the **Network** button and click **Meta Server**, the following setup page appears.

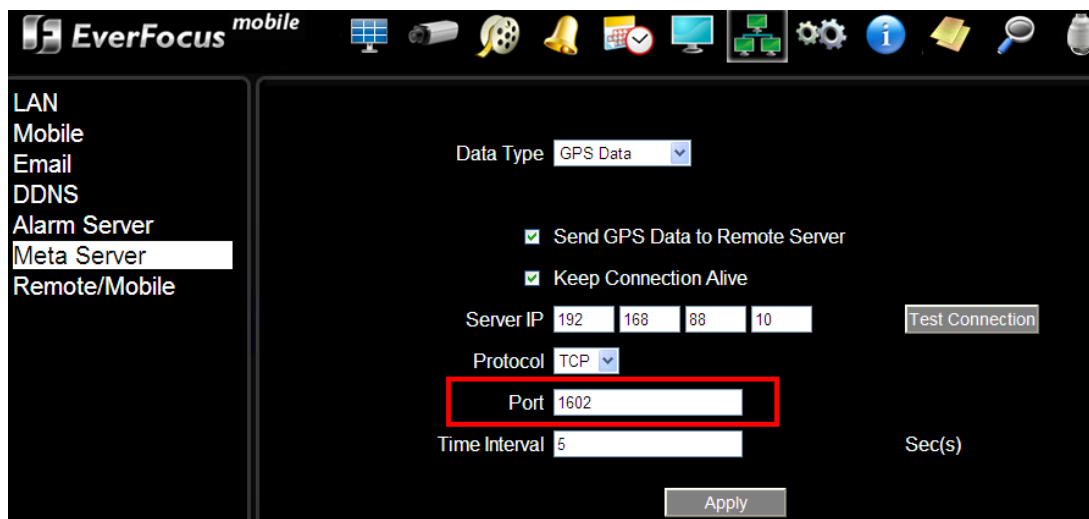


Figure 12-3

- Select **GPS Data** from the Data Type drop-down list.
- Enable **Send GPS Data to Remote Server** and **Keep Connection Alive**.
- Type the IP address of your local computer and select a protocol type.
- Type the Meta Server port in the Port field. This port should match the Meta Server port set up on the PowerVideo Plus.
- Set up a time interval to send GPS data to PowerVideo Plus.
- You can click the **Test Connection** button to check out the connection.
- Click **Apply**.

After setting up the above settings, on the Main Screen of PowerVideo Plus, click **GPS**, click **GPS Tracking** and select All Devices or a desired mobile DVR, the GPS Tracking window appears (Figure 12-1).

You can set up the speed limit. Once the vehicles exceed the speed limit, a “Speed limit crossed” event will be listed in the Event List (No.7, Figure 12-1). On the Main Screen, click the **GPS** button and click **Vehicle Speed Configuration**, the following window appears.

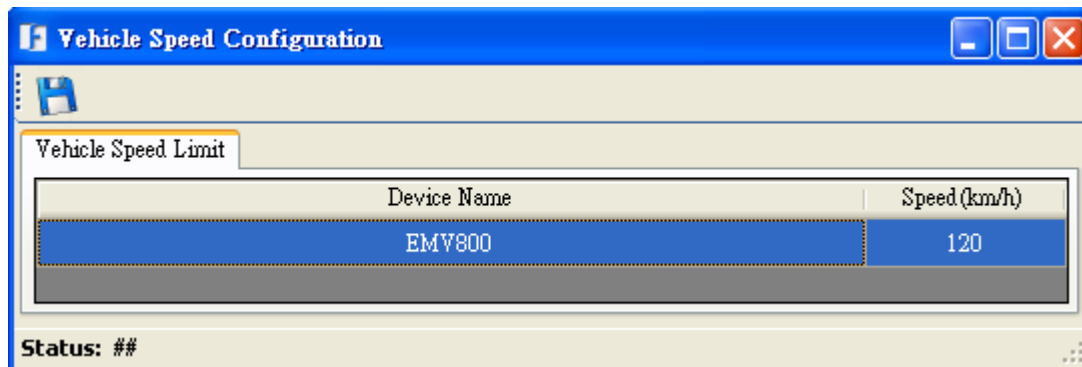


Figure 12-4

12.2 Playing Back GPS Tracks

You can play back the GPS tracks recorded on the mobile DVR through the PowerVideo Plus.

