The Intelligent Surveillance Solution

User Manual

Ver. 5.0.0.10

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INSTALLATION

The Installation CD contains the software you need to run the complete system. If you are installing the system on multiple PCs, install the appropriate software for each PC:

- Server Application: All functions of systems including Main Console, Playback, Remote Live Viewer, Backup, and Verification Tool.
- Remote Desktop Tool: The tool to access main console and setup configuration remotely.
- **Client:** Client application in device.
- Smart Phone Client: Client application in smart phone device.

The following section describes the installation of each element of the Intelligent Surveillance System.

Step 1: Select Setuptool.exe to start installation.

Step 2: select Next to continue.

- Step 3: Chose Installation Language and select Next to continue.
- Step 4: Chose Installation Mode and select Next to continue.

	itiation Mode - InstallShield Wizard	ſ
	Select Installation Mode Initiation Mode	
1	Standard mode	
	C Express mode	
		•
	nstallShield	
	Next > Cancel	

Step 5: Check the option I accept the terms of the license agreement, select Next to continue.



Customer Information				
Please enter your information	n.			
Please enter your name and	the name of the	company for which	ou work.	
User Name:				
Company Name:				

Step 6: Enter the appropriate information, select **Next** to continue.

Step 7: Choose Complete or Custom setup type.

IP Surveillance	e System - InstallShield Wizard 🛛 🔀
Setup Type	A start of the second s
Select the set	up type to install.
Please select	a setup type.
 Complete 	
1 ¹	All program features will be installed. (Requires the most disk space.)
O Custom	
15	Select which program features you want installed. Recommended for advanced users.
1	
InstallShield ——	< <u>Back</u> Next > Cancel

COMPLETE SETUP TYPE

Installs all program features into the default directory.

Check **Complete**, and then select **Next**. All program features will be installed. [COMPLETE SETUP requires the most disk space.]

CUSTOM SETUP TYPE

Allows you to install the system to a preferred directory and select whichever program feature(s) to install. [Recommended for advanced users]

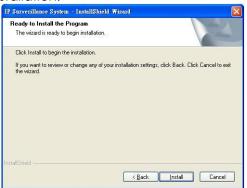
Check **Custom**, and then select **Next**.

Select **Change** if you wish to modify the installation directory.

Select the feature(s) for setup to install, select Next.

IP Surveillance System - InstallShield Wizard	IP Surverillance System - InstallShield Wizard
Choose Destination Location Select folder where setup will install files.	Select Features Select the features setup will install.
Install IP Surveillance System to: C-VProgram Files VP Surveillance System	Select the features you want to install, and deselect the features you do not want to install.
InstallSheldCancel	(Back Next> Cancel

Step 8: Select Install to start the installation.



Step 9: Select Finish, installation complete.



Quick Start

Execute Main Console

Step 1: Go to Start > All Programs > IP Surveillance System > Main Console to execute Main Console.

Step 2: Enter your own password into the edit box and then click on OK.

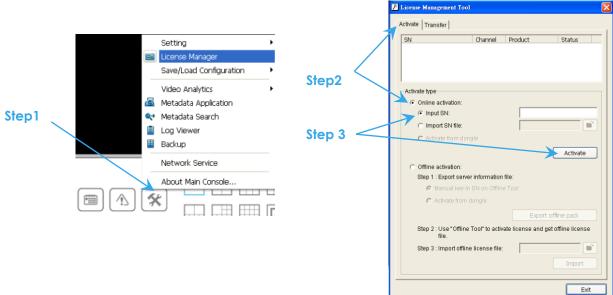
Activate IP Camera License(s)

Step 1: Open License Manager Tool in General Setting menu.

Step 2: Select Activate tab, check the PC in Online network environment.

Step 3: Insert the SN, SN file or dongle to activate license.

Step 4: After software license is activated successfully, please restart Main Console. **Note:** Please refer to Utilities>>License Management Tool for advanced settings.



Install IP camera(s)

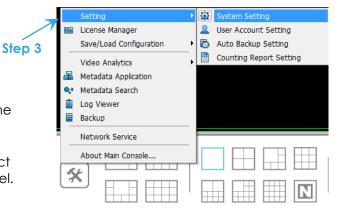
Step 1: Setup the IP camera(s) by referring to the user manual provided by the IP camera manufacturer.

Step 2: Make sure you can access this camera through IE browser.

Step 3: Add the IP camera(s) to the system by following the steps below.

Add IP camera(s)

- Step 1: Execute Main Console.
- Step 2: Type in user name and password and log in to the system.
- Step 3: In Main Console, go to General Setting and select Setting>System Setting to obtain the Setting panel.



Step 4: Go to Camera tab.

- Note: If the IP camera supports UPnP, follow step 5. Otherwise, follow step 8.
- Step 5: Click on Search to detect IP cameras under this local area network (LAN).
 Note: The Search function is available only when the IP cameras support UPnP.
- Step 6: Select one of the IP cameras that are available and enter the username and password.

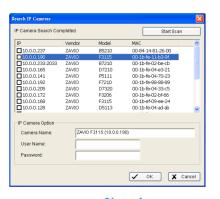
Step 7: Click OK to add the camera.

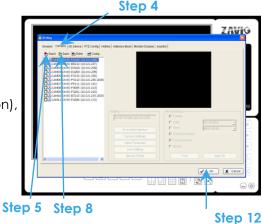
Step 8: Click Insert to insert the IP cameras.

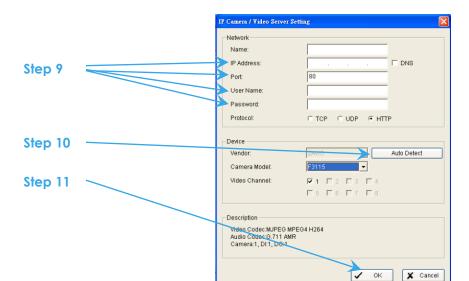
Step 9: Enter the IP address or domain name (check the Use DNS option), Http Port, Username, and Password.

Step 10: Select Auto Detect.

- Step 11: Select OK to add the camera.
- Step 12: Select OK to exit.







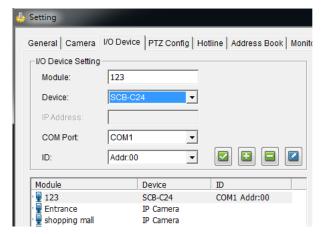
Add I/O box

Main Console supports USB (SCB-C08). Ethernet (SCB-C31A) box converter and all-in-one SCB-A08) I/O box.

Step 1: Execute Main Console.

- Step 2: Type in user name and password and log in to the system.
- Step 3: In Main Console, go to General Setting and select Setting>System Setting to obtain the Setting panel.

Step 4: Go to **I/O Device** tab.



- Step 5: Type in module in **Module** and select device for USB (SCB-C08) I/O converter device: SCB-C24, SCB-C26 or SCB-C28.
- **Step 6**: Select COM port and ID.
- *Note:* COM port and ID information need to use SCB-C08 config tool. Please close Main Console first when setup I/O box converter.

Setting

Step 7: Select OK to go back to Main Console.

For Ethernet (SCB-C31A) I/O box converter:

- Step 1: Execute Main Console.
- Step 2: Type in user name and password and log in to the system.
- Step 3: In Main Console, go to General Setting and select Setting>System Setting to obtain the Setting panel.
- Step 4: Go to I/O Device tab.
- Step 5: Type in module in **Module** and select device for Ethernet (SCB-C31A) I/O converter device: C31A+C24, C31A+C26 or C31A+C28.
- Step 6: Type in C31A IP address
- Step 7: Select COM port and ID.

- General Camera I/O Device PTZ Config Hotline Address Book Monito I/O Device Setting 123 Module: C31A+C • Device: IP Address: COM1 Port: Addr:00 ID: Ŧ Device Module ID SCB-C24 123 COM1 Addr:00 Entrance **IP** Camera shopping mall IP Camera
- *Note:* Port and ID information need to use SCB-C31A config tool. Please close Main Console first when setup I/O box converter.
- Step 8: Select OK to go back to Main Console.

Set Schedule

- Step 1: Execute Main Console.
- Step 2: Type in user name and password.
- Step 3: Select Schedule.
- Step 4: The default schedule is "always record' when a camera is newly inserted.
- Step 5: Choose a camera and then select General Setting or just double click on the schedule bar to modify the recording mode.
- Step 6: Select OK to set the recording schedule.
- Step 7: Select OK to go back to Main Console.

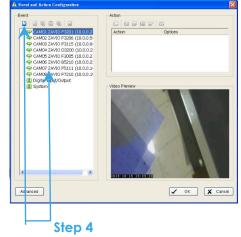


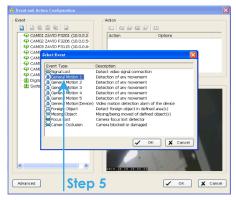


Set Smart Guard

- Step 1: Execute Main Console.
- Step 2: Type in user name and password and log in the system.
- Step 3: Click on Smart Guard Configuration.
- Step 4: Select a camera and then click Insert Event.
- Step 5: Take "General Motion" for example, select General Motion as the event type and then click on OK.
- Step 6: In Alarm Event General Setting panel, define your own detection zone, sensitivity and interval. After that, click on OK to save the configuration.
- Step 7: Click OK to go back to Main Console.



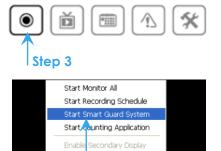






Start Recording & Smart Guard

- Step 1: Execute Main Console.
- Step 2: Type in user name and password and log in the system.
- Step 3: Click on Start.
- Step 4: Click on Start Recoding Schedule and Start Smart Guard System to enable the two functions.



Open Event Report Open E-Map Open Resource Report Open //O Control Panel Lock System Ď

Step 4

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Playback

- Step 1: Execute Main Console.
- Step 2: Type in user name and password and log in the system.

Step 3: Click Playback.

- Step 4: In Playback, Click Date Time Search Dialog.
- Step 5: Select a specific day from the calendar, left Click mouse and drag to select a video clip to replay; user can also select multiple channels to replay at the same time.
- Step 6: The recorded files are now ready to view.



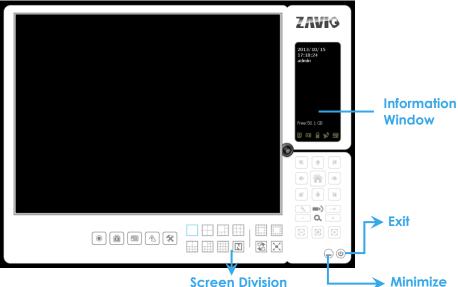
*Support dual playback: If the camera has dual recording. You can click the numeric button near the camera name to switch the 2 recording schedule (thick line) and available recordings (thin line).

1. Main Console

		ZAVIG
		2013/10/15 17:18:24 admin
		Free:56.1 G8
	Ø	
		Note: The second se
m 🔨 🛠		
		\bigcirc $$

This is the main operating system - to activate schedule recording, setup smart guard and General Setting system setting.

1.1 User Interface Overview



Screen Division

Exit:

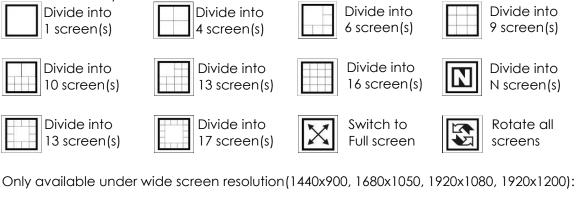
Shut down the Surveillance System or log out current user.

Minimize:

Minimize the Main Console window.

Screen Division:

Allocate the sub-screen display by clicking on the desired layout icon. To switch to single camera display, double click on a particular sub-screen. Double click on the screen again to regain previous screen division layout.





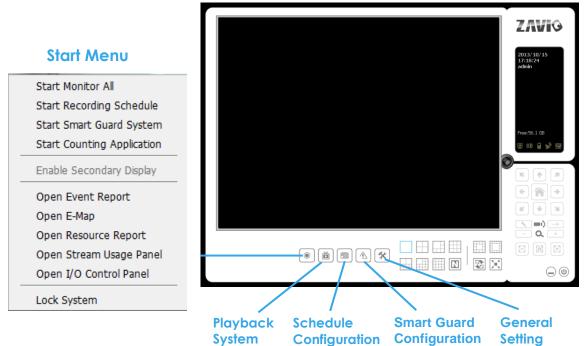
Information Window

Display date, time, free Disk space, IP Camera Bit rate customized text and Further information like Temperature, Fan speed, System Resource and Network Utilization.

5 network service icons indicate which services are switched on/off.

	LiveView	Playback	3GPP	Desktop	CMS
Start	<mark>e</mark> i			V	
Stop	e	D		*	

Note: To customize Information about window's setting, go to General Setting - Setting - General -Status Display. Select Advanced Setting for further information like Temperature, Fan speed, System Resource and Network Utilization.



Start:

Click **Start Menu** and use the drop down menu to activate/ deactivate: (a) Recording Schedule System, (b) Smart Guard System, (c) Counting Application, (d) Adv Intelligent Video Surveillance or (f) Start/Stop Monitor All to activate/ deactivate all the functions at once.

Start Menu include the option to Enable Secondary Display, and run monitor tools, such as run event report to monitor smart guard event; run E-map window to monitor all devices with map indicator; run Resource Report to check system status; run Stream Usage Panel to monitor stream usage status; run IO Control panel to monitor the DI/DO status and manual triggering the DO devices; or lock the system.

Note:

- 1. When activating any of the monitor functions of Smart Guard, system would consider the current screen status as normal. Therefore, if you want to, for example, detect Missing Object, be sure the object needed to be protected is in its position at the moment you click Start button.
- 2. To automatically activate the Recording Schedule System, Smart Guard System and Counting Application, at the Main Console go to General Setting; Setting; General; Startup to setup the auto-startup functions.
- 3. As for Secondary Display, open event report, open E-map window, open Resource Report and open IO controls panel, Main Console will keep the behaviors as the latest status when exiting the system.

Playback System:

Click the icon to get Playback Console. You can watch recorded video, search recorded video, adjust image of the stored data, save video/ pictures, print images, check log information and event records, and set up recording function General Setting. See Playback on page 23 for detail.

Schedule Configuration:

Organize recording time schedule and setup recorder General Setting. See Schedule on page 39 for detail.

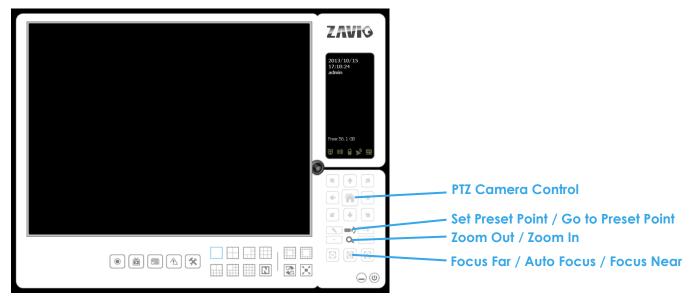
Smart Guard Configuration:

Add/edit type(s) of events that you want to detect; setup action(s) responding to events. See **Smart Guard** on page 45 for detail.

General Setting:

Select from the drop down menu to modify the general settings, user account settings, save/ load General Setting settings, open License Manager, edit counting application and metadata application, access log

viewer and backup files, or setup network services. See General Setting on page 59 for detail. Note: User account and License manager could only be enabled for users with administrator privilege.



1.2 PTZ Camera Control

Control the movement of PTZ cameras. With cameras that support PTZ control, you can move, zoom, patrol, adjust the focus, and set preset points of the cameras.

1.2.1 Set Preset Point / Go to Preset Point

Adjust the camera view until you are satisfied. Click the Set icon and set up the view as the preset point 01. Adjust the camera view again and set up the preset point 02. Repeat the process until finish setting up all preset points. You can enter any names you want instead of the preset point 01, preset point 02, preset point 03..., Click the Go icon and view the result of your setting.

Note: For the speed settings of PTZ camera, go to General Setting – Setting - PTZ General Setting to setup the advanced settings.

1.2.2 Zoom

Click on the + and - signs to zoom in and zoom out the view.

1.2.3 Focus

You can select to have the camera focused near or far. Click **Focus Near** to focus on objects closer to the camera. Click **Focus Far** to focus on objects further away from the camera. Click **Auto Focus** if you want the system to decide the focus point for you.

1.2.4 Patrol

Go to Set Preset Point - Set Patrol to obtain the Patrol Setup dialog. From the left window, select the cameras that you would like to have in the patrol group. Align the cameras in order in the right window and adjust the time. Rename the group name if required. After completing the setup, check the Active option, and then click OK.

Note: You can define up to four groups of auto patrol. To start or stop, Click Go to Preset Point in the Main Console, and select Start Patrol or Stop Patrol.

	-	Group 1 Group 2 Group Croup Name : Group	
		Period: -j	5 Sec
	>		

1.3 On Screen Menu

Right Click the camera screen and get the On Screen Menu, from which you can quickly adjust the setting of camera.

1.3.1 Camera Setting

Click to go to the camera setting page for configuration. See page 100 for details.

1.3.2 Enable Talk

*This feature is not available under Lite License.

With cameras that support two-way audio, select enable talk to utilize the function.

1.3.3 Enable Digital PTZ

To enable the PTZ functions of the camera, select the Enable digital PTZ option. Use mouse wheel or click on the + and – signs to zoom in and zoom out on the camera, or drag a rectangle to enlarge the area.

The square flashing on the video grid indicate the correspondent view ratio of the camera.

1.3.4 Connect/ Disconnect

Right click on the display screen and select Connect/ Disconnect to modify the connecting status of the camera.

1.3.5 Show Camera

Select the camera from the Show Camera Menu to display video on selected screen. **Note:**

- 1. The camera list of show camera menu shows as the one in the right column of monitor display panel.
- 2. The change of displayed screen is only applied to the current display divisions.

1.3.6 Delete Camera

Click Delete Camera to remove a camera from the display screen of the display screen. **Note:**

- 1. The camera list of delete camera menu shows as the one in the right column of monitor display panel.
- 2. The settings will apply to all divisions and also the right column of monitor display.

1.3.7 Fix Aspect Ratio

For some special camera resolution, user can enable Fix Aspect Ratio to view original ratio video, or disable this option to stretch 3:4 to fit window.

1.3.8 Instant Playback

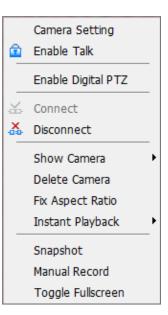
*This feature is not available under Lite License.

To open the Instant Playback window of the camera, select the Instant Playback option and choose the period. Refer to 1.5 Instant Playback section for detail.

1.3.9 Snapshot

Select the snapshot function to capture a specific video image frame immediately. You have the options to copy the image to clipboard or to save it. For further settings, select OSD option and metadata option to export the image with date/time, camera number/name and metadata text. If the digital PTZ function is enabled in display view, you can also decide Full Size or Selected Region as your snapshot region.





1.3.10 Manual Record

Start recording video by selecting manual record.

1.3.11 Toggle Full screen

Select to view a specific channel with full screen. Press "ESC" to go back to original window.

1.3.12 Enable Move/Area Zoom

With cameras that support PT function, click the Enable Move function to adjust the current camera's view by clicking on the display screen. To cancel this function, right Click the screen and select Disable Move. With cameras that support Area Zoom function, click the Enable Move/Area Zoom function to adjust the current camera's view by dragging a rectangle on the display screen. To cancel this function, right Click the screen and select Disable Move/Area Zoom.

1.3.13 Duplicate Camera

Select the camera from the Duplicate Camera Menu to duplicate camera video to selected screen. **Note:**

- 1. The duplicated camera would add to the camera list of duplicate camera menu shows as the one in the right column of monitor display panel.
- 2. The change of display list will apply to all divisions and also the right column of monitor display.

1.4 Live Display

Live display is flexible; you may change channels and screen divisions. Each screen division shares the same display list but has an independent display sequence.

For example, when using Show/Duplicate/Delete Camera functions to edit your camera list, the same list will be available to all different screen divisions.

Note: This camera list is also available at the monitor display tab from the General Setting/Setting window. Two monitors can have two independent lists.

Action	Current division	Other division
Show camera (add cam 1)	1	add to first free channel
Duplicate camera (duplicate cam 2)	1 2 2"	add to first free channel
Delete camera (delete cam 2'')	12	remove cam 2" and keep channel free

When using a mouse to drag and drop camera channels, the sequence change will only apply to the current division.

Original	Action	Current division	Other divisions		
1 2 3 4	Drag cam 1 to cam 4	4 2 3 1	Note change of sequence		

Right click on the camera screen for the on screen menu. Here you will be able to quickly adjust settings of your camera.

1.5 Instant Playback

* not available under Lite License

Instant Playback function allows you to play the last few minutes of any live video channel. Simply right click on Live Channel and select Instant Playback to access the recorded video.

1.5.1 Instant Playback window overview



Information Window: will show correct date and time of video.

Playback Period: indicates the available play period; three options are available: 30 sec, 1 min, 3 min, 5 min, 10 min, 15 min 30 min or customized of video.

Select Record: If the channel has dual recording, you can play Reocrd1 / Record2 in the dropdown menu. Export Period: indicates the period of video you desire to export. Default is set as available play period.

Adjust to original video resolution button: Press to adjust the video to original video resolution.

Audio button: Press to turn on / off the audio.

Metadata button: Press to enable / disable Metadata transaction overlay.

1.5.2 The navigation of Instant Playback

The Instant Playback window allows you to browse recorded video, take snapshot images and export video with audio and POS transaction data.

To browse recorded video:

Simply click on the timeline to view the video, or use these navigation tools to control the player:



Tool:

Play / Pause / Stop



- Slow motion / Speed up control



44

- Reverse [frame by frame] / Fast Forward



To take snapshots of a video clip:

Pause the video in image which you want to export and click the snapshot button . The snapshot is displayed and can be saved or copied to clipboard.

To export recorded video:

Select export period, click the export button 🛃, and setup the options of exported video.

The default export video period is as playback period. To customize period, select start/end time and Click Cue In/Out from the drop-down list of solution, the export period will be shown on the lower-left corner of the window.

Export Formats include:

- ASF Format with best efficiency. [Recommended]
- AVI (Microsoft Video1) Supports Windows Media Player with Vista & XP, the quality may be poorer than recorded video by transcode.
- AVI (Original Format) faster export process, better quality on the recorded video but the export file uses VLC Player to play. (For Windows Media Player, please install additional FFDShow codec).

