Installation Manual

iPIMS



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Overview

What is iPIMS?

iPIMS allows you to do the following works:

- View live video of surveillance camera.
- Use advanced navigation tool and intuitive timeline browser to play recorded video of surveillance camera.
- Generate an unlimited number of user-dedicated views and common views. Each view can display up to 64 camera videos.
- Extend camera channels as many as the number of monitors, if multi-monitors are supported.
- Display view to fit for wide screen monitor.
- Make multi-screen displays available and support floating window to display different views at once.
- Quickly change one or more cameras in view.
- Use "rotation" function to successively display several camera videos at one camera position.
- Digitally zoom in live video and recorded video.
- Make or print out still images (screen capture) of live video and recorded video in playback.
- Back up video in AVI file format (Codec supportable: h.264, msvc).
- Support a variety of languages in use.
- View overall configuration of surveillance system.

Overview

Recommended Hardware Specifications

Operating system (OS)	Microsoft® Windows® XP Professional (32 bit or 64 bit*), Windows Server 2003 (32 bit or 64 bit*), Windows Server 2008 R1/R2 (32 bit or 64 bit*), Windows 7 Home Premium, Windows 7 Professional (32 bit or 64 bit*), Windows 7 Enterprise (32 bit or 64 bit*), Windows 7 Ultimate (32 bit or 64 bit*) or Windows 8/8.1/10. * Running as a 32 bit application. **Windows Vista (Series) not supported.**
CPU	Intel® Core i5™ or i7™, 2.8 GHz or higher (Higher-end CPU is recommended for the larger number of connected devices, views and screens.)
RAM	4 GB (The higher capacity of RAM is recommended for the larger number of connected devices, views and screens.)
Network	Ethernet, 1Gbps or higher
Graphics card	AGP or PCI-Express with min. 1024x768 pixels, 16 bits and 512MB RAM
Hard disk space	Free space of 100 MB or more
Software	Microsoft .NET 3.5 Framework with Service Pack 1 or later DirectX 9.0 or later

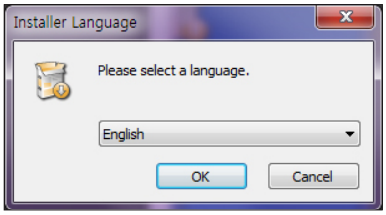
Installation of Software

Make sure that the specifications of your computer comply with hardware requirements of iPIMS before installing software in your computer.

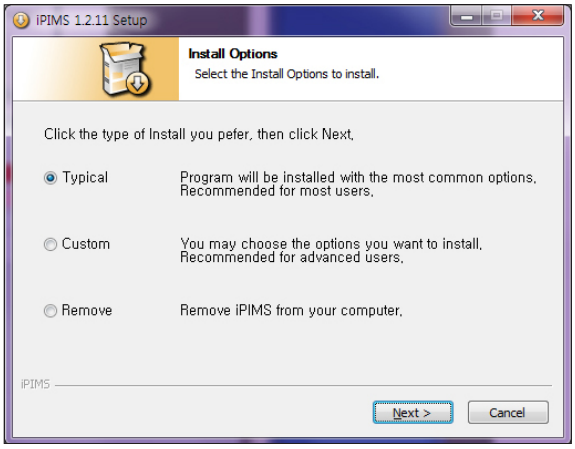
1. Insert installation CD in your computer and wait a moment. Then, run an installation program named <**iPIMS_X.X.X.exe**>



2. When installation wizard gets started, please select a language for installation.
Language is set as "Korean" by default. Please click [**OK**] to proceed with installation.



3. Select a method of installation you want and then click [**Next >**].



Installation

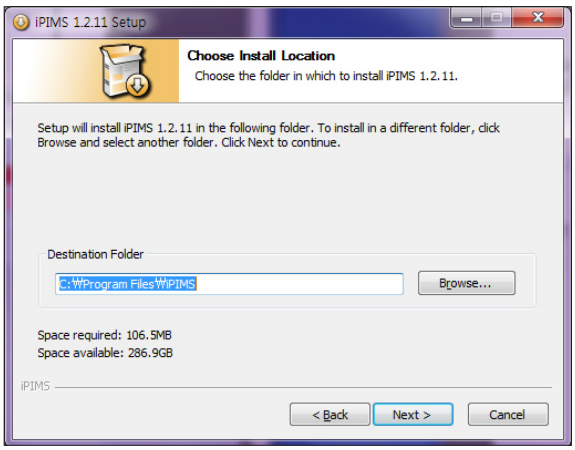
4. Start installing the program.
Click [**Next >**].



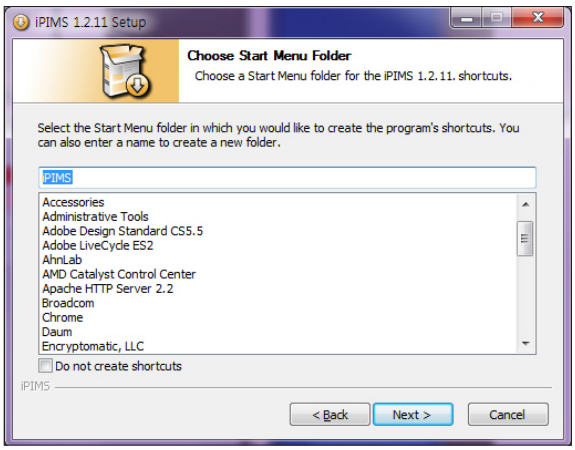
5. Set a destination folder where setup files are saved. The folder is set as "C:\Program Files\iPIMS" by default.

6. If you want to change installation path, please click [**Browse...**] and select a desired path.

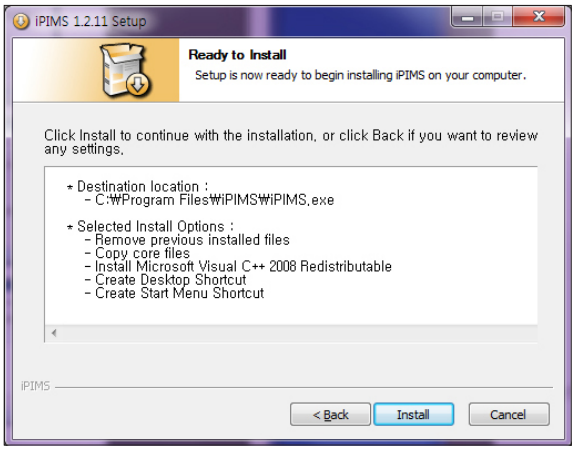
7. Click [**Next >**] to proceed with the next step.



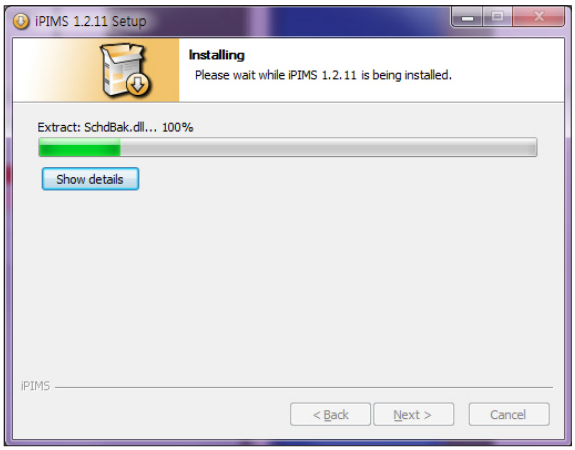
8. When a screen appears for selecting Start menu folder, click [**Next >**].



9. When the Setup Completed window appears, click [**Install**].



10. Start installing iPIMS.
A message of installation completed or failed pops up.



11. When installation is successfully completed, please click [**Finish**]. Exit Setup.



Installation

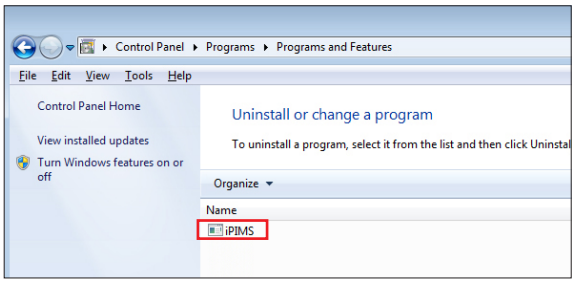
Check the Results of Installation

1. Make sure that the following icon of installed program is generated on your computer's desktop:



2. Or select [**Start**] ➞ [**Control Panel**] ➞ [**Uninstall or Change a Program**] menu respectively to make sure that iPIMS software is installed in your computer.

   ✔ If no icon is generated on desktop or is executed, please install the software newly from CD.



Uninstall iPIMS Program

You can select and uninstall iPIMS program installed in your computer, and can uninstall even setting file as well or uninstall only the program except setting file.

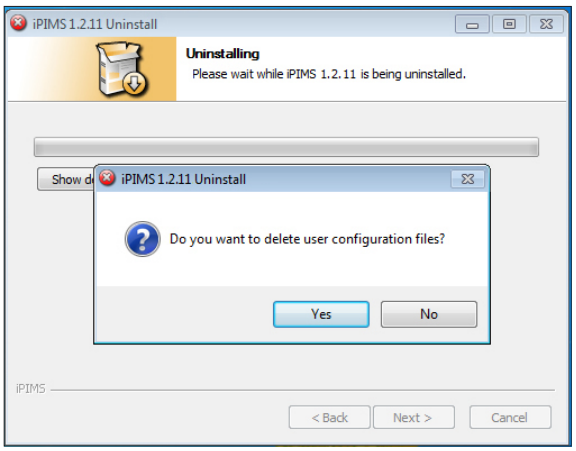
1. In a folder where the program you want to uninstall is installed, run <**Uninstall**> or go to Control Panel to select and uninstall the program you want to uninstall.

2. A message "**Do you want to delete user configuration files?**" pops up.

   › If you select <**Yes**>: User setting files and iPIMS program are completely uninstalled.

   › If you select <**No**>: Only iPIMS program is uninstalled without uninstalling user setting files. When you choose to reinstall the program, your user data saved before uninstalling the program are available as they are.

3. Click <**Next**> to proceed with the next step and complete the uninstallation process.

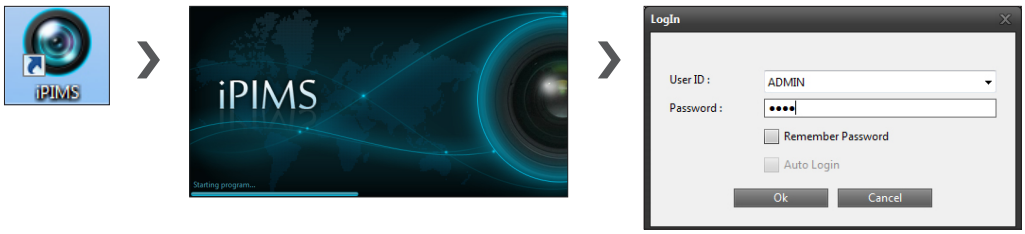


Getting Started with iPIMS

iPIMS can access and adjust NVR and network camera from your PC via remote connection.

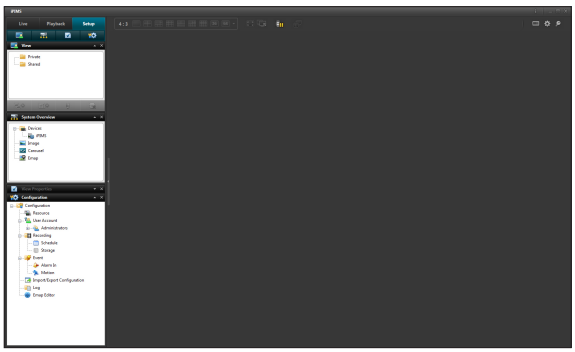
Login

Double click on iPIMS icon from your desktop to run iPIMS program. Then, you can see the following login window pop up:



1. Please enter your user ID and password, and click on [**Ok**] button.

   - Remember Password: Save your password you enter.
   - Auto Login: Activated when you enter your password.
     If you close iPIMS program without logging out when Auto Login is set, you can log in automatically to the program at restart.



   Password shall be composed of 8 to 32 characters which are based on 2 or more types of upper- and lower-case alphabetic letters, numbers or special characters.
   DO NOT repeat same characters or numbers 3 times or more frequently, or DO NOT use a series of sequential numbers.

   When your password is lost, you cannot use iPIMS device, so make sure that you note or memorize your password.

2. Initial screen of iPIMS program appears and the program runs.

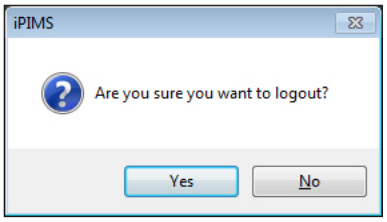
Getting Started

Logout

1. While iPIMS program runs, click the [**Logout**] icon at the upper right section.



2. When Logout dialog appears, click [**Yes**].
Once you log out the program, Login dialog pops up again, so you can log in the program again.

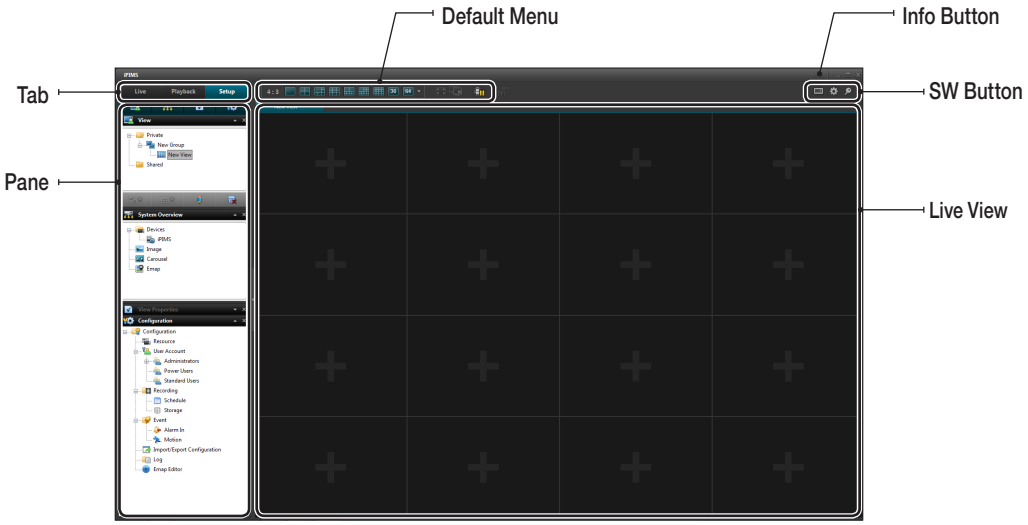


Exit iPIMS Program

Click the [**Close**] icon at the upper right section of whole window.
Then, you can exit the program.



Designations and Functions in IPIMS Screen



Default Menu

This is the default menu using views.
It activates and displays only available menus depending on each tab you select.

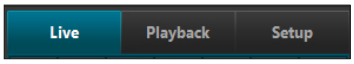


- Split mode: You can select split mode of views, so the mode you select can be just applied to views.
- : You can shift to full view.
  If you want to come back from full view, press [**Esc**] key or click the right button of mouse in screen and then click <**Restore Screen**> in the pop-up window.
- : If your computer is equipped with dual monitor system (i.e. main monitor + secondary monitor), you can display current views on a monitor you designate.
- / : Displays a video view in whole frame or displays only I frame where you can see only major video segments.

Getting Started

Tab

iPIMS program consists of three major areas.
When you select each tab, corresponding detailed menu selection icons and menus appear on pane.

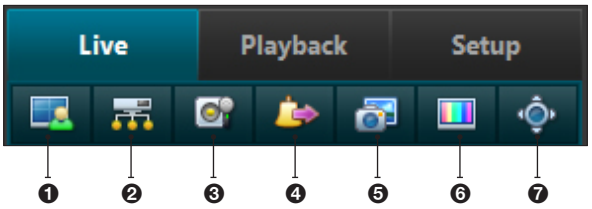


- Live: Shows live video.
- Playback: Views recorded video in NVR connected.
- Setup: Configures a view.

Pane

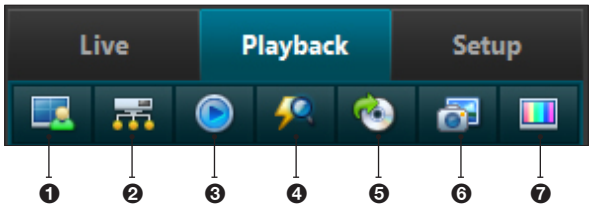
Pane allows you to use major functions of iPIMS software. Pane appears differently depending on works.
For example, the appearance of pane when you view a live video at <**Live**> tab is different from that of pane when you view a recorded video at <**Search**> tab.
You can collapse any unused pane to more easily view any used pane.
Click < ▲ > in the title bar of each pane, so you can see pane collapsed.
Click < ✕ > in the title bar, so you can see pane removed. And click the icon of each <**Pane**> just under the <**Tab**> button, so you can see pane displayed or removed.