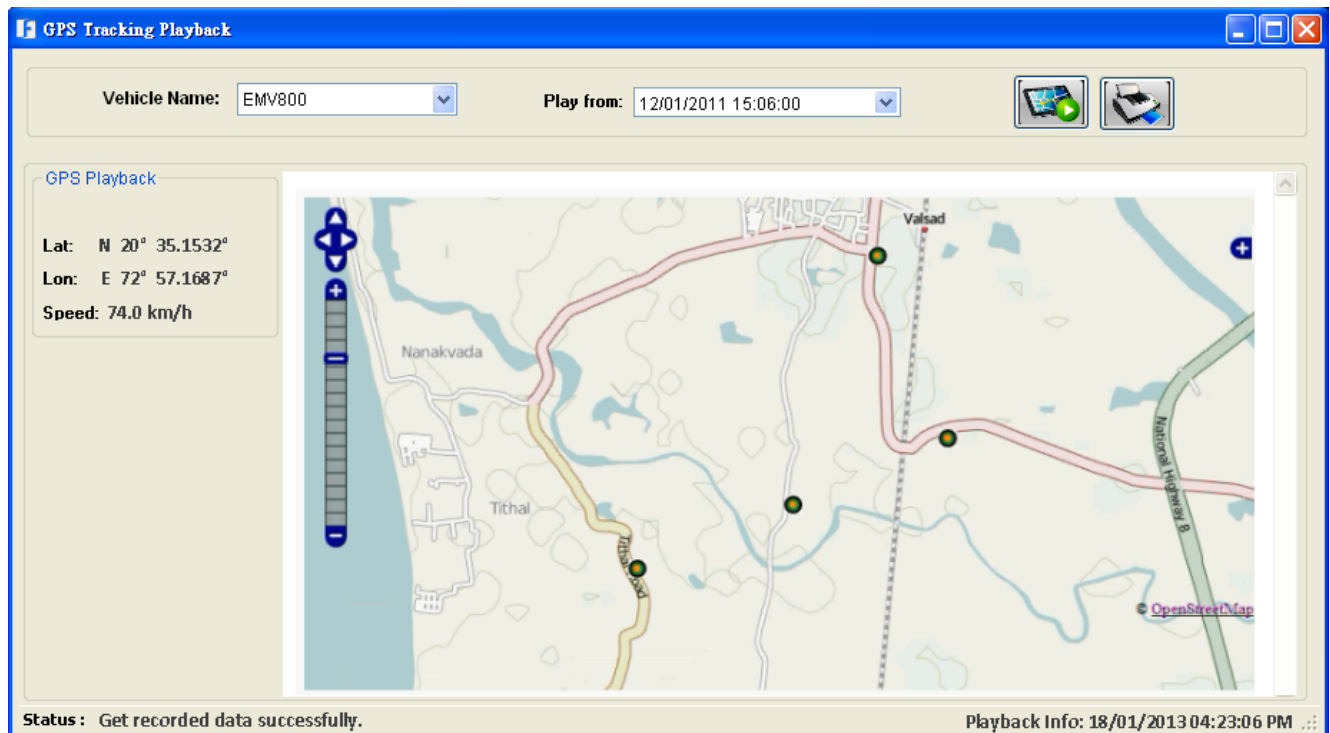



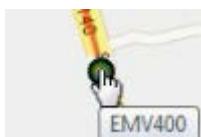
Figure 12-5

To play back the GPS tracks:

1. Start the GPS Tracking function. Please refer to *12.1 Activating GPS Tracking Function*.

Note: To play back the GPS tracks, you have to start the GPS tracking function and let the GPS Tracking window remain open for 10 minutes at least as the mobile DVR stores GPS data every 10 minutes.

2. On the Main Screen, click **GPS** and click **GPS Tracking Playback**, the GPS Tracking Playback window appears (Figure 12-6).
3. Select a mobile DVR, select a playback time and then click the **Show GPS Tracking Playback** button , the GPS track starts playing back.
4. You can optionally play back the camera recordings by clicking on the device circle and the playback window appears.



12.3 Configuring the GPS Fences

You can display the GPS fences predefined on the Mobile DVR on the E-map.

To display the GPS Fence:

1. On the Web interface of the **Mobile DVR**, click the **Alarm/Event** button and click **GPS** in the left-side menu. Select **GPS Fencing** from the drop-down list and configure the settings below. Click the **Apply** button to apply the settings.

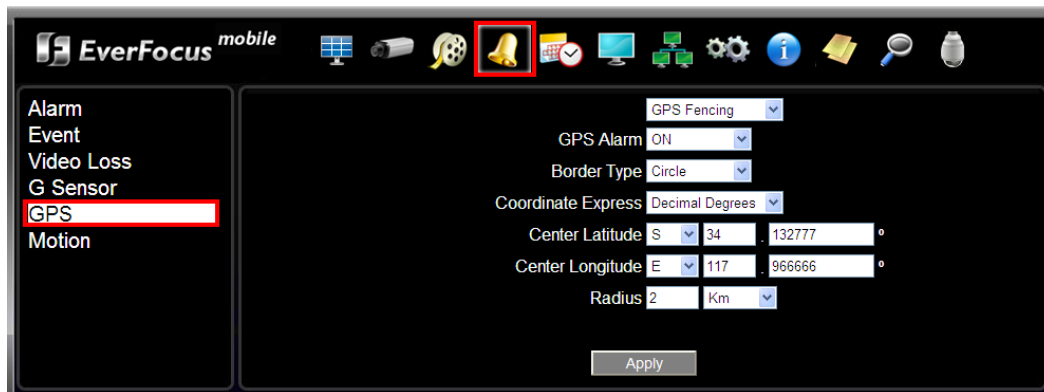


Figure 12-6

To get the GPS coordinates of the Mobile DVR:

- a. Click **Display Settings, Monitor On-Screen Display**, and then check the **GPS Status** item.

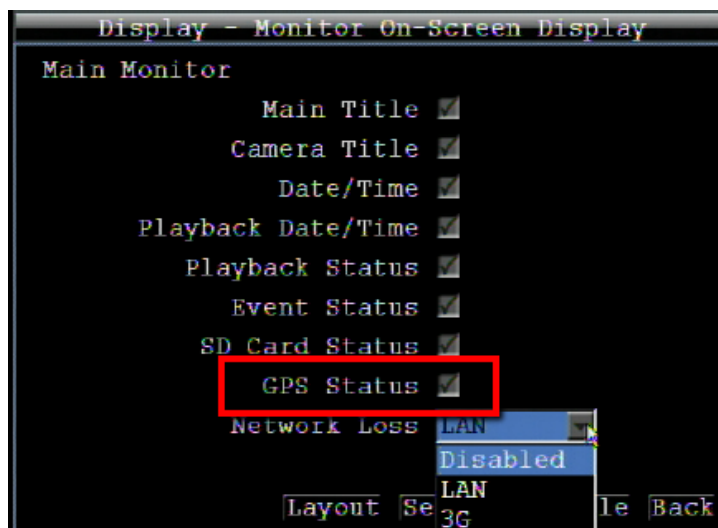


Figure 12-7

- b. Go to the Web page of the Live View, the GPS coordinates will be displayed.

- On the Main Screen of the PowerVideo Plus, click **GPS** and click **GPS Fencing**, the following window appears.