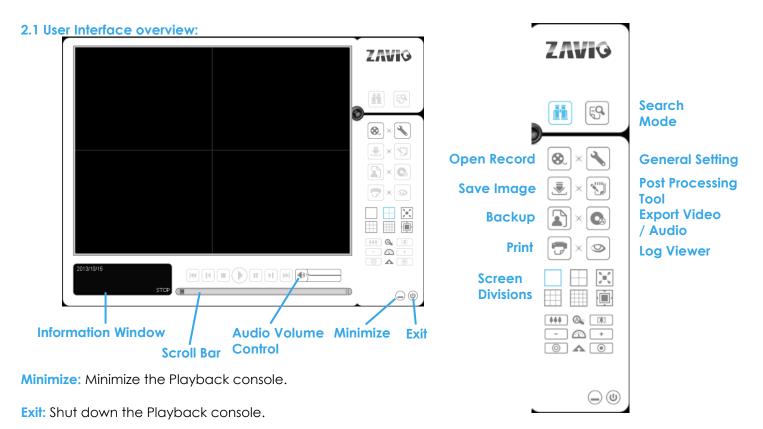
Note:

- The restrictions of AVI format.
- a. The maximum size of an AVI file is limited to 1.8 GB.
- b. Variation of frame rate will cause the resulting video to play slower or faster.
- If the selected video sequence uses multiple image resolutions (CIF, 2CIF, 4CIF, etc.) or multiple video format (MPEG-4, M-JPEG, H.264), the exported video sequence will create separate export files every time the resolution changes.

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2. Playback

Watch the recorded video, view and/or search for unusual events and recorded system information.



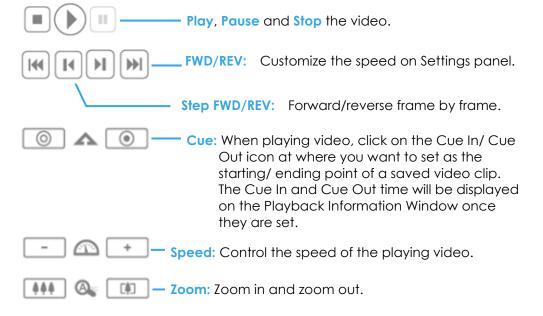
Scroll bar: Indicates the status of the playing video; drag it to where you want to review.

Information Window: Display time and date, video status, cue in/ out time points and video playback speed.

Audio Volume Control: Adjust the audio volume.

Screen Division: Allocate the sub-screen display by clicking on the desired layout icon. To switch to single camera display, double click on a particular sub-screen. Double click on the screen again to go to previous screen division layout. To view in the full screen mode, right click on the screen for the Toggle Full Screen function.

Control:

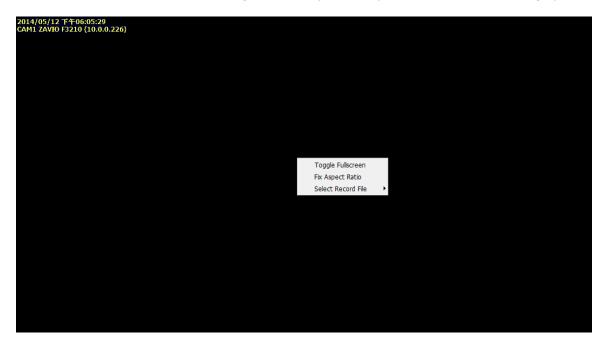


On Screen Menu:

Toggle Fullscreen: Select to view cameras under full screen. Press "Esc" or right click to go back to original view.

Fix Aspect Ratio:For some special camera resolution, user can enable Fix Aspect Ratio to view original ratio video, or disable this option to stretch 3:4 to fit window.

Select Record File: If the camera has dual recording. You can click the numeric button near the camera name to switch the 2 recording schedule (thick line) and available recordings (thin line).



2.2 Brows Recordings / Date Time Search Dialog

Click the **Date Time Search Dialog** button to access the Date-Time Panel and withdraw the video record that you want to review.

2.2.1 Date Time Panel

🔓 - 🧬 🔞 🛒 🔘 🔘	Event Color Disp	lay Settings	Video Preview	07:04:06
◆ 十一月 2013 ◆ 27 28 29 30 31 1 2 ③ 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 ♥ 1 2 3 4 5 6 7	Color	Event Type General Motion General Motion(De Foreign Object Focus Lost Camera Occlusion		
Show Recording Schedule Show Event Log tart time: 2013/11/08 11/08 11/08	07:04:00	End time: 2013/11/08	. 0754.00	14 15 10
Camera 1	2 3		9 10 11 12 13	14 15 18,0
Camera 2 Camera 2 Camera 3 Camera 4 Camera 4 Camera 5				

2.2.2 Record Display Window

The record display window shows the information of the available video clips. It may show in calendar or list control view. For further details about how to modify the record display window view, see page 36.

- Remote Server Site: Open Remote Playback Site Management to access local machine or set up remote playback server. Select Folder option to directly access recorded data folder or use Recent List to access previously recorded folders.
 - Note: the Select Folder option requires password of Main Console.

Refresh: refresh display window 🖾 Log Viewer: Accesses Log

Viewer Tool 📓 To access POS Search Tool 🎑 Previous Days: Show recording of previous date

Next Days: To show recorded of next recording date

2.2.3 Date Time Period

Select the start and end time points that indicate the time period you would like to view.

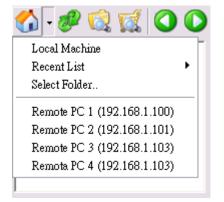
2.2.4 Video Preview

Check the enable preview option to view the selected video.

2.2.5 Event Type

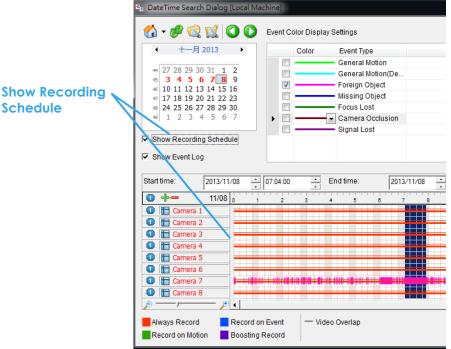
There are 6 event types; see Chapter 4 - Guard for details. You may set up different colors for different event types to help you select events.

* Note: Some event types will not be available under Lite License.

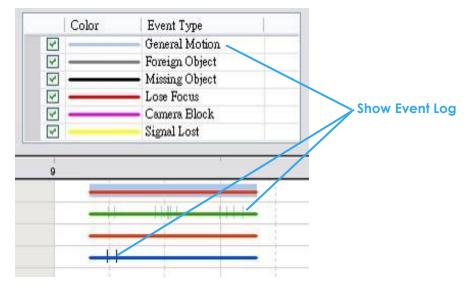


2.2.6 Time Table

- Utilize the icon to select all channels; also utilize the icon to deselect all channels. Finally, utilize the scale bar
 to modify the scale of the time table.
- Video records are displayed as a thin line on the time table. Check **Show Recording Schedule** to show the defined period for scheduled recording. It is shown as a thick line in colors according to recording mode.



Selecting Show Event Log makes Time Table show the time of event detection like below:



2.2.7 Withdraw the Record

Step 1: From the record display window, top left of the Date Time Panel, select the date you want to withdraw the record from. The red/purple/green/blue lines shown on the time table indicate available recorded video records.

Note: The record display window can be shown in (a) calendar view or (b) list control view. To modify the setting of the record display window, click the Setting button at the right of the Playback Console.

Step 2: Use color bars to differentiate event types from each other. This will help you select video clips.

- Step 3: Highlight the video clip you want to review by left-clicking and dragging the time period. You may also utilize the Start Time and End Time in Date Time Period Section. In addition, modify the scale of the time table with the + and signs on the bottom left.
- Step 4: Check the Enable Preview option to get the preview of the video you select.
- Step 5: Click the camera name to increase or decrease cameras you want to playback.

Step 6: Click **OK** when setting is complete.

2.3 Search Mode

Click the **Search Mode** icon to obtain the Intelligent Search Tool panel. * This feature is not available under Lite License.

- Intelligent Search Tool Panel: Click on the **Search Mode** icon to open the Intelligent Search Tool. Set up unusual events here to detect abnormality that occurred during the recorded period.
- <u>5 events:</u> General Motion, Foreign Object, Missing Object, Lose Focus, and Camera Occlusion.

2.3.1 Unusual Event-General Motion

- General Motion: Detect all movements in the defined area.
- Define Detection Zone: Left click and drag to draw a detection zone. You may define more than one zone on the screen by repeating the process.
- Sensitivity: Modify the sensitivity setting with the slider. Sliding rightwards will increase the sensitivity level, meaning the slightest movement will trigger the alarm; in contrast, sliding leftwards will reduce the sensitivity for movement detection.

Note: General Setting an appropriate sensitivity level reduces the possibility of a false alarm. For instance, you can lower the sensitivity level to avoid the alarm being triggered by a swinging tree in the breeze.

• Interval: Move the slider control to the right to increase time interval so that the alarm will only be triggered when the movement lasts longer. Move to the left to reduce the time interval.

Smart Search	x
Alarm Event Type	
General Motion	T
Sensitivity:	
Interval:	· · / · ·
Region Definition	
Of Define detection z	one
C Define object size	
All	Clear
✓ Draw Region✓ Stop when found	
Search	Stop

• Stop When Found: Check the option to have the video stop where motion was detected. Uncheck to have video continuously run to detect all events available. Results will show in a search result box. Click the listed event in the box to jump to the point in the video where motion was detected. was detected.

2.3.2 Unusual Event-Foreign Object

- Foreign Object: Detect any additional object appearing in the defined area on the screen.
- Define detection zone: Left click and drag to draw a detection zone. The search tool will detect additional objects that appear in this zone.
- Define object size: Click and drag to draw and define the size of a foreign object.

- Sensitivity: Modify the sensitivity setting with the slider. Sliding rightwards will increase the sensitivity level, while sliding leftwards decreases it.
- Interval: Click and move the slider control to the right to increase time interval so that the alarm will only be triggered when the object has been removed from the area for longer. Move to the left to reduce the time interval.

Note: Setting up an appropriate Interval value will reduce the chance of false alarms. For example, you can lower the Interval to avoid the alarm being triggered by a pedestrian.

2.3.3 Unusual Event-Missing Object

- Missing Object: Detection of selected objects removed from the defined area on the screen.
- Define detection zone: Left click and drag to draw a detection zone. The search tool will detect selected objects removed in this zone.
- Sensitivity: Modify the sensitivity setting with the slider. Sliding rightwards will increase the sensitivity level, while sliding leftwards decreases it.
- Interval: Click and move the slider control to the right to increase time interval so that the alarm will only be triggered when the movement lasts longer. Move to the left to reduce the time interval.

2.3.4 Unusual Event- Focus Lost / Camera Occlusion

- Focus Lost: Detection of cameras losing focus in recorded video.
- Camera Occlusion: Detection of cameras being blocked in recorded video.

2.4 Enhancement / Post Processing Tool

Click Enhancement / Post Processing Tool 12 to General Setting settings.

2.4.1 General Setting

Check the option and chose whether you want to apply the setting to all the channels or only to those currently shown on the screen.

2.4.2 Filter Setting

- Visibility: adjust the gamma value of the image to enhance the image and make it cleaner.
- Sharpen: activate the function. Move the slider control to the right to sharpen the image, to the left to soften it.
- Brightness: activate the function. Move the slider control to the right to make the image brighter.
- Contrast: activate the function. Move the slider control to the right to increase contrast.
- Grey Scale: show the record in grey scale mode so the image displays in black and white.

2.5 Save Video

Step 1: Click on the display screen to choose the camera display that you want to save as a video clip.

- Step 2: Set up the cue in and cue out points; the cue in and cue out time will show on the information
 - window.



name and click SAVE.



Step 3: Click the Save Video button choose the folder where you want to save the file at, enter the file

Export Video/Audio

Export File Path

Export Format:

Use Profile:

Start Time:

End Time:

Export Audio

Export OSD

Export Metadata Transaction

Date Time Period

Windows Media Video 8 for Local Area Network (384 Kbps)

2013/11/08 - 18:04:45

2013/11/08 🕂 18:10:41

🗸 OK 🗶 Cancel

ASF

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Step 4: Set the Export Format (ASF recommend) and set the Use Profile.

- ASF more efficient than AVI format. [Recommended] format]
- AVI (Microsoft Video 1) Supports Windows Media Player with Vista & XP, quality may be poorer than recorded video by transcode process.
- AVI (Original Format) Faster export process with high quality video, but the export files can only be viewed using VLC Player to play. (For Windows Media Player, please install additional FFDShow codec).

Note:

- The restrictions of AVI format:
 - a. The maximum size of an AVI file is limited to 4 GB.
 - b. Variation of frame rate will cause the resulting video to play slower or faster.
- If the selected video sequence uses multiple image resolutions (CIF, 2CIF, 4CIF, etc.) or multiple video format (MPEG-4, M-JPEG, H.264), the exported video sequence will create separate export files every time the resolution changes.

Step 5: Select to export (i.e. save) the recorded video with Audio, OSD and Metadata, or export video only.

Step 6: Click OK to save the video.

2.6 Save Image

Step 1: Click on the display screen to choose the camera display from which you want to save pictures.

- when the image you want is shown on the screen. You may Step 2: Click on the Save Image button click Pause to freeze the video, use Step Forward/ Step Backward function to find the picture(s) that you want to save.
- Step 3: Select OSD option and Metadata option to export the image with date/time, camera number/name and Metadata text. If the digital PTZ function is enabled in display view, you can also decide either Full size or Selected Region as your image region.
- Step 4: You have the options to copy the image to clipboard or to save it. To save image just choose the folder and the format of image (BMP or JPEG) you prefer and then click save. **Note:** You may skip step 3 by pre-setting a folder and format that you want to save the images (refer the section automatically save the image file at page 37.)



2.7 Print

Click the **Print** button video you choose.



to print the current image of the

Print Content:

Print the image from the current selected channel or all the channels shown on the screen. Select to print original view or selected region on camera.

Page Setting:

Set to print the image with original size or fit to page. Set Align image to Top, Center, or Bottom.

2.8 Backup

Compared to the Save Video function, Backup saves everything from the Playback panel, including video and log information.

You can start a full function Playback Console and load the backup files into it on any PC with Windows operating system. This means you may monitor the real time video and work on the backup files on separate computers simultaneously.

Step 1: Press the Open Record to select data and press Backup

Step 2: You can adjust the Start Time and End Time you want to backup.

Step 3: You can adjust the Cameras you want to backup.

Step 4: You can calculate the size of the backup data.

Step 5: Select the directory you want to save the backup data including CDROM, DVD or Hard Disk.

Backup Dialog

Step 6: Check the log you want to backup.

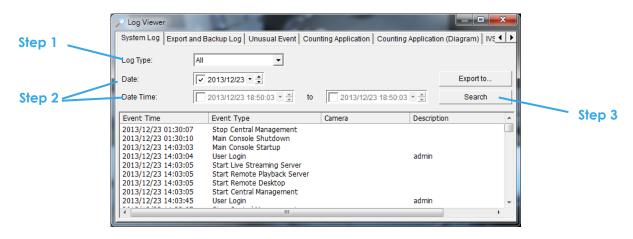
Step 7: Press OK to start.		-Date Time Period Start Time: End Time:	2013/10/17 ÷			— Step 2
Step 8: After backup is complete, Click playback.bat to play the recordings	Step 3 Step 4	 Select Camera(s) 1-16 17-32 33-48 45 X 1 ✓ 2 X 3 3 X 8 X 10 X 11	9-64 × 4 × 6 × 6 × × 12 × 13 × 14 ×	7 🗙 B 15 🗙 16		
	Step 6	 Calculate Size Media C Backup using CDROM C Backup using DVD E Backup on HardDisk Coption Backup Event Log Backup System Log Backup System Log Backup Counter Log Backup Metadata Trans Backup Adv, MS Countir		Deselect All		· Step 5
	Step 7	 Backup IVS Event Log	✓ ок	🗶 Cancel	J	

😓 Print Setup	\sim
Print Content Select channels : Print active channel image Print all channels in the current view Select printed region of images Original	v
Selected region	
Page Setting	Тор
	Print X Cancel

2.9 Log Viewer

Click the Log Viewer button 🖄 to activate the Log Viewer dialog.

2.9.1 System Log



✓

Select Log Type from the drop-down menu. There are in total 37 types of log types, including:

- ✓ Main Console Startup
- ✓ Main Console Shutdown
- ✓ User Login
- ✓ User Login Failed
- ✓ Start Schedule
- ✓ Stop Schedule
- ✓ Execute Recycle
- ✓ Enable Channel
- ✓ Disable Channel
- ✓ Start Smart Guard
- ✓ Stop Smart Guard
- ✓ Modify Smart Guard
- ✓ Modify Schedule
- ✓ Modify General Setting
- ✓ Start Live Streaming Server
- ✓ Stop Live Streaming Server
- ✓ Modify Live Streaming Server
- ✓ Start Remote Playback Server
- ✓ Stop Remote Playback Server

- Modify Remote Playback Server
- IP Camera Connection Lost
 - Restart Windows
 - Modify Metadata Setting
 - Metadata Connection Lost
 - Modify E-Map
 - Start Remote Desktop
 - Stop Remote Desktop
- Modify Remote Desktop
- Start Central Management
- Stop Central Management
- Modify Central Management
- Start Counting Application
- Stop Counting Application
- / IP Camera Connection Regained
- Sync. Microsoft Active Directory User
- ✓ IP Camera Parameter Changed
 - Úpdate Metadata Plug-in

*Note: Some event types will not be available under Lite License.

- Step1: Choose the type of event you want to check or select "All" from the drop-down menu for all types of events.
- Step 2: View the events that happened on a particular date or during a given time period by selecting search period.

For a particular date: check the **Date** box and indicate the date.

For a period: check the **DateTime** and then enter specific date and time.

Step 3: Click Search.

2.9.2 Export and Backup Log

View the Export and Backup Log history that had been operated by local or remote user.

Step1: Choose the type of event you want to check or select All from the drop-down menu for all types of events.

🔑 Log Viewer											_ 🗆 🔀
System Log Export and Backup Log Unusual Event Counting Application Counting Application (Diagram) Metadata Log											
Log Type: All											
Date: 2010/01/25 * 📮											
Date <u>T</u> ime:	2010/01/25 18	47 💌 🔺	to 🗌 201	0/01/25 18:47 💌 🚔							Search
Event Time	Event Type	Success	Username	Start Time	End Time	Length	Camera Index	File Path	DB	Audio	
2010/01/25 18:35:05 2010/01/25 18:35:46	Export Video Backup	Yes Yes	admin admin	2009/07/06 17:43:17 2009/07/06 17:43:17	2009/07/06 17:43:28 2009/07/06 17:43:28	Odays 00:00:11.000	3 2,5	C:\Documents and Set D:\NUUO\sw\Dorcus26	2	No N/A	
2010/01/25 18:36:24	Backup	Yes	admin	2009/07/06 17:43:17	2009/07/06 17:43:28	Odays 00:00:11.000	2,3,4,5	C:\Documents and Set	2	N/A	

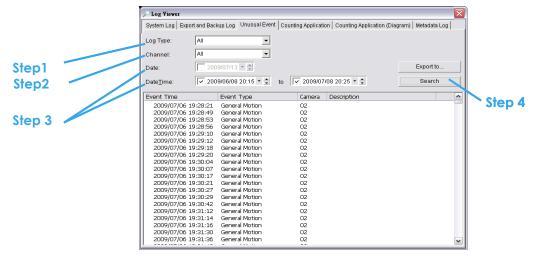
Step 2: View the events that happened on a particular date or during a given time period by selecting search period.

For a particular data: check the **Date** box right and indicate the date. For a period: check the **Date Time** and then enter the date and time.

Step 3: Click Search

2.9.3 Unusual Event

View the unusual event history that had been detected by the Smart Guard System.



Step1: Choose the type of events you wish to view or select "All" from the drop-down menu to view all types of events. The types of Unusual Event include General Motion, Foreign Object, Missing Object, Focus Lost, Camera Occlusion, Signal Lost, Disk Space Exhausted, System Health Unusual, Digital Input Triggered and General Motion (device).

* Note: Some event types will not be available under Lite License.

- Step 2: Choose the camera channel you wish to view or select All for all channels available.
- Step 3: View the events that happened on a particular date or during a given time period by selecting search period.

For a particular date: check the **Date** box right and indicate the date.

For a period: check the **Date Time** and enter the specific date and time.

Step 4: Click Search.

Note: When working with a video record,

- 1. Log Viewer will search for Unusual Event in the video record in Date & Time mode, starting from the beginning to the end of the record, which is the default setting of the system.
- 2. A link (^(CP)) will appear next to each event time where video is available. By clicking on the link, the video will jump to the point where the unusual event takes place.

2.9.4 Counting Application

Display the history of Counting Application during a given time period. * This feature is not available under Lite License.

System Log Export and	Backup Log Unusual	Event Counting Applicatio	n Counting /	Application (D	iagram) Iv 🖣	•
Channel: All	•					
Date: 🔲 2007/09	0/26 💌 🌩				Export to	
Date&Time: 🔲 2007/09	0/26 13:31 ▼ 🚔 to 👖	2007/09/26 13:31 👻 🚔			Search	(meneral
Event Time	Channel	In	Out			
	Channel Camera 3	In 14	Out 13			Step
Event Time 2007/07/25 19:00:00 2007/07/25 19:30:00						Step
2007/07/25 19:00:00	Camera 3	14	13			Step
2007/07/25 19:00:00 2007/07/25 19:30:00 2007/07/25 19:32:42 2007/07/27 11:30:00	Camera 3 Camera 3 Camera 3 Camera 3	14 0 0 4	13 4 0 2			Step
2007/07/25 19:00:00 2007/07/25 19:30:00 2007/07/25 19:32:42 2007/07/27 11:30:00 2007/07/27 12:00:00	Camera 3 Camera 3 Camera 3 Camera 3 Camera 3	14 0 0 4 5	13 4 0 2 6			Step
2007/07/25 19:00:00 2007/07/25 19:30:00 2007/07/25 19:32:42 2007/07/27 11:30:00 2007/07/27 12:00:00 2007/07/27 12:30:00	Camera 3 Camera 3 Camera 3 Camera 3 Camera 3 Camera 3	14 0 4 5 4	13 4 0 2 6 4			Step
2007/07/25 19:00:00 2007/07/25 19:30:00 2007/07/25 19:32:42 2007/07/27 11:30:00 2007/07/27 12:00:00	Camera 3 Camera 3 Camera 3 Camera 3 Camera 3	14 0 0 4 5	13 4 0 2 6			Step

Step1: Select the channel you want to check or select All from the drop-down menu for all channels.

Step 2: Select search period. View the events that happened on a particular date or during a given time period by selecting search period.

For a particular date: check the **Date** box right and indicate the date.

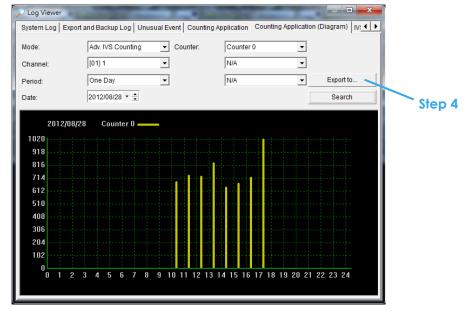
For a period: check the **Date Time** and then enter the date and time.

Step 3: Click Search.

- Step 4: Press the button Export to.
- Step 5: Type the file name and choose the file format (.xls or .txt).

2.9.5 Counting Application (Diagram)

Display the Counting Application data in diagram format. ** This feature is not available under Lite License.



Step 1: Select the channel you want to check or select All from the drop-down menu for all channels.

Step 2: From the drop-down menu, set up how you would like the diagram to be displayed. You have the options of one day, one month, or one year.