Name and Functions of Pane Icons in <Live> Tab



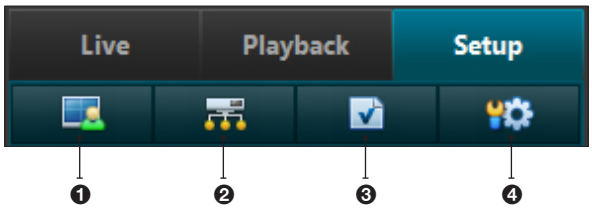
No.	Name	Descriptions
❶	View	Shows a pane where you can select any view group and views.
❷	System Overview	Shows a pane where you can set views.
❸	Audio	Sets audio input and output.
❹	Alarm Out	Shows a pane where you can set alarm output.
❺	Snapshot/Print	Shows a pane where you can save or print out live video as image files.
❻	Video Adjustment	Shows a pane where you can adjust the image quality of output video.
❼	PTZ control	Controls connected PTZ camera and presets it at desired monitoring position.

Name and Functions of Pane Icons in <Playback> Tab



No.	Name	Descriptions
❶	View	Shows a pane where you can select any view group and views.
❷	System Overview	Shows a pane where you can see system information and set views.
❸	Play Control	Shows a pane where you can adjust playback video.
❹	Event Search	Shows event time search.
❺	Backup	Shows a pane where you can select and run backup time.
❻	Snapshot/Print	Shows a pane where you can capture and print out screen.
❼	Video Adjustment	Shows a pane where you can adjust the image quality of output video.

Name and Functions of Pane Icons in <Setup> Tab



No.	Name	Descriptions
❶	View	Shows a pane where you can select any view group and views.
❷	System Overview	Shows a pane where you can see system information and set views.
❸	View Properties	Shows a pane where you can select view properties.
❹	Configuration	Shows a pane where you can see a menu list of preferences. ✔ Accessible only with ADMIN account.

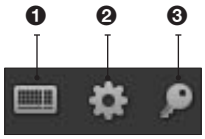
Getting Started

Live View

In the iPIMS screen, "Live View" shows any video of surveillance cameras. One view can display up to 64 videos from camera, and each view may have different camera groups. You can create up to 10 camera groups in SW.
Each view may have different screen configurations to fit for use. View is available exclusively for a user or may be shared with other users.
iPIMS supports multiple windows and screens, so you can see several views at once in multiple monitors.

SW Button

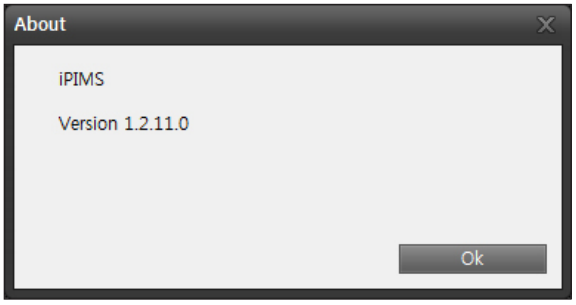
You can press SW button to user systematic functions of iPIMS.



No.	Name	Descriptions
❶	Screen Keyboard	You can use on-screen keyboard.
❷	Application Option	Sets language, instance playback time, view tab cycle time, navigation / timeline style, backup / image-saving path and one-click PTZ.
❸	Logout	You can log out iPIMS.

Info Button

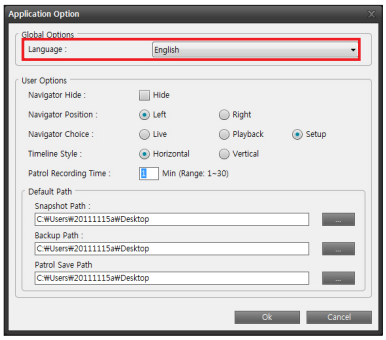
You can see the information on the latest version of the iPIMS program.



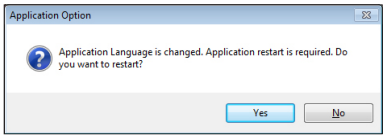
Change Language

While you use iPIMS, you can change current language in use to another one.

1. Please click the [⚙] button among SW buttons at the upper right section of screen.
2. Change <**Language**> in the <**Application Option**> window.
3. Click the [**Ok**] button.



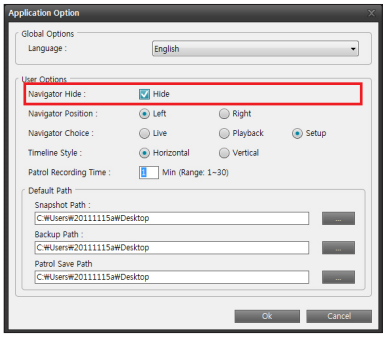
4. When a pop-up window prompts you to run iPIMS program again, click [**Yes**] to run the program again.



Hide Navigation

You can use this menu to set navigation, so it is invisible on screen.

1. Please click the [⚙] button among SW buttons at upper right section of screen.
2. At <**Navigator Hide**> in the <**Application Option**> window, please select <**Hide**> check box.
3. Click the [**Ok**] button.
   Apply this setting and restart iPIMS program, so you can run the program with navigation hidden.



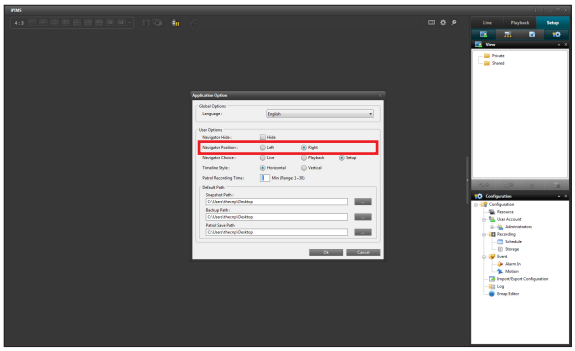
Getting Started

Change the Position of Navigation

You can change the position of navigation displayed on screen.

1. Please click the [⚙] button among SW buttons at the upper right section of screen.
2. Change <**Navigator Position**> in <**Application Option**> window.

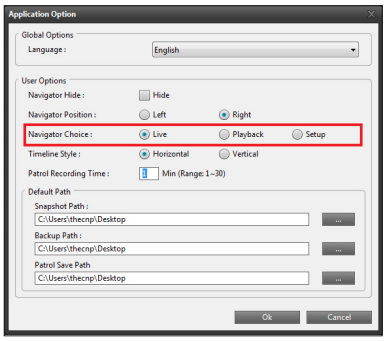
   ✔ When you select <**Right**>, you can see <**Tabs**> and <**Panes**> positioned on the right side of screen, as shown in this figure.
3. Click the [**Ok**] button.



Select Navigation

You can select default menu of navigation displayed on the screen.

1. Please click the [⚙] button among SW buttons at the upper right section of screen.
2. Please select a navigation menu you want to display at <**Navigator Choice**> on the <**Application Option**> window.
3. Click the [**Ok**] button.
   Select a desired navigation menu and restart the program, so you can see the navigation menu displayed.

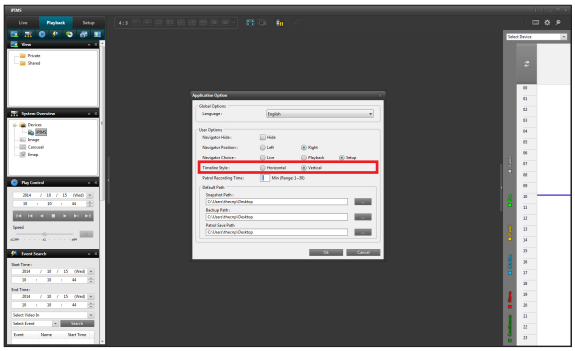


Change Timeline Style

You can change the style of timeline displayed on the search screen.

1. Please click the [⚙] button among SW buttons at the upper right section of screen.
2. Change <**Timeline Style**> in the <**Application Option**> window.

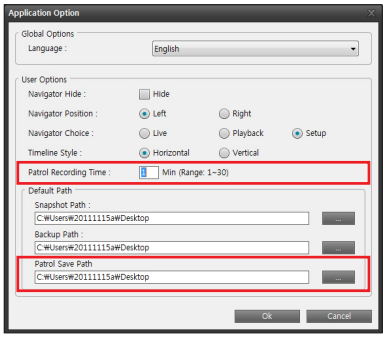
   ✔ If you select <**Vertical**>, you can see <**Timeline**> of the <**Search**> tab is positioned on the right side, as shown in this figure.
3. Click the [**Ok**] button.



Change Patrol Recording Time

Video that is being monitored live is also recorded to avi immediately. It is possible to set a desired time for recording.

1. Please click the [⚙] button among SW buttons at the upper right section of screen.
2. Change <**Patrol Recording Time**> in the <**Application Option**> window.
3. Click the [**Ok**] button.



Change Default Path

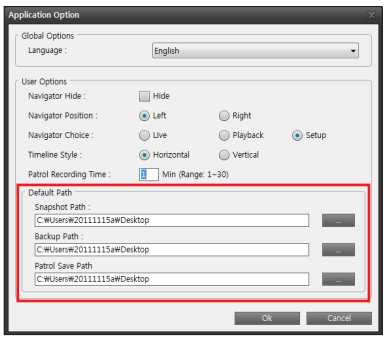
You can change the default path where you save images or backup data.

1. Please click the [⚙] button among SW buttons at the upper right section of screen.
2. In <**Default Path**> of <**Application Option**> window, please change <**Snapshot Path**>, <**Backup Path**> and <**Patrol Save Path**>.
3. Click the [**Ok**] button.

   › If your computer runs in XP, you can use the following initial path: C:\Documents and Settings\User Account\Desktop

   › If your computer runs in WIN7, you can use the following initial path: C:\Users\User Account\Desktop

   ✔ For User Account, you can see the account (computer name) displayed as you specified when installing your PC.



Monitoring

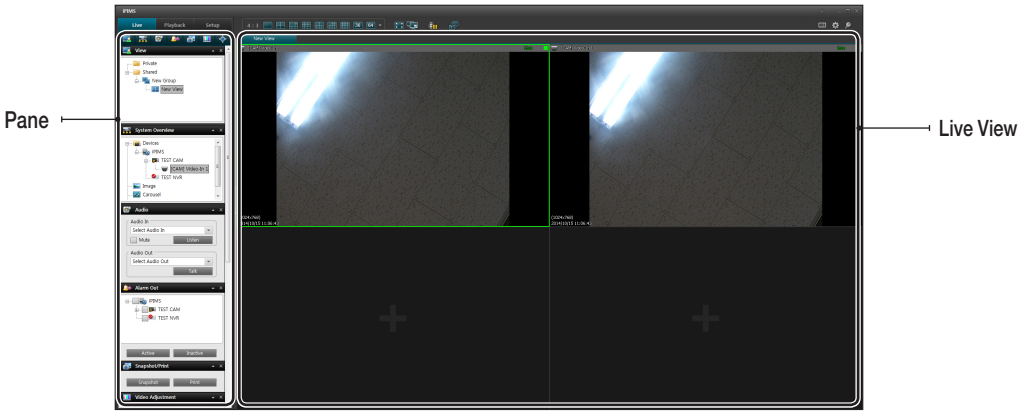
Monitor

You can use Live tab to watch video from surveillance cameras. When you select Live tab, iPIMS program takes live video from cameras connected to monitoring server, so you can see the video displayed in Live View.

✔ Depending on network configurations and circumstances, you can see live video interrupted from time to time.

Configuration of Monitoring Screen

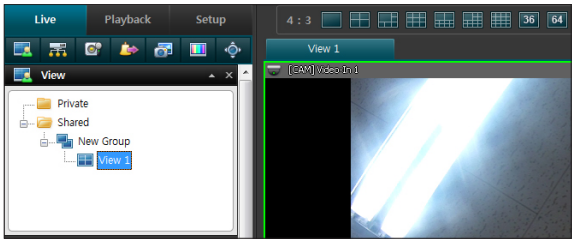
Monitoring screen consists broadly of Pane area and Live View area.



View

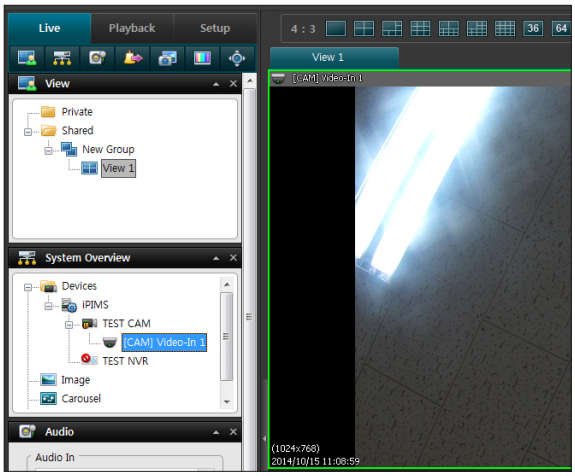
Select View

At the <**Live**> tab, you can select a view.
Please select a desired view in View pane of the <**Live**> tab.

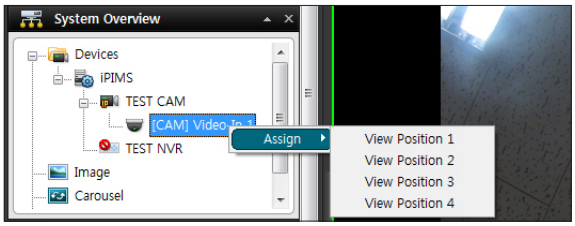


Add Camera to View

Select a camera to add from the <**System Overview**> pane. Then, drag and drop it to a desired View area.



Or right-click the camera name of the <**System Overview**> pane and select <**Assign**>. Then, select a desired position of view you want to assign a camera to.



Monitoring

System Overview

Here, you can see information on current registered devices, camera position cycle and more in system.
And you can assign and set image and cyclic video service to View.

Device Group

Here, you can see information on any devices connected to system, and can also assign a registered camera to any desired view.

Assign a Device to View

1. Select a camera in the <**System Overview**> pane of the <**Live**> tab.
2. Click the left button of mouse to drag and drop the camera at the desired position of view where you want to assign it.

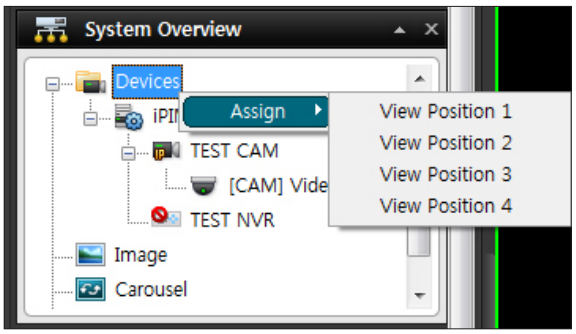


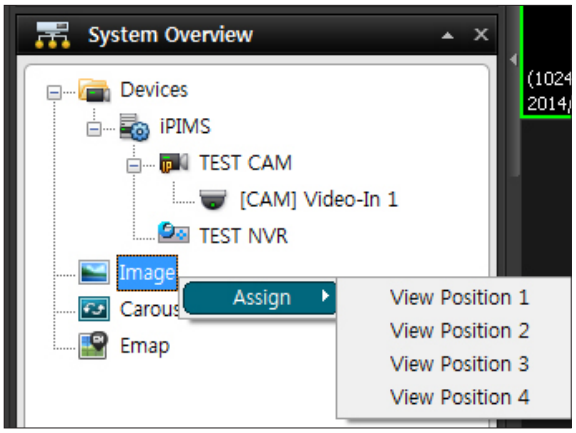
Image Setting

This menu allows you to assign a desired image to view, so you can see it.

✔ If you want to configure dual monitor, you can assign a device to one of two monitors to monitor live video, and can also assign camera-set image to the other monitor available for reference.

Assign an Image to View

1. Select <**Image**> in the <**System Overview**> pane of the <**Live**> tab.
2. Click the left button of mouse to drag and drop the camera at the desired position of view where you want to assign it.
3. When Open Image window pops up, select a fixed image file applicable to the view you select.