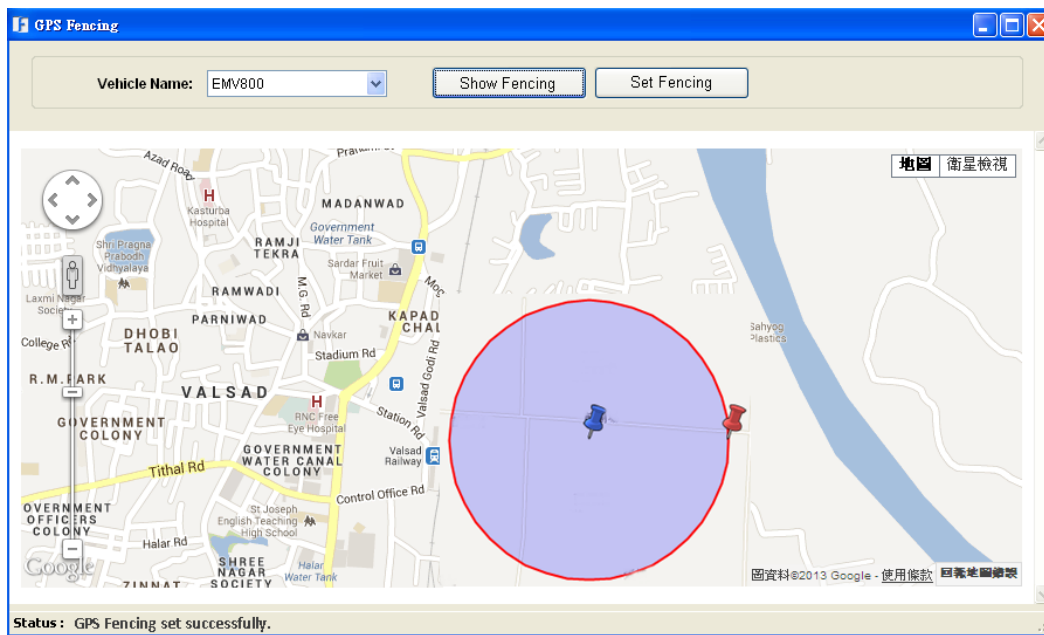



Figure 12-8

- Select a device from the Vehicle Name drop-down list and click the **Show Fencing** button, the GPS Fence displays on the E-map.
- To change the radius, drag and drop the red Pin . The blue Pin indicates the GPS coordinates set up in Figure 12-6.
- Click the **Set Fencing** button to save the settings.

Chapter 13 Backup Utility

You can back up the configurations in the PowerVideo Plus. The backup settings can be restored to the current computer or imported to another computer.

To export the configurations:

1. On the Main Screen, click **Option** and select **Backup Utility**, the following window appears.



Figure 13-1

2. Click **Next**, the following window appears.

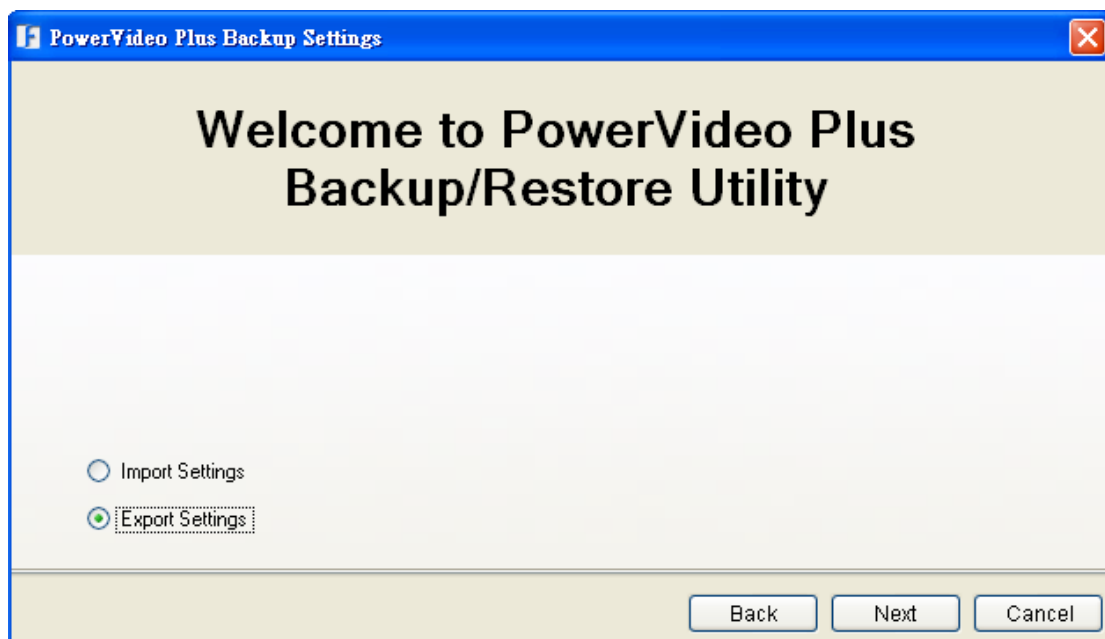


Figure 13-2

3. Select **Export Settings** and click **Next**, the following window appears. Click **Browse** to browse a backup path.

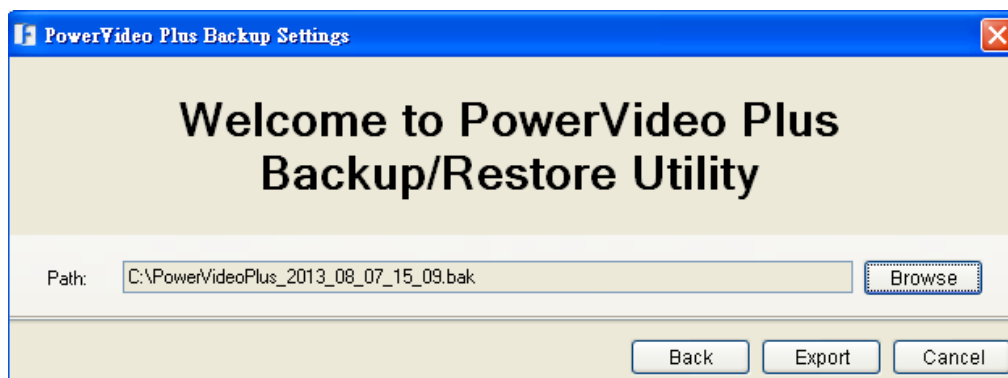


Figure 13-3

4. Click **Export**, the configuration file (.bak) will be saved to the selected path.

To import the configurations:

1. Follow **Step 1** and **2** in the Export Configurations section above.
2. Select **Import Settings** (Figure 13-2), click **Next**, and then browse a configuration file to import, the following window appears.