Step 3: Select a specific date to make it the start point of the diagram.

Step 4: Click Search.

- Step 5: Press the button Export to.
- Step 6: Type the file name and the file will save as BMP files..

2.9.6 Metadata Log

View Metadata Log history detected by the Smart Guard System.

* This feature is not available under Lite License

Log Viewer	p Log Unusual Event Counting Application Counting Application	(Diagram) Metadata Log
Export and Backu Log Type: Metadata:	p Log Unusual Event Counting Application Counting Application Open Cash Drawer All Transaction Start	(Diagram) melaluala Lug 🔍 🖡
Date: Date Time:	Transaction End Open Cash Drawer Connection Lost User Defined Event Rule 1 to	Export to
Event Time	User Defined Event Rule 4 User Defined Event Rule 5	escription Step 5
	User Defined Event Rule 6 User Defined Event Rule 7	

- Step1: Choose the type of events you wish to view or select All from the drop-down menu to view all types of events. The types of Unusual Event include Transaction Start, Transaction End, Open Cash Register, Connection Lost, and Special User Defined Event. Please refer to the User manual of Metadata Plugins for detail.
- Step 2: Choose the camera channel you wish to view or select All for all the channels available.
- Step 3: View the events that happened on a particular date or during a given time period by selecting search period.

For a particular date: check the **Date** box and indicate the date.

For a period: check the **Date Time** and then enter a specific date and time.

- Step 4: Click Search. A link () will appear next to each event time where video is available. By clicking on the link, the video will jump to the point where the unusual event takes place.
- Step 5: Press the button Export to.

Step 6: Type the file name and choose the file format (.xls or .txt).

2.9.7 Export and Backup Log

View the Export and Backup Log history that had been operated by local or remote user.

🔑 Log Viewer											_ 🗆 🛛
Unusual Event Syste	m Log Counting	Application	Counting Appl	ication (Diagram) POS Li	g Export and Backup Lo	pg					
Log Type:	All	-									
Date:	2010/01/25 -	•									Export to
Date <u>T</u> ime:	2010/01/2518	47 💌 🔺	to 201	0/01/25 18:47 💌 🏝							Search
Event Time	Event Type	Success	Username	Start Time	End Time	Length	Camera Index	File Path	DB	Audio	
2010/01/25 18:35:05 2010/01/25 18:35:46 2010/01/25 18:36:24	Backup	Yes Yes Yes	admin admin admin	2009/07/06 17:43:17 2009/07/06 17:43:17 2009/07/06 17:43:17	2009/07/06 17:43:28 2009/07/06 17:43:28 2009/07/06 17:43:28	Odays 00:00:11.000 Odays 00:00:11.000 Odays 00:00:11.000	3 2,5 2,3,4,5	C:\Documents and Set C:\Documents and Set C:\Documents and Set		NO N/A N/A	

- Step1: Choose the type of event you want to check or select All from the drop-down menu for all types of events.
- Step 2: View the events that happened on a particular date or during a given time period by selecting search period.

For a particular data: check the **Date** box right and indicate the date.

For a period: check the **Date Time** and then enter the date and time.

Step 3: Click Search and get the results.

2.9.8 Export

You may export the file to .xls or .txt file

System Log Export a	nd Backup Log Unusual Event	Count	ting Application Counting	Applicat	ion (Diagram) M 🛃 🕨	
Log Type:	All					
Date:	2013/01/28 •				Export to	
Date Time:	2013/01/28 15:59:25 🔻 💌	to	2013/01/28 15:59:25	* <u>*</u>	Search	Step 1
Event Time	Event Type		Camera	Descrip	tion	
2013/01/28 15:38:19 2013/01/28 15:38:40 2013/01/28 15:39:58 2013/01/28 15:40:50 2013/01/28 15:40:54 2013/01/28 15:40:54 2013/01/28 15:40:59 2013/01/28 15:40:59 2013/01/28 15:44:03	Main Console Shutdown Main Console Startup User Login Enable Channel Enable Channel Modify Configuration Start Schedule		1 2 3	admin CAM1 CAM2 CAM3		
2013/01/28 15:49:07	Stop Schedule					

Step1: Select Export to.

	D1	▼ f _x								
	A	В	C	D	E					Console Startu
1 E	EventTime	EventType	Description							Login, admin
2 2	2007/09/12 00:45:41	Main Console Startup				200	07/09/12	01:11:10,	Main	Console Shutdo
3 2	2007/09/12 00:45:44	User Login	admin			200	7/09/12	01:27:04,	Main	Console Startu
		Main Console Shutdown								Loqin, admin
5 2	2007/09/12 01:27:04	Main Console Startup								Console Shutdo
6 2	2007/09/12 01:27:05	User Login	admin							Console Startu
	2007/09/12 01:28:27	Main Console Shutdown								Login, admin
8 2		Main Console Startup								
		User Login	admin							Console Shutdo
	2007/09/12 15:07:04	Main Console Shutdown								Console Startu
		Main Console Startup								Console Shutdo
	2007/09/12 15:08:40	Main Console Shutdown								Console Startu
	2007/09/12 15:08:54	Main Console Startup				200	07/09/12	15:09:01,	Main	Console Shutdo
		Main Console Shutdown				200	07/09/12	15:14:11,	Main	Console Startu
	2007/09/12 15:14:11	Main Console Startup								Console Shutdo
		Main Console Shutdown								Console Startu
		Main Console Startup								Console Shutdo
	2007/09/12 15:15:20	Main Console Shutdown								Console Startu
		Main Console Startup								
		Main Console Shutdown								Console Shutdo
	2007/09/12 22:51:57	Main Console Startup								Console Startu
		Main Console Shutdown								Console Shutdo
	2007/09/12 22:52:14	Main Console Startup	admin							Console Startu
		User Login Main Console Shutdown	acunin			200	07/09/12	22:52:18,	User	Login, admin
		Main Console Shutdown Main Console Startup				200	07/09/12	22:52:24,	Main	Console Shutdo
		Main Console Startup				200	7/09/12	22:53:19.	Main	Console Startu
14 4	► ► SvstemLog /					1222				
		vle						.TXT.		
		.713								

Step2: Type the file name and choose the file format, .xls or .txt.

2.10 Setting

Click the General Setting button

and go to Setting for system General Settings.

Record Display setting:

- Calendar View: Choose to display records under calendar view.
- List Control: Choose to display records under checklist.

 七月 2009 28 29 30 1 2 3 4 36 7 8 9 10 11
28 5 6 7 8 9 10 11
28 12 13 14 15 16 17 18 30 19 20 21 22 23 24 25 31 26 27 28 29 30 31 1 32 2 3 4 5 6 7 8

- 🟠	P 🜏	Q.	C
- R	ecord Da	ite	
	2009/0	17/19	
	2009/0	17/17	
	2009/0	17/16	≡
	2009/0	17/15	
	2009/0	17/14	
	2009/0	17/13	
	1 2009/0	17/12	~
1 1	-		_

Record Display		
Calendar View	C List Control	
Play		
Play when open		
🔽 Auto skip when record mo	otion only mode	
Next interval:	1 imin	
Previous interval:	1 ÷ min	
Capture Image	·	
Capture image		
 Manually save the image 	file	
Automatically save the important of t	age file	
	1	
Preferred Image format:	bmp 💌	
Miscellaneous		
🔲 Synchronize video frames	3	

Play setting:

- Play when open: Check the option and set the system to start playing the video clip every time a record is withdrawn.
- Auto skip when record motion only mode: Check the option to set up the system to automatically skip to the points where there were motions recorded.
- Next interval: Set the interval with which the video goes forward when you click on the "Next" icon on the control panel.
- Previous interval: Set the interval with which the video goes backward when you click on the "Previous" icon on the control panel.

Capture Image setting: Sets how you want to save the image.

- Save in clipboard: The image will be saved in the clipboard; image will be available to paste elsewhere.
- Manually save the image file: You can manually select where you want to save the image. Name the saved file, and choose the file format you want to save as.
- Automatically save the image file: By pre-setting a path/URL and the image format, the system will automatically save the image accordingly when you click the Save button in the control panel.

Miscellaneous

• Synchronize video frames: Select this option to avoid display problems that may occur under high CPU loading.

Server Setting

Remote Playback Site Management. Please refer to page 38 for details.

OSD Setting

Enable Camera OSD to display video information on recorded video. Information includes camera name, camera number, date and time. User can also set up OSD font; include the font, size, font color and any font effects desired.

Metadata Overlay Setting

* This feature is not available under Lite License.

Enable metadata overlay to adjust Font, Size, Color, Bold, Edge in "Foreground" section, color and transparency in "Background" section, and then adjust display settings in "Display on Video Preview".

General Server OSD Metadata	General Server OSD Metadata
Foreground Font: Tahoma	✓ Enable Metadata overlay Foreground Font: Tahoma
Size: 9 Color: Size: 9 Size: 9 Color: Size: 9 Size:	Size: 10 V Color:
Background Color:	Image: Bold Image: Edge Background
Transparency: 40	Color: Transparency:
 ✓ Camera Number ✓ Date ✓ Time ✓ Time 	O Last for

40

2.11 Remote Server

2.11.1 Add Remote Playback Site

Press the Remote Server Icon or go to setting – server to General Setting remote playback site management to add and setup remote playback sites.

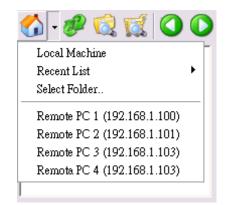
Step 1: Enter the IP address or DNS, Port, Username, and Password.

Step 2: Click Add to add the server.

Step 3: Click OK to exit the "Settings" panel.

2.11.2 Access Remote Playback Site

Go to Date Time Panel and click on the *self* icon ON the top of the display window to access the Remote Playback Site



Server Setting		器 site (192168.4.10)
Address:		
Port	5160	
User Name:		
Password:		
	Save Password 🥅	
	Test Server	
Add	Delete Update	,

2.12 Switch Recordings

With dual recording support, user can switch between Record 1 and Record 2 on right click screen menu as below.

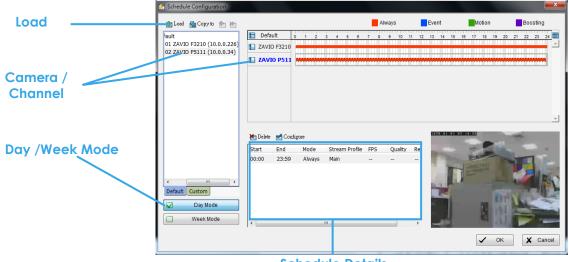


3. Schedule

🚰 Schedule Configuration			 X
🛃 Load 월 Copy to 🖢 🛬		Always Event	Motion
Fault 01 ZAVIO F3210 (10.0.0.226) 02 ZAVIO P5111 (10.0.0.34)	Default 0 1 2 3 4 5 6 ZAVIO F3210	7 8 9 10 11 12 13 14	
		1177-00	V 11-01-02-19120
	Toplete Configure	FPS Quality Res	
۰ III ۲	00:00 23:59 Always Main		THE REAL
Default Custom Day Mode Week Mode			
	K	, 2	V OK X Cancel

Click the Schedule icon on the Main Console and set up the time duration for video recording on the schedule General Setting panel.

3.1 Day / week Mode



Schedule Details

Day Mode: Schedule the cameras to turn the recorder on and off at the same time every day according to your setting.

Week Mode: Allows you to schedule each camera for a different day of the week, additionally, you may assign extra holidays in the "Week" mode

Schedule Details: An outline of start time, end time, Record mode, frame rate, quality and resolution. Please note these values refer to General settings. Actual performance may vary according to camera and hardware settings.

To setup the time schedule for each camera, you may

- 1. "Load" the preset modes or
- 2. "Insert" a new schedule manually or
- 3. "Copy to" other cameras after manual setup.

3.1.1 Load Preset Modes

The system provides six modes to quickly setup recording schedule. Simply click on the 🛂 Load for the drop-down menu.

Refer to the below tables for the definitions of each mode in each series.

IP+	series ((IP (camera)

Mode	Format	Time	Record	key frame	Adjust video	Profile
			Mode	only	frame	
Regular	M-JPEG	00:00-24:00	Always		uncheck	Main
Kegului	MPEG4/H.264	00.00-24.00	Alwuys	uncheck		
Office	M-JPEG	08:00-20:00	Always		uncheck	Main
Onice	MPEG4/H.264	06.00-20.00	Always	uncheck		
Shop	M-JPEG	10:00-22:00	Always		uncheck	Main
3100	MPEG4/H.264	10.00-22.00	Always	uncheck		
Highly Secure	M-JPEG	00:00-24:00	Always		uncheck	Main
Fighly secure	MPEG4/H.264	00.00-24.00	Always	uncheck		
Disk Saving	M-JPEG	00:00-24:00	Motion		10 fps	Main
Disk saving	MPEG4/H.264	00.00-24.00	MOTION	checked		
Minor	M-JPEG	00:00-24:00	Motion		5 fps	Main
	MPEG4/H.264	00.00-24.00	MOTION	checked		

The Max indicates settings are same as camera settings in the General Setting>setting>camera>camera parameter panel.

3.1.2 Insert a New Schedule Manually

Step	1: Left-clic	k and draw	the bar you	want add	to the tim	e table.	The scheduled	time will show	as a grey
	bar.								

Schedule Configuration				
🎂 Load 🆓 Copy to 📩 🕷		Always	Event Moti	
fault	Default 0 1 2 3 4 5 6	7 8 9 10 11	12 13 14 15 16 17 1	8 19 20 21 22 23 24
01 ZAVIO F3210 (10.0.0.226)	ZAVIO F3210			
02 ZAVIO P5111 (10.0.0.34)	ZAVIO P511	· · · · <u>· · · · · · · · · · · · · · · </u>		
				-
			1970-01-01 04:14:28	
	陆 Delete 📑 Configure			
	Start End Mode Stream Profile	FPS Quality R	Res	Participant in the second s
			- I second	
< III +			and the second second	
Default Custom				THE NUMBER OF
🔽 Day Mode			l l	
Week Mode				
	< [
				OK X Cancel
			-	
	Step 2		Step 3	
	Siep Z		siep s	

Step 2: Change the setting by clicking on the **General Setting** icon (See page 43 for detail) or double click the **Schedule Information**.

Step 3: Click OK.

3.1.3 Copy Schedule

You may set up the schedule for each channel/camera by repeating the process above, or by simply applying the setting of a single camera to all the others by clicking the **Copy To** icon at the top of the display window.

3.1.4 Holiday and Custom setting

Allows you to schedule each camera for a different day of the week, additionally, you may assign extra holidays in the "Week" mode

반 Load 🛍 Copy to 📩									Always		Event	Motion	Bo	
- 🖻 Custom		0	1 2	3 4	5 6	7 8	9 10	11 12	13 14	15 16	17 18	19 20 2	1 22 23	3 24
	Me Delete	Confi End	gure Mode	Stream	ı Profile	FPS	Quality	Res						
Default Holday Custom Day Mode Week Mode	4													



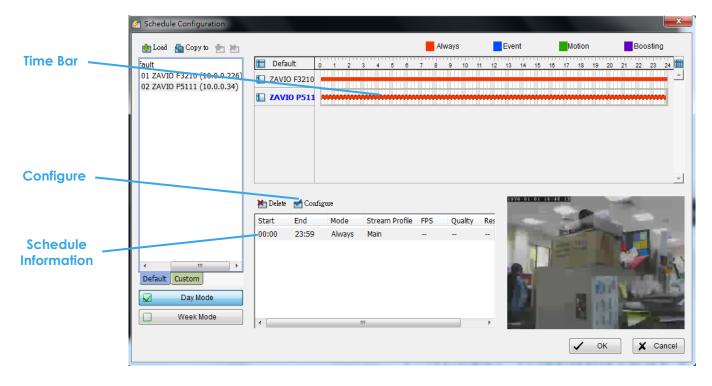
Holiday: You may assign holidays where the system will work according to the setting for Sunday. Note: The default Holiday setting will apply Sunday's settings. For the Middle East region where Friday is a holiday, please adjust setting by right clicking on Holiday and select "Apply Holiday Schedule From...".

Custom: You can assign a particular date(s) on which the system will work according to a special schedule(s) different from the others.

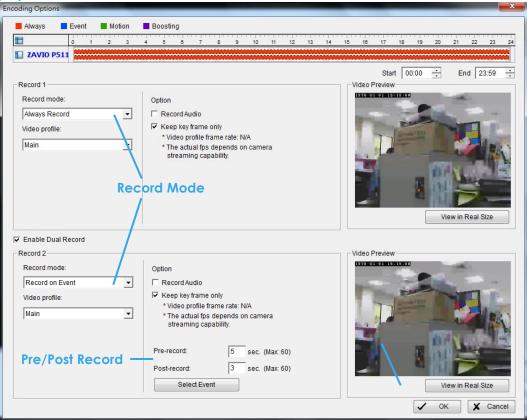
3.2 Adjust the Scheduled Setting:

You can manually change the setting at any time after you insert or load a schedule.

- **Option 1:** Move the cursor to the "Time Bar" and change the length or move the bar sideways to change the start and end points.
- **Option 2:** Click on the **Configure** icon or double click on "Schedule Information" from the list to obtain the "Encoding Option" panel (next page) and select the desired setting.



3.3 Encoding Option



3.3.1 Pre-record/ Post-record Time

The pre-record/ post-record function saves the recording data accordingly. For instance, to set up a 5 second pre-record time means the system will start saving the recording data 5 seconds before the event happens.

Note: The maximum of pre-record/post record period is 60 seconds.

3.3.2 Record Mode

There are four recording modes to choose from. Choose the one that suits your scenario best.

Always Record:

Select this option to record the video continuously.

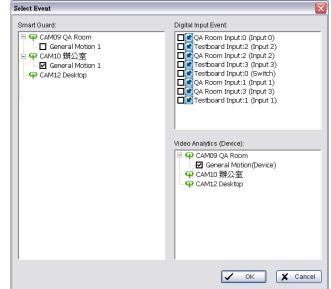
Boosting Record on Event:

This option enables you to record at lower frame rate at regular times, and at higher frame rate under Smart Guard triggered events.

*This feature is not available under Lite License

Select this option to obtain the "Select Event" panel. Choose from the list any Smart Guard or digital input events or video analytics from the device. The chosen event(s) will trigger the recorded action. Click **OK**. General Setting desired frame rates of normal and boosting recording in the **Video Encoder** box.

Note: Please note it is required to enable "Smart Guard" from the Main Console panel before General Setting "boosting record on event" to trigger recording.



Record on Event:

Select this option to start recording at any predefined event, including Smart Guard events, metadata events, digital input events and video analytics from devices. * Some options are not available under Lite License

Select this option to obtain the "Select Event" panel. From the Smart Guard list, check the camera events or digital inputs to trigger the recorded action. Click **OK**.

Note: Please note it is required to enable "Smart Guard" from the Main Console panel before General Setting "record on event" to trigger recording.

Record on Motion:

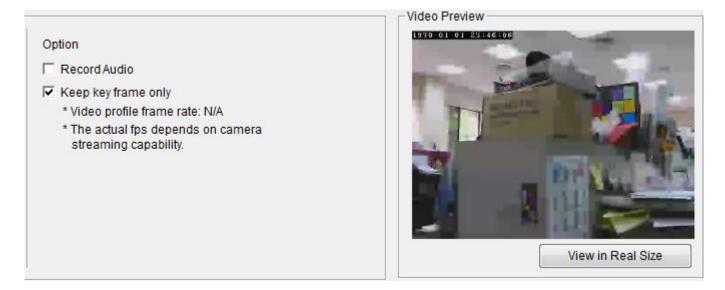
Select this option to start recording when motion is detected. Adjust sensitivity, the frame interval and zone to setup motion detection. To setup a single detection zone, left-click and drag the mouse to draw a rectangle. To setup more than one detection zone, simply repeat the same process or click "All" to select the entire screen.

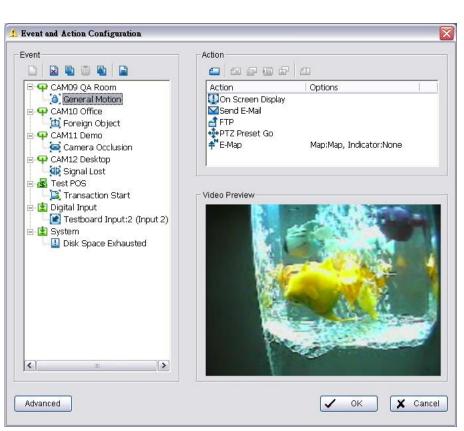
Note: The maximum number of rectangle detection zones is 10.

Note: For DVR cards, Record on Motion Mode can be only assigned on Record 1.

3.3.3 Option

This option sets up the frame rate an audio of the recorded video. The "Video Preview" window is the preview of the recorded video corresponding with the option.





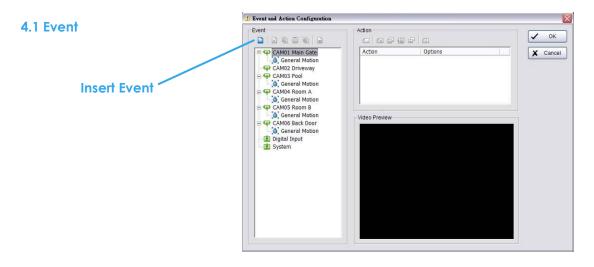
Click on the **Guard** button on the Main Console to start the "Event and Action Configuration" panel. You will need to specify an event to be detected as well as set the appropriate action for the system when the event occurs.

Note:

 Event Report: When the crystal ball is red, you can click it to obtain the Smart Guard Event Report and cancel the event(s).

eneral Motion Aissing Object	9		
lissing Object			
	13		
		Cancel Even	

4. Guard



There are 5 sources of events: Camera (video image), IVS (Intelligent Video Surveillance), Metadata, Digital Input/Output and System. You can assign multiple events by following the instructions below. **Note:** Some event types will not be available under Lite License.

4.1.1 Camera Event - Assign a Camera Event

Step 1: Select a camera and click "Insert Event" icon.

Select Event	×	Step 2
Event Type	Description	
🚯 Signal Lost	Detect video signal connection	
🔕 General Motion 1	Detection of any movement	
🔕 General Motion 2	Detection of any movement	
🔕 General Motion 3	Detection of any movement	
🔕 General Motion 4	Detection of any movement	
🔕 General Motion 5	Detection of any movement	Step 3
🔕 General Motion(Device)	Video motion detection alarm of the device	onep o
🛄 Foreign Object	Detect foreign object in defined area(s)	
🔁 Missing Object	Missing/being moved of defined object(s)	
🔤 Focus Lost	Camera focus lost detector	
🔄 Camera Occlusion	Camera blocked or damaged	
	V OK X Cancel	

Step 2: There are 6 types of events: Signal Lost, General Motion, Foreign Object, Missing Object, Lose Focus, and Camera Occlusion. Select the event you want on the Event Type list, and then click OK.

- 46 -

* Note: Only General Motion and Signal Lost are supported under Lite License.

Step 3: General Setting the Event Type. See the following instructions.