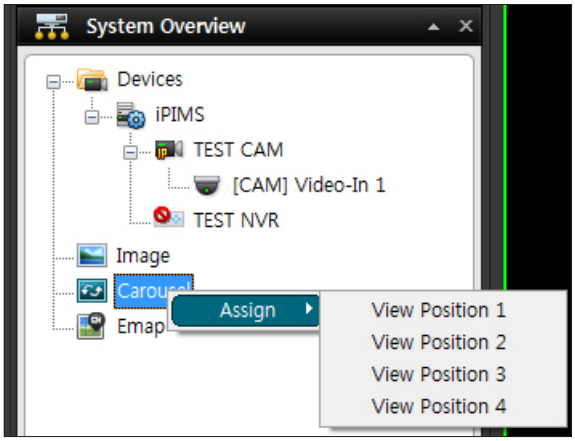
Cyclic Image Setting

In one split screen, you can monitor images of several channels.
The images of registered channels go through a sequential cycle based on cycle time setting.

Assign Cyclic Images to View

1. Select <**Carousel**> in the <**System Overview**> pane of the <**Live**> tab.
2. Click the left button of mouse to drag and drop the camera at the desired position of view where you want to assign it.

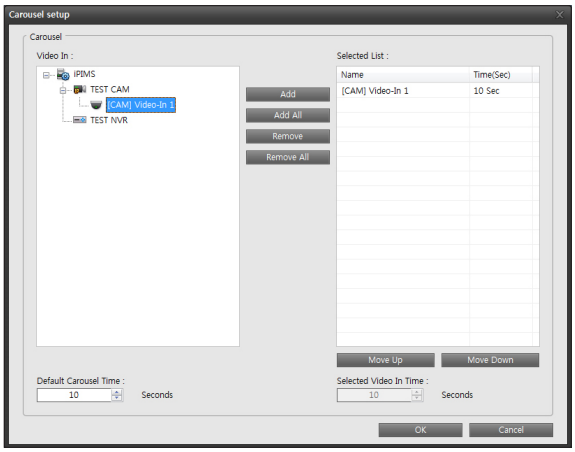
   Right-clicking to assign cyclic images to view may not be supported depending on objects you select.



Set Cyclic Images

1. Select <**Carousel**> in the <**System Overview**> pane of the <**Live**> tab.
2. Click the left button of mouse to drag and drop the camera at the desired position of view where you want to assign it.
3. When <**Carousel setup**> window pops up, select a camera and click the [**Add**] button.

   › Default Carousel Time: This is a cycle time applied by default when you select and add a camera.
4. If you want to change the sequence of cameras, press the <**Move Up**> and <**Move Down**> arrow key to set the position of cameras.
5. If you want to set different cycle times for each camera, please select a camera from optional list and set <**Selected Video In Time**>.



6. Click the [**OK**] button.
   The displays of view assigned in live condition go through a sequential cycle, and <**Cycle**> appears in view.

E-map Setting

E-map registered completely in E-map Editor may be assigned to E-map View.

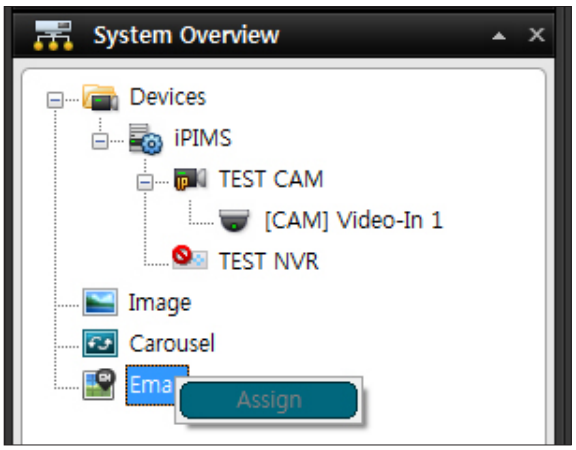
✔ For details on how to create E-map View, please refer to "**View Setting**". (page 41)

Assign an E-map to E-map View

1. Select an E-map in the <**System Overview**> pane of the <**Live**> tab.
2. Click the right button of mouse and select <**Assign**> or click and hold on the left button of mouse to drag and drop an E-map to the position of E-map View.

   ! Right-clicking to assign cyclic images to view may not be supported depending on objects you select.

   ✔ E-map may be assigned to E-map View after it is created by <**Emap Editor**> of the <**Configuration**> tab.

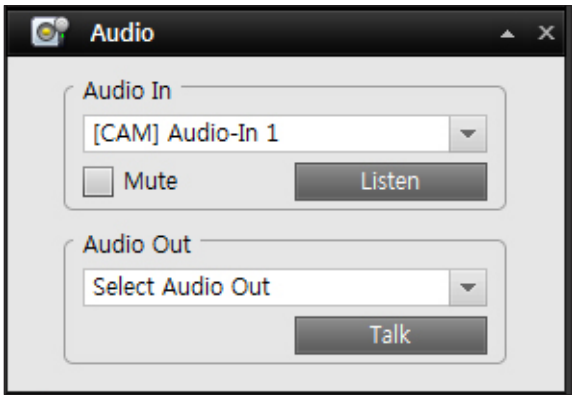


Audio

Listen to Audio

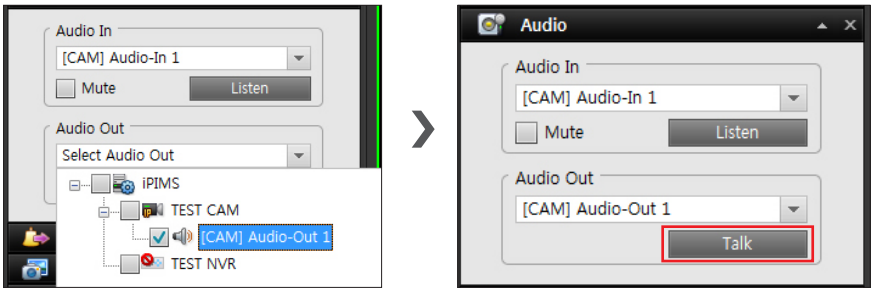
You can use a microphone installed in camera to listen to Audio, and can use Audio pane of Live tab to adjust Audio input. You can listen to Audio in Live view as follows:

1. In the <**Audio In**> list of the <**Audio**> pane, select a desired Audio device of camera.
2. Click the [**Listen**] button of the <**Audio**> pane.
3. Make sure that the [ ] shape appears at the lower right side of the camera view.



Audio Output

Audio output can be produced from the speaker installed in the camera, and can be adjusted through the <**Audio**> pane of the <**Live**> tab.



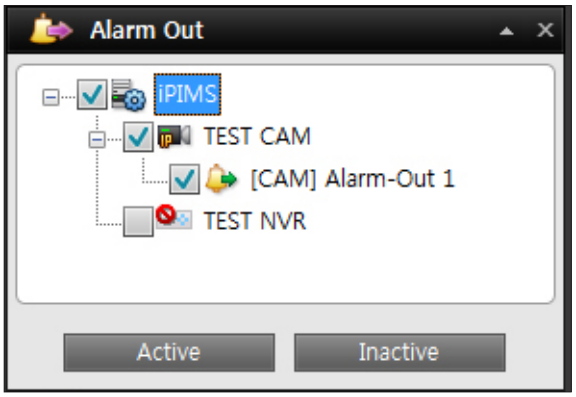
Monitoring

Alarm Out

Manual Alarm Output

If external alarm output can be produced by turning on light of monitoring device or blowing siren, you can control the alarm output via Alarm pane of Live tab.

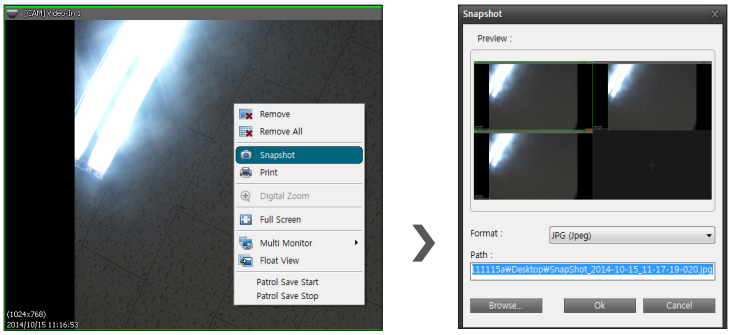
Select a desired device in Camera list of the <**Alarm Out**> pane and click the [**Active**] button. Then, you can hear the alarm sound.
If you want to turn off the alarm, click the [**Inactive**] button.



Snapshot / Print

Snapshot

In the selected camera view, you can capture the current screen. You can save the captured screen image in form of *.BMP, *.JPG or *.PNG file to PC, and also can capture the whole split screen of Live View.



1. Select a camera view you want to capture.

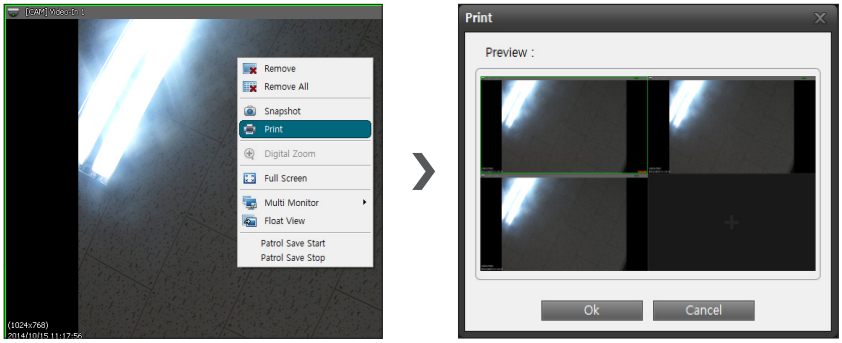
2. In camera video screen, click the right button of mouse and open pop-up menu to select <**Snapshot**>.
Or click [**Snapshot**] in the <**Snapshot / Print**> pane.

3. In the <**Snapshot**> window, select a desired image format (BMP/JPG/PNG) and enter the name of file to save.

4. If you want to change the location to save images, press the [**Browse...**] button and select a path for saving images. Then, click the [**Ok**] button.
By default, the path is set as image-saving path in Program Options.

Print

In Live View, you can print out the image of current video.



1. Select a desired camera view and click on the right button of mouse in camera video screen. Then, select <**Print**>.
Or click the [**Print**] button in the <**Snapshot / Print**> pane.

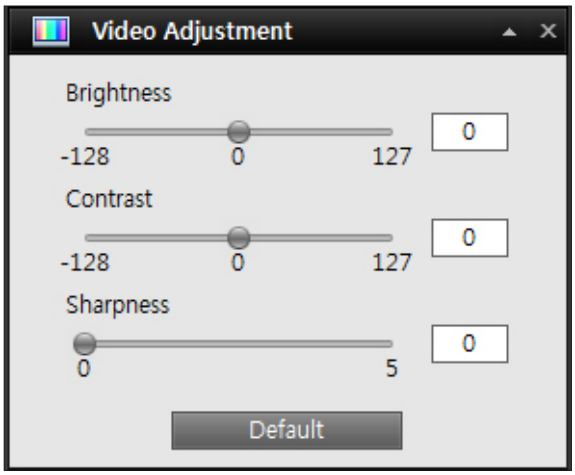
2. When Print window opens up as shown in this figure, click the [**Ok**] button to print out the image of current video screen.

Video Adjustment

Adjust the Image Quality of Video

You can adjust the image quality of Live video in the <**Video Adjustment**> pane of the <**Live**> tab.

- Brightness: You can adjust brightness of video by this menu.
- Contrast: You can adjust contrast of video by this menu.
- Sharpness: You can adjust sharpness of video by this menu.
- Default: You can restore default by this menu.



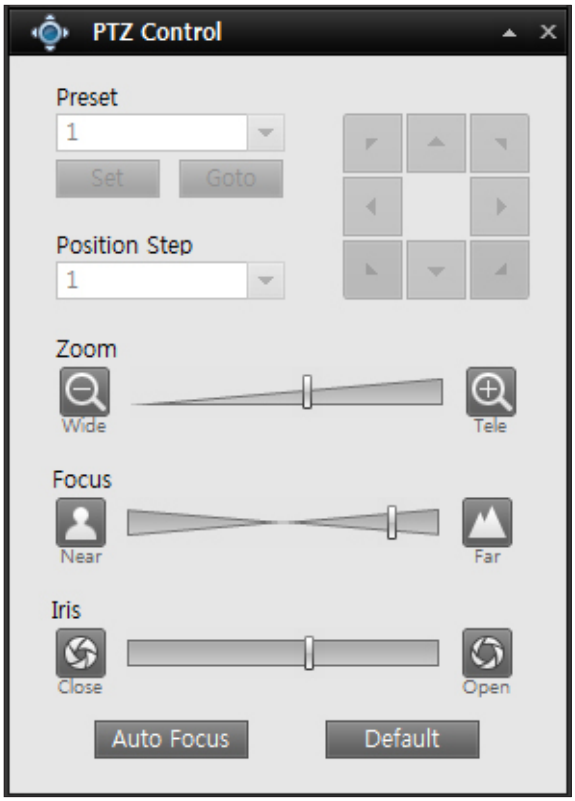
PTZ Control

Using PTZ Control

Controls connected PTZ camera and presets it at desired monitoring position.

Preset Setting

1. Select a desired preset number from the <**Preset**> list in the <**PTZ Control**> pane.
2. Use the Orientation button to adjust camera angle in any desired direction of monitoring.
3. Adjust <**Zoom**>, <**Focus**> and <**Iris**> to fit for surrounding settings of shooting location.
   - › Auto Focus: Press this menu to automatically adjust the focus of camera you select.
   - › Default: Press this menu to initialize camera lens settings you select.
4. Click the [**Set**] button.
   Select the number of preset you want and click [**Goto**] button.

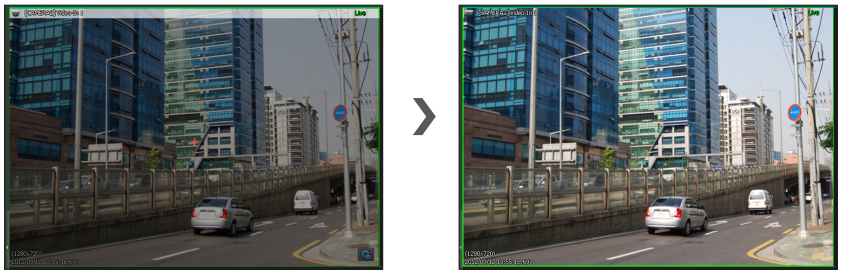


Using One-click PTZ

You can use One-click PTZ to easily move a specific position of camera video to the center of screen in Live View.
You can use One-click PTZ in the following procedure:

1. Select the <**Live**> tab to select a desired camera for monitoring.
2. Press and hold down the [**Ctrl**] key on the keyboard.

   ✔ When you press the [**Ctrl**] key, the screen of camera view you select turns dark and a plus sign (+) appears in the center of video screen.
3. When you click any desired position of camera video screen, the position moves to the center of video screen.



4. If you want to zoom in specific area of screen, right-click and drag a desired area to select the area in rectangular form.

   ✔ Set the scope of one-click PTZ zoom-in at "**Setting One-click PTZ**".



5. Release the right button of mouse clicked, so you can see that the selected area appears enlarged in the center of screen.

   ✔ If you change or zoom in the central position of camera view through one-click PTZ, even video recording is influenced by such a change or zoom-in, so the video of the same position (zoom) becomes recorded as that of camera view.

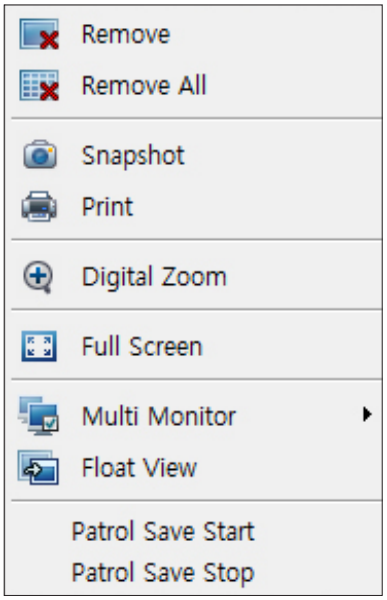


Monitoring

Live View pop-up menu

Click the right button of mouse on Live View, so you can see a window pop up.

- Remove : Deletes any selected camera in View area.
- Remove All : Deletes any camera in all views.
- Snapshop : Saves video in form of image during real-time video output.
- Print : Prints out a video during real-time video output.
- Digital Zoom : Digitally zooms in or out a video.
- Full Screen : Displays View area to full screen.
- Multi Monitor : If you use multi-monitor, you can use this menu to see a full-screen view about the video of a selected view on secondary monitor.
- Float View : Displays current selected camera view in single window.
- Patrol Save Start / Patrol Save Stop : Video that is being monitored live is also recorded or stopped to avi immediately.