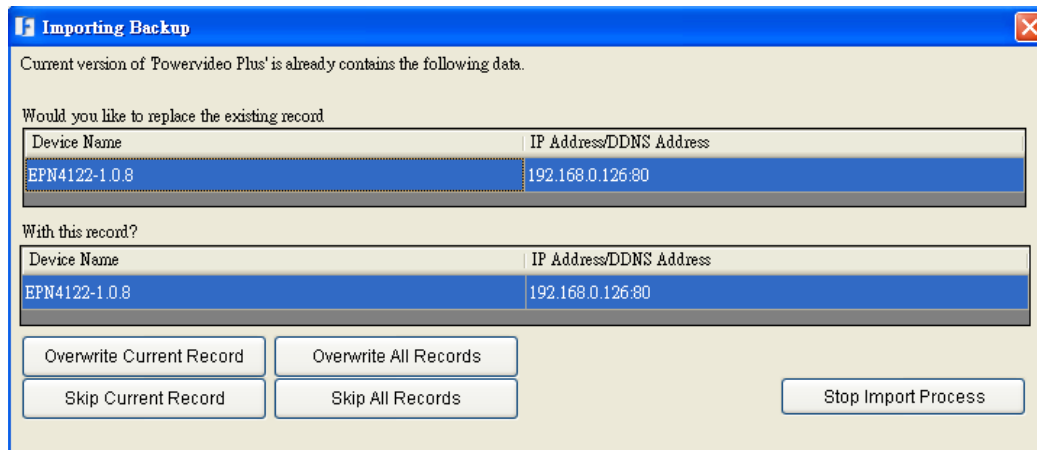


Figure 13-4


3. Click the **Overwrite All Records** button to overwrite all the configurations. The system will display a confirm message. Click the **Overwrite All Records** button again to start overwriting the configurations.

If you want to overwrite the current configuration displayed in the Backup Utility window, click the **Overwrite Current Record** button.

If you want to skip the current configuration displayed in the Backup Utility window, click the **Skip Current Record** button.

If you want to skip all the configurations, click the **Skip All Records** button.

Chapter 14 Bandwidth Monitor

The Bandwidth Monitor displays the bandwidth usage status for the PowerVideo Plus, which provides an instant visibility of the bandwidth used by the PowerVideo Plus. On the Main Screen, click **Option** and select **Bandwidth Monitor**, the Bandwidth Monitor icon  will be minimized to the system tray and the following window appears.

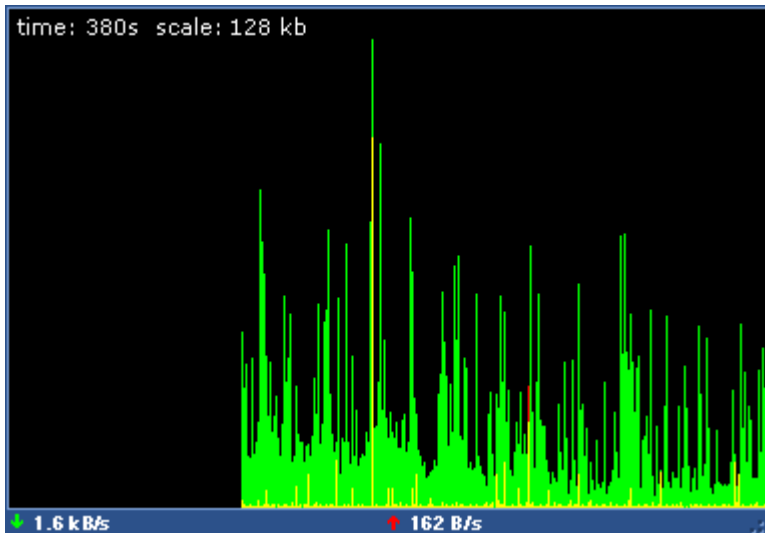


Figure 14-1

Right-click the Bandwidth Monitor icon to bring up the following setup list, and then you can configure the settings. To close / exit the Bandwidth Monitor, click **Exit PowerVideo Plus Bandwidth Monitor**.

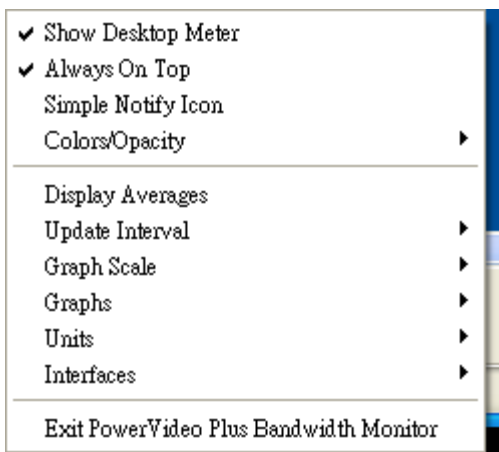


Figure 14-2

Chapter 15 Other Functions

15.1 Applying DVR Settings to Multiple DVRs

You can remotely apply the DVR settings to multiple DVRs connected to the PowerVideo Plus. Note that you can only apply the settings of the selected DVR to the same DVR models.

To start the Clone DVR Settings function:

1. On the Main Screen, click **Devices** and then click **Clone DVR Settings**. The following window appears.

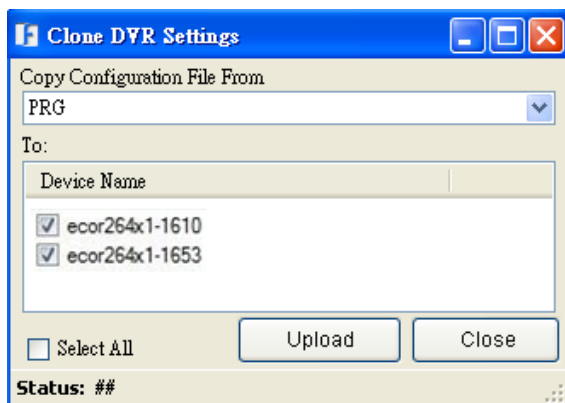




Figure 15-1

2. From the **Copy Configuration File From** drop-down list, select a DVR to copy the settings, the same DVR model connected to the PowerVideo Plus will be automatically detected and listed in the **Device Name** field.
3. Check the boxes to select the desired DVRs for applying the same settings from the selected DVR in the **Copy Configuration File From** field.
4. Click the **Upload** button, the selected DVRs will run an automatic process of applying the settings.
5. Once the process is complete, the **Status** on the bottom of the Clone DVR Settings window will display *"Configuration uploaded successfully"*.

15.2 Temporarily Disconnecting Live Streams

You can temporarily disconnect (black screen) each single live stream of the IP devices, or disconnect multiple live streams of the (Mobile) DVR / NVR.

To temporarily disconnect a single live stream of the IP devices:

On the Display Window, select a desired live stream by clicking on it to make a red frame and then click the **Pause** button  on the Live View Tool Bar to temporarily disconnect the live stream, the Pause button will turn to **Play** button . To reconnect the live stream, click the Play button.