4.1.2 Camera Event – Basic Setting

[Signal Lost, General Motion, Foreign Object, Missing Object, Focus Lost, and Camera Occlusion] Enable Event: Check the box to activate the event.

Retrigger after status change: check the box to retrigger after status change [Focus lost, Camera Occlusion, Connection lost and Digital Input/Output

Basic Advanced		
Carnera 1 - General Motion 1		
Enable Event		
Retrigger after status change		
Life Cycle	a Altonamo	
 Automatic cancel event when event of 		
C Manual cancel event or event last trig	jgered	
C Cancel event after	10 seconds	
Activated Period		
Always activated		
C As Day Mode Schedule	Day Schedule	
C As Week Mode Schedule	Week Schedule	

Life Cycle:

- Automatically cancel event when event disappears: the alarm/action will be cancelled once the abnormality is fixed or ends.
- Manually cancel event or event last triggered: The alarm/action will remain until being cancelled from Main Console. Choose this option to avoiding missing any alarms.
 Note: To cancel the event:
 - Method 1: Start > Open Event Report > Cancel All Events
 - Method 2 : Click the red crystal ball to obtain the Smart Guard Event Report. Click to cancel the event(s).
- Cancel event after timeout xx seconds: Enable checkbox and set the timeout seconds to cancel the event after a specific time whether the event disappears or not.

Activated Period:

- Always activated: Allow alarm to be activated at all times.
- As Day Mode Schedule: Customize a specific time range for the alarm to be activated. The alarm will be available daily according to your settings.

Click **Day Schedule** to General Setting the schedule.

Choose **Add Time Period** and drag on the coverage bar to define an activated schedule. Choose **Remove Time Period** and drag on the coverage bar to subtract from existing schedules. Click **Clear All** to remove all settings.

Schedule Configurat	ion 🔀
	C Add Time Period Clear All
T Coverage	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Day	
	OK Cancel

• As Week Mode Schedule: Customize a weekly based time range for the alarm to be activated. Click **Week Schedule** to General Setting the schedule.

Choose Add Time Period and drag on the coverage bar to define an activated schedule. Choose Remove Time Period and drag on the coverage bar to subtract from existing schedules. Click Clear All to remove all settings.

				9	A	dd T	ïme	Per	iod				¢	R	emo	ive T	ïme	Per	iod		(С	ear.	All)
🛅 Coverage	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
📔 Sunday	-		_																						
🔝 Monday	-																								
🚹 Tuesday																									
🚺 Wednesday																									
🚹 Thursday																									
Friday																									
Saturday			1111			1001	1001				-														

4.1.3 Camera Event - Signal Lost

Detect the loss of video signal from camera.

4.1.4 Camera Event - General Motion

- Detect any movement in the defined detection zone.

For each video channel you may define up to 5 motion detection profiles (General Motion 1-5). This will allow you to set different sensitivity levels for different regions in the same video.

	Alarm Event Configuration	X
	Basic Advanced	
	Event Name: General Motion 1	
Sensitivity	 Alarm Event Option Camera 10 General Motion 1	
Interval	 Sensitivity:	
Region Definition	 Ignore Lighting Change	
Start Simulation	Region Definition C Define detection zone Define object size	
	Start Simulation	_
	OK X Canc	31

Event Name: Customize your event name here.

Alarm Event Option:

- Sensitivity: Click and move the slider control to the right to increase sensitivity so that minimal movement will trigger the alarm. Move the bar to the left to reduce the sensitivity. Setting up an appropriate sensitivity value will minimize false alarms. For example, you can lower the sensitivity to avoid the alarm being triggered by a swinging tree in the breeze.
- Interval: Click and move the slider control to the right to increase interval time so that the alarm will only be triggered when the movement lasts longer. Move to the left to reduce the interval

Region Definition:

• Define detection zone: To detect General Motion, you have to define a detection zone. Left-click and drag the mouse to draw a detection zone. You may define more than one zone on the screen by repeating the same process. User can also Click "All" button to select the entire detection zone.

Start Simulation: Click the Start Simulation button and test the function on the preview screen.

4.1.5 Camera Event - General Motion (Device)

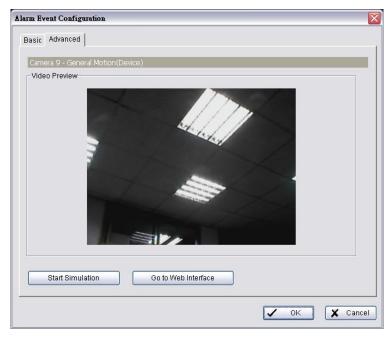
- Detect movement with motion detectors of devices (IP cameras or video servers). * Note: This function is only available on devices with built-in motion detection.

Please refer to the user manual of your device

to set up motion detection.

- Start Simulation Click to test if motion detection is set up correctly.
- Go to Web Interface

Click to go directly to device web page for configurations.



4.1.6 Camera Event - Foreign Object

Alarm will be set off when an object appears in the defined area on the screen.

	Alarm Event Configuration	
	Basic Advanced	
	Event Name: Foreign Object	
	Alarm Event Option	
Sensitivity	Camera 1 Foreign Object	
	Sensitivity:	
Interval —	Interval:	
Region Definition	☐ Ignore Lighting Change	
Define object size ———	Region Definition	
	C Define object size	
Start Simulation ——	Start Simulation	
	С ОК ХС	ancel

Alarm Event Option:

- Sensitivity: Click and move the slider control to the right to increase sensitivity so that minimal movement will trigger the alarm. Move the bar to the left to reduce the sensitivity of movement detected. Setting up an appropriate sensitivity value will minimize false alarms. For example, you can lower the sensitivity to avoid the alarm being triggered by a swinging tree in the breeze.
- Interval: Click and move the slider control to the right to increase interval time so that the alarm will only be triggered when the movement lasts longer. Move to the left to reduce the interval.

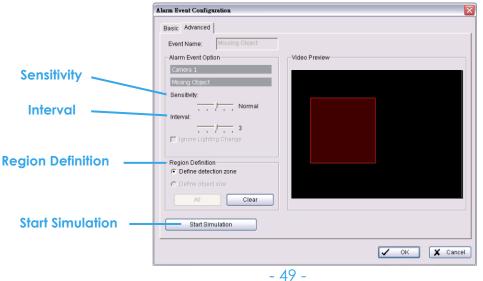
Region Definition:

- Define detection zone: To detect Foreign Object, you have to define a detection zone. Left-click and drag the mouse to draw a detection zone. You may define more than one zone on the screen by repeating the same process. User can also Click "All" button to select the entire detection zone.
- Define Object size: After defining the detection zone, select Define Object Size and then left-click and drag the mouse to indicate the size of the object you want to detect.
 Note: For instance, if you want to prevent somebody from leaving a briefcase in a hallway, place a briefcase in the hallway in view of the camera. On the screen, draw an area that fits the size of the briefcase and define it as the object size. Remove the briefcase and then activate the Smart Guard function on the Main Console. The system will consider everything on the screen normal when you click Start to activate the monitor function.

Start Simulation: Click the Start Simulation button and test the function on the preview screen.

4.1.7 Camera Event - Missing Object

Alarm triggers when an object disappears in the defined area on the screen.



Alarm Event Option:

- Sensitivity: Click and move the slider control to the right to increase sensitivity so that minimal movement will trigger the alarm. Move the bar to the left to reduce the sensitivity of movement. Setting up the appropriate sensitivity value will reduce the chance of false alarms. For example, you can lower the sensitivity to avoid the alarm being triggered by a swinging tree in the breeze.
- Interval: Click and move the slider control to the right to increase interval time so that the alarm will only be triggered when the movement lasts longer. Move to the left to reduce the interval.

Region Definition:

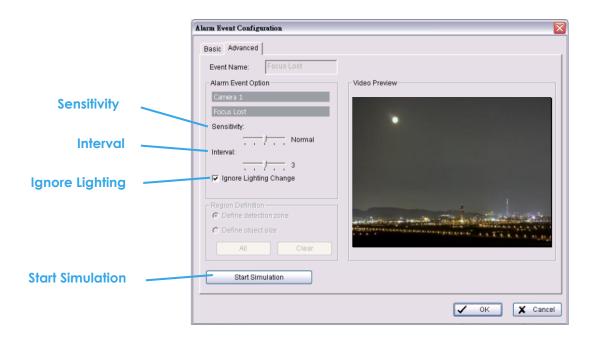
Define detection zone: To detect Missing Object, you have to define a detection zone. Left-click and drag the mouse to draw a detection zone. You may define more than one zone on the screen by repeating the same process. User can also click on "All" button to select the entire detection zone.
 Note: For instance, if you want to prevent somebody from removing the computer monitor on the desk, draw an area that fits the size of the monitor on the screen.

Alarm Event Configuration	X
Alarm Event Coafiguration Basic Advanced Event Name: Missing Object Alarm Event Option Gamera 1 Missing Object Sensitivity: Sensitivity:	Video Preview
	V OK X Cancel

Start Simulation: Click the Start Simulation button and test the function on the preview screen.

4.1.8 Camera Event – Focus Lost

This function alarms you when any of the cameras is losing focus and has blur image.



Alarm Event Option:

- Sensitivity: Click and move the slider control to the right to increase sensitivity so that a relatively small movement will trigger the alarm. Move the bar to the left to reduce the sensitivity of movement detection. Set up an appropriate Sensitivity value will reduce the chance of false alarm. For example, you can lower the Sensitivity to avoid the alarm being triggered by a swinging tree in the breeze.
- Interval: Click and move the slider control to the right to increase interval time so that the alarm will only be triagered when the movement lasts longer. Move to the left to reduce the interval time.
- Ignore Lighting: Check the box to avoid alarm being set off by light changing.

Region Definition:

Define detection zone: To detect Lose Focus, you have to define a detection zone. Left-click and drag the mouse to draw a detection zone. You may define more than one zone on the screen by repeating the same process. User can also click on "All" button to select the entire detection zone.

Start Simulation: Click the Start Simulation button and test the function on the preview screen.

Camera Event - Camera	
This function alarms y	you when any of the cameras are blocked.
	Alarm Event Configuration
	Basic Advanced
	Event Name: Camera Occlusion
	Alarm Event Option
Sensitivity	Camera 1 Camera Occlusion Sensitivity.
Interval	Interval:
Ignore Lighting	Ignore Lighting Change
	Region Definition
	C Define object size
	Ali Clear
Start Simulation	Start Simulation
	V OK X

4.1.9

Alarm Event Option:

Sensitivity: Click and move the slider control to the right to increase sensitivity so that a relatively small movement will trigger the alarm. Move the bar to the left to reduce the sensitivity of movement detection. Set up an appropriate Sensitivity value will reduce the chance of false alarm. For example, you can lower the Sensitivity to avoid the alarm being triggered by a swinging tree in the breeze.

Cancel

- Interval: Click and move the slider control to the right to increase interval time so that the alarm will only be triggered when the movement lasts longer. Move to the left to reduce the interval time.
- Ignore Lighting: Check the box to avoid alarm being set off by light changing.

Start Simulation: Click the Start Simulation button and test the function on the preview screen.

4.1.10 Metadata Event - Assign a Metadata Event

- **Step 1:** Select a metadata device from the list and click **b** to insert event. Note: Please insert the metadata device in General Setting -Metadata Application first. Then set the alarm based on it.
- Step 2: There are five types of events: Transaction Start, Transaction End, Open Cash Register, Connection Lost and User Defined. Select the event you want on the Event Type list, and then click OK. Note that the Open Cash Register event is available on POS metadata devices only.

Iransaction Start - Detect the beginning of any transaction.

💢 Transaction End - Detect the end of any transaction.

S Open Cash Drawer - Detect the opening of any cash drawer.

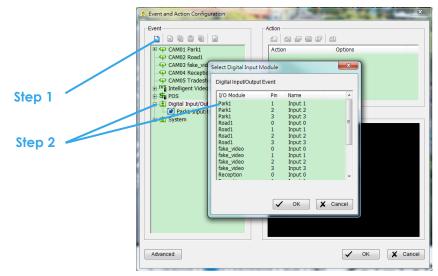
Connection Lost - Detect the connection problems between POS box and Main Console.

User Defined - Detect any condition defined by user.

Event Type	Description	-
Transaction Start Transaction End S Open Cash Drawer Connection Lost User Defined 1 User Defined 2 User Defined 3 User Defined 4 User Defined 5 User Defined 5 User Defined 7 User Defined 7 User Defined 8 User Defined 8	A transaction starts A transaction ends Cash Drawer is opened Connection Lost User defined event rule 1 User defined event rule 2 User defined event rule 3 User defined event rule 5 User defined event rule 6 User defined event rule 6 User defined event rule 7 User defined event rule 8 User defined event rule 8	E

Step 3: Go to General Setting for the Event Type setting. For details please refer to the user manual of metadata plugins.

4.1.11 Digital Input/Output Event - Digital Input/Output Event



Step 1: Click and highlight Digital Input on the event type list, and then click the **Step 2:** Select the device that is connected to your system.

4.1.12 System Event - Assign a System Event

1	🛕 Event and Action Configuration				×
	Event	Action	Options	✓ ×	OK Cancel
Step 1		Event Type Disk Space Exhausted System Health Unusual Resource Depleted Network Congestion	Description Disk space is exhausted High CPU temperature or low fa CPU or memory is depleted Network bandwidth is overloading		
Step 2					
			V OK X Cance	I	

Step 1: Click and highlight System on the event type list, and then click the
 Step 2: Select the device that is connected to your system.

4.1.13 System Event - Disk Space Exhausted

This function alarms you when disk space is exhausted.

4.1.14 System Event - System Health Unusual

This function alarms you when CPU is under high temperature or fan speeds are running low. Current Status: Displays current CPU temperature, Motherboard Temperature, Fan Speed and Power fan speed.

Options: Check the Temperature Format for Celsius or Fahrenheit; fix maximum motherboard temperature for High Temperature Alarm and minimum RPM for Power Fan Speed Alarm.

4.1.15 System Event – Resource Depleted

This function alarms you when CPU or memory is depleted. Current Status: Shows you the current Total CPU Loading and Total Memory Usage. Options: Fix maximum percentage for High CPU Loading Alarm and High Memory Usage Alarm.

4.1.16 System Event – Network Congestion

This function alarms you when network bandwidth is overloaded. Current Status: Shows you the current Total Upload/Download bit rates. Options: Fix maximum bit rate (Kbps) for High Upload/Download Bit rate Alarms.

System Health Unusual

Resource Depleted

Network Congestion

Alarm Event Configuration	×	Alarm Event Configuration	×	Alarm Event Configuration	×
Basic Advanced		Basic Advanced		Basic Advanced	
Current Status CPU Temperature: Motherboard Temperature: Fan Speed:	0C 0C 0 RPM	Current Status	81 %	Current Status Total Upload Bitrate	0 Kbps
Power Fan Speed:	0 RPM	Total Memory Usage	64 %	Total Download Bitrate	0 Kbps
Temperature Format: High temperature alarm at : High Motherboard Temperature Al Low Fan Speed Alarm at: Low Power Fan Speed Alarm at:	Celsius Fahrenheit 70C arm at: 70C 1000 RPM	Options High CPU Loading Alarm at : High Memory Usage Alarm at	▲ 70 % ★ 70 %	Options High Upload Bitrate Alarm at:	
	OK X Cancel	✓	OK X Cancel	ок	X Cancel

4.2 Action

4.2.1 Action - Assign a action ty	уре			
	A Event and Action Configu	Iration		
Step 1	Event	Action	I Options I options	V OK
Step 2		Action Type On Screen Display Play Sound Send E-Mai Phone Cal PTZ Preset Go D/DO SMS Central Server FTP E-Map Push Notification	Description Display warning message or color Play warning sound Send E-mail to contacts Dial a phone call to contact Trigger PTZ camera to present p Popup DI/D0 panel or trigger digi Send SMS to contacts Send to Central Server Send snapshot to FTP Popup E-Map on Event Notice on Mobile Client	
To insert a new action:	,			

Step 1: Choose an event and click the insert action icon

Step 2: There are 10 types of actions, select the actions you want and then click OK.

- 1. On Screen Display
- 2. Play Sound
- 3. Send E-mail
- 4. Phone Call
- 5. PTZ Preset Go

7. SMS 8 Cen

6. DI/DO

- 8. Central Server
- 9. FTP 10. E-Map
- 11. Push Notification
- * Note: Some actions will not be available under Lite License.

Step 3: General Setting the setting of the Action Type if needed.

4.2.2 Action Type - On Screen display

A red warning will be flashing on the screen of Main Console, indicating which type of unusual event is detected.

- **Step 1:** Select the "On Screen display" action and then click OK.
- Step 2: The responding window will popup to Selected Camera. Click the "On Screen display" indicator to modify the setting.

Camera: Display the camera applied to this action. Auto popup: Click the Auto popup column and select the expected monitor for popping up the event. Displayed text: You can follow the default setting to show the event type, or enable "Customized Text" to define the text as your preference.

Color edge: Select the color edge for popping up the event.

Camera	Auto popup	
CAM01 ZAVIO F3206 (10.0.0.	172) N/A	
CAM02 ZAVIO F7210 (10.0.0.	131) N/A	
🗹 📇 CAM03 F3115	N/A	
	N/A	
	Monitor #1	
Display text		
 Display text F3115 input:0 (input 0) 		
 F3115 Input:0 (Input 0) 		
 F3115 Input:0 (Input 0) 		
C F3115 Input:0 (Input 0) C Customized Text		

4.2.3 Action Type - Play Sound

Sound alarm – the system will play the sound as alarm when an unusual event is detected.

Step 1: Select the "Play Sound" action and then click OK.

Step 2: The responding window will popup to choose a Wave file (.wav). Click the "Play Sound" indicator to modify the setting.

4.2.4 Action Type - Send E-mail

The system will send an E-mail immediately to given accounts indicating the type of event, the time, and attaching a picture taken while the event is detected.

- Step 1: Select the "Send E-mail" action and then click OK.
- Step 2: The responding window will popup to Select Contact, type the message to append. (You can choose more than one contact).

Edit Address Book: Insert the contact information here. Note:

- To give the system the E-mail accounts, go to General Setting > Setup > Hotline. See General Setting on page 69 for details.
- 2. For Digital Input Events, this warning action will send the snapshot of the associated camera. Please refer to I/O settings for details.

4.2.5 Action Type - Phone Call

- The system will call a given phone number when an unusual event is detected.
- * Note: This function is not available under Lite License.
- Step 1: Select the Phone Call action and then click OK.
- Step 2: The responding window will popup to Select Contactor and key-in the message which want to append on SMS content. (You can choose one more contact at once).
 Note: To setup the phone number and make an audio record for the phone call, go to General Setting Setup Hotline. See Configuration on page 69.

4.2.6 Action Type - PTZ Preset Go

The PTZ (pan/tilt/zoom) camera will go to a preset point or auto patrol when an unusual event is detected.

- * Note: This function is not available under Lite license.
- Step 1: Select the "PTZ Preset Go" action and then click OK.
- Step 2: The responding window will pop up to PTZ Camera Preset Go. Click the "PTZ Preset Go" indicator to modify the setting.
- Step 3: Set the action of cameras which you want to trigger by events.

For example: Please follow below steps to setup this function.

- Set the action of camera 1:
 - 1. Choose camera 1.
 - 2. Set the start, end preset points.
 - 3. Select the Life Cycle.
 - 4. Click on Add.
- Set the action of camera 2:
 - 5. Choose camera 2.
 - 6. Set the start patrol and end patrol.
 - 7. Select the Life cycle
 - 8. Click on Add.
 - 9. Finally click on Ok to save all setting of cameras.

Note: General Setting your PTZ camera before using this function. See General Setting on page 68 for PTZ camera General Setting.

😻 Select Contactor		×			
Contactor:	Edit Address Book				
Name	E-Mail Address				
ver 1 Ver 2 Ver 3	user1@mail.com user2@mail.com user3@mail.com				
Customized message c	, Customized message content:				
Motioh deteaction alarm of camera A, please do the below SOP.					
	V OK X Cancel				

TZ Camera Preset Go
Camera: CAM14 (camera 3) 💽 IP Camera
Start
Preset Patrol
1 -
Life Cycle
Stop PTZ action when event disappear
C Keep PTZ action 10 second
C Keep PTZ action 10 second
End
Preset C Patrol
The end preset go will take 10 second
Add Clear Update Delete
Camera Start Life Cycle End End Preset Go
V OK X Cancel

4.2.7 Action Type – DI/DO

To trigger Digital input/output devices connected to the system, such as alarm lights and sirens.

DI/I	00						
Dig	gital output to sigr	ial:				🧃 I/O Devices	
	O Module	Pin		Life Cycle 🛛 🔺		🔽 Show name	
	Testboard	0	Light	Event dis 👻		DI	
	Testboard	1	Output 1	Event disappear			티 👝 티
	Testboard	2	Output 2	10 sec.		U U _	
	Testboard	З	Output 3	30 sec. 60 sec.		Switch	Light
				Manual cancel		0	
						Input 1	Output 1
						0	0
				~		Input 2	Output 2
	Automatically pop	oup I/C) control pane	I	──	0	0
		ŀ	🖊 ок	🗶 Cancel		Input 3	Output 3

- Step 1: Select the "DI/DO" action and then click OK.
- Step 2: Select devices to be triggered by event.
- Step 3: Click the Life Cycle box of each device to General Setting the life cycle of each triggered alarm. The alarm may terminate when the event disappears, 10/30/60 seconds after trigger, or require a manual cancel. Note that you may also customize a timer by simply inserting a number in the box.
- Step 4: You can enable the Automatically Popup I/O Control Panel check box to obtain the correspondent panel to monitor the I/O status.

Note: You should adjust the setting of I/O device in General Setting>Setting>I/O Device first, the I/O control panel will display the device status based on it. You can also adjust the size of the panel by dragging a mouse or click the **LOX** on the right top of the display window.

4.2.8 Action Type –Send an SMS message

The system will send an SMS message immediately to given accounts indicating the type and time of event.

- * Note: This function is not available under Lite License.
- Step 1: Select the "Send a SMS message" action and then click OK.
- Step 2: The responding windows will popup to Select Contactor (You can choose one or more contacts). Click the "Send an SMS message" indicator to modify the setting. Note: To General Setting a GSM modem for the system, go to General Setting - Setup - Hotline. See General Setting at page 69.

4.2.9 Action Type – Send to Central Server

This action will send an event and snapshot to 's Central Management Server (separate software package, not included).

* Note: This function is not available under Lite License.

		Edit Address Book	_
Contactor:		Edit Address Book	
Name	Phone Number		
🗹 👕 User 1	111-1111-1111		
🗹 👕 User 2	222-2222-2222		
🗹 👕 User 3	333-3333-3333		
Customized messar	ie content		
Customized messag			

- Step 1: Select the "Send to Central Server" action and then click OK.
 - Note: Please refer to the CMS user manual for details on using the Central Management System.

4.2.10 Action Type – Send snapshot to FTP

The system will upload a snapshot immediately to FTP site. * Note: This function is not available under Lite License.

Step 1: Select the "Send snapshot to FTP" action and then click OK.

Step 2: General Setting options.