Digital Zoom In/Out

In Live View, you can right-click to use digital zoom in/out.
Digital zoom in/out has no effect on recording of original video.

1. In the View screen of a desired camera, click the right button of mouse, so you can see a window pop up.
2. Select Digital Zoom In/Out.



3. Use mouse wheel to move upward, so you can see a view zoomed in, and use mouse wheel to move downward, so you can see a view zoomed out.

   ✔ Magnification appears on top right of camera view.

4. If you want to cancel Digital Zoom In/Out, click the right button of mouse, so you can see a window pop up and select Digital Zoom In/Out in the window.



Monitoring

Show View area to Full Screen

Enlarge View area to full screen, so you can see camera video on full scale.

1. Click the right button of mouse in View area, so you can see a menu pop up to select <**Full Screen**>. Or you can use even the [ ] button of default menu to zoom in screen.



2. If you want to return from full screen to previous screen, please click the right button of mouse in full screen, so you can see a menu pop up to select the <**Restore Screen**> menu item or press the ESC key on the keyboard.

Use Multi-monitor

If you are connected to a multi-monitor, you can show a view on the multi-monitor.

1. In View area, click the right button of mouse, so you can see a menu pop up.
2. Select <**Multi Monitor**> item in pop-up menu.
3. Select a monitor you want to use as a multi-monitor.

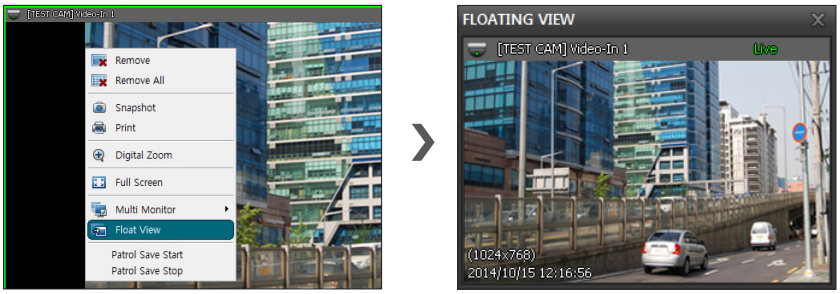


4. If you want to close any view displayed on multi-monitor, right-click the view of multi-monitor, so you can see a menu pop up.
5. Select the <**Close**> item in pop-up menu.

Display View on a Single Window

You can display certain camera view on a separate window, so you can zoom in the window for monitoring or can monitor live video even when doing other works (e.g. Search/Setting, etc)

1. In a desired area of camera view, click on the right button of mouse, so you can see a menu pop up.
2. Select the <**Float View**> item in pop-up menu.



3. If you want to close the window of Floating View, right-click Floating View, so you can see a menu pop up.
4. Select <**Close**> in pop-up menu or click the [ ] button in Window title of Floating View. Then, close the window.

Change Live View to Split Screen

1. Click the Split Screen button on the upper side of View display.
2. Select a desired type of split screen.

✔ In order to adjust the rate of network stream in live status, other screens except main screen become automatically adjusted to the lower resolution.
If the size of screens is equal to each other like 1-, 4- or 9-split screen, apply main resolution to all screens.

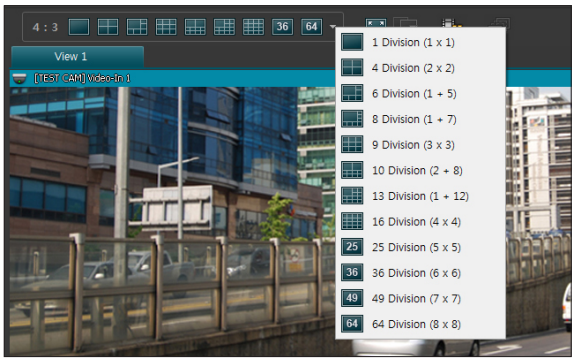


Search and Play

Search and Play

Change View in Playback

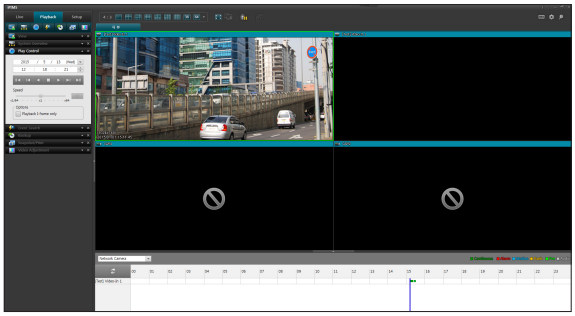
You can select View icon to change a view in playback of video.



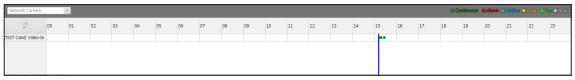
Watch Recorded Video

You can use <**Playback**> tab to play any video recorded in NVR, if connected.

1. Select the <**Playback**> tab.
2. Select NVR in recording time table.

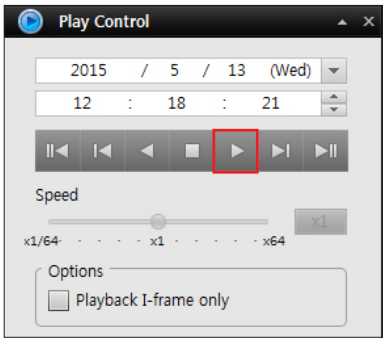


3. Specify playback time in <**Playback**> or select start time in timeline.



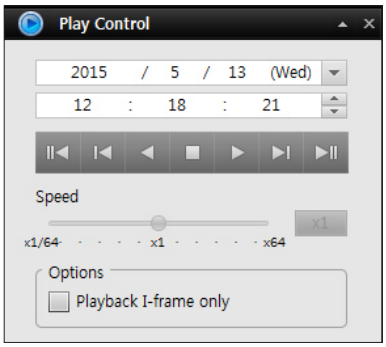
✔ You cannot adjust time interval of timeline search by clicking the right or left button of mouse For setting an area by mouse drag, you can click the right button of mouse to set or reset an area. You can click the left button of mouse to de-select the area.

4. Click the Play button of <**Play Control**>.



Play Control

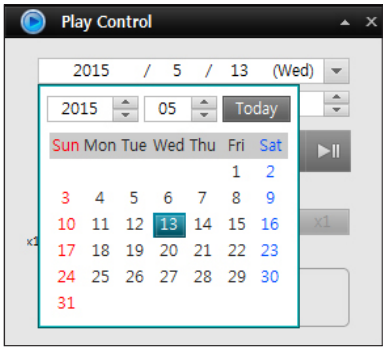
You can use Time search in the <**Play Control**> window to search for or play any video recorded from each device.



Search and Play

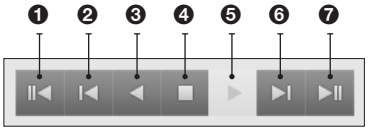
Select a Date of Search

Select a date to play a video or click the [ ] button in date field, so you can see a calendar screen pop up.
Dates with data recorded appear in red box, and current selected dates appear in blue box.



Designations and Functions of Play Button

You can use the Play button to play any recorded video of devices (NVR or IP camera).

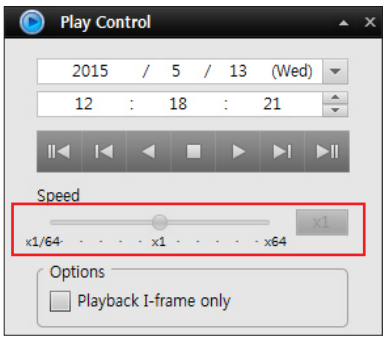


No.	Name	Descriptions
❶	First Frame	Moves to the first frame of recorded video in a selected device.
❷	Previous Frame	Moves move to the previous frame of current video in playback.
❸	Reverse play	Plays recorded video reversely like time goes backward.
❹	Stop	Stops playing video.
❺	Play	Plays recorded video sequentially as time goes by.
❻	Next Frame	Moves to the next frame of current video in playback.
❼	Last Frame	Moves to the last frame of recorded video in a selected device.

Playback Speed Control

While a recorded video plays, you can control playback speed from x1/64 (min.) to x64 (max.).

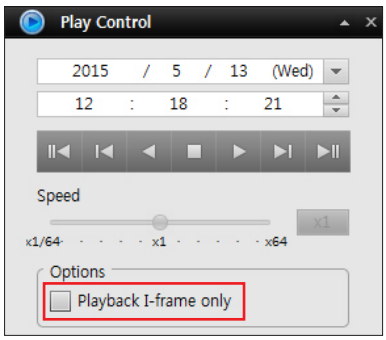
✔ When the video plays at high speed (x8), you can see video screen cut off from time to time.



Play I-Frame

When playing a recorded video, check "**Playback I-Frame Only**" to play I-Frame only.

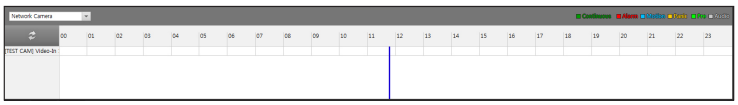
✔ The checkbox is checked by default while controlling playback speed.



Search and Play

Timeline Explorer

Timeline Explorer shows summary information about time of video recorded in each device as shown in current view.



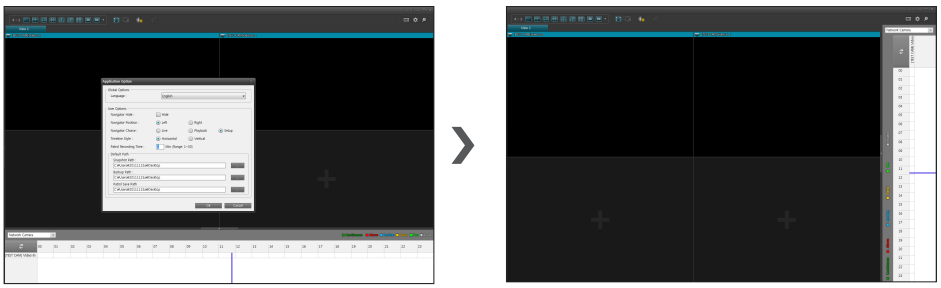
Timeline Explorer displays timeline about cameras of device. For cameras equipped with audio, Timeline Explorer displays both video and audio recording time, so two timelines appear on screen.
If you want to search for recording time through Timeline Explorer, right-click and hold down the inside of Timeline Explorer and move to the right or left direction. Then, drop the mouse button or just click a desired time.

Colors of Timeline

- Green: Time period of consecutive video recording
- Red: Time period of video recording via alarm detection
- Light blue: Time period of video recording via motion detection
- Orange : Time period of video recording via panic detection
- Light green: Time period of video recording in pre-buffer
- Gray: Time period of audio recording

Position of Timeline Explorer

By default, timeline is set on lower horizontal position of view, but you can use program option menu to change it to the vertical position of view.

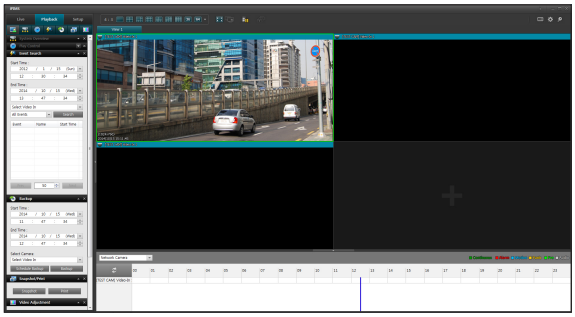


✔ For details on how to change timeline position, please refer to "**Change Timeline Style**". (page 17)

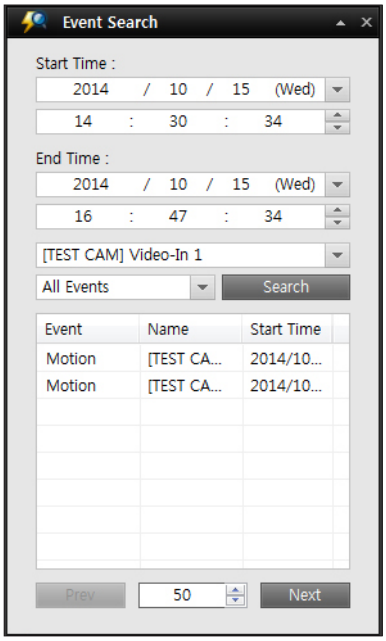
Search Events

You can search and play events about alarm, motion and previous recording.

1. Scroll up or down panes, so you can see the <**Event Search**> pane of the <**Playback**> tab.
2. In the <**Event Search**> pane, enter start time and end time for you to search events.
3. Select a camera where you want to search events.
4. Select any event you want to search.



5. Click the [**Search**] button.
   When you search for events, they are displayed as listing.
6. Select an event you want to find, Then click the <**Play**> button of <**Play Control**>.



Search and Play

Screen Capture in Playback

Like Live View, you can capture camera video in playback.

✔ For details on how to use this function, please refer to "**Snapshot**". (page 24)

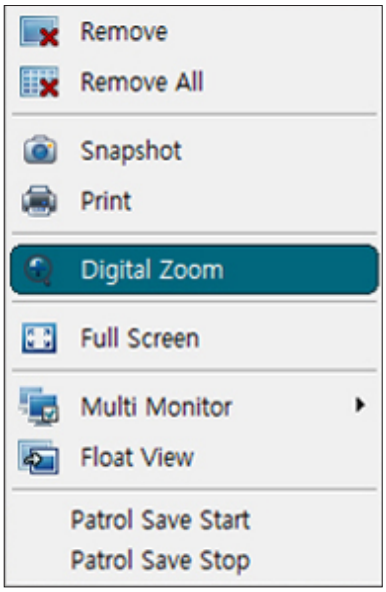
Printout in Playback

Like Live View, you can print out camera video in playback.

✔ For details on how to use this function, please refer to "**Print**". (page 25)

Digital Zoom In/Out in Playback

In Live View, you can right-click a camera video in playback and can use digital zoom in/out.
Digital zoom in/out has no effect on original video recorded.



Differences between Optical and Digital Zoom

- Optical zoom: You can physically move camera lens to zoom in or out an image.
  For recorded video, you cannot make camera lens activated, so you cannot use optical zoom in playback.
- Digital zoom: This function employs so-called 'interpolation' that means cutting out any desired part of original image and zooming in it to the size of original image.
  It enlarges a part of original image, so the quality of enlarged image becomes lowered.
  You can use this function for both live view and playback.

Change View in Playback to the Full Screen

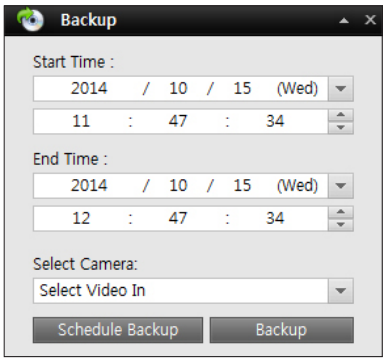
Like Live View, you can change any view in playback to the full screen.

✔ For details on how to use this function, please refer to "**Show View area to Full Screen**". (page 30)

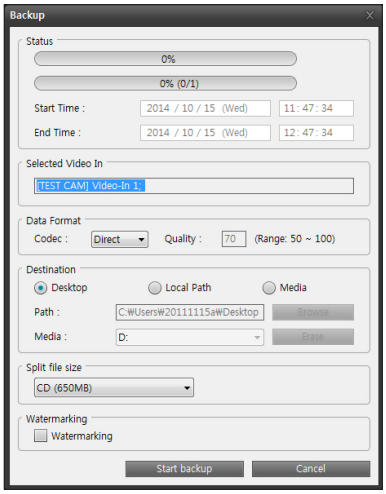
Back up Recorded Video

1. Select the <**Playback**> tab.
2. On the <**Backup**> pane, enter start date of backup period in the first field and enter start time in the second field.
3. Enter end date and time of backup period in the next respective fields.

   ✔ Based on point of bookmark time in playback, you can set start and end time.
4. In Device list, select desired cameras for backup.



5. Click the [**Backup**] button.
   Backup dialog opens up to show start and end time of backup as well as desired devices for backup.



Search and Play

Run Backup

1. Select codec and quality of AVI format.
2. If you select OSD option, OSD texts are also saved in the backup file.
3. Select a destination to save the backup file.
   - Desktop: Select Desktop, so you can see a backup folder generated on PC desktop and backup file is saved to the folder.
   - Local path: When you select a local path, you can enter a path to save a backup file, and the backup file is saved to a specified path.
     In addition, you can set your company's network share folder as a path to save the backup file.
   - Media: You can select Media to save backup files to CD or DVD.
     If you have any rewritable media, you can press the [**Delete**] button to delete existing data.
4. Click the [**Start backup**] button to start backup process, and you can see backup progress on the top of dialog window.