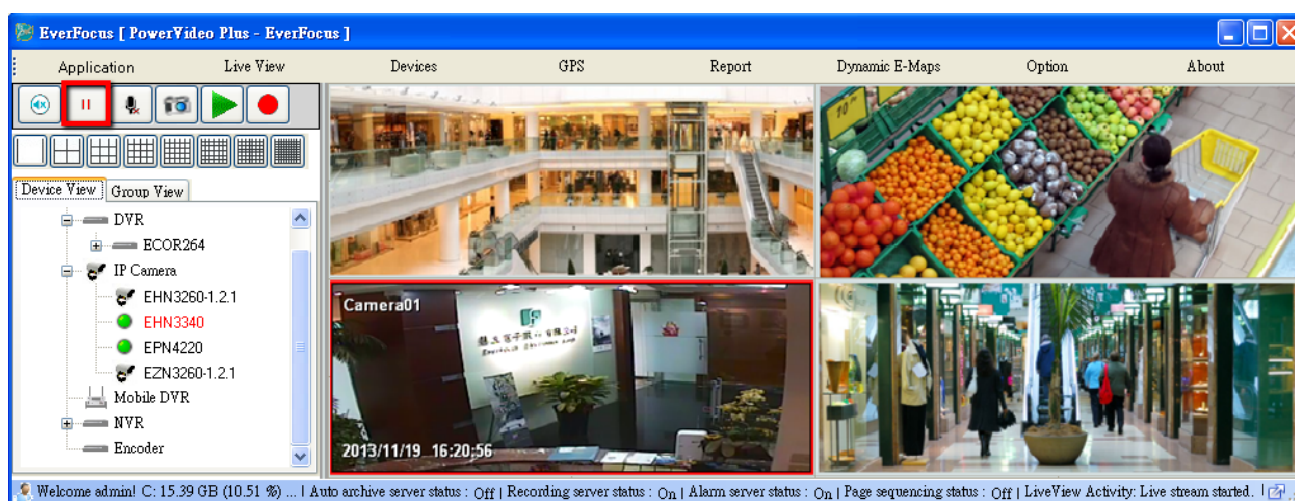





Figure 15-2

To temporarily disconnect multiple (Mobile) DVR / NVR live streams:

In the Device List, right-click a (Mobile) DVR / NVR and then click **Stop All Camera**. All the live views of the (Mobile) DVR / NVR will display black screens and the  **Stop All Camera** turns to  **Reconnect All Camera**. To reconnect all the (Mobile) DVR / NVR live streams, click  **Reconnect All Camera**.

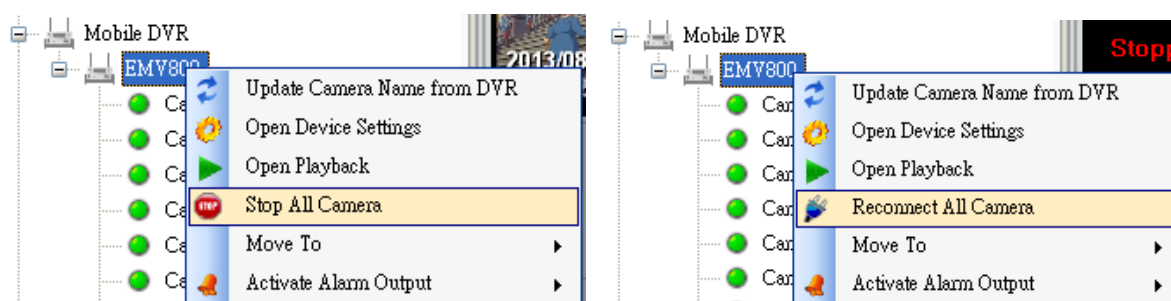


Figure 15-3

15.3 Lens Control (IP Camera)

You can remotely control the lens of EverFocus' bullet IP camera. To bring up the Lens Control panel, follow the steps below:

1. On the Main Screen, drag and drop a bullet IP camera in the Live View window.
2. Select a bullet IP camera live view by clicking on its live view to make a red frame.