- Life Cycle: General Setting the system to stop sending snapshots after <u>seconds</u>, or when the event is terminated.
- Frame Interval: Define the frequency of snapshots.
 - Minimum is 1/60 fps (1 snapshot per 60 seconds)
 - Maximum is 30fps (30 snapshots per second).
- Resolution: Choose to keep snapshot in original resolution or compress to lower resolution.

Note:

- 1. For Digital Input Events, this warning action will send the snapshot of the associated camera. Please refer to I/O settings for details.
- 2. To define an FTP server, go to General Setting > Setup > Hotline. See General Setting at page 69 for detail.

4.2.11 Action Type – Popup E-Map on Event

- The system will auto popup E-Map window and show the assigned map and indicator.
- * Note: This function is not available under Lite License.

Step 1: Select the "Popup E-Map on Event" action and then click OK.

Step 2: The responding window will popup to Popup e-map on event. Click the "Popup E-Map on Event" indicator to modify the setting.

Step 3: Select the Map Layer and Indicator, and then click OK. Note: To edit E-Map, see General Setting at page 86.

4.2.12 Action Type – Push Notification

The system will send instant message to registered iViewer as a notification.

Step 1: Select the "Notice on Mobile Client" action and then click OK.

Step 2: General Setting options.

- Frequency—Rearm interval: the minimum interval of notifications as the event occurs. (default:10, max:300)
- User List: All user accounts in this unit. Click "select all" to select all user accounts; click "deselect all" to remove all user accounts.
- Receiver List (overview/remove): go to General setting>Network Service>Push Notification for user account overview. Click "Kill" for selected user account delete and "Kill All" for all user accounts delete.
 - 1. User name: user account
 - 2. ID: user account display name
 - 3. Least time: indicate user did not login period
 - 4. Login Username: the user account display name when login
- Send test: click to send test push notification to selected list.

Action Type	Description
Play Sound	Play warning sound
📄 Phone Call	Dial a phone call to contactor
🔹 PTZ Preset Go	Trigger PTZ camera to present p
🙆 DI/DO	Popup DI/DO panel or trigger digi
SMS SMS	Send SMS to contactors
🗹 Central Server	Send to Central Server
🚽 FTP	Send snapshot to FTP
♠ [™] E-Map	Popup E-Map on Event
Push Notification	Notice on Mobile Client
	V OK X Cance

Send Snapshot to FTP
Options
Life Cycle:
 Stop sending snapshot after:
○ Stop sending snapshot when event disappear
Frame Interval: 1/2 fps
Resolution:
Original
Customized CIF
V OK X Cancel

Fopup e-map on eve	nt			Ň
Map Layer:	Flower			•
Indicator:	Cam1			-
				_
	✓	ОК	🗶 Cano	el

Note:

- 1. Please sign in iViewer first.
- 2. If the user password is changed, please sign in iViewer with the new password to start the service again.
- 3. If users do not want to receive notifications anymore, users can turn off this feature on iViewer. There is one possibility of de-registering failed: users have ever logged in to iViewer by typing both LAN IP and WAN IP of Main Console, but only do de-registering on one side.
- 4. If users do not want to send notifications to certain user account, users can de-select the user account on Notification General Setting>>Network Service.
- 5. If user does not login till 30 days, user account on push notification user list will delete automatically.
- 6. Push notification test is depending on iOS/Andriod receive the message or not.

Notification Configuration		Network Service -		1 - 22		
Frequency Rearm interval: 10 Sec. (M	lax: 300)	Live Streaming	ain Device Receive Co	unt 2	Kill	Kill All
OserList	SelectAll	E	User name	ID		Login Username
		Remote	🎯 admin 🎯 admin	79f659b4668819f 34556ca9e2c907		admin admin
User name Group Description	Login Username admin	Playback	a a a a a a a a a a a a a a a a a a a	54550(2962(50/	10	ound
		3GPP Service Remote Desktop Central Management Og				
		Notification				
🗸 ок	X Cancel				 ✓ 0 	K Cance

4.3 Advanced Settings

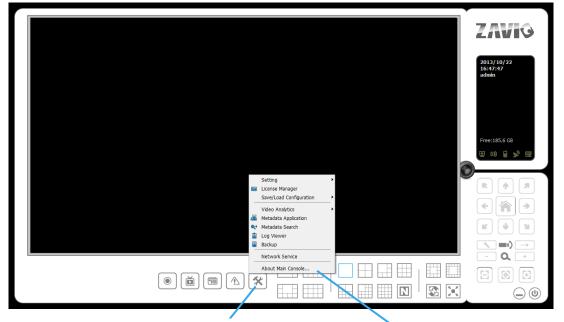
Click on the **Advanced** button on the bottom of the Event and Action Configuration dialog for advanced settings.

Condition of startup – Smart Guard can be started under the follow modes:

- 1. Manually start/stop from Start menu or as Main Console startup setting (default)
- 2. Started by defined D/I trigger. Select D/I from dropdown list and click OK.

4 Event and Action Configuration		
Event CAM09 QA Room CAM09 QA Room CAM09 QA Room CAM10 Office CAM10 Office CAM10 Office CAM10 Comera Occubion CAM12 Desktop CAM12	Action Action Action Con Screen Display Sand E-Mal FTP PTZ Preset Go FEMap Video Preview	Advanced Settings Condition of startup Condition of startup Manually start/stop from Start menu or as Main Console startup setting Start Smart Guard detection when digital input signal trigger Select digital input module: Testboard input:Switch
<		✓ OK X Cancel

5. General Setting

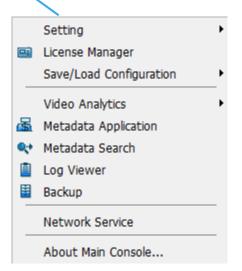


General Setting

lick the General Setting icon, select from the drop-down menu and open the General Setting panel. Modify the setting and access License Manager, Video Analytics, Metadata application, Metadata Search, Log viewer, Backup, or Network Services. Select Save/Load General Setting to save/load all the settings.

* Video Analytics and Metadata Application not available under Lite License.

* Video Source function available only with MPEG-4 software compression captures devices.



5.1 System Setting – General

Startu Conertal Camera UD Device PTZ Config Hotline Address Book Monitor Display Joystick Startup Main Console Startup Main Console Counting Application		storage	Status Display
Startup	🔶 Setting		
Main Console Schedule Recording System Schedule Recording System Smart Guard System Smart Guard System D/Video Counting Application Ive Streaming Server Remote Playback Server Fraable Disk Load Balance SofP Server Remote Desktop Server Remote Desktop Server Remote Desktop Server Central Management Service Recycle when disk space is less than Pull Screen Setup Automatic Recycle: Recycling Audio Preview Dony keep video for Miscellaneous Audio Preview Minimize to system tray Synchronize video frames DDNS Service DDNS Service	tartup-	e Address Book Monitor Display Joystick	
Automatically popup event report Default/Channel (Not Used) Enable Auto Reboot Minimize to system tray Enable Audio on Active Channel Every Day Synchronize video frames Volume at 01:00 AM	Main Console Schedule Recording System Smart Guard System Counting Application Cuve Streaming Server Remote Playback Server Soft Server Contral Management Service Full Screen Setup Setup Setup	Location Control Co	 ✓ Current Date ✓ Current Time ✓ Login User ✓ Free Disk Space ✓ IP Camera Bitrate ✓ User Defined Text 1 ✓ User Defined Text 2 Surveillance Advanced Setting
	Automatically popup event report Minimize to system tray Synchronize video frames	Default Channel (Not Used)	Every Day

Charless Disarlars

5.1.1 Startup

Check the Main Console box to execute Main Console system when windows startup. Check the following 3 main functions and 5 network services to auto activate functions when Main Console system is executing, including Schedule Recording System, Smart Guard System, Counting Application, Live Streaming Server, Remote Desktop Server, 3GPP Server, Remote Desktop Server and Central Management Service. Checking other options can setup the startup status as Full screen, auto lock system by startup or

allow system to auto login with the preset account.

Setup Auto login: Enable "Auto login" and click the Setup button to obtain the Auto Login Setup panel, insert the User Account and Password to login automatically when the system starts. Enable the Minimize after login to minimize the Main Console window after login.

Auto Login Setup	X
User Account:	
Password:	
Password Confirm:	
*Fill in second password while Dua	al Password Validation is set.
Second Password:	
Password Confirm:	
🗖 Minimize after login	
	✓ OK X Cancel

5.1.2 Storage

Location: Assign the default folder (you can setup several directories for storage) for the system to store all data files. Recommend not to save in system HD (C :\) to avoid PC efficiency drop when free storage is low.

If you have more than one drive available for recording, you may check "Enable Disk Load Balance (Recommend Same Volume Disk)" to evenly distribute recording to multiple drives. This will increase efficiency of the system. Please refer design tool for evaluation.

Video Recycling:

This setup allow user configure different recycle criteria for different cameras and for different Record video of the same camera

General setting: Set the standard limit to let the system recycle automatically. The system will start to recycle if the disk space is less than the indicated percentage (default is 10%, minimum is 5%).

Option setting: Set different recycle days for Record 1 / Record 2 so can keep different length of recordings.

Video Recycle Settings				x
General setting: Always keep 5 %	disk space.			
	ding days y(s) for Record 1. y(s) for Record 2.			
Allow exception Select camera to customize	Exceptional recycle duration		Edit	
Camera	Camera	Record1	Record2	
C2 Fish eye C3 Lobby C4 IVS_Roof C5 Park1	Control IVS_Shopping Mall	7 day(s)	30 day(s)	
Notice: "-" indicates the channel follow	ws the General Setting setup (% of disk space.)	 	ОК 🗶 Саг	ncel

Allow exception: Drag and drop the camera(s) to the right panel and will pops up a setup window as below to input the special recycle criteria. In below, the 2 recordings of the first camera were configured with different recycle criteria: Record 1: 7 days; Record 2: 30 days.

Recycle Excepti	on	×
Camera:	IVS_Shopping Ma	11
Exceptional	recycle dration:	
🔽 Keep	7	day(s) for Record 1.
🔽 Keep	30	day(s) for Record 2.
		✓ OK X Cancel

If you expect a recording utilize the space in maximum, you can leave black in the keep x days. By setting this, the symbol would become "-", ad the length of Record 2 will depend on the remaining space of available space. This also means this recoding has lowest priority, so it would be recycled first when disk space is insufficient in order to meet or recording settings.

Recycle Exception	Camera	Record1	Record2
	📇 08 Camera 08	10 day(s)	-
Camera: Camera 08			
Exceptional recycle duration:			
✓ Keep 7 day(s) for Record 1.			
C Keep day(s) for Record 2.			
V OK Cancel			

Note:

- 1. The system will detect the storage space of default location firstly, if the default storage space is exhausted, the video will be stored to the next directory.
- 2. If all the status of locations exceeds the storage rule, the system will start recycling in an hour progress.
- 3. Recycle priority: keep % of dis space > keep x days > keep days.
- 4. Recycle example:

Example 1: Set "keep 10% of disk space"; Current available space is still more than 10%, ex:15%.

- a. For the recordings set as "keep x days": Main Console will start to delete the oldest recording when it's data length reach x days.
- b. For the recordings set as "keep days": Main Console continue record and will start delete the oldest recoding when available disk space reach 10%.

Example 2: Set "keep 10% of disk space"; Current available space is 10%.

- a. For the recordings set as "keep days": Main Console will start to delete the oldest recording. The new space after delete will be used to store the recording which set as "Keep x days".
- b. For the recordings set as "keep x days": Main Console will start to delete the oldest recording when it's data length reach x days.
- c. Main Console continue delete the oldest recordings of "keep days" until it remain only 1 day Then, Main Console will start to delete the oldest recordings of "keep x days" in order to follow the rule: keep 10% of disk space.

Log Recycling: Click the button to obtain the Advanced Recycle Setting panel. Set the days that you want to keep the event or Keep all event logs within interval of video files.

Event Log: Delete the event log data that is older than the number of days set.

System Log: Delete the system log data that is older than the number of days set.

Counting: Delete the counting application data that is older than the number of days set.

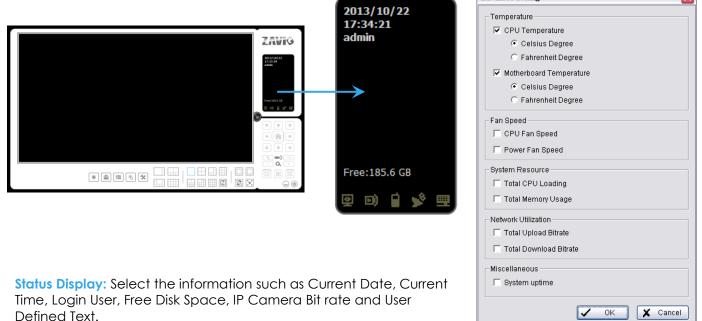
Metadata Transaction: Delete the metadata transaction data that is older than the number of days set.

Resource Report: Delete the Resource report data that is older than the number of days set.

Advanced Recycle Setting		X
- Event Log		
C Keep event log within interval of video files		
Keep event log for	7	days
System Log		
C Keep system log within interval of video files		
Keep system log for	14	days
Counting		
C Keep counting log within interval of video files		
 Keep counting log for 	90	days
Metadata Transaction		
C Keep Metadata transaction within interval of vid	eo files	
 Keep Metadata transactioin for 	90	days
Resource Report		
C Keep resource report within interval of video file	es	
 Keep resource report for 	90	days
Export and Backup Log		
C Keep export and backup log within interval of vi	deo files	
 Keep export and backup log for 	14	days
C Keep export and backup log forever		
	/ ок	X Cancel

5.1.3 Status Display

Check the boxes of the information that you wish to see in the information display window in the Main Console.



• Advanced Setting: Click the button to obtain the Advanced Setting Panel to select Temperature, Fan Speed, System Resource, Network Utilization information and System Uptime info you wish to display.

5.1.4 Miscellaneous

Automatically Popup Event Report: Event report dialog to automatically popup when events are detected. Make sure to stop Smart Guard System before you modify the setting, otherwise the modification will not take effect.

Minimize to system tray: Enable the Option to minimize the Main Console to be an icon in notification area of windows task bar when pressing the minimize button.



Note: Insert the username and password of Main Console again when clicking the minimized Main Console icon in notification area of windows task bar to start monitoring.

Synchronize video frames: Select to avoid image tearing problems that may occur while CPU loading is increased.

• **DDNS Service:** Dynamic Domain Name Server (DDNS) function allows you to use Live View or Web View to connect to the Main Console through Internet event if you have a dynamic IP address.

Click the DDNS button to obtain the Dynamic DNS Setup panel. Set up the DDNS function by selecting the provider type, filling with user name, password and hostname, and adjust the update period.

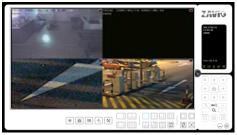
Provider	DtDNS
Jser name	
Password	
Host name	
Jpdate period	16 minutes

5.1.5 Audio Preview

Default Channel: Select the audio channel that you wish to hear from in "Default Channel".

Enable Audio on Active Channel: Select the "Enable Audio on Active Channel" option to hear the audio from the selected video channel (selected by mouse) on each video grid of Main Console. The default channel will play if no specific video channel is selected.

Volume: Adjust the volume with the "volume bar."



System plays the audio of "default channel"



System plays the audio of the upper-left "selected channel"

5.1.6 Auto Reboot

Check the option of "Enable Auto Reboot" so that you can reboot the system on the time you select.

- Step 1: Check the option of "Enable Auto Reboot."
- Step 2: Select the time you want to reboot.

Note: Enable "Main Console", "Auto Login", "Setup login account" and check other status in Startup section so when PC reboots the system will run normally.

Enable Auto Reboot

at 12:00 AM

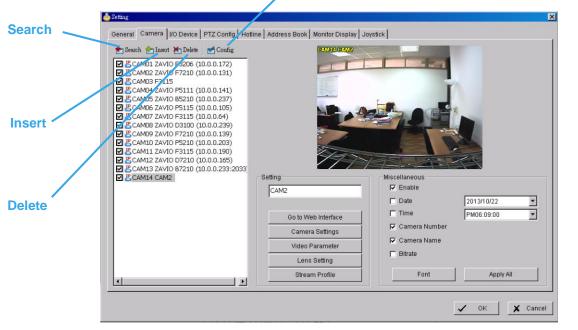
-

 $\overline{\mathbf{v}}$

Every Day



5.2 Setting - Camera



Configure

5.2.1 Add Camera

Four function buttons will be included in the Setting/Camera panel if you have our Surveillance System license for IP camera.

Search: Click the Search icon for the Search IP Camera panel. The system will start scanning automatically; click on the Stop Scan button to stop scanning any time.

Ib	Vendor	Model	MAC	
10.0.0.239	ZAVIO	D3100	00-1b-fe-04-71-87	
10.0.0.165	ZAVIO	D7210	00-1b-fe-04-e3-21	
10.0.0.237	ZAVIO	B5210	00-84-14-81-26-00	
10.0.0.141	ZAVIO	P5111	00-1b-fe-04-70-23	
10.0.0.203	ZAVIO	P5210	00-1b-fe-04-52-10	
10.0.0.190	ZAVIO	F3115	00-1b-fe-11-b3-9f	
10.0.0.233:2033	ZAVIO	B7210	00-1b-fe-02-be-cb	1
10.0.0.178	ZAVIO	F3206	00-1b-fe-03-a1-f1	
10.0.0.166	ZAVIO	F3206	00-1b-fe-02-bf-66	
10.0.0.235	ZAVIO	D3200	00-1b-fe-04-92-39	
IP Camera Option				
Camera Name:	ZAVIO	D3100 (10.0.0.2	239)	
User Name:				
Password:				

Fill in the user name and password for each IP camera found and click OK to add it to the camera list.

- Insert: Click the Insert icon for the IP/Video Server Setting panel and add IP cameras to the list. See following part (IP Camera/Video Server Setting panel) for detail.
- Delete: Click the Delete button to remove the selected IP camera(s) from the system. Click OK to finalize the modification.
- Config: Click the Camera Setting button for the IP/Video Server Setting panel. You can modify the IP camera settings with the Setting panel. See following part (IP Camera / Video Server Setting panel) for detail.

5.2.2 IP Camera / Video Server Setting panel

	IP Camera / Video Server Settin	ag	×
Network —	Network		
	Name:		
	IP Address:	🗖 DNS	
	Port:	80	
	User Name:		
	Password:		
	Protocol:	C TCP C UDP C HTTP	
Device —			
Device	Device		
	Vendor:	ZAVIO Auto Detect	
	Camera Model:		
	Video Channel:	▼ 1 □ 2 ■ 3 ■ 4	
		□ 5 □ 6 □ 7 □ 8	
Description —			
	Description		
	Video Codec:MJPEG I Audio Codec:N/A Camera:1, DI:0, DO:0	MPEG4 H264	
		🗸 OK 🗶 Cancel	

Network: Fill in required info of the Network field (including Name, IP Address, Http Port, User Name, Password and Protocol) referring to the instruction provided by the camera manufacturer. Check "Use DNS" to use domain name instead of IP address.

Device: Choose the IP camera manufacturer from the drop-down menu. Alternatively click on "Auto Detect" and the detected vendor /model name will show in the box.

Description: Shows information for the IP camera.

5.2.3 Camera Settings

amera List ——	P Image: Second conditions Image: Second condition Image: Second conditing condition Image: Second condition<	TRIAL 10 10 10 10 CAM2 ZAVIO P5111 (10.0)	b.20)
		Camera Settings ZAVIO P5111 (10.0.0.34)	Show Video Infos
		Camera Settings Stream Profile	☐ Time PM06:22:00 ▼ Gamera Number
		Go to Web Interface	Camera Name
		Video Parameter	Apply All Font

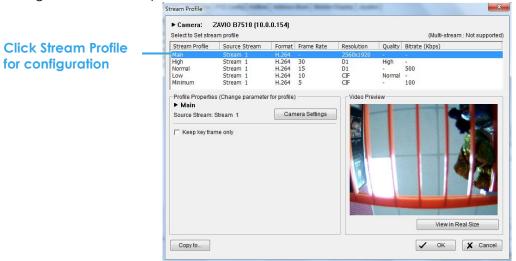
Camera List: The camera(s) connected to the system will show on the panel, click the name of the camera to adjust the setting.

Camera Name: Name the camera.

Camera Settings: Set the camera parameter such as resolution and frame rate offered by camera vendor. If the camera supports Multi-stream, you can enable the function by check "Enable Multi-Stream".

Note: Not every camera model support Multi-stream configuration, please refer latest camera support list for detail description.

Stream Profile: Stream profiles are pre-defined to preferred settings which will respond from the query of the remote live view function. Each profile has different Format, Frame, Resolution, Quality and Bit rate (Kbps) settings, you are able to config them individually.



Set camera stream		
_ Enable Mult-Strea	4111	
Camera : ZAVIO P	5111 (10.0.0.34)	
Video		
Video Format:	H264	•
Resolution:	640x480	•
Frame Rate:	10	•
Bitrate Type:	VBR	•
Bitrate:	6M	Ψ
Quality:	Medium	•
Rotate image:	None	•
Audio		
Audio:	AMR	•
🖌 ок	🗶 Ca	ncel

- Copy to: Allow user to copy the stream profile of this camera to all the other cameras Settings will be copied includes:
 - 1. The mapping relation between source stream and stream profile
 - 2. Keep key frame only setting.
 - 3. The selected stream profile for analysis.

*Cameras with Multi-stream enabled can only be copied to other cameras with Multi-stream on while cameras with Multi-stream disabled can only be copied to other cameras with Multi-stream off.

Go to Web Interface: Go to website interface to General Setting the camera setting Lens Setting: Click to enable lens or setup General Settings, such as camera position. Video Parameter: Adjusts the video's brightness, contrast, saturation, and color hue values. Show video Infos: Select the information that you wish to see in the on-screen display, or the sub-screen of the camera. Click the Font button to setup the font style.

5.3 Setting - I/O Device

I/O Device Setting —	Setting General Camera I/O Device PTZ Config Hotline Address Book Monr I/O Device Setting	tor Display Joystick Digital inputroutput pins of selected VO module Name: Input 0	Device Setting
List of devices	Module Device P Fahrera IP Camera Ubby IP Camera P Artin IP Camera Q camera IP Camera	Type: N/O Associated Camera: Fish eye Pin Name Signal Type Ø D10 Input 0 I/O Ø D11 Input 1 N/O Ø D12 Input 2 I/O Ø D13 In/VO I/O	
	Module name: Fish eye Device: IP Camera IP Address: FakeVideoRest.dat Port: 80 Digital Input Monitor	☑ Doo Output 0 N/O ☑ Doi Output 1 N/O ☑ Do2 Output 2 N/O	
Digital Input Monitor -		O OK X Cancel	Digital Output Simulation

- Module Setting: Name the module device and ID that has been connected to the digital input/output device(s) to your system.
- Device: This column displays the device(s) already installed to the system.
- IP address: key in the IP address for I/O device via TCP/IP connection
- Port(for TCP/IP connection)/COM Port(for USB connection): key in port or COM port
- ID: Select the number of the I/O port to which you plug the ribbon cable.
 - Click for test connection, for add, for delete and for modify.