View Setting

You can manage views by creating user's own view and common view, and can set whether to share those views with other users.

✔ After E-map list is generated in <**Emap Editor**> of <**Configuration**> pane, you can assign an E-map View.

User's Own View vs. Common View: What's the Difference?

Views include user's own view and common view.

- **User's own view**: This view is accessible from only users who create a view.
- **Common view**: This view can be shared with other users.

  ✔ For view registration, you can select one of either general view (displaying one camera video on each screen) or E-map view (where you can link cameras to each position of camera installed on whole map, so you can create a view.

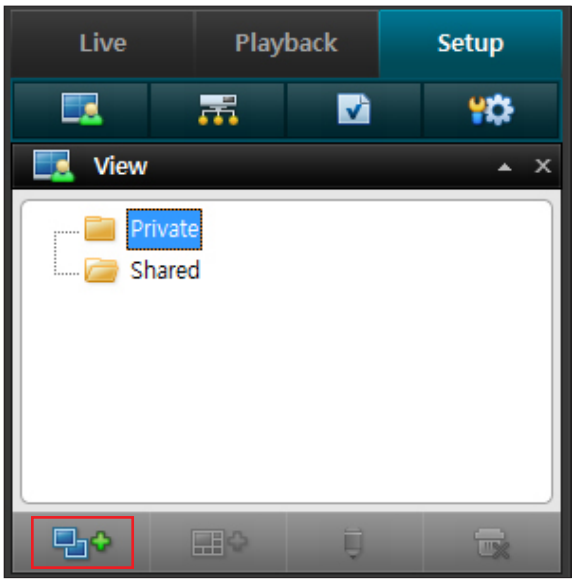
Create User's Own Views

All views can be created in the <**Setup**> tab. Create a group at first, and then create a view.

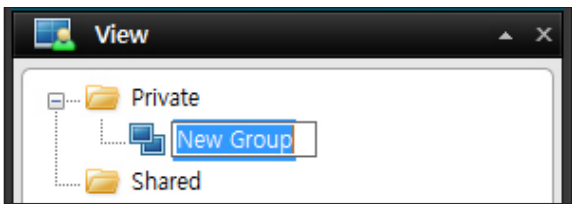
Create a Group

You can create a subgroup in a group. Depending on your needs, you may set the depth of each group.

1. In the <**View**> pane of the <**Setup**> tab, select a <**Private**> folder.
2. Click the [**Create Group**] button.

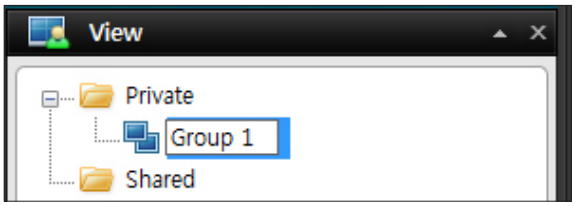


3. Once a new group is created, the name of this group is initially set as <**New Group**> by default.



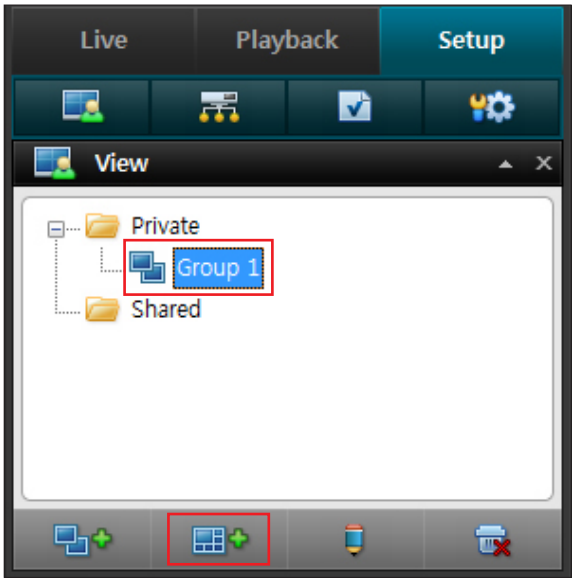
Setting

4. Change the initialized name of group to a desired name you want.
5. Then, you are ready to create a view in a group.



Create a View / E-map View in a Group

1. Select a group folder in <**Private**> folder.
2. Click the [**Create View**] button.

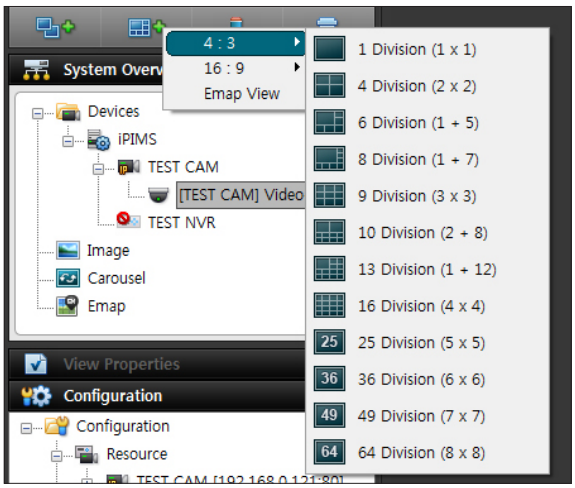


3. Click on a desired aspect ratio or <**Emap View**>.

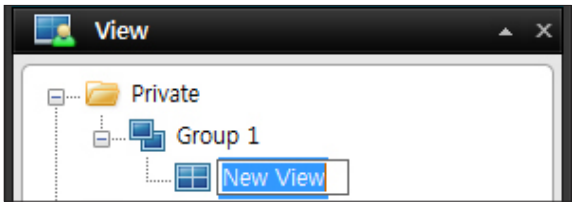
   ✔ After E-map list is generated in <**Emap Editor**> of <**Configuration**> pane, you can assign an E-map View.

4. When you select an aspect ratio, please select how many screens you want to split a new view into.

   ✔ You can display a new view on up to 64 split screens.

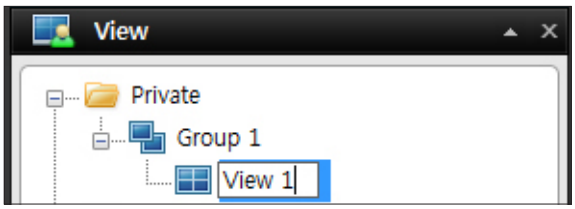


5. A new view is created under a group folder you select. The name of a new view is initially set as <**New View**> by default.



6. Change the initialized name of group to a desired name you want.

7. Now you are ready to add a camera to view.



Set a Common View

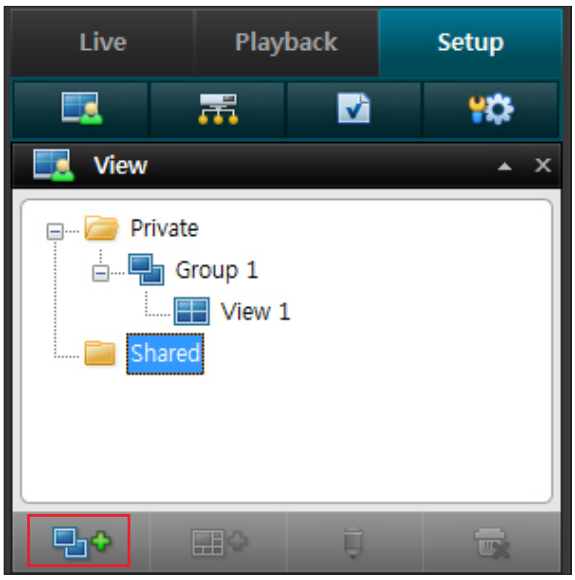
All views can be created in the <**Setup**> tab. Create a group at first, and then create a view.

Create a Group

1. In <**View**> pane of <**Setup**> tab, select a <**Shared**> folder.

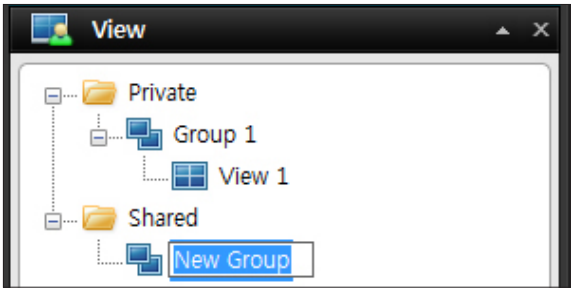
2. Click the [**Create Group**] button.

3. Once a new group is created, the name of this group is initially set as <**New Group**> by default.



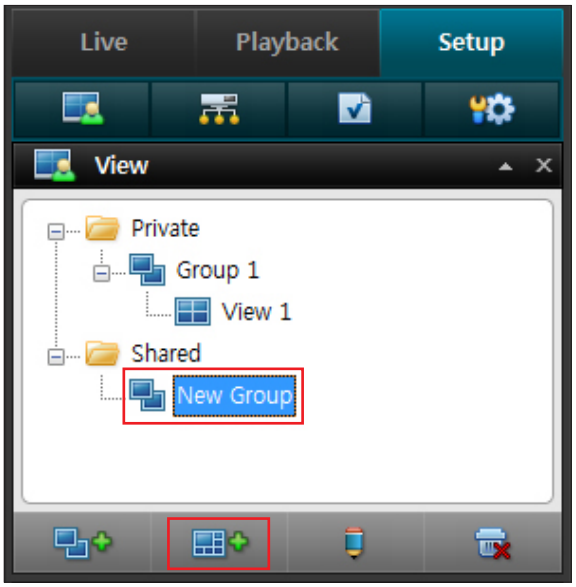
Setting

4. Change the initialized name of group to a desired name you want.
5. Then, you are ready to create a view in a group.



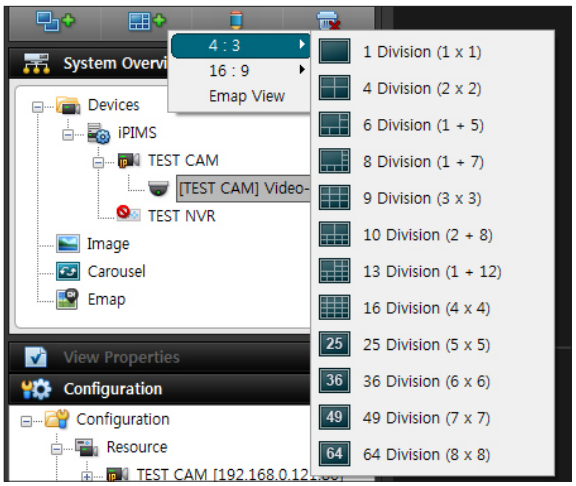
Create a View / E-map View in a Group

1. Select a group folder in the <**Shared**> folder.
2. Click the [**Create View**] button.

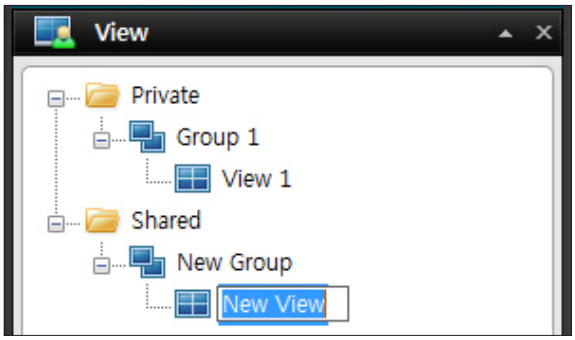


3. Click on a desired aspect ratio or <**Emap View**>.
4. When you select an aspect ratio, please select how many screens you want to split a new view into.

   ✔ You can display a new view on up to 64 split screens.

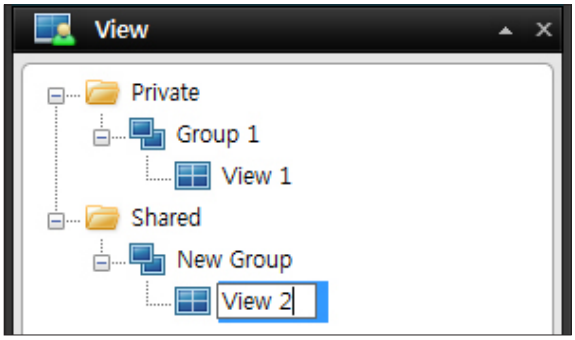


5. A new view is created under a group folder you select.
The name of a new view is initially set as <**New View**> by default.



6. Change the initialized name of group to a desired name you want.

7. Now you are ready to add a camera to view.



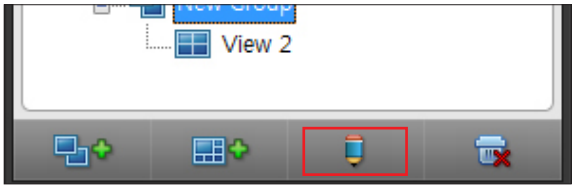
Change the Name of View and Group

1. In <**View**> pane of **<Setup>** tab, select a desired view or group.

2. Click the [**Rename**] button.

   ✔ Select a group or view whose name you want to change. Then, click it once again.

3. Enter a new name you want to use.



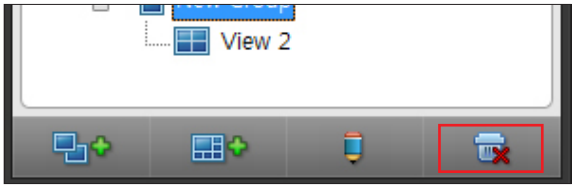
Delete View or Group

❗ Delete a group. Then, you can delete any views and subgroups included in the group.

1. In <**View**> pane of <**Setup**> tab, select a desired view or group.

2. Click the [**Delete**] button.

3. When a dialog window pops up to ask you whether to delete a view you select, click the [**OK**] button. Then, you can delete the selected view.



System Settings

Here, you can see information on any server connected currently to system as well as registered cameras, camera position cycle, E-map and more in the server.
And you can assign and set image and cyclic video service to View.

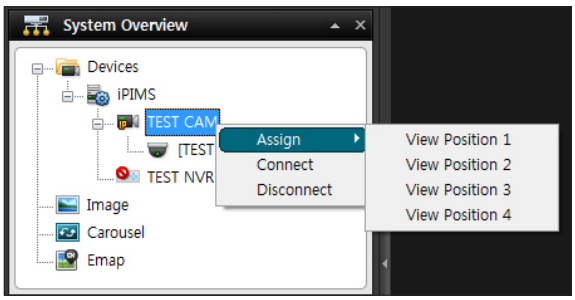
Camera Group

Here, you can see information on any server and camera connected to system, and can also assign a registered camera to any desired view.

Assign a Camera to View

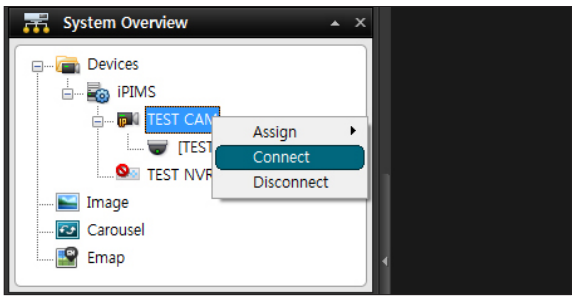
1. Select a camera in the <**System Overview**> pane of the <**Setup**> tab.
2. Click the right button of mouse and select <**Assign**>, so you can select the number of a desired view. Or click and hold on the left button of mouse to drag and drop a camera to the position of a desired view.

   Right-clicking to assign cyclic images to view may not be supported depending on objects you select.



Connect to a Camera

1. Select a camera in the <**System Overview**> pane of the <**Setup**> tab.
2. Click the right button of mouse and click <**Connect**>.
3. Server attempts to connect to the camera.



Disconnect from a Camera

1. Select a camera in the <**System Overview**> pane of the <**Setup**> tab.
2. Click the right button of mouse and click <**Disconnect**>.
3. Server disconnects from the camera.