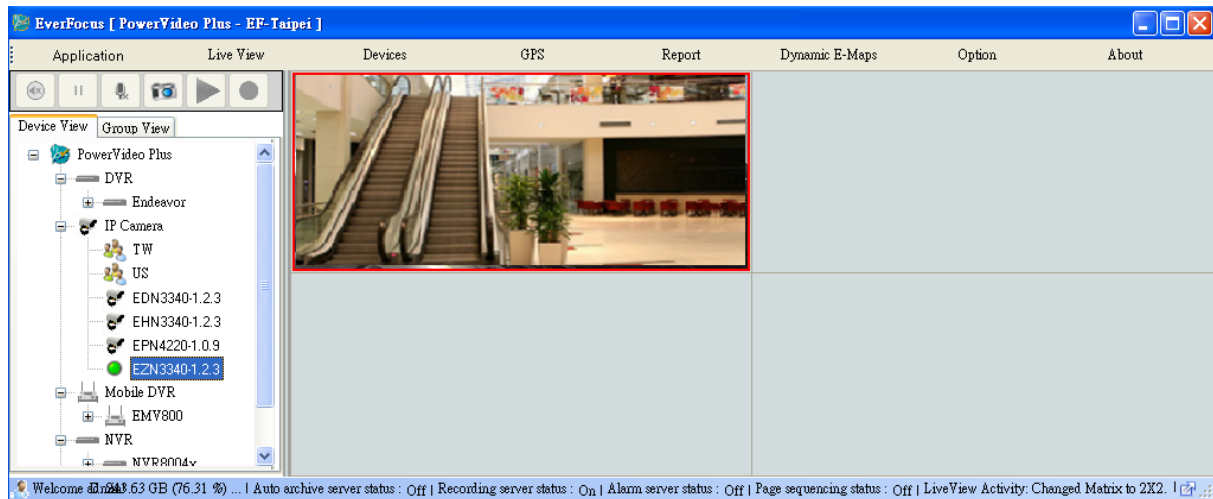


Figure 15-4

3. Click **Devices** and click **PTZ Control**.

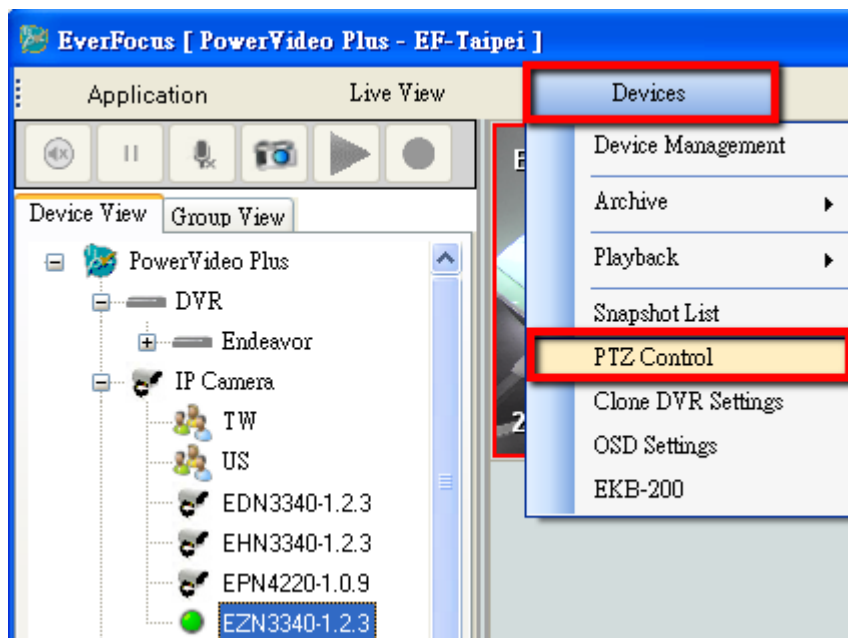






Figure 15-5

4. The Lens Control panel pops up. Click the   buttons to focus one step farther/closer or zoom in/out one step forward/backward. Click and hold the   buttons to continuously focus farther/closer or continuously zoom in/out.

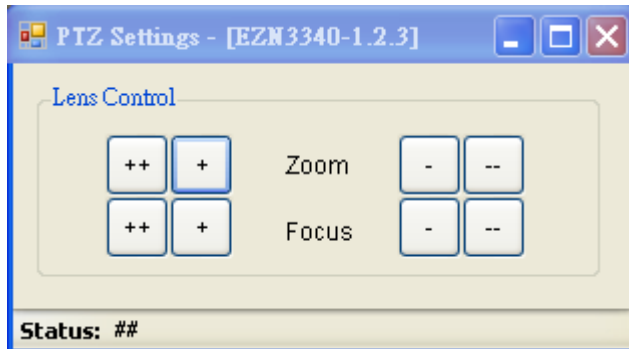


Figure 15-6

15.4 PTZ Control for Speed Dome Cameras Connected to the DVR

You can remotely control the speed dome cameras connected to the DVR through the PowerVideo Plus.

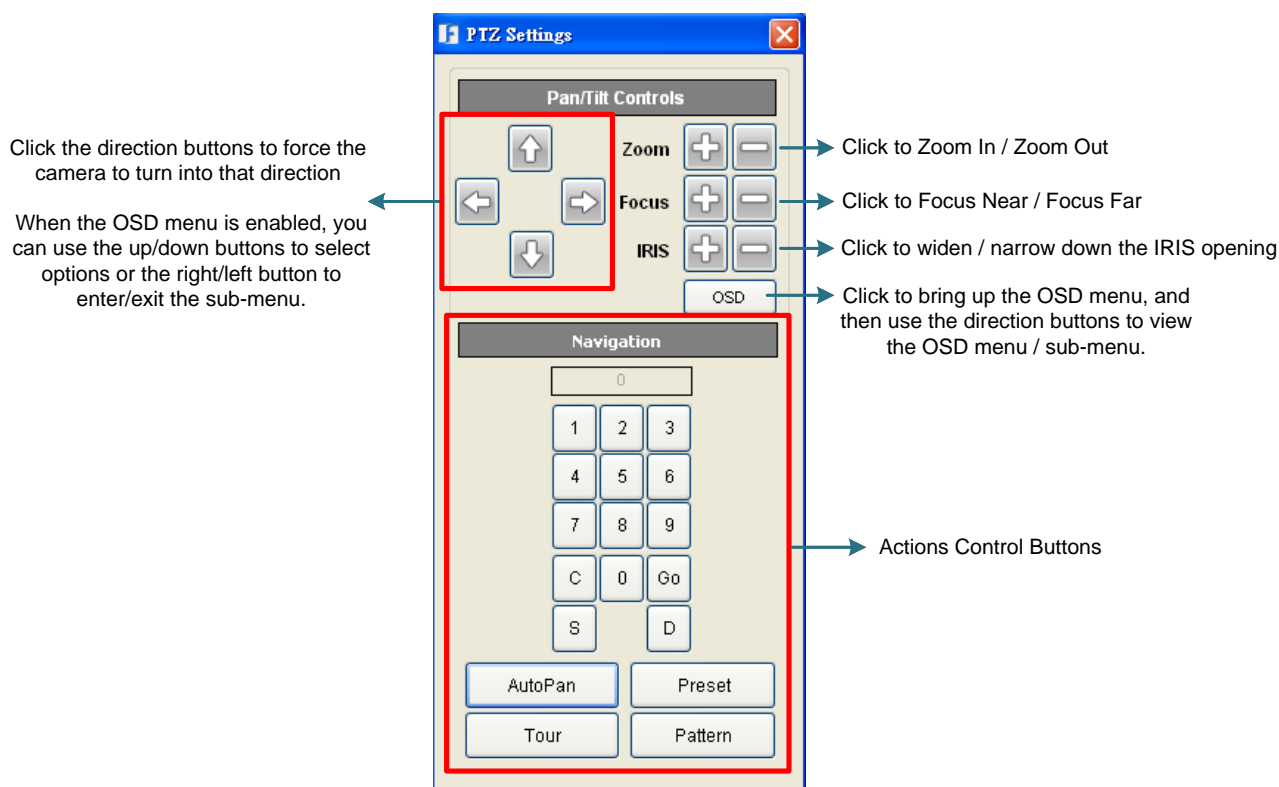


Figure 15-7

Actions Control Buttons

| | |
|--------------------------------|--|
| <input type="text" value="9"/> | Displays the selected number. |
| Numeric Buttons | Click to enter the number for the selected action. |
| C (Clear) | Click to clear the entered number. |
| Go | Click to activate the selected action number. |
| S (Set Preset Position) | Use the direction buttons to select a position, select a number from the numeric buttons for this position and then click the S button to save the setting. |
| D (Delete) | Click to delete a setup Preset / Auto Pan / Pattern / Tour. |
| Preset | To force the camera to turn to the preconfigured preset position, click the Preset button, select a Preset number and then click the Go button. Note: To use this function, you have to set up a preset position first, see S (Set Preset Position) above. |