Digital Input Monitor: The device(s) is turned on if the dot is red. By triggering the digital input device, the related icon will light up. This is used to check that the device is correctly connected.

Digital Output Simulation: The device(s) is turned on if the dot is red. By clicking on the icon, you may trigger the digital device connected to the system. This can be used to test if the output device is correctly connected.

Device Setting

- Name: Insert the name of the device (input and output).
- Type: Select the device type from the drop-down menu.
 - 1. N/O: Normal Open.
 - 2. N/C: Normal Close.
- Associated Camera: You may assign one camera to each digital input device. Smart Guard will collect snapshots from these cameras upon certain triggered events. For details please refer to 4.2 Action. DI's included with IP cameras will keep its own camera as default associated camera.

	🦺 Setting		×
Basic Setting	General Camera VO Device PTZ Config Ho	tline Address Book Monitor Display	Joystick
busic sening	CAMD1 ZAVIO F3206 (10.0.0.172) GAM02 ZAVIO F7210 (10.0.0.131) GAM02 ZAVIO F7210 (10.0.0.131) GAM03 F3115 CAM04 ZAVIO P5111 (10.0.0.141) GAM05 ZAVIO P5210 (10.0.0.203) GAM06 CAM2	Basic Setting Camera Model: Com Port: Baud Rate: Address:	Peico D V None V 2400 V Addr:05 V
Advanced Setting –		Advanced Setting	
Advanced sening -		Pan Speed:	, , , , Medium
		Tilt Speed:	· · · · · · · Medium
		Zoom Speed:	Medium
		Auto Pan Speed:	, j , Slow
Miscellaneous –		Miscellaneous PTZ Idle-Handling	Setup
Miscellaneous -		Patrol Group	Setup
		User-Define Preset	Setup
			✓ OK X Cancel

5.4 Setting - PTZ General Setting

Install PTZ cameras and follow the instructions of the camera manufacturer. A PTZ camera is usually connected to the PC with RS-485/RS-422.

Check the box on the camera list to activate the PTZ control function of a PTZ camera.

Basic Setting: Select the camera model, com port, baud rate, and address according to your PTZ camera.

Note: If the camera model is an IP PTZ camera, you can work PTZ function directly without the com port, baud rate, and address settings.

Advanced Setting: You may setup the pan speed, tilt speed, zoom speed and auto pan speed. Adjust the settings by dragging the bars.

Miscellaneous:

- Patrol Group: You can setup the Patrol Group, please see page 18 for detail.
- PTZ Idle-Handing: By enabling this function, the PTZ camera will automatically go back to a default preset point when no PTZ commands are under action. To enable this option, check "Back to PTZ preset after idle" and define idle periods and a default preset point.

Preset Name: Preset Number: Preset Type:		ار ا		
			Set Pres Go to Pr	
	Add	Delete		Update
ID	Name		Preset	Туре
1 2 3 4	point 17 function 1 function 2 function 3		80 99 95 65	Set Set Go Go
			ок	X Cancel

PTZ preset default setting	
Back to PTZ preset after idle	
Time interval of idle timeout:	30 Sec.
Back to preset point after idle:	PTZ home

• User-Defined Preset: User-Defined Preset for the analog speed dome can trigger the extra-function of the speed dome itself, for example auto-tracking, login menu of camera...etc. You can refer to the detailed description of each analog speed dome on its user manual.

Step1: Type the Preset Name.

Step 2: Type the Preset Number.

Step 3: Select the Preset Type.

Step 4: Press the buttons to Add, Delete, or Ute preset setup.

5.5 Setting – Hotline

*Port: 2:	5 Modem:		
	Waye File	· · · · ·	
Publicity	_	1	
565/667	Automatic hangu	p after	30 sec
		call to:	
	V		
E 68L		Dial	Hang Up
Send Test Mail	GSM modem		
		115200	<u>~</u>
*Port: 2	PIN Code:		
	interval:	1	minutes
	Send a test mess	sage to:	
	Send Test Mail	Send Test Mail Send Test Mail Port Baud Rate: Pit 21 Pit Code: Interval:	Automatic hangup after Make test phone call to: BBL Dial Baud Rate: 115200 PIN Code:

General Setting the settings of various contacts or devices, including E-mail, FTP, GSM modem and Telephone calls which will be triggered upon event detection.

E-mail: Input the following information: Server, Port, and Sender's E-mail address, E-mail's subject title, Body content and SSL option for encrypted transmission. Click on the Send Test Mail button to test the settings.

Note: * indicates mandatory fields

FTP: Input the following information: server, Port, Login ID, Password, and Upload directory, according to your FTP type to enable/disable Passive mode. You may click on the Upload Test File button to test the settings. Note: * indicates mandatory fields

Telephone: Select the modern that the system is going to dial the info call with, and then insert the phone number you want to dial to. (A modern is required for voice transition.)

Note: 1. You must use a modem with voice capability.

2. You may select a Wave format file; it will be played in the phone to alarm the person who picks up the phone call.

GSM modem: Set the Port and Baud Rate of the GSM modem device, and then enter PIN code. You can setup the interval of send SMS message. You may click on Test to send a test SMS message.

Note: The interval is set to fix a minimum time period between two SMS messages. If set as 60 min, the SMS between 60 min would be deleted and not sent to user.

5.6 Setting - Address Book

Manage the address book from which you may send out a phone call or an E-mail when an unusual event is detected.

	and contact information	otline Address Book Monito			
User Name:					
Phone:					
E-Mail:					
Description:					
Contact persons		Add	Clear	Modify	Remove
User name	Phone	E-Mail	Description		
T Michael	5551123125	mike@hotline.com			
				✓ OK	Canc

5.7 Setting – Monitor Display

Cameras List

Playbo	Setting General Camera UO Device PTZ Config Hotline Address Book Monitor Display Joystick Primary Secondary Select Channel Selected Channel Selected Channel Control Primary Channel Control P	Auto Scan - Layout
	Software Display on Monitor Run Mainconsole System on Monitor 1 - Run Mainconsole Secondary screen on Monitor 2 - Run Playback System on Monitor 2 - COK X Cancel	

Software Display Option

Software Display Option: Execute Main Console and Playback System on the assigned monitor by checking the box. Make sure to adjust the display setting of your computer in advance to avoid system error.

- Cameras List: The left side displays a list of all cameras; modify the cameras shown on primary/ secondary monitor in the right window.
- Auto Scan: Activate auto scan to rotate the channels/ cameras on the display screen.
 - For instance, you may select to show only 4 sub-screens on the main console while having 16 channels connected to the system. With auto scan function, you will be able to see all 16 channels by turns. You can set up a primary channel that will always be on the screen and a secondary channel that has secondary priority.

Layout: Choose the number of divisions for NxN division on the Main Console screen.

5.8 Setting – Joystick

* Note: This function is not available under Lite license.

		Function	Parameter
Setting	/		
General C	amera I/O Device PTZ	Config Hotline Address Book Mor	nitor Display Joystick
	stick: CH PRODUCTS IP DE		
Active Juy	SUCK. [CHPRODUCTS IP DE		
Button	Function 🦊	Parameter 🖊	
Button 1	Goto Preset Point	1	
Button 2	Goto Preset Point	2	
Button 3	Goto Preset Point	3	
Button 4	Goto Preset Point	4	
Button 5	Goto Previous Camera		
Button 6 Button 7	Goto Next Camera Toggle Single Camera View		
Button 8	Toggle Full Screen		
Button 9	Switch Screen Layout		
	Switch Active Monitor		
Button 11	PTZ Speed Down		
Button 12	PTZ Speed Up		
	Imp	ort Export Default	
	mport	Export Defau	lt
			V OK X Cancel

Function: You can choose the function from the drop-down menu for the button of the joystick.

실 Setting		
	amera I/O Device PTZ Config Hotline Address loystick: CH PRODUCTS IP DESKTOP CONTRO	
Button Button 1 Button 2 Button 3 Button 5 Button 5 Button 5 Button 7 Button 9 Button 1 Button 1	N/A Goto Preset Point Goto Preset Point Goto Camera Goto Next Camera Goto Next Camera Switch Screen Layout Toggle Single Camera View Toggle Full Screen 0 Start/Stop Auto Scan 1 PTZ Speed Up	Parameter 1 2 3 4
	Import Exp	ort Default

Note: Following is a complete list of all log types:

- 1. N/A
- 2. Goto Preset Point
- 3. Goto Camera
- 4. Goto Previous Camera
- 5. Goto Next Camera
- 6. Switch Screen Layout
- 7. Toggle Single Camera View
- 8. Toggle Full Screen

- 9. Start/Stop Auto Scan
- 10. PTZ Speed Up
- 11. PTZ Speed Down
- 12. Zoom Wide
- 13. Zoom Tele
- 14. Start/Stop Patrol
- 15. Switch Active Monitor

Parameter: You can choose the parameter of the function from the drop-down menu.

Default: You can set the default setting for the joystick. Export: You can export the setting of the joystick.

Import: You can import the setting of the joystick.

5.9 User Account Setting

General Setting all user accounts under this settings page.

Note that this page is only accessible by the default admin account.

User

Add new users and modify or remove existing users.

You may choose to add **Basic Users** directly in the system or import users from MS Active Directory (MSAD) as **Windows Users**.

*Note: Please remember to add your Windows login AD user account to the local PC's administrators user group. Main Console can be launched by administrators only.

🖕 τ	ser Account Se	tting					5	3	
U	ser Privilege								
	User name	Group	Description	Login Username	User Account				
	admin	Admin	Administrator	admin	User Account Type:	Basic User			
	ad ad	User	Basic User	User Name(1)	User Name:	ad			
					Group:	User	•		
					Description:	Basic User			 User account Setting
					Password:	****			
					Password Confirm:	****			
					Disable User Account				
					Keep remote login for	3	minutes		
					Access Video Period for	7	day(s)		
	Dele	te Basi	ic User		Automatic Sy Windows Use		•		
	<		111	>					
	🏖 🍰 💑	5		殸					
						V OK	Cancel		

Add Basic User Add/Remove/Synchronize Windows User

Basic Users

Click on 🚨 to add a new Basic User. Click on 🚨 to delete an existing Basic User.

Create and modify the content of each user account under **User Account** Setting:

- User name: Insert the user name.
- Group: Assign the group for each user.

There are 3 default privilege profiles of account groups:

Admin: Have privileges of all system functions and devices, except adding/deleting/modifying privileges of other users.

Power User: Have limited privileges of system functions and complete privileges of assigned devices. User: All the privileges of system functions are forbidden. Users can only manage assigned devices.

- Description: Insert the description related to each user.
- Login Username: the user account display name when login.
- Password: Insert the password assigned to each user.
- Password confirm: Insert again to confirm the password.
- Enable dual password validation: Insert the second password assigned to each user. If this function enabled, the second password will be required for certain operation depends on the setting of "Privilege" page.
- Disable User Account: By checking this option, the account's access to the system will be blocked.
 Disabled accounts will be marked with a cross on the icon £.
 Note: Only the default admin account cannot be disabled.
- Keep remote login for ___ minutes: Insert the duration to auto kick out account after logging in from Remote Live Viewer or Remote Playback server.
- Access Video Period for <u>day(s)</u>: Insert the duration for account to access video period.

Windows Users

Click on 👹 to add/remove/synchronize Windows Users.

Select User

Check users or folders under **Select Active Directory user(s)** and click **OK** to add Windows Users.

Select User	
Active Directory Domain: EricChen	
Select Active Directory user(s):	
Administrators (Administrators 金属 Administrator 金属 User (Cher Chen) 金属 Users (Guest 根據預設和 User) 金属 Users (Guest 根據預設和 User) 金属 Users (Power Users (Guest Quests Quests (Guest Quests Quests (Guest Quests Quests (Guest Quest Quests Quests (Guest Quest Quests (Guest Quest Quests (Guest Quest Quest Quests Quest Q	perators 只能因爲備份或還 er 群組的成員享有同樣的存 援中心群組) ors (在這個群組中的成員可 有大部分有所限制的系統 個群組中的成員被授權進行
Group mapping: MSAD Group	Main Console Group
Administrators	Admin
	OK 🗶 Cancel

Click **Select All** to check all available users and folders, or click **Deselect All** to uncheck all users.

Group Mapping:

Selected Windows users will be grouped according to default mapping: _____

MSAD Group	Main Console Group		
Administrator	Admin		
Guest	User		
Other	PowerUser		

You may modify group setting for each user later under the User Account page.

Click **OK** when you are done adding Windows users.

Synchronization results will be displayed for confirmation.

tive Directory Sync T	ool	
Conflicts:		
User Name	Description	Solution
Section Manual Administrator	管理電腦/網域的內建帳戶	Add to MainConsole
Semonstration		Add to MainConsole
V SER		Add to MainConsole
SUPPORT_3	這是個說明及支援服務的廠商帳戶	Add to MainConsole
🗹 🞎 HelpAssistant	提供遠端協助的帳戶	Add to MainConsole
		OK Cancel

Please refer to the default solution for all conflicts:

- New accounts added from AD domain: Add to Main Console
- Accounts from AD domain removed: Delete from Main Console
- Account description modified:
 Update description
- Encountered admin account: Skip admin account
- Newly added account from AD domain conflicts with existing basic user account: Replace basic user account

Uncheck items to skip applying solution to Main Console user account settings.

For example, if you uncheck an "Add to Main Console" solution, the new account will not be added to Main Console's user account list.

Automatic Synchronize Windows User Setting

Instead of manually adding and updating Windows users, you may also config the system to automatically synchronize all Windows users at a specific period. Click 🞉 to do this.

Automatically Synchronized Setting						
Automatically synchronized setting						
Automatically synchronize	✓ Automatically synchronize Windows users					
Synchronized period:	1 Day(s)					
Synchronized time:	10:00					
L	VOK X Cancel					

- Automatically synchronize Windows users: Check to enable automatic synchronization. Synchronized period:
- Configure the synchronization to start every <u></u>days. Synchronized time:
- Define at what time the synchronization should start.

Note: Auto synchronization will apply all default solutions to conflicts.

Privilege: Define detailed privilege of functions and devices for each user account.

🖕 User Account Setting	×	Ì
User Privilege		
User name Group Description Login Username	Privilege:	
admin Admin Administrator admin	Function	
add User Basic User User Name(1)	Login Main System	
	Exit Main System	
	Configure Main System	
	Start/Stop Operation	Privilege
	Start/Stop Network Service	Inviege
	🖃 🗹 Local Backup	
	Delete Recorded Files	
	Remote Backup	1
	Remote Login	
	Browse Log	
	🛛 🗹 Login Playback System	
	🛛 🗹 Minimize Main System	
	😑 💻 Device	
	🖻 🏖 Camera	
	□ ZAVIO F3206 (10.0.0.172)	
Copy Privilege to		
	→ V Remote Taik	
	Remote Access	
a0		
	V OK X Cancel	

- Function: General Setting settings, operation related, system General Setting, and privilege of remote access.*
- **Device:** General Setting device privileges of camera, digital output and metadata sources in Main Console and client applications.
- Copy Privilege to...: Click this button to copy privilege settings of any account to another.

Note: The privilege of default admin account cannot be configured.

5.10 Auto Backup Setting

General Setting your system to automatically backup video data on a daily or weekly basis. * Note: This function is not available under Lite license.

Auto Backup Config: General Setting auto backup settings on this page.

- Enable Schedule Backup: Check to enable backup process.
- Select Camera(s) to Backup: Choose all channels to backup.
- Option
 - Location: Define backup route.

Backup Playback System: Check to backup the playback application with each process. Send Mail when Backup Failed: Check to receive an email notification when backup fails. Click **Setup**

for email configuration. Select one or more contacts from the address book and configure customized message content.

Recurrence: Choose start time and Recurrence: Daily or Weekly modes.

to Auto Backup Setting	×	1	
			Select Contactor
Auto Backup Config Auto Backup Statistic			
Enable Schedule Backup			Contactor: Edit Address Book
Select Camera(s) to Backup:			Name E-Mail Address
CAM01 ZAVIO F3206 (10.0.0.172)	Option		☑ 👕 Michael mike@hotline.com
ECAM02 ZAVIO F7210 (10.0.0.131) ECAM03 F3115	Location: C:\Documents and Se		
 ✓ E CAM04 ZAVIO P5111 (10.0.0.141) ✓ E CAM05 ZAVIO P5210 (10.0.0.203) 	E Backup Playback System		
	Send Mail when Backup Failed		
	Setup		
	Recurrence		
	Start Time: 01:00		
	Recurrence: Daily		Customized message content:
	Every 7 Day(s)		Backup failed, please check network settings and storage.
			Datkup laneu, please thetk network settings and storage.
			V OK 🗶 Cancel
	Cancel		

Auto Backup Statistic: Shows statistics on current or latest backup status. Click Refresh to update.

🖒 Auto Backup Setting	🐼 Auto Backup Setting				
Auto Backup Config Auto Backup Stat	tistic				
Current Backup Status:	Idle	Refresh			
Next Backup Start Time:	N/A				
Next Retried Process Time:	N/A	Refresh			
- Last Backup					
Last Backup Start:	N/A				
Last Backup Stop:	N/A				
Backup Video Period:	0 min 0 sec				
Backup Size:	0.00 GB				
Backup Result:	Complete				

 Current Backup Status: Idle: not active or awaiting next backup process Backup...: Backup under process Retry...: Previous backup failed, awaiting retry
 Next Backup Start Time: Scheduled time for next backup process
 Next Retried Process Time: Scheduled time for next backup retry process. N/A when status is Idle or under Backup.

Last Backup

Last Backup Start: Time and date last backup started. Last Backup Stop: Time and date last backup was complete or had failed. Backup Video Period: Total time spent on last backup process. Backup Size: Total file size of last backup. Backup Result: Completed: Last backup succeeded. Failed: Last backup failed, under retry process. Timeout: Last backup failed, retry process timed out.

5.11 Counting Report Setting

Configure system to automatically send out the people counting report via E-mail or FTP periodically. * Note: This function is not available under Lite license.

General setting:

- Mode: Select counting source you would like to backup.
- Frequency: Define the report frequency.
- Resend if first transmitting fails: Setup retry internal and times.
- Report through: Select report method.

Format Setting:

- Report format: Select report format (Diagram / .CSV) and file name prefix.
- Advance setting: Customized column name for .CSV format.

E-mail Setting:

• Synchronize with Hotline E-Mail setting: Click this option to synchronize the setting so no need to input information again. Skip the option to input all necessary information of an SMTP server.

FTP Setting:

• Synchronize with Hotline FTP setting: Click this option to synchronize the setting so no need to input information again. Skip the option to input all necessary information of an FTP server.

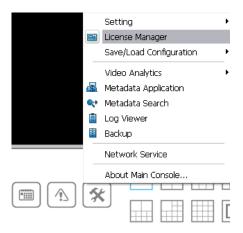
Counting Report Set	ting			x				
🔽 Enable Auto Up	✓ Enable Auto Upload Counting Report							
General Setting	General Setting Format Setting E-mail Setting FTP Setting							
Basic								
Mode:	Basic Counting	C Adv. IVS Co	ounting					
Frequency:	Hourly	Send every	1 Hour(s)					
Start from	01:05	То	01:05					
Resend if first tra	ansmiting fails:							
Retry interval:	1 Min(s))						
Retry times:	10							
Report through:								
🗖 E-Mail								
FTP								
			✓ OK 🗶 Cand	cel				

5.12 License Manager

The license of the software should be registered first before operating the former version of Intelligent Surveillance System.

Execute the License Management Tool in General Setting >License Manager to activate the license from dongle or serial number allocated with the software package, or de-activate the license then bring it to another PC to activate it again.

Note: Please refer page 110 for the detail setting of License Management tool.



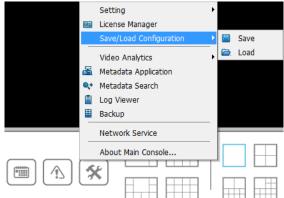
5.13 Save/ Load Configuration

The Save/Load General Setting function allows system users to save any specific setting as a CFG (General Setting) file. You may save several different CFG files at a time.

Save General Setting: To save a specific setting, go to General Setting - Save/Load Configuration - Save. In the popup window, type in the file name and then save it as a CFG file.

Load General Setting: To load a specific setting, go to General Setting - Save/ Load Configuration - Load. In the popup window, go to the directory that you saved the CFG files at, select any one of them and then click OK to load the file.

Note: Main Console will be automatically shut down after loading a new General Setting. Restart Main Console manually.



5.14 Video Analytics - Counting Application

Count objects, people or vehicles passing through pre-defined detection zones.

To access this page, login with admin account or user account with privilege of config main system.

* Note: This function is not available under Lite license.

	🗞 Counting 🛛 🔀
Camera List	CAMD1 (ZAVIO F3206 (10.0.0.172)) CAMD2 (ZAVIO F7210 (10.0.0.131)) CAMD3 (F3115) CAMD4 (ZAVIO P5111 (10.0.0.141)) CAMD5 (ZAVIO P5210 (10.0.0.203)) CAMD6 (CAM2)
Region Definition	Region Definition Options Runtime © Define detection zones [©] 1 Way Counting [©] Show counting result In: [©] 0 © Define object size [©] 2 Way Counting [©] 0ut: 0 0ut: 0
Start Simulation	Clear Start Simulation OK Cancel

Camera List: Select which camera would enable counting application. Operation:

Define detection zones: Defined the detection zone.

Define object size: Defined the size of the object to count.

Options: 1Way Counting will take objects going from Region 1 to Region 2 as one count. In **2 Way Counting** mode, it counts either going from Region 1 to Region 2 or from Region 2 to Region 1.

Runtime: Check the boxes to show the counting result on the screen and/ or show object bounding box, which draws the shape of the object that the system detects in red squares. You can choose from the drop-down menu of how long you want to reset the counting number.

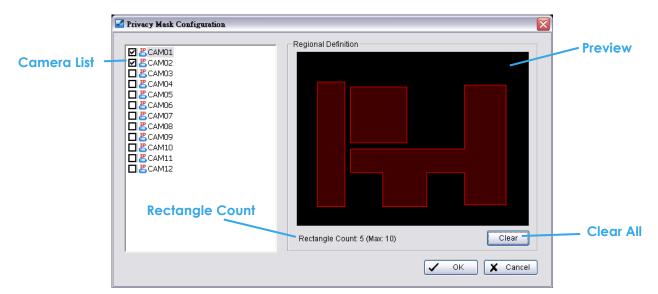
Start Simulation: Click to test the setting.

5.15 Video Analytics – Privacy Mask

Mask your video with dark areas to protect your privacy.

To access this page, login with admin account or user account with privilege of configuring main system. * Note: This function is not available under Lite license.

Privacy mask settings will apply to local and remote live view, web live view, local playback, remote playback and web playback.



Camera List: Check cameras to enable privacy mask.

Regional Definition: Click and drag to define privacy masked areas.

Rectangle Count: Maximum 10 rectangles can be drawn to define privacy masked areas. Clear: Click to clear all rectangles.

5.16 Metadata Application

* Note: This function is not available under Lite license.

The Metadata application now supports three different data types, including POS, LPR and access control. This tool can be used to General Setting these devices. Note that you will need additional licenses to use these features. Instructions on license activation can be found on page 110. Refer to the Metadata User Manual for more details.