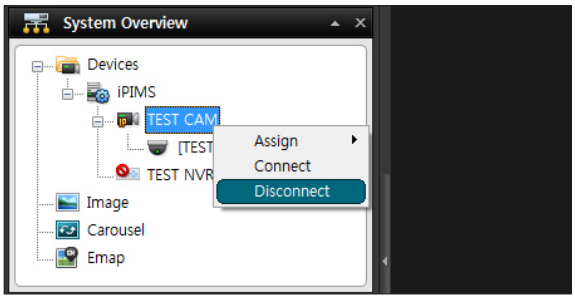


Image Setting

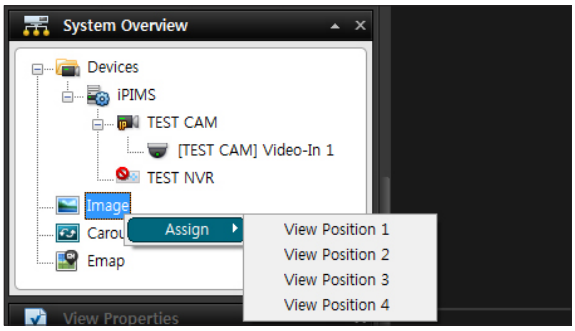
This menu allows you to assign a desired image to view, so you can see it.

✔ If you want to configure dual monitor, you can assign a device to one of two monitors to monitor live video, and can also assign camera-set image to the other monitor available for reference.

Assign an Image to View

1. Select <**Image**> in the <**System Overview**> pane of the <**Setup**> tab.
2. Click the right button of mouse and select <**Assign**>, so you can select the number of a desired view. Or click and hold on the left button of mouse to drag and drop a camera to the position of a desired view.

   ! Right-clicking to assign cyclic images to view may not be supported depending on objects you select.
3. When Open Image window pops up, select a fixed image file applicable to the view you select.



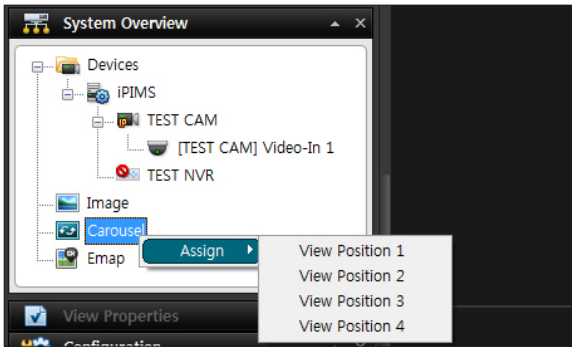
Cyclic Image Setting

In one split screen, you can monitor images of several channels.
The images of registered channels go through a sequential cycle based on cycle time setting.

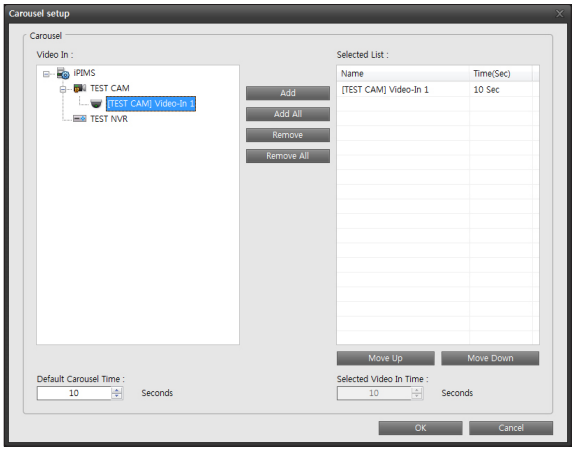
Assign Cyclic Images to View

1. Select Cyclic Images in the <**System Overview**> pane of the <**Setup**> tab.
2. Click the right button of mouse and select <**Assign**>, so you can select the number of a desired view. Or click and hold on the left button of mouse to drag and drop a camera to the position of a desired view.

   ! Right-clicking to assign cyclic images to view may not be supported depending on objects you select.



Set Cyclic Images



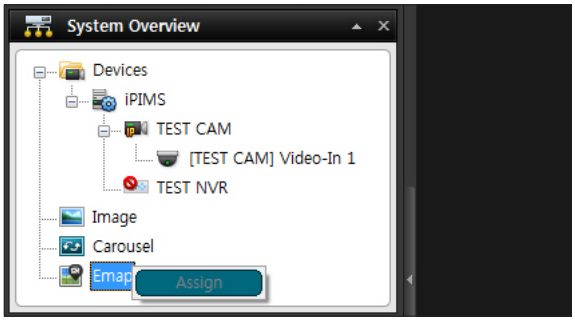
1. Right-click <**Carousel**> in the <**System Overview**> pane of the <**Setup**> tab.
2. When <**Assign**> window pops up, select the position number of view to which you want to assign cyclic images.
3. When <**Carousel setup**> window pops up, select a camera and click the [**Add**] button.
   - › Default Carousel Time: This is a cycle time applied by default when you select and add a camera.
4. If you want to change the sequence of cameras, press the <**Move Up**> and <**Move Down**> arrow key to set the position of cameras.
5. If you want to set different cycle times for each camera, please select a camera from optional list and set <**Selected Video In Time**>.
6. Click the [**OK**] button.
   The displays of view assigned in live condition go through a sequential cycle, and <**Cycle**> appears in view.

E-map Setting

E-map registered completely in E-map Editor may be assigned to E-map View.

✔ For details on how to create E-map View, please refer to "**View Setting**". (page 41)

Assign an E-map to E-map View



1. Select an E-map in the <**System Overview**> pane of the <**Setup**> tab.
2. Click the right button of mouse and select <**Assign**> or click and hold on the left button of mouse to drag and drop an E-map to the position of E-map View.

   ❗ Right-clicking to assign cyclic images to view may not be supported depending on objects you select.

   ✔ E-map may be assigned to E-map View after it is created by <**Emap Editor**> of <**Configuration**> tab.

View Properties

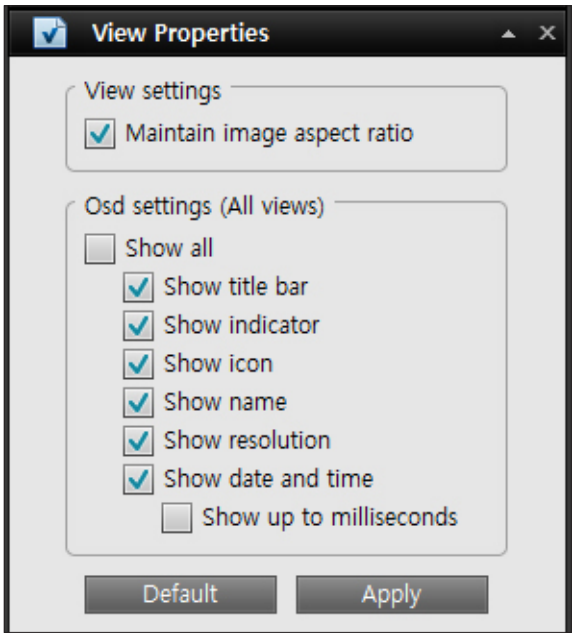
Set View Properties

You can use this menu to set view properties including aspect ratio and OSD.

Set a View in the Aspect Ratio of Camera

Here, you can set whether to apply aspect ratio or apply screen output fit for the size of view.

Once you complete this setting, screen appears in the view according to aspect ratio of camera connected.





<Before you set an aspect ratio>



<After you set an aspect ratio>

Setting

OSD Setting

1. Select <**OSD Setting (All Views)**> in the <**View Properties**> pane of the <**Setup**> tab.
2. Select any item of OSD you want to display in view.
   - › Show all: Displays all items of OSD in view.
   - › Show title bar: Displays a title bar.
   - › Show indicator: Displays recording status in video recording mode.
     - Orange: Appears in continuous recording mode.
     - Purple: Appears in motion recording mode.
     - Pink: Appears in alarm recording mode.
   - › Show icon: Displays an icon of current device type.
   - › Show name: Displays the name of video.
   - › Show resolution: Displays the resolution of a video displayed in current view.
   - › Show date and time: Displays current date and time.
   - › Show up to milliseconds: Displays time in milliseconds.
3. When you completely select these items, click the [**Apply**] button.
   If you want to come back to initial options, click the [**Default**] button.



<If you select View All>

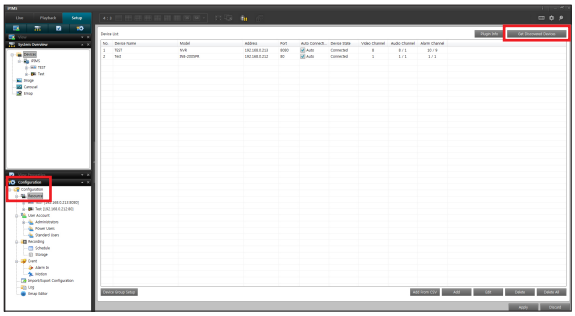
Preferences

In Preferences, you can register, modify or delete any objects required for monitoring. Objects you can register include resource, user, event and E-map. In each resource registered, you can toggle device registration / modification / deletion as well as recording. Moreover, you can check logs and import or export any file of information set in system.

Automatic Registration of IP Camera

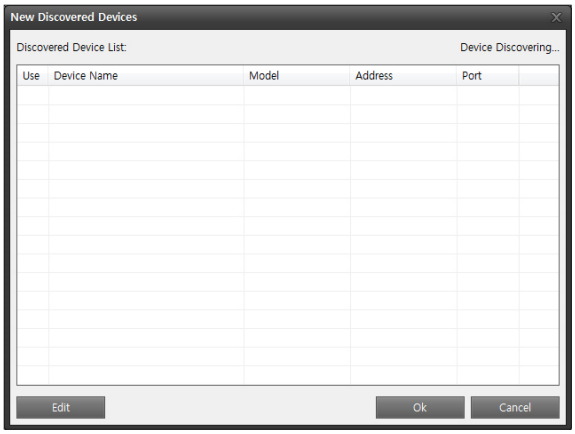
You can automatically search and register any IP camera.

1. In <**Configuration**> pane of <**Setup**> tab, select <**Resource**> and click the [**Get Discovered Devices**] button.



2. In a list of newly searched devices, select a camera you want to add. Next, enter <**Device Name**>, <**Id**> and <**Password**> respectively. Then, click [**Ok**].

3. Make sure that the camera is added to the list of devices, and click [**Apply**].
Then, you can automatically connect to the camera.

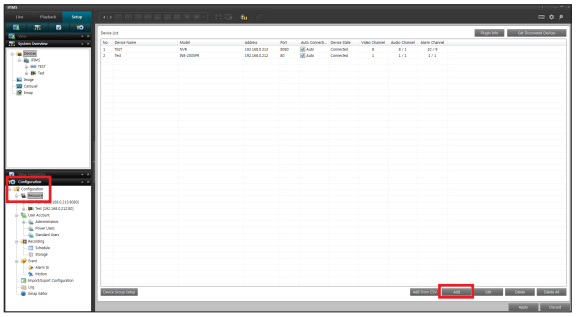


Setting

Manual Registration of IP Camera

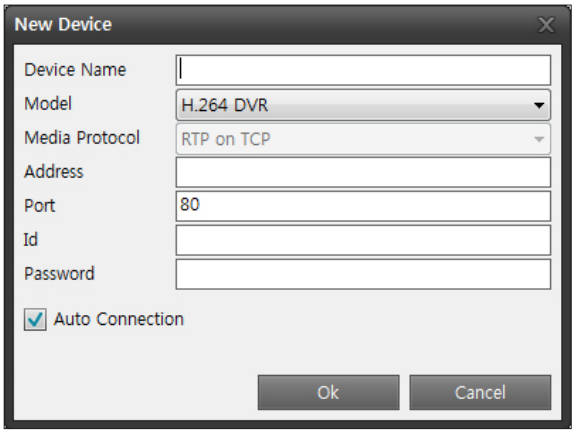
When a ClairView server is registered, you can manually enter and register the information of IP camera.

1. In the <**Configuration**> pane of the <**Setup**> tab, select <**Resource**> in the registered server and click the [**Add**] button.



2. Enter information of a camera you want to connect to. Then, click the [**Ok**] button.

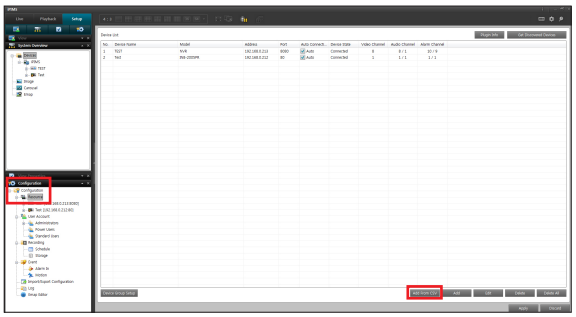
3. Make sure that the camera is added to the list of devices, and click the [**Apply**] button.
Then, you can automatically connect to the camera.



Register Devices in CSV File

When there are many devices, you can register them in CSV file.

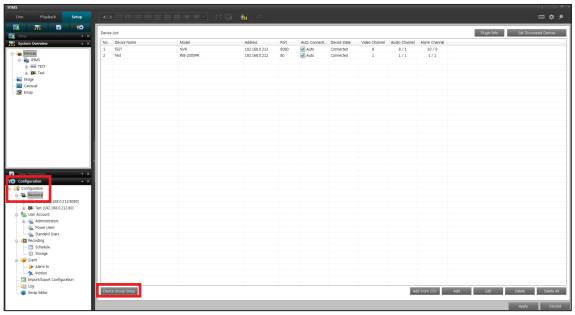
- Basic pattens: Device name, model, media protocol, IP address, port, ID, password, etc
- Sample: device1, NCX-2000, TCP, 192.168.10.xxx, 80, ADMIN, 1234



Set a Device Group

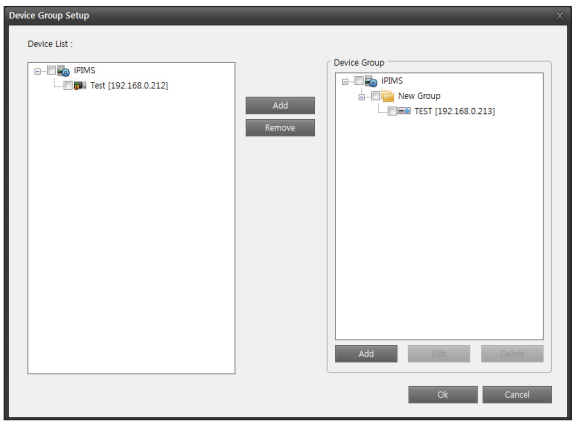
You can change settings of registered devices in groups.

1. In the <**Configuration**> pane of the <**Setup**> tab,select <**Resource**> in the registered server and click the [**Device Group Setup**] button.



2. Click the [**Add**] button from [**Device Group**] and create a "**New Group**".
   Select the desired device from the [**Device List**] and click the [**Add**] button to assign a "**New Group**".

3. Press the [**OK**] button after adding a new group.
   The device group will be shown under <**System Overview**>.



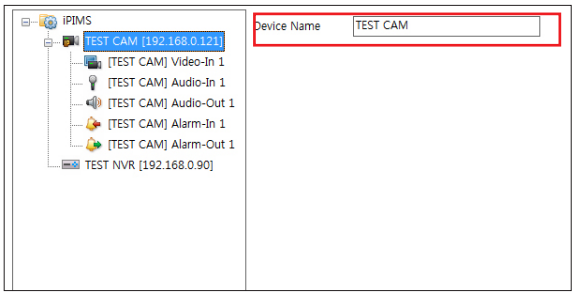
Set Live Video Quality

When using dual stream, you can set live video.
Dual stream refers to a function that sets different video quality data (resolution, fps, bit rate, etc) of recorded and live video, so you can receive those data at once.

In order to ensure that this function works in good order, camera must support multi-stream.

Change the Name of Video

1. In the <**Setup**> tab, go to the <**Resource**> item of the <**Configuration**> pane.
2. Select a camera whose name you want to change.
3. Click <**Device Name**> and enter a new name you want to use. Then, press the [**Apply**] button.



Recording

Before You Set Recording

Live video is not always recorded.

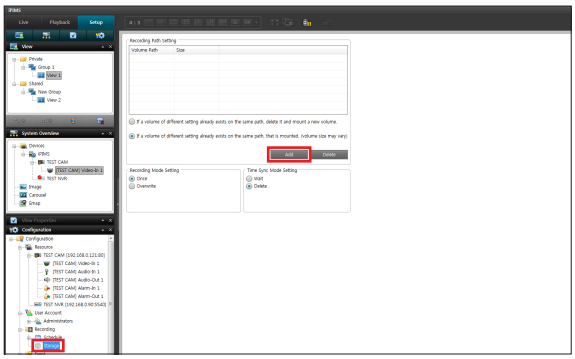
Although live video of camera appears in a view, the live video is not always recorded.
This feature is one of advantages that IP-based digital surveillance system has. Contrary to conventional analog surveillance system based on always-on recording, the IP-based digital surveillance system provides a variety of recording functions for each target.
This targeted recording reduces the amount of recording that should be inspected, so monitoring personnel or investigators don't have to inspect numerous recorded materials with a view to finding out certain incidents.
Basically, live video stream is delivered from camera to surveillance system server and is saved to server, only if necessary. Otherwise, it is discarded.