| | |
|----------|--|
| Auto Pan | Click to start / stop the Auto Pan function. Note: for this function to work, you have to pre-configure the Auto Pan function of the camera through the DVR. |
| Pattern | To move the camera in a preconfigured sequence movement, click the Pattern button, select a pattern number and then click the Go button. Click the Live View Window once can stop running the pattern. Note: for this function to work, you have to pre-configure the Pattern function of the camera through the DVR. |
| Tour | To move the camera in a preconfigured sequence consists of a selection of Patterns and Preset Positions, click the Tour button, select a tour number and then click the Go button. Note: for this function to work, you have to pre-configure the Tour function of the camera through the DVR. |

To bring up the PTZ Settings panel, follow the steps below:

1. On the Main Screen, drag and drop a speed dome camera connected to the DVR in the Live View window.
2. Select the speed dome camera by clicking on its live view to make a red frame.

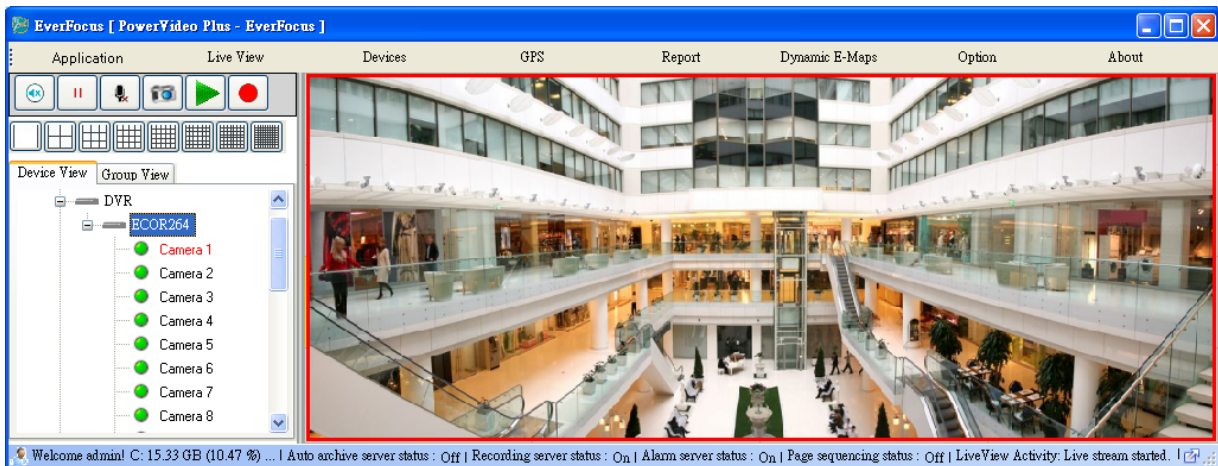


Figure 15-8

3. On the Main Screen, click **Devices** and click **PTZ Control**. The PTZ Settings panel pops up.

15.5 Snapshot List

You can search and then view the snapshot images on the Snapshot List. On the Main Screen, click **Devices** and click **Snapshot List**, the Snapshot List window appears. For details on taking snapshot images, see *3.1 Live View Tool Bar*.

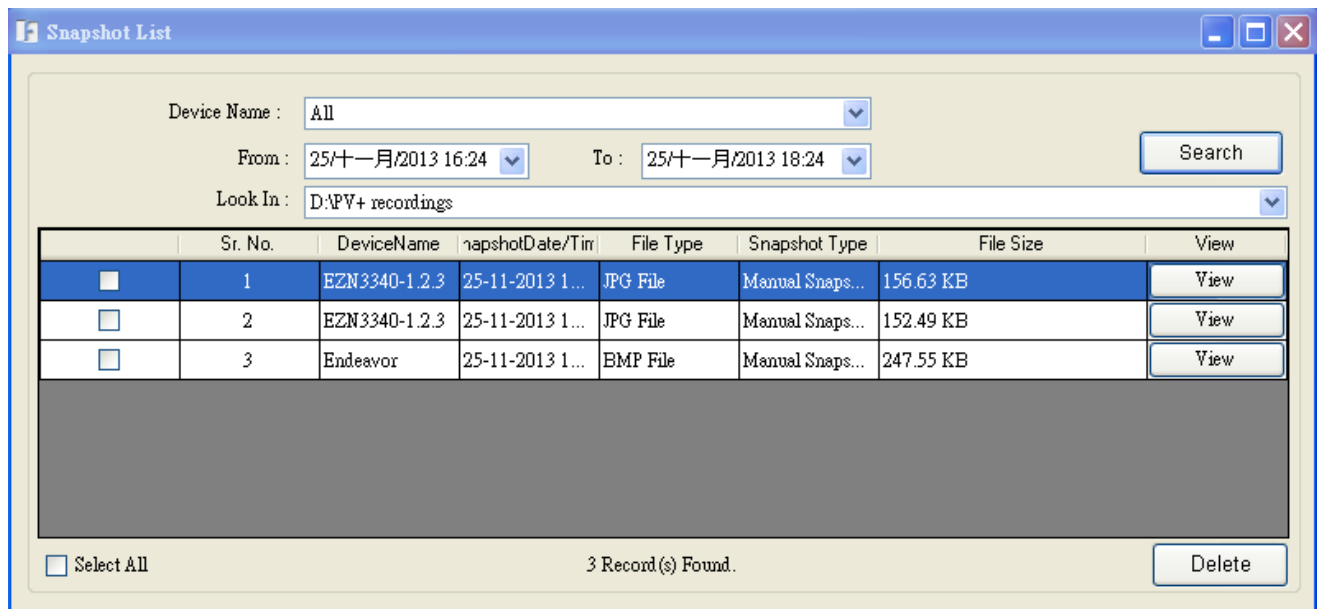


Figure 15-9

Device Name: Select a device from the drop-down list.

From...To: Select the desired time period. You can simply set up the date and time period by clicking on the number and type the desired date and time.

Look In: Select a storage path of the snapshot images.