🄅 Metadata Application	
Data Source Display Plug-in	
Insert ★ Delete ★ Configure	Settings C Record Metadata Transaction C Display on Video Preview C Always Display C Last for 10 seconds Tag Filter Demo for Dene
	New Edit Delete Import Export Associated Cameras
	正正の目的 16-03/2018 57:25:52 16-03/2018 57:25:52 16-03/2018 57:25:52
	Display Region Definition © Default C User Define OK X Cancel

5.17 Network Service

There are 5 types of network services:

Live streaming server, Remote playback server, 3GPP service, Remote Desktop, and Central Management Service. From the Main Console, go to General Setting - Network Service to obtain the Network Service panel.

An icon shows for each network service in the information window of Main Console when started. See 1.1 User Interface Overview for details.

	LiveView	Playback	3GPP	Desktop	CMS
Start	e			V.	
Stop	e	D		S	

	Setting >	
	License Manager	
	Save/Load Configuration	
	Video Analytics	
5	Metadata Application	
•	Metadata Search	
Ē	Log Viewer	
	Backup	
	Network Service	
	About Main Console	
~	۶	
3		

5.17.1 Live Streaming Server

When starting the live streaming function of computer, the system allows remote users to log in to the specific computer and view cameras that are connected to it. As system administrator, user could be able to monitor these accounts in order to maintain the system efficiency.

Main

On Live Streaming Server panel, administrator can see all the clients who are currently logging in to the computer and watching the live video from the remote side.

Network Service - 192.16	8.4.39 / 192.168.1.53			×
	Main Black / White List Perform	mance)		Client list
Live Streaming	Client Count	0 Kill	Kill All	T
Remote	State IP	Camera Bitrate (Kb	ips)	
Playback				
3GPP Service	- Service Server Status: Stopped	Start	Stop	Jervice
Remote Desktop	Options Port:	5150	Default	
	Maximum Connections: Use Default Web Server Port:	128		Options
Central Management	Save Log	C:\Documents and Setti	ngs\adr 💼	
Push Notification				
		🗸 ок	🗶 Cancel	

Client list:

- Client Count: Show the amount of channels that are connecting to system.
- Kill Client: Highlight an IP address and click the "Kill Client" button to block the client from your client list.
- Kill All Clients: Click on this button and all clients are blocked from logging into your system.

Service:

• Server Status: Click Start/Stop to turn on/off this option.

Options: Adjust the setting only when the server is stopped.

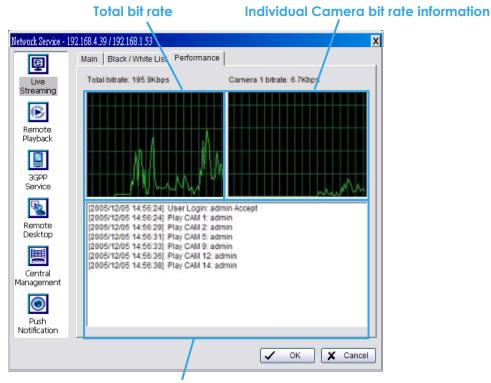
- Port: Assign a port for the clients to connect to your system via Remote Live Viewer. Default port is 5150.
- Maximum Connections: Number of connections that are allowed to connect to the system. Default and maximum is 128, one camera video counts as one connection.
- Use Default Web Server: Activate the Web server by checking the box; clients will be able to watch live video via Internet Explorer. The port for live streaming server is set to 80 by default.
 Note: This must be checked in order to access system via IE*.
- Save Log: Save the log information at appointed folder.
- Enable Audio: Select this option to enable the audio transmission along with video stream.

Black / White List

Network Service - 192	2.168.4.39 / 192.168.1.53	
Ę	Main Black / White List Performance	Enable list
Live Streaming		
E	192.168.2.50 to 192.168.2.80	IP address
Remote Playback	Add to White List Delete	
	Add to Black List	Black/ White
3GPP Service	ID IP Range Access 0 192.168.4.39 - 192.168.4.40 Accept	list
	1 192.168.4.50 192.168.4.55 Accept 2 192.168.1.80 192.168.1.90 Deny	
Remote Desktop		
Central Management		Apply to all
Push Notification	Apply to All Network Servers	
	V OK Cancel	

- White List: Check the "Enable White List" box to activate the white list filter. Only IP from the white list is allowed to log in.
- Black List: Check the "Enable Black List" box to activate the black list filter. IP from the black list will be blocked.
- IP Address: Enter an IP address into the IP address field on the left. To add an IP address range to the system, enter 2 sets of IP address to indicate a series of IP(s).
- Add/Delete: Add the IP(s) onto the list or remove it from the list.
- Apply to All Network Servers: Apply the settings to both the live streaming server and the remote playback server.

Performance



Live Streaming Server log information

5.17.2 Remote Playback Server

When starting the remote playback function, the system allows remote users to log in to the specific computer and withdraw data files that are stored on it. As system administrator, user could be able to monitor the accounts logging in to maintain the system efficiency.

Main

On Remote Playback Server panel, administrator can see all the clients who are currently logging in to the computer and watching the playback video from the remote side.

Network Service - 192.	168.4.39 / 192.168.1.53 🔀
ę	Main Black / White List Performance
Live Streaming	User Count 0 Kill Kill All Client lis
Remote Playback	IP User Bitrate (Kbps)
Service	Service Service Service Service
Desktop Central	Port: 5160 Default Options Maximum Users: 64
Management Push Notification	✓ Use Default Web Server Port: 80 ✓ Save Log RemotePlayback.log
	✓ OK X Cancel

Client list:

- User Count: Show the number of users that are connecting to system.
- Kill: Highlight an IP address and click on the "Kill Client" button to block the client from your client list.
- Kill All: Click this button and then block all the clients logging to your system.

Service:

• Server Status: Click on Start/Stop to turn on/off this option.

Options: Adjust the setting only when the server is stopped.

- ons: Adjust the setting only when the server is stopped.
- Port: Assign a port for the clients to connect to your system via Remote playback server. Default port is 5160.
- Maximum Users: Number of connections that are allowed to connect to the system. Default and maximum is 64.
- Note: One user counts as one account that is logging in to the server.
- Use Default Web Server: Activate the Web server by checking the box; clients will be able to watch live video via Internet Explorer. The port for live streaming server is set to 80 by default.
 Note: Must check this item for system access via IE*.
- Save Log: Save the log information at appointed folder.

Black / White List and Performance - Please refer to Live Streaming Server section

5.17.3 3GPP Service

When starting the 3GPP service function of your computer, the system allows remote users to log in and view cameras that are connecting to it with 3GPP supported mobile phone. See Appendix A for more details about 3GPP Service.

Network Service - 192.	168.4.39 / 192.168.1.53 🛛	
Ę	Main	
Live Streaming	Client Count 0	t
	State IP Camera User Agent	
Remote Playback		
3GPP Service		
	Service Service Service Service	e
Remote Desktop		
	Port: 554 Default Option	15
Central Management	Enable User Authentication	
Push Notification		
	V OK Cancel	

Client list:

• Client Count: Show the number of channels that are connected to system.

Service:

• Server Status: Click Start/Stop to turn on/off this option.

Options: Adjust the setting only when the server is stopped.

- Port: Assign a port for the clients to connect to your system via 3GPP Service. Default port is 554.
- Enable User Authentication: User need to insert the username and password to login to the 3GPP server and view the video stream.

5.17.4 Remote Desktop

When starting the Remote Desktop, the system allows remote users to use Remote Desktop Tool to login and General Setting system. See Appendix B to install and use this tool.

Network Service - 10.0.0	
Live Streaming	Main Options Port: 5140 Default Disconnect idle client after (300~3600 sec.): 300
Remote Playback 3GPP Service	Authentication Authentication (Use admin password)
Remote	Server Status Server Status: Stopped Start Stop
Central Management	
Push Notification	✓ OK X Cancel

Options:

- Port: Assign a port for Desktop tool to login and General Setting system.
- Disconnect idle client after (300~3600 sec): Auto disconnect the on-line user who idled more than set period.

Authentication:

Enabling this option would only allow admin account to use Desktop tool to login system.

Service:

• Server Status: Click Start/Stop to turn on/off this option.

5.17.5 Central Management Service

* Note: This function is not available under Lite license.

This service only supports Central Management System (CMS). When starting the Central Management Service, Main Console sends event information to CMS and allows the CMS system to control I/O devices from a remote site.

- 1. To enable this action, go Guard >Action and select "Send to Central Server" to enable the action triggered by preference event.
- 2. Please refer to the user manual of Central Management System for detailed information.

Network Service - 10	0.0.0.135
Live Streaming	Main Client Count 0 Kill Kill All Client State IP Client
Remote Playback 3GPP Service	Service
Remote Desktop	Server Status: Stopped Start Stop Options Port: 5170 Default Options
Management Push Notification	Maximum Connections: 8

Client list:

- Client Count: Show the amount of NCS Servers that are connected to system.
- Kill: Highlight an IP address and Click the "Kill Client" button to block the client from your client list.
- Kill All: Click this button and then block all the clients logged in to your system.

Service:

• Server Status: Click Start/Stop to turn on/off this option.

Options: Adjust the setting only when the server is stopped.

- Port: Assign a port for NCS System to connect Main Console system. Default port is 5170.
- Number of connections from NCS Servers that are allowed to connect to the system. The default is 8 NCS Servers and maximum is 16.

5.17.6 Push Notification

When starting the Push Notification service function of your computer, the system allows users to view and delete mobile device.

Network Service - 1	0.0.0.135
Ē	Main
Live Streaming	Device Receive Count 0 Kill Kill All
E	User name ID Lease time Login Username
Remote Playback	
Live Streaming Remote Playback GPP Service Remote	
Remote	
Central	
Central Management	
Push	
,	V OK X Cancel

Device list:

- Device Receive Count: Show the amount of user with mobile device that are connected to system.
- Kill: click the "Kill" button to delete the user from your device list.
- Kill All: Click this button and then delete all the devices logged in to your system.

5.18 Help

Click Help to connect to FAQ of website

5.19 About Main Console

Go to About Main Console for detailed system and license information.

	Setting •	About Main Console	
	License Manager Save/Load Configuration	IP Surveillance System 5.0.10.0 Trial © 2004-2014 All rights reserved.	OK
	Video Analytics Metadata Application Metadata Search Log Viewer Backup Network Service About Main Console	Product Information Model Type: IPS-IP+ Device Pack Version: 3.0.5 Camera IP Camera License Number: 64 Metadata POS License Number: 1 LPR License Number: 1 Access Control License Number: 1 Video Analytics License Number: 1	
<u> </u>		Bui	ld 5.0.10.0



With E-Map, users can easily track the actual location of an occurring event, at the moment it happens.

The arrow and lightning icons on E-Map represent cameras and I/O devices. These icons will turn red once they are triggered by alarms.

To launch the E-Map application, simply Click Start and select Open E-Map from the start menu for the E-Map window.

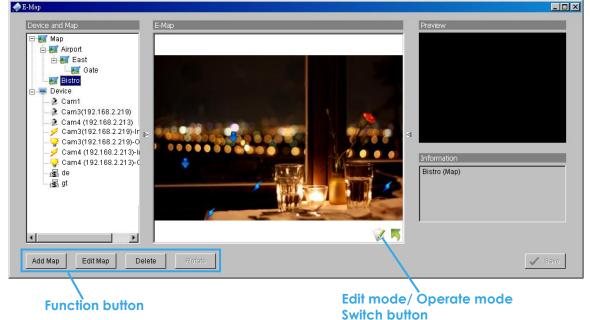
There are 2 modes available in the E-Map application:

Edit mode: Allows users to add/edit maps and indicators of devices. In Edit mode, the function buttons on the bottom of the window will be available. Please complete General Settings before running E-map function for the first time.

Operate mode: All settings will be activated in this mode.

6.1 Edit Mode

All E-map modifications must be configured in Edit Mode.



6.1.1 Add/Edit/Delete Map

Add E-Map:

- Step 1: Click the switch button to switch to Edit mode. Make sure all devices are connected and setup properly.
- Step 2: Right click the Map 😿 icon in device and map list to obtain the option menu to add map, or just click "Add Map" button to obtain the "Map General Setting" dialog.

Map Config			
Map Image File:			
Map Name:			
	🗸 ок	X Cancel	

- Step 3: Select the map file and insert the map name. Click OK, and then the map you added appears in the tree structure of device and map list.
- Step 4: The map indicator appears on the left-up corner of parent map. Drag it to the position you want on appointed map.

Edit E-Map:

- Step 1: Make sure you are in Edit mode and all devices are connected and inserted.
- **Step 2:** Right Click the "Map **S**" icon to obtain the option menu to edit map, or just click the "Edit Map" button to obtain the "Map General Setting" dialog.
- Step 3: Modify the required details, and then click OK to save General Setting.

Delete E-Map:

- Step 1: Make sure you are in Edit mode and all devices are connected and inserted.
- **Step 2:** Right Click the "Map **S**" icon to obtain the option menu to delete map, or just click the Delete button to remove appointed map from list.
 - *Note:* The root map cannot be deleted.

6.1.2 Add/Rotate/Delete Device Indicator

Add Indicator:

Step 1: Make sure you are in Edit mode and all devices are connected and inserted.

Step 2: Click the "**Map**" icon to go to the desired map layer.

Step 3: Please make sure the map you want is displayed. Select device from the list and drag a device directly to the desired location on the map.

Note: Different devices are symbolized by different indicators.

🕨 - Camera indicator, 🔎 - Digital Input indicator, 📍 - Digital Output indicator

📠 - Access Control indicator, 🤹 -POS indicator, 💼 - LPR indicator

Rotate Indicator:

Step 1: Click an existing camera indicator on your map under Edit mode. This camera indicator will be

marked with a green ring \heartsuit .

Step 2: Each Click the Rotate button rotates the indicator 45 degrees clockwise. Note: Only camera indicators are allowed to be rotated.

Delete Indicator:

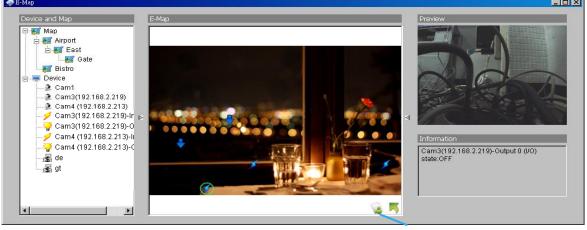
Step 1: Click on an existing camera indicator on your map under Edit mode. This camera indicator will

be marked with a green ring \heartsuit .

Step 2: Click on the Delete button and the indicator will be gone.

6.2 Operate Mode

After General Setting under Edit mode, switch to Operate mode to commit settings.



Operate mode/ Edit mode Switch button

6.2.1 Device and Map Tree list

This window will list all devices and map hierarchies; click device or map indicator to show related information on E-Map windows.

Map – Select the map you want to show on E-Map Window.

Camera – A preview of the selected camera will show in the preview window. The indicator, if previously created, will be highlighted on the map.

Digital Input/Output – Select to highlight the device with a green ring on the map and show status on Information window. If the Digital Input/Output is from an IP camera, the preview window will display live video of the camera.

R have a select to highlight the Access Control / POS / LPR device with a green ring on the map, and display live video of the first associated camera on the preview window.

6.2.2 E-Map picture

This window will show the map layer and indicators.

Device Indicator:

Select device indicators from the Device and Map Tree list for related information and to preview video. **Map indicator:**

Selecting a map indicator will bring you to that map layer. To return to an upper layer, right click on the map and select **UP** or click $\[map]$ on the map layer.

6.2.3 Information and Preview windows

This window will show the related information of each indicator.

🌃 Map Info – Shows map name.

Camera – Shows camera name and connection status.

Digital Input/Output – Shows Digital Input / Output name and status (0 or 1).

🖬 🐿 🖓 Access Control/POS/LPR – Shows metadata device name, connection status, first associated camera name and connection status.

Triangular 6.3 Layout Adjustment indicator 🔶 E-Map Мар Mirport 🗄 🔣 East 🌌 Gate 2 Cam1 Cam3(192.168.2.219) 🏂 Cam4 (192.168.2.213) Cam3(192.168.2.219)-Ir Cam3(192.168.2.219)-O Cam4 (192.168.2.213)-li Cam4 (192.168.2.213)-0 Bistro (Map) • Delete Rotate Add Map Edit Map 🗸 Save

Shrink the window:

Click " ▶ ◀ Triangular indicators" to hide the "Device and Map" or "Preview" and "Information" windows on the right and left sides. Click again to go back to the default layout.

Full screen display:

For systems with dual monitor, users can view Main Console on the primary monitor, and view a full-sized E-Map on the secondary monitor.

- Step 1: Click " ▶ ◀ Triangular indicators" to hide the "Device and Map" or "Preview" and "Information" windows on the right and left sides.
- Step 2: Click "
 " on the upper-right corner of the window for the full screen mode of E-Map.



7. Log Viewer

🔎 Log Viewer				
System Log Export ar	nd Backup Log 🛛 Unusual Event 🗍 Cou	nting Application	Counting Application (Diagra	m) 🛛 Metadata Log
Log Type:	All			
Date:	2011/03/29 💌 🌲			Export to
Date Time:	2011/03/29 18:14:09 💌 👻 to	2011/03/2	9 18:14:09 💌 🗮	Search
Event Time	Event Type	Camera	Description	
2011/03/29 16:02:23 2011/03/29 16:02:23 2011/03/29 16:02:28 2011/03/29 16:02:28 2011/03/29 16:02:28 2011/03/29 17:47:00 2011/03/29 17:58:16 2011/03/29 17:58:16 2011/03/29 17:58:21 2011/03/29 17:58:21 2011/03/29 17:58:21	User Login Start Live Streaming Server Start Remote Playback Server Start Remote Desktop Start Central Management Stop Central Management Main Console Shutdown Main Console Startup User Login Start Live Streaming Server Start Remote Playback Server Start Remote Desktop		admin admin	
<		Ш		

View the history and export reports of unusual events detected by the Smart Guard System.

To launch Log Viewer, simply Click **General Setting** and select **Log Viewer** from the menu.

7.1 System Log

Step 1	System Log Export a	nd Backup Log Unusual Eve	nt Counting Application	on Counting Application (E	iagram) Metadata Log	
	2 //	All			- Emerate	
Step 2	Date: Date Time:	 ✓ 2011/03/29 ▼ ✓ 2011/03/29 17:13:11 ▼ 	to 2011/0	3/29 17:13:11 💌 🚔	Export to Search	
	Event Time	Event Type	Camera	Description		
	2011/03/29 16:02:23 2011/03/29 16:02:28 2011/03/29 16:02:28 2011/03/29 16:02:28 2011/03/29 16:02:28	Main Console Startup User Login Start Live Streaming Server Start Remote Playback S Start Remote Desktop Start Central Management		admin		Step 3

Step1: Choose the type of event you want to check or select All from the drop-down menu for all types of events. Select Log Type form the drop-down menu. There are in total 37 types of log types, including:

✓

√

- ✓ Main Console Startup
- ✓ Main Console Shutdown
- ✓ User Login
- ✓ User Login Failed
- ✓ Start Schedule
- ✓ Stop Schedule
- ✓ Execute Recycle
- ✓ Enable Channel
- ✓ Disable Channel
- ✓ Start Smart Guard
- ✓ Stop Smart Guard
- ✓ Modify Smart Guard
- ✓ Modify Schedule
- ✓ Modify Configuration
- ✓ Start Live Streaming Server
- ✓ Stop Live Streaming Server
- ✓ Modify Live Streaming Server
- ✓ Start Remote Playback Server
- ✓ Stop Remote Playback Server

- Modify Remote Playback Server
- **IP** Camera Connection Lost
- **Restart Windows**
- √ Modify Metadata Setting √
- Metadata Connection Lost ✓
 - Modify E-Map
- ✓ Start Remote Desktop
- ✓ Stop Remote Desktop ✓
 - Modify Remote Desktop
- ✓ Start Central Management √
 - Stop Central Management
- ✓ Modify Central Management
- √ Start Counting Application
- √ Stop Counting Application
- ✓ IP Camera Connection Regained
- ✓ Sync. Microsoft Active Directory User
- ✓ IP Camera Parameter Changed
 - Update Metadata Plug-in

*Note: Detection of some system logs is not available under Lite license.

Step 2: View the events that happened on a particular date or during a given time period by selecting search period.

For a particular date: check the **Date** box right and indicate the date.

For a period: check the **Date Time** and then enter the date and time.

Step 3: Click Search.

7.2 Export and Backup Log

View the Export and Backup Log history that had been operated by local or remote user.

- Step1: Choose the type of event you want to check or select All from the drop-down menu for all types of events.
- Step 2: View the events that happened on a particular date or during a given time period by selecting search period.

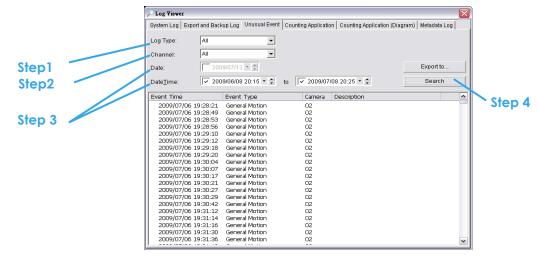
For a particular data: check the **Date** box right and indicate the date.

For a period: check the **Date Time** and then enter the date and time.

Step 3: Click Search

🔎 Log ¥iewer											_ 0
System Log Export and	d Backup Log 🛛 (Jnusual Eve	nt Counting A	pplication 🛛 Counting App	lication (Diagram) 🗍 Metac	iata Log					
Log Type:	11	-									
Date:	2010/01/25 -	*									Export to
Date <u>T</u> ime:	2010/01/25 18	3:47 💌 📩	to 20	0/01/25 18:47 💌 🗮							Search
Event Time	Event Type	Success	Username	Start Time	End Time	Length	Camera Index	File Path	DB	Audio	
2010/01/25 18:35:05	Export Video	Yes	admin	2009/07/06 17:43:17	2009/07/06 17:43:28	Odays 00:00:11.000	3	C:\Documents and Set		No	
2010/01/25 18:35:46 2010/01/25 18:36:24	Backup Backup	Yes Yes	admin admin	2009/07/06 17:43:17 2009/07/06 17:43:17	2009/07/06 17:43:28 2009/07/06 17:43:28	0days 00:00:11.000 0days 00:00:11.000	2,5 2,3,4,5	D:\NUUO\sw\Dorcus26 C:\Documents and Set		N/A N/A	

7.3 Unusual Event



- Step1: Choose the type of events you wish to view or select All from the drop-down menu to view all. The types of Unusual Events include General Motion, Foreign Object, Missing Object, Focus Lost, Camera Occlusion, Signal Lost, Disk Space Exhausted, System Health Unusual, Digital Input Triggered and General Motion (Device).
- * Note: Detection of some events is not available under Lite license.
- Step 2: Choose the camera channel you wish to view or select All for all channels available.
- Step 3: View the events that happened on a particular date or during a given time period by defining a search period.

For a particular date: check and specify date in the **Date** box.

For a period: check the **Date Time** and then enter the date and time.