- Save by Schedule
  - ✔ Ex.> 10:00 AM ~ 11:30 AM every morning
- Save by Certain Events
  - ✔ Ex.> By detecting any motion of somebody entering a room

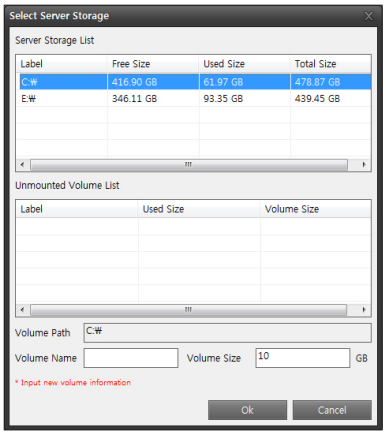
Select a Storage for Recording

Storage space of PC where iPIMS program runs now can be assigned as recording space.
Also, you can register several storages for recording space.

1. In the <**Setup**> tab, go to the <**Recording**> item of the <**Configuration**> pane.
2. Select the <**Storage**> item.
3. Click the [**Add**] button.
   - › If a different volume already exists, then delete it and mount the new volume: If another volume has the same name and file path as the new volume, then delete the existing volume and mount the new volume using the current volume information.
   - › If a different volume already exists, then ignore the setting and mount the new volume: If another volume has the same name and file path as the new volume, then mount the existing volume using its volume information.

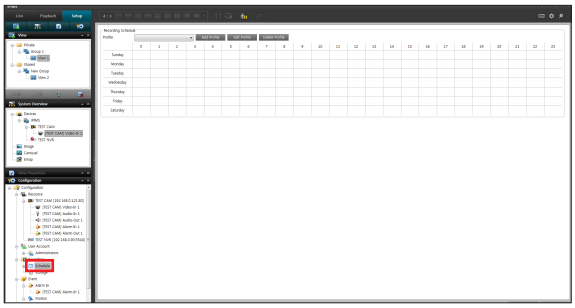


4. Enter the name of folder you want to save in <**Volume Name**> of recording volume setting window.
5. Enter the maximum store size of folder in <**Volume Size**>.
6. Click the [**Ok**] button.
   Any folder you added appears in the list.
7. Select one of the following recording modes:
   - › Once: Stops recording, if storage space is not enough.
   - › Overwrite: Removes oldest data to record newest data, if storage space is not enough.
8. Select one of the following time sync modes:
   - › Wait: If there is any existing recorded data in the zone of time which is changed on the basis of server time (PC time), recording stands by in overlapped period.
   - › Delete: If there is any existing recorded data in the zone of time which is changed on the basis of server time (PC time), such data is removed before recording in progress.
9. Press the [**Apply**] button to create a storage folder.



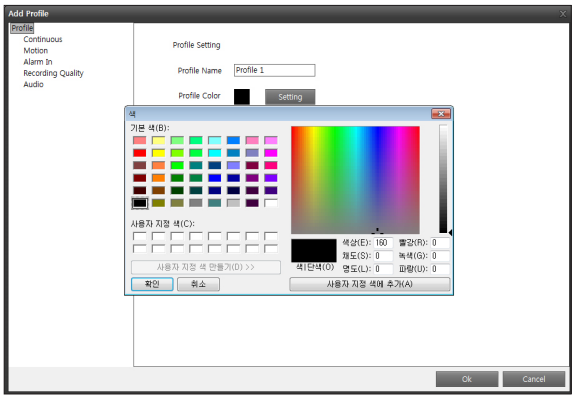
Set Continuous Recording Profile

1. In the <**Setup**> tab, go to the <**Recording**> item of the <**Configuration**> pane.
2. Select the <**Schedule**> item.

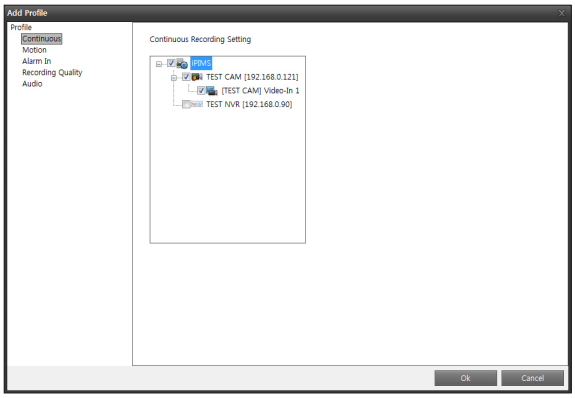


Setting

3. Click the [**Add Profile**] button.
4. Enter the name of profile and press the [**Setting**] button to select a color of profile.



5. Select the <**Continuous**> item.
6. Select a camera for recording.
7. Click the [**Ok**] button.



8. In time table, left-click and drag an area where you want to apply a recording profile.

   ✔ Right-click and drag the area you selected, so you can see it disappears.

9. Press the [**Apply**] button to set a recording profile.

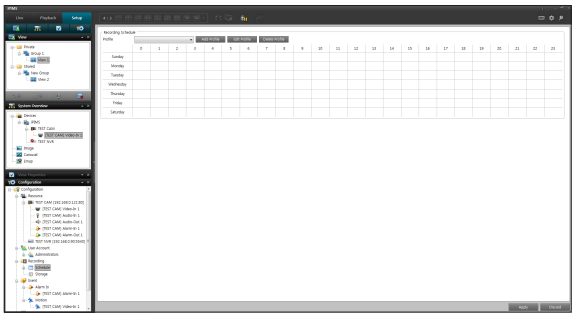


10. Go to Live tab and make sure that the recording icon appears in the title area of the camera view.

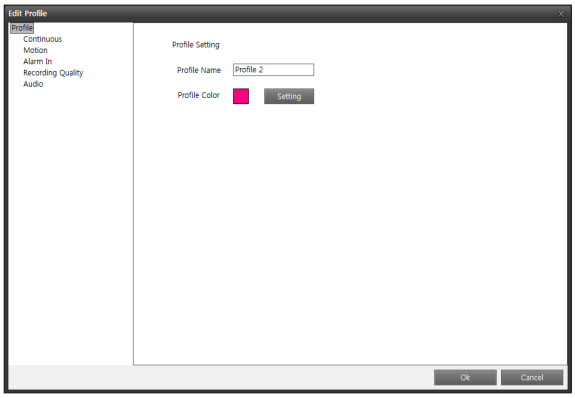


Set Motion Recording Profile

1. In the <**Setup**> tab, go to the <**Recording**> item of the <**Configuration**> pane.
2. Select the <**Schedule**> item.
3. Click the [**Add Profile**] button.

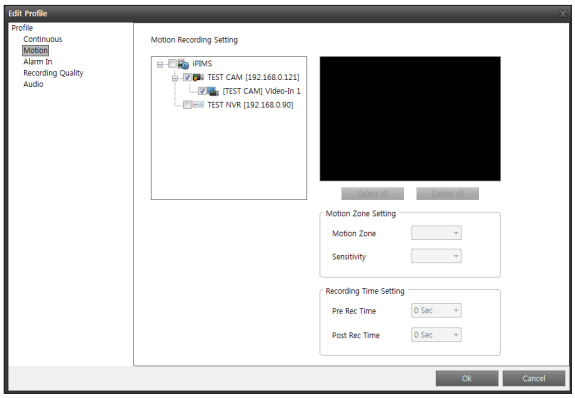


4. Enter the name of profile and press the [**Setting**] button to select a color of profile.



Setting

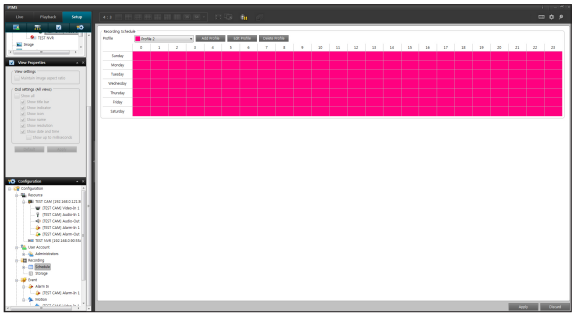
5. Select the <**Motion**> item.
6. Select a camera for recording.
7. Right-click and drag the camera to select a desired area.
8. Use <**Sensitivity**> to select the sensitivity of motion.
9. Set pre- / post-recording time.
10. Click the [**Ok**] button.



11. In time table, left-click and drag an area where you want to apply a recording profile.

    ✔ Right-click and drag the area you selected, so you can see it disappears.

12. Press the [**Apply**] button to set a recording profile.

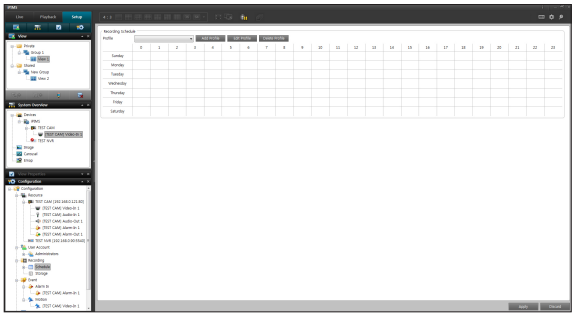


13. Go to Live tab and make sure that recording icon appears in title area of camera view.

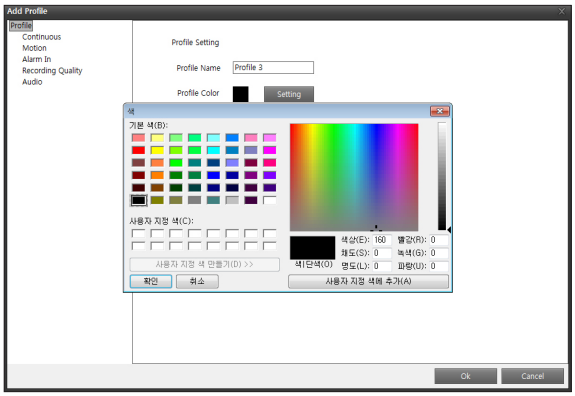


Set Alarm Recording Profile

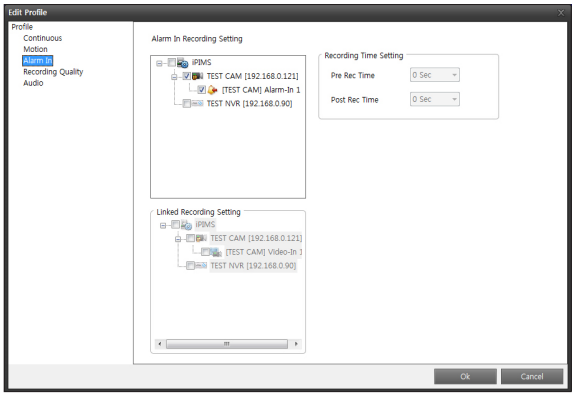
1. In the <**Setup**> tab, go to the <**Recording**> item of the <**Configuration**> pane.
2. Select the <**Schedule**> item.
3. Click the [**Add Profile**] button.



4. Enter the name of profile and press the [**Setting**] button to select a color of profile.



5. Select the <**Alarm In**> item.
6. Select a camera for recording.
7. Set pre- / post-recording time.
8. In <**Linked Recording Setting**>, select any camera you want to link.
   Then, video recording works at the same time from cameras you select. Or you can choose only cameras required for video recording, as the case may be.
9. Click the [**Ok**] button.

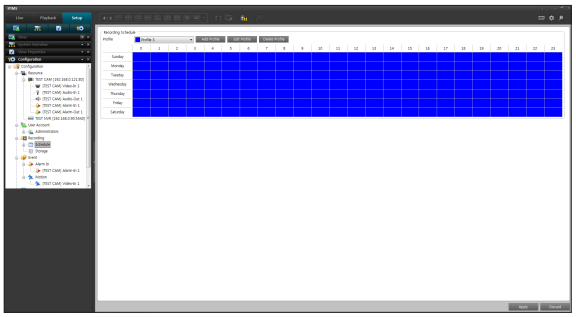


Setting

10. In time table, left-click and drag an area where you want to apply a recording profile.

    ✔ Right-click and drag the area you selected, so you can see it disappears.

11. Press the [**Apply**] button to set a recording profile.



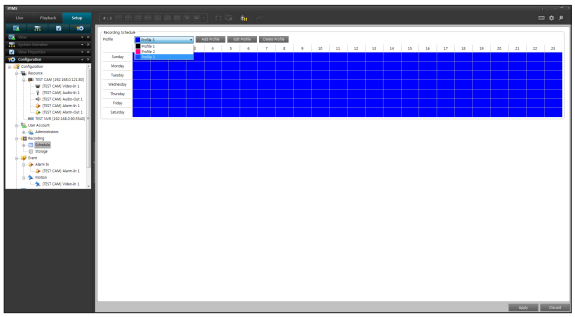
12. Go to the Live tab and make sure that the recording icon appears in the title area of the camera view.



Set Recording Quality

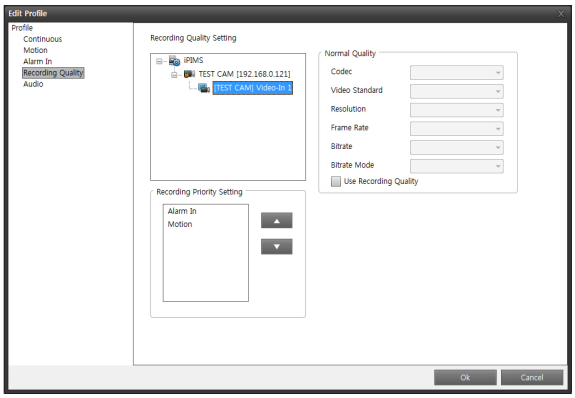
If you don't set video recording, you can see the quality of live video. When you change its setting, you can see live video changed. If you set video recording, you can see the quality of recorded video. You can set the quality of live video in "**Set Live Video Quality**".

1. In the <**Setup**> tab, click the <**Recording > Schedule**> item of the <**Configuration**> pane.
2. Select any desired profile in a list of profiles.



3. Click the [**Edit Profile**] button.
4. Click the <**Recording Quality**> item.
5. Select a camera where you want to set image quality. Then, check <**Use Recording Quality**>.
6. Set video recording quality suitable for your environment of use.

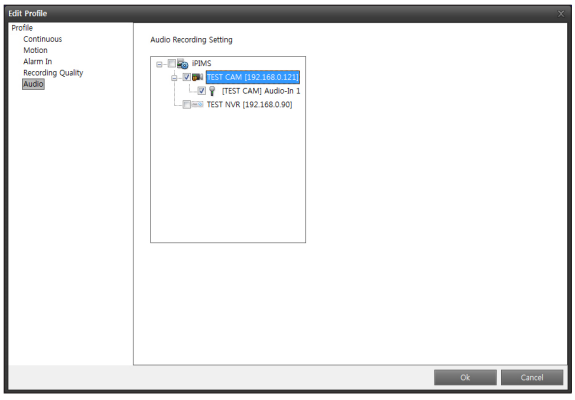
   ✔ Codec, resolution, frame rate, etc.
7. Click the [**Ok**] button.
8. Press the [**Apply**] button to finish with setting.



Set Audio Recording

You can record both video and audio from camera.

1. In <**Configuration**> window, click the <**Schedule**> item.
2. Select any desired profile in a list of profiles.
3. Click the [**Edit Profile**] button.
4. Click the <**Audio**> item.
5. Select a camera where you want to record both video and audio.
6. Click the [**Ok**] button.
7. Press the [**Apply**] button to finish with setting.

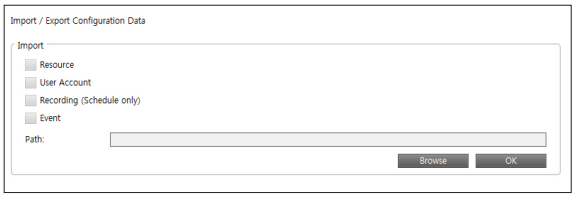


Preferences of Import/Export

You can export or import data file of current preferences.

Exported file of preferences is not available among many PCs at the same time.

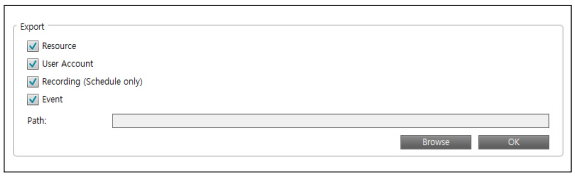
Import



1. In the <**Setup**> tab, go to the <**Import / Export Configuration Datat**> item of the <**Configuration**> pane.
2. In the <**Import**> item, select an item you want to import from other programs.
   - Resource: Imports any registered server and camera information.
   - User Account: Imports any registered user.
   - Recording (Schedule only) : Imports video recording schedule you set, if applicable.