Note: By default, the snapshot images are saved at **C:\Program Files\Everfocus\PowerVideo Plus\Everfocus\Snapshot**. To change the storage path, see *4.1 Changing the Recording Path*.

Search: Click to search the snapshot images.

To delete the snapshot images, check the desired snapshot images and then click the **Delete** button.

15.6 EKB200

This function is for DVR only. You can connect an EKB200, which is EverFocus' USB keyboard, to the USB port on the computer to remotely control the Pan, Tilt, Zoom, Iris, Focus, Preset and Autopan of the speed dome cameras connected to the **DVR (only)**. Note that for the Preset and Autopan functions to work, you will have to pre-configure the Preset and Autopan functions of the speed dome through the DVRs and then configure the settings on the PowerVideo Plus (see **Step 4** below).

To start using this function:

1. Connect the EKB200 keyboard to the computer and then start the PowerVideo Plus.
2. Drag and drop a speed dome camera connected to the DVR in the Live View window.
3. Select the speed dome camera by clicking on its live view to make a red frame. You can now use the Joystick on the EKB200 keyboard for PTZ control.

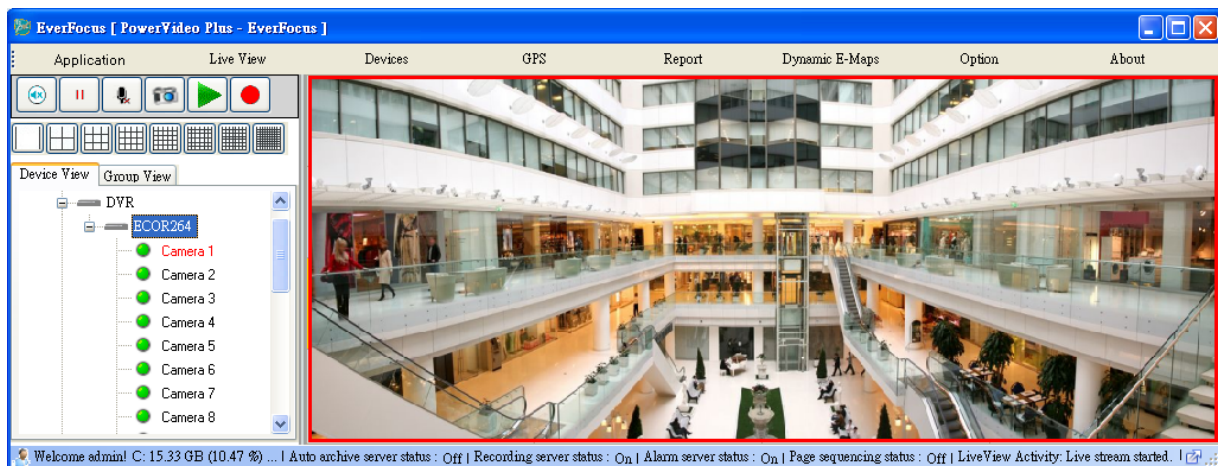
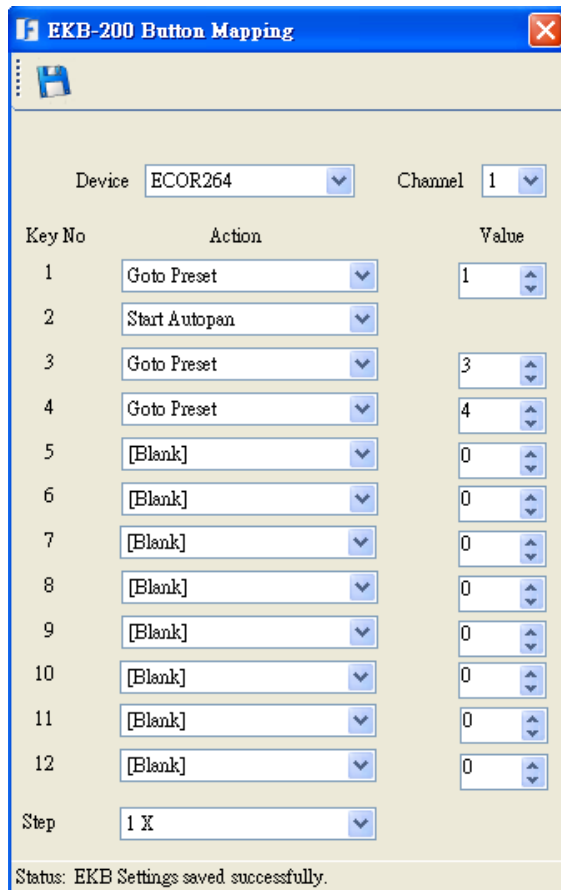


Figure 15-10

4. To enable the Preset and Autopan functions, configure the below window to define the functions for each control key on the EKB200 keyboard. On the Main Screen, click **Devices** and click **EKB200**, the following window appears. After the configurations, click the **Save** button to save the settings.



| Key No | Action | Value |
|--------|---------------|-------|
| 1 | Goto Preset | 1 |
| 2 | Start Autopan | |
| 3 | Goto Preset | 3 |
| 4 | Goto Preset | 4 |
| 5 | [Blank] | 0 |
| 6 | [Blank] | 0 |
| 7 | [Blank] | 0 |
| 8 | [Blank] | 0 |
| 9 | [Blank] | 0 |
| 10 | [Blank] | 0 |
| 11 | [Blank] | 0 |
| 12 | [Blank] | 0 |

Step: 1 X

Status: EKB Settings saved successfully.

Figure 15-11

Device: Select a DVR from the drop-down list.

Channel: Select a channel of the DVR.

Key No: The control key number on the EKB200 keyboard.

Action: Select an item from the drop-down list to define the function for each key on the keyboard. Once you press the key number, the camera will do the action.

- **Blank:** Select to leave it a blank for this key number.
- **Goto Preset:** Select to set up the Preset function for this key. Specify a number in the Value column for the preset number.
- **Start Autopan:** Select to set up the Start Autopan function for this key. To stop the Autopan function, simply move the joystick to any direction.

Value: Select a value for the selected Action item. For example, selecting Goto Preset from the Action drop-down list and selecting 2 in the Value column represents the Preset Position 2.

Step: Select a speed for the PTZ control of the joystick on the EKB200 keyboard.

5. Press the control keys on the EKB200 keyboard, the camera will do the action which you've defined for the keys.

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