Step 4: Click Search.

Note: When working with a video record, as default, Log Viewer will search for Unusual Events in the video record in Date & Time mode, starting from the beginning to the end of the record.

A link (🗢) will appear next to each event time where video is available.

By clicking on the link, an instant playback window will pop up to show recorded video.

Note: Instant playback is available under the following Smart Guard events: General Motion, Foreign Object, Missing Object, Focus Lost and Camera Occlusion.

7.4 Counting Application

* Note: This function is not available under Lite license.

Display the history of Counting Application during a given time period.

Step1: Select the channel you want to check or select All from the drop-down menu for all channels.

Step 2: Select search period. View the events that happened on a particular date or during a given time period by selecting search period.

For a particular date: check the **Date** box right and indicate the date. For a period: check the **Date Time** and then enter the date and time.

Unusual Event System	Log Counting Application	Counting Application (Dia	agram)		
Channel: All Date: 2007/09	- -			Export to	— Step 4
Event Time	Channel	In Out	t		
2007/07/25 19:00:00	Camera 3	14 13	3		
2007/07/25 19:30:00	Camera 3	0 4	ł		
200//0//23 19:30:00					
2007/07/25 19:32:42	Camera 3	0 C			
2007/07/25 19:32:42 2007/07/27 11:30:00	Camera 3	4 2			
2007/07/25 19:32:42 2007/07/27 11:30:00 2007/07/27 12:00:00	Camera 3 Camera 3	4 2 5 6	2		
2007/07/25 19:32:42 2007/07/27 11:30:00 2007/07/27 12:00:00 2007/07/27 12:30:00	Camera 3 Camera 3 Camera 3	4 2 5 6 4 4	2		
2007/07/25 19:32:42 2007/07/27 11:30:00 2007/07/27 12:00:00	Camera 3 Camera 3	4 2 5 6	2 5 4		

Step 3: Click Search.

Step 4: Press the button Export to.

Step 5: Type the file name and choose the file format (.xls or .txt).

7.5 Counting Application (Diagram)

* Note: This function is not available under Lite license.

Display the Counting Application data in diagram format.

Channel:					
channer.	[01] 123	•			
Period:	One Day	•		Export to	
Date:	2012/09/05 👻 🔹			Search	
					Ste
2012/09/0	5 In —— Out				
130			- h h h h		
117 104					
91					
78					
65			4 4.4 4		
52			4 4.4 4		
39			4 44 4		
26			+ ++++		
13			is such is		

Step1: Select the channel you want to check or select **All** from the drop-down menu for all channels.

Step 2: From the drop-down menu, set up how you would like the diagram to be displayed. You have the options of one day, one month, or one year.

Step 3: Select a specific date to make it the start point of the diagram.

Step 4: Click Search.

Step 5: Press the button **Export to**.

Step 6: Type the file name and the file will save as BMP files.

7.6 Metadata Log

* Note: This function is not available under Lite license.

View the Metadata Log history detected by the Smart Guard System.

- Step1: Choose the type of events you wish to view or select All from the drop-down menu to view all types of events. The types of Unusual Event include Transaction Start, Transaction End, Open Cash Register, Connection Lost, and special User defined event. Please refer to the User manual of Metadata plugins for details.
- Step 2: Choose the camera channel you wish to view or select All for all the channels available.
- Step 3: View the events that happened on a particular date or during a given time period by selecting search period.

For a particular date: check the **Date** box right and indicate the date.

Step 4: Click **Search**. A link () will appear next to each event time where video is available. By clicking on the link, an instant playback window will pop up to show recorded video

Step 5: Press the button Export to.

Step 6: Type the file name and choose the file format (.xls or .txt).

🔎 Log ¥iewer							_		
Export and Backup Lo	g 🛛 Unusual Event 🗍 C	Counting App	lication	Counting	Applicatio	n (Diagram)	Metadata Log	•	
Log Type:	Open Cash Drawer All	•							
Metadata: Date:	Transaction Start Transaction End Open Cash Drawer						Export to.		
Date Time:	Connection Lost User Defined Event I User Defined Event I	Rule 2	to 🔽	2011/0	3/29 16:0	3:12 💌 🔺	Search		Chan
Event Time	User Defined Event User Defined Event User Defined Event User Defined Event User Defined Event	Rule 4 Rule 5 Rule 6	Metadat	a Name	Camera	Description			Step 5

7.7 Export

After each log search, export needed info to .xls or .txt files.

🔑 Log Viewer				
System Log Export and Backup Log Unusual Ever	nt 🗍 Counting Applicatio	on 🛛 Counting Application (Diagram)	Metadata Log	
Log Type: All 💌				
Date: 2011/03/29 * 🚔		E	xport to	
Date Time: 2011/03/29 17:13:11 *	to 2011/0	3/29 17:13:11 💌 👗	Search	Step 1
Event Time Event Type	Camera	Description		
2011/03/29 16:02:23 Main Console Startup 2011/03/29 16:02:23 User Login 2011/03/29 16:02:28 Start Live Streaming Server 2011/03/29 16:02:28 Start Remote Playback S 2011/03/29 16:02:28 Start Remote Desktop 2011/03/29 16:02:28 Start Central Management		admin		

Step1: Press the button Export to.

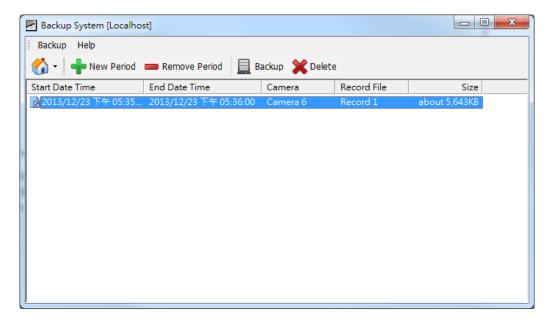
Step2: Type the file name and choose the file format (.xls or .txt).

A dTime 10912 004541 10912 004541 10912 014541 10912 012704 10912 012704 10912 012705 10912 150652 10912 150652 10912 150828 10912 150828 10912 150828 10912 150828 10912 150840 10912 10912 1091200000000000000000000000	B Even(Type Main Concole Startup User Login Main Concole Startup User Login Main Concole Startup User Login Main Concole Startup User Login Main Concole Startup Main Concole Startup Main Concole Startup	C Description admin admin admin		E	2007/09/12 00:45:41, Main Console Startup, 2007/09/12 00:45:44, User Login, admin 2007/09/12 01:27:04, Main Console Shutdow 2007/09/12 01:27:05, User Login, admin 2007/09/12 01:28:27, Main Console Shutdow 2007/09/12 15:06:51, Main Console Shutdow 2007/09/12 15:06:52, User Login, admin 2007/09/12 15:06:52, User Login, admin 2007/09/12 15:07:04, Main Console Shutdow 2007/09/12 15:08:82, Main Console Shutdow
00912 0045 41 00912 0045 44 00912 0145 44 00912 012704 00912 012704 00912 012705 00912 0128 27 00912 15 06 51 00912 15 06 52 00912 15 08 20 00912 15 08 40 00912 15 08 40	Main Console Startup Use Login Main Console Shutslown Main Console Shutslown Main Console Startup User Login Main Console Shutslown Main Console Shutslown Main Console Shutslown	admin admin			2007/09/12 01:11:10, Main Console Shutdown 2007/09/12 01:27:04, Main Console Startup, 2007/09/12 01:27:05, User Login, admin 2007/09/12 01:28:27, Main Console Shutdown 2007/09/12 15:06:51, Main Console Startup, 2007/09/12 15:06:52, User Login, admin 2007/09/12 15:07:04, Main Console Shutdown
00912 004544 00912 01:11:10 00912 01:27:04 00912 01:27:05 00912 01:28:27 00912 15:06:51 00912 15:06:51 00912 15:08:28 00912 15:08:28 00912 15:08:28	User Login Main Console Shutelown Main Console Startup User Login Main Console Shutelown Main Console Startup User Login Main Console Shutelown Main Console Shutelown Main Console Shutelown	admin			2007/09/12 01:27:04, Main Console Startup, 2007/09/12 01:27:05, User Login, admin 2007/09/12 01:28:27, Main Console Shutdow 2007/09/12 15:06:51, Main Console Startup, 2007/09/12 15:06:52, User Login, admin 2007/09/12 15:07:04, Main Console Shutdow
09/12 01:11:10 09/12 01:27:04 09/12 01:27:05 09/12 01:28:27 09/12 15:06:51 09/12 15:06:52 09/12 15:07:04 09/12 15:08:28 09/12 15:08:54	Main Console Shutelown Main Console Startup User Login Main Console Shutelown Main Console Startup User Login Main Console Shutelown Main Console Shutelown Main Console Shutelown	admin			2007/09/12 01:27:04, Main Console Startup, 2007/09/12 01:27:05, User Login, admin 2007/09/12 01:28:27, Main Console Shutdow 2007/09/12 15:06:51, Main Console Startup, 2007/09/12 15:06:52, User Login, admin 2007/09/12 15:07:04, Main Console Shutdow
09/12 01:27:04 09/12 01:27:05 09/12 01:28:27 09/12 15:06:51 09/12 15:06:52 09/12 15:07:04 09/12 15:08:28 09/12 15:08:40 09/12 15:08:54	Main Console Startup User Login Main Console Shutelown Main Console Startup User Login Main Console Shutelown Main Console Shutelown Main Console Shutelown				2007/09/12 01:27:05, User Login, admin 2007/09/12 01:28:27, Main Console Shutdown 2007/09/12 15:06:51, Main Console Startup 2007/09/12 15:06:52, User Login, admin 2007/09/12 15:07:04, Main Console Shutdown
09/12.01.27.05 09/12.01.28.27 09/12.15.06.51 09/12.15.06.52 09/12.15.07.04 09/12.15.08.28 09/12.15.08.40 09/12.15.08.54	User Login Main Console Shutelown Main Console Startup User Login Main Console Shutelown Main Console Startup Main Console Shutelown				2007/09/12 01:28:27, Main Console Shutdowr 2007/09/12 15:06:51, Main Console Startup, 2007/09/12 15:06:52, User Login, admin 2007/09/12 15:07:04, Main Console Shutdowr
09/12/01/28/27 09/12/15/06/51 09/12/15/06/52 09/12/15/06/52 09/12/15/08/28 09/12/15/08/28 09/12/15/08/54	Main Console Shutdown Main Console Startup User Login Main Console Shutdown Main Console Startup Main Console Startup				2007/09/12 15:06:51, Main Console Startup, 2007/09/12 15:06:52, User Login, admin 2007/09/12 15:07:04, Main Console Shutdowr
09/12/15:06:51 09/12/15:06:52 09/12/15:07:04 09/12/15:08:28 09/12/15:08:40 09/12/15:08:54	Main Console Startup User Login Main Console Shutdown Main Console Startup Main Console Shutdown	admin			2007/09/12 15:06:52, User Login, admin 2007/09/12 15:07:04, Main Console Shutdowr
09/12 15:06:52 09/12 15:07:04 09/12 15:08:28 09/12 15:08:40 09/12 15:08:54	User Login Main Console Shutdown Main Console Startup Main Console Shutdown	admin			2007/09/12 15:07:04, Main Console Shutdow
09/1215:07:04 09/1215:08:28 09/1215:08:40 09/1215:08:54	Main Console Shutdown Main Console Startup Main Console Shutdown	ədmin			
X09/12 15:08:28 X09/12 15:08:40 X09/12 15:08:54	Main Console Startup Main Console Shutdown				2007/09/12 15:08:28, Main Console Startup,
09/12 15:08:40 09/12 15:08:54	Main Console Shutdown				
09/12/15:08:54					2007/09/12 15:08:40, Main Console Shutdowr
	Main Console Startup				2007/09/12 15:08:54, Main Console Startup,
10:00:31 01:00:01					2007/09/12 15:09:01, Main Console Shutdowr
709/12 10:09:01	Main Console Shutdown				2007/09/12 15:14:11, Main Console Startup,
09/12 15:14:11	Main Console Startup				2007/09/12 15:14:12, Main Console Shutdowr
09/12 15:14:12	Main Console Shutdown				2007/09/12 15:14:31, Main Console Startup,
09/12 15:14:31	Main Console Startup				
09/12 15:15:20	Main Console Shutdown				2007/09/12 15:15:20, Main Console Shutdowr
09/12 19:44:15	Main Console Startup				2007/09/12 19:44:15, Main Console Startup,
09/12 19:44:58	Main Console Shutdown				2007/09/12 19:44:58, Main Console Shutdowr
09/12 22:51:57	Main Console Startup				2007/09/12 22:51:57, Main Console Startup,
09/12 22:51:59	Main Console Shutdown				2007/09/12 22:51:59, Main Console Shutdow
09/12 22:52:14	Main Console Startup				2007/09/12 22:52:14, Main Console Startup,
09/12 22:52:18	User Login	admin			2007/09/12 22:52:18, User Login, admin
09/12 22:52:24	Main Console Shutdown				2007/09/12 22:52:24, Main Console Shutdowr
09/12 22:53:19	Main Console Startup				
N SystemLog	/			1	2007/09/12 22:53:19, Main Console Startup,
	09/12 19:44:15 09/12 19:44:58 09/12 22:51:57 09/12 22:51:59 09/12 22:52:14 09/12 22:52:18 09/12 22:52:24 09/12 22:53:19	Ogn2 1944:15 Main Console Startup 0601 2944:58 Main Console Shutekown 0602 295:157 Main Console Startup 0601 222:512 Main Console Startup 0601 22:512 Main Console Startup 061 22:52:14 Main Console Startup 061 22:52:18 User Login 061 22:52:24 Main Console Shutekown	0012129415 Main Coccole Startup 0011219443 Main Coccole Startup 001221517 Main Coccole Startup 001225157 Main Coccole Startup 001225157 Main Coccole Startup 001225157 Main Coccole Startup 001225151 Main Coccole Startup 0012252514 Main Coccole Startup	0012124415 Main Concole Startup 0012124157 Main Concole Startup 001225157 Main Concole Startup 001225159 Main Concole Startup 001225159 Main Concole Startup 001225159 Main Concole Startup 0012252514 Main Concole Startup 0012252514 Uter Login admin 0012252514 Main Concole Startup admin 0012252514 Main Concole Startup 0012252514 Main Concole Startup 0012252514 Main Concole Startup	0012124415 Main Concole Statup 0012124157 Main Concole Statupon 001225157 Main Concole Statup 001225159 Main Concole Statupon 001225159 Main Concole Statupon 001225159 Main Concole Statupon 0012252514 Main Concole Statupon 0012252514 Uter Login adminin 0012252524 Main Concole Statupon 001225324 Main Concole Statupon 001225524

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8. Backup

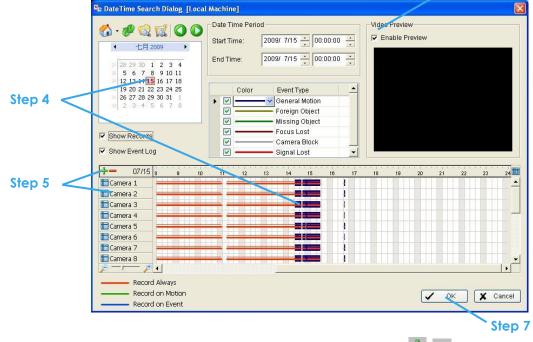


The backup function saves recorded video and other log information. Backup files may be reloaded on any PC with the Playback System installed. Follow the instructions below for more information on obtaining backup files.

8.1 Backup Recorded files

	🛃 Backup System [Localho	st]			
	Backup Help				
Step 1	👘 New Period	Remove Period	lackup 🎇 Delet	e	
	start Date Time	End Date Time	Camera	Record File	Size
	2013/12/23 下午 05:35	2013/12/23 下午 05:36:00	Camera 6	Record 1	about 5,643KB
Step 2					
Step 3					
	L				

- Step 1: Add (Remote) Backup Site: Press the "Remote Server " button to go to remote backup site management to add and setup the backup site.
- Enter the IP address or DNS, Port, Username, and Password.
- Click Add to add the server.
- Click **OK** to exit the Setting panel.
- Step 2: Access (Remote) Backup Site: Click on the icon and insert the username/password of the remote server to access the backup Site.
- Step 3: Click on New Period to obtain the Select Date/Time Period panel.
- Step 4: Select the data you want to backup by highlighting the time period. Besides the time-table, you may also set up start time and end time in the Date Time Period section. Step 6



- Step 5: Click on the camera number icon to add camera(s) or click = to add/delete all the channels.
 Step 6: Check the box of Enable Preview to get the preview of the video you select.
- Step 7: Click OK when the settings are complete and go back to the Backup System panel.
- Step 8: If there is any data period not wanted, click Remove Period to remove the data period on the backup list.

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Server Setting		
Server Name:		
Address:		
Port:	5160	
User Name:		
Password:		
	Save Password	
	Test Server	
Add	Delete Update	

	Step	8	Step 9		
🛃 Backup System [Localho	st]				
Backup Help					
🏠 🛛 🖶 New Period	Remove Period	Backup 🎇 Delete	9		
Start Date Time	End Date Time	Camera	Record File	Size	
┏2013/12/23 下午 05:35	2013/12/23 下午 05:36:00	Camera 6	Record 1	about 5,643KB	

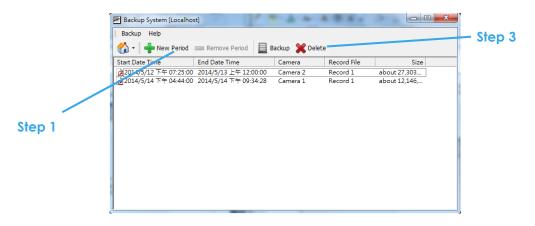
Step 9: Click the Backup icon to obtain Backup panel.

	Backup
Step 10	Summary Total backup data size: 5,643KB
Step 11	Backup using CDROM Backup using DVD Backup on HardDisk
Step 12	Option Backup Event Log Backup System Log Backup Counter Log Backup Metadata Transaction Backup Adv. IVS Counting Log Backup IVS Event Log Include Playback application
	✓ OK ¥ Cancel

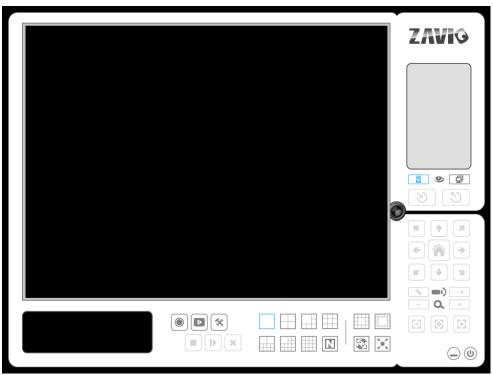
- Step 10: Summary: Check the summary section to see the size of the file(s).
- Step 11: Media: Choose the path you want to save the file or burn the file into a CD (direct CD burning for Windows XP only), DVD or on Hard Disk.
- Step 12: Option: Select the log information you would like to backup (Event Log, System Log, Counter Log and Metadata Transaction), and then click OK.

8.2 Delete Recorded files

Step 1: Click on "New Period" to obtain the Select Date Time Period panel.



Step 2: Follow steps 3-7 above from the backup section to select data period which you want to delete.
Step 3: Click the Delete icon and delete all the data in the backup list from the database.
Note: Deleted video cannot be recovered.



9. Remote Live Viewer

With the Remote Live Viewer console, remote users may watch up to 128 channels real-time video from remote live streaming servers.

* Note: Maximum 32 channels under Lite license.

9.1 Setting

9.1.1 General Setting

Click General Setting to obtain setting dialog.

n Joystick

Audio preview:

• Enable audio on active channel: Select to enable audio streaming on active channel.

Miscellaneous:

• Synchronize video frames: Select to avoid image tearing problems that may occur while CPU loading is increased.

Startup:

• Full screen: Users can view the window as the full screen mode.

9.1.2 Server setting

Caneral Server Group Camera OSD Metadata Monitor Display Notification Joystick	Server List
Server Setting Server Name: Address: Port 5150 User Name: Password: *Second Password: Save Password: Table Login: T Test Server	
Add Delete Update "Fill In second password while Dual Password Validation is set. VOK X Cancel	

- **Step 1:** Enter the Server Name.
- Step 2: Enter the Address, Port, User Name, and Password to log in the server.
- **Step 3:** Enable "Save Password" to login without entering the password again.
- **Step 4:** Enable "Auto Login" to login automatically when starting Remote Live Viewer.
- Step 5: Click Test Server to check if the server is available.
- Step 6: Click Add to insert the setting to server list.

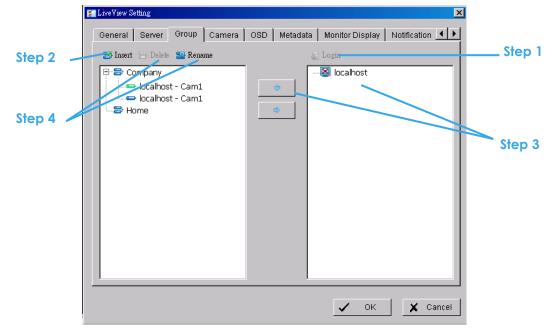
Note:

To change the setting, select a server on server list and click "Update" after modify setting. To remove the server, select a server on server list and then click "Delete".

9.1.3 Group Setting

Allocate different cameras into each appointed group.

* Note: Cameras under Lite license cannot be included in a group with other servers.



- Step 1: Log in to all the servers that contain the camera(s) you would like to put into the group(s).
- Step 2: Click Insert to create a new group; name the group for future reference.
- Step 3: From the window at the right, highlight the camera(s) that you would like to add to a group and then Click the " <--- " button. Repeat the process until satisfied with the group setting.
- Step 4: Click the Delete and Rename button to remove or rename a specific group.
- **Step 5**: Repeat Steps 2 to 4 to adjust the group setting until satisfied.
- Step 6: Click OK.

9.1.4 Camera Setting

Select the preferred stream type of each camera as default live view profile.

* Note: Some stream p	profiles are no	ot available	under Lite license
-----------------------	-----------------	--------------	--------------------

E LiveView Setting	_		x
General Server Group Camera Login Cal Cal Camera Login Cal Camera Login Camera Camera Login Camera Camera Camera	OSD Metadata Moni local - IVS_Shopping Ma Stream Profile	tor Display Notification Joystick	
local - Lobby local - Lys_Roof local - Park1 local - Camera 06 local - Camera 07 local - Camera 08	Layout type: Stream profile: Video format: Frame rate: Resolution: Quality: Bitrate:	(4:3) 1x1 Main H.264 10 fps 1920x1088 Normal -	_
		Apply to All Layout	
		🗸 ОК 🗶 Саг	ncel

Stream profile: Select a layout type and choose which stream profile you would like to apply on this layout. For some layout with large and small grid, you are able to assign different stream profile.

Record 1: The system will follow the stream profile set in Main Console >Schedule > Encoding Options. Record 2: The system will follow the stream profile set in Main Console >Schedule > Encoding Options. Main / High / Normal / Low/ Minimum / H.264: The system will follow the stream profile set in Main Console - Setting - Camera - Stream Profile.

Apply to All Layout: Apply the stream profile setting of current layout