     Please create a separate storage.
   - Event: Imports any event you set.
3. Click the [**Browse**] button to find out a path to import setting file.
4. Click the [**OK**] button to import setting information.

Export



1. In the <**Setup**> tab, go to the <**Import / Export Configuration Data**> pane.
2. In the <**Export**> item, select an item you want to export to other programs.
   - Resource: Exports any registered server and camera information.
   - User Account: Exports any registered user information.
   - Recording (Schedule only) : Exports only video recording schedule you set, if applicable.
   - Event: Imports any event you set.
3. Click the [**Browse**] button to find out a path to export setting file.
4. Click the [**OK**] button to export setting information.

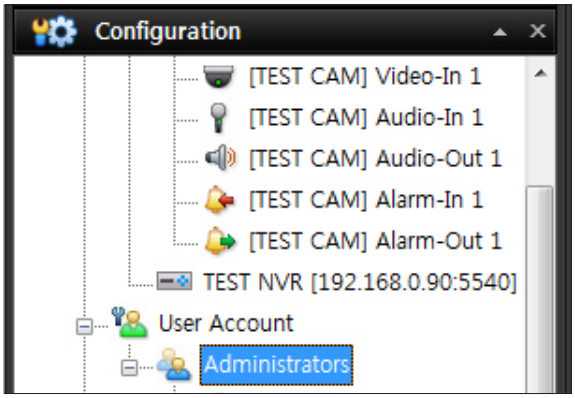
   When you export any setting information, you can see a file created with extension of .bin.
   Ex) Sample32.bin

Set User Account

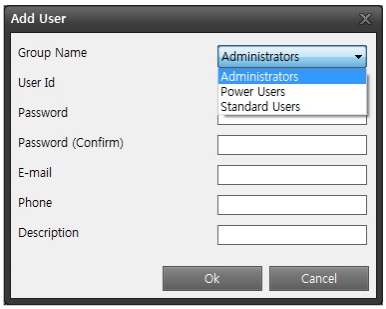
You can add user accounts or change information on registered users.

Add User Account

1. Select <**User Account**> in the <**Configuration**> pane of the <**Setup**> tab.



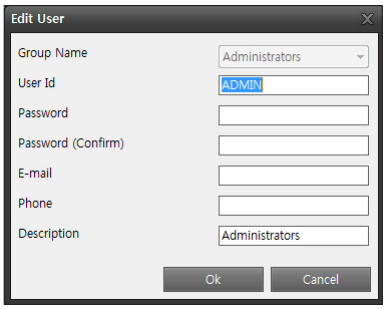
2. Click the [**Add**] button in user account list.
3. In <**Group Name**>, select a group you want to join as user.
   - Administrators: Has whole access to Live, Search and Setting. <**ADMIN**> is registered as default user and cannot be deleted.
   - Power Users: Has access to Live and Search and also has partial access to Setting.
   - Standard Users: Has access to Live and Search.
4. Enter your ID, password and information. Then, click the [**Ok**] button.
5. Check user information registered in the list. Then, click the [**Apply**] button.



Setting

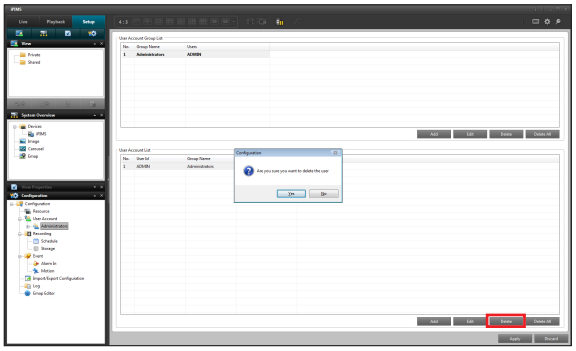
Edit User Information

1. Select <**User Account**> in the <**Configuration**> pane of the <**Setup**> tab.
2. Select a user you want to modify in user account list. Then, click the [**Edit**] button or double click it.
3. Modify user and then click the [**OK**] button.
4. Click the [**Apply**] button.



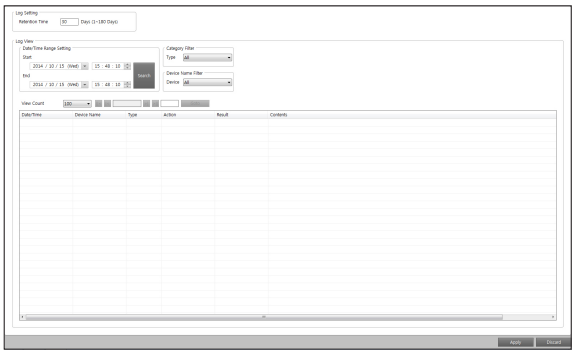
Delete User

1. Select <**User Account**> in the <**Configuration**> pane of the <**Setup**> tab.
2. Select a user you want to delete from user account list.
3. Click the [**Delete**] button.
4. Click the [**Apply**] button.



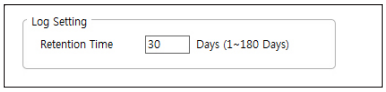
Log Setting

You can set a period to save logs, and can also check any logs, if created.



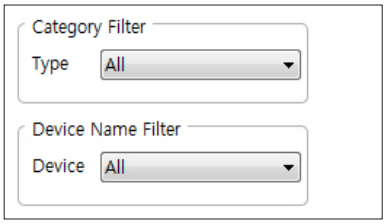
Set a Period to Save Logs

1. Select <**Log**> in the <**Configuration**> pane of the <**Setup**> tab.
2. In <**Retention Time**>, enter days you want to save logs.



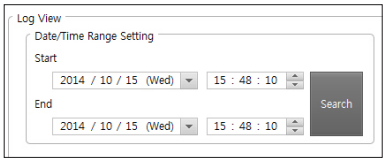
View Logs

1. If you want to search only for desired items, select <**Category Filter**> in the <**Type**> item and select <**Devices Name Filter**> in <**Device**> as well.



2. In the <**Date/Time Range Setting**> item, set <**Start**> and <**End**> where you want to search any desired item. Then, click the [**Search**] button.
3. In Log list, you can see logs that meet conditions you select.

✔ In <**View Count**>, you can set numbers displayed in the list at once.

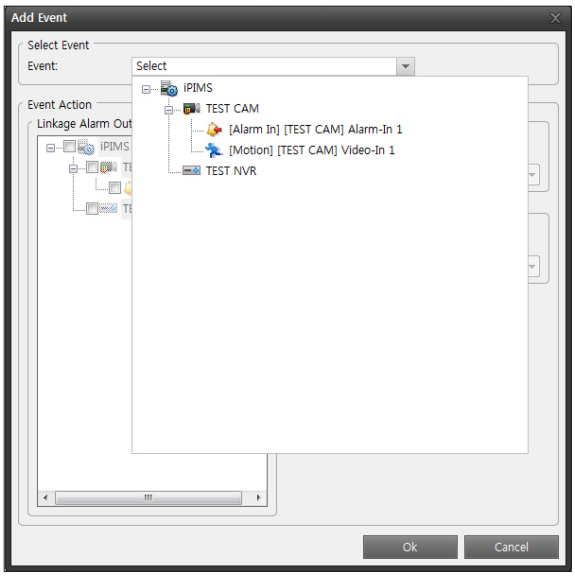


Event Setting

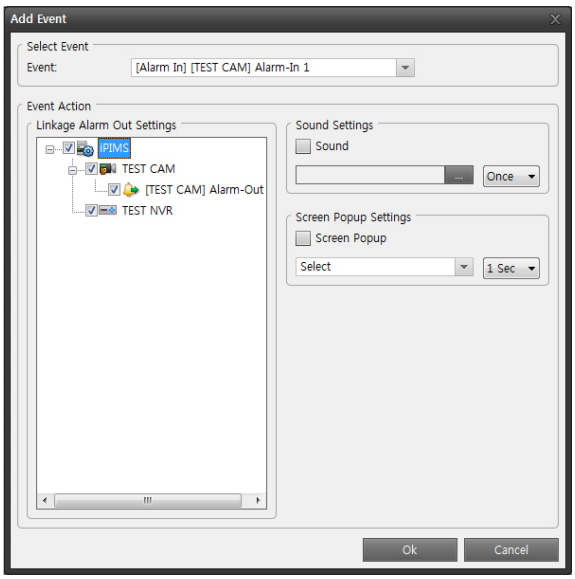
You can use this menu to register an event or change any registered event. When an event of camera (alarm, motion, etc) occurs, you can use this menu to set associated actions like alarm output, sound output and video popup.

Register Events

1. Select <**Event**> in the <**Configuration**> pane of the <**Setup**> tab.
2. Click the [**Add**] button.
3. When "**Add Event**" window pops up, select a type of event.

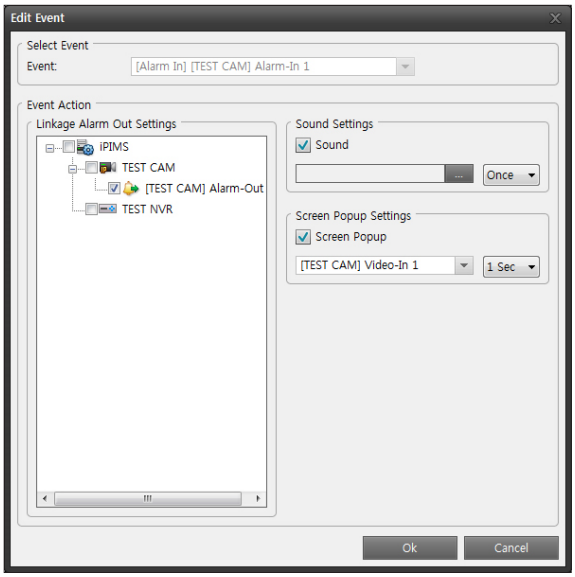


4. Select an event action.
   - Set linked alarm output: When an event occurs in a selected event, alarm output is delivered to a camera you checked.
   - Sound setting: When an event occurs, sound output is generated from any client connected to server.
   - Set screen pop-up: When an event occurs, a camera video you selected pops up as long as time set in any client connected to server.
5. Click the [**Ok**] button.
6. Click the [**Apply**] button.



Edit Events

1. Select <**Event**> in the <**Configuration**> pane of the <**Setup**> tab.
2. In Event list, select an event you want to modify. Then, click the [**Edit**] button.
3. When "**Edit Event**" window pops up, select any event and action you want to change.
4. Modify user and then click the [**Ok**] button.
5. Click the [**Apply**] button.



Delete Events

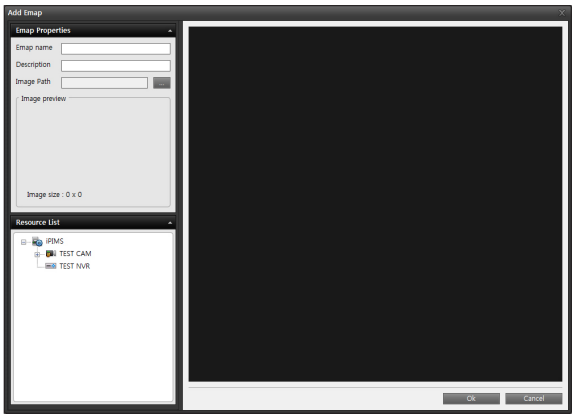
1. Select <**Event**> in the <**Configuration**> pane of the <**Setup**> tab.
2. In Event list, select an event you want to modify. Then, click the [**Delete**] button.
3. Click the [**Apply**] button.

E-map List Setting

This shows an overview of spatial locations together with camera video, so you can more quickly find out accident situations, if they occur in certain zone, and can take prompt actions for on-site situations. You can use E-map Editor to register, modify and delete E-map.

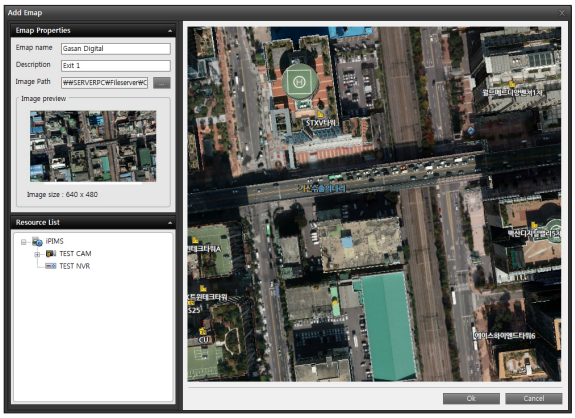
Register E-map

1. Select <**Emap Editor**> in the <**Configuration**> pane of the <**Setup**> tab.
2. Click the [**Add**] button.
3. When "**Add Emap**" window pops up, enter the name and description of E-map.



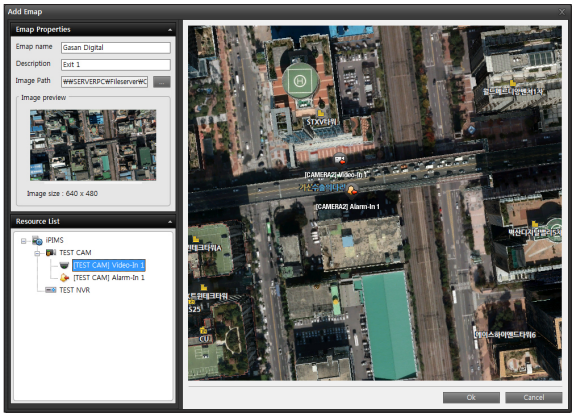
Setting

4. Search for any path where map images are saved, and import any desired images.

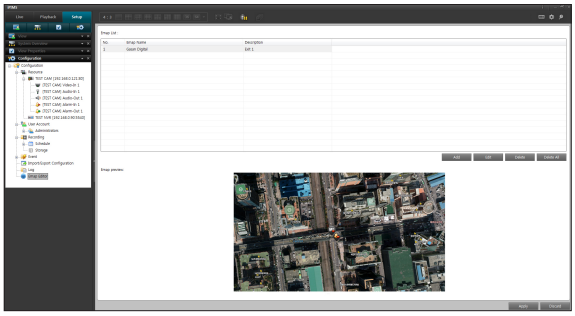


5. In <**Resource List**>, left-click and drag camera and alarm icon to place them at the position where a desired camera is set.

6. Click the [**Ok**] button.

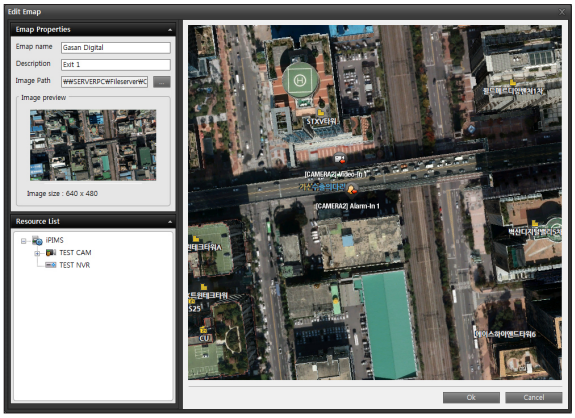


7. Check any new item registered in the list. Then, click the [**Apply**] button.

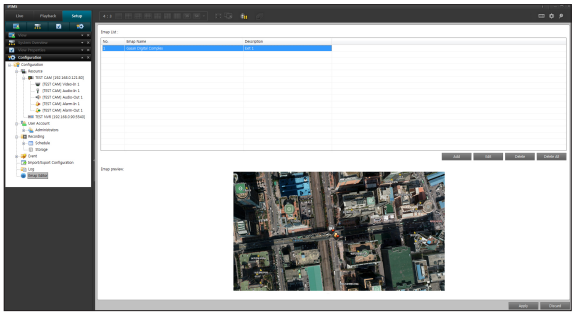


Edit E-map

1. Select <**Emap**> in the <**Configuration**> pane of the <**Setup**> tab.
2. Select an E-map you want to modify in the list. Then, click the [**Edit**] button or double click it.
3. Modify the E-map and then click the [**Ok**] button.



4. Check the E-map List for anything modified. Then, click the [**Apply**] button.



Delete E-map

1. Select <**Emap Editor**> in the <**Configuration**> pane of the <**Setup**> tab.
2. Select any E-map you want to delete from E-maps shown in the E-map List. Then, click the [**Delete**] button.
3. Click the [**Apply**] button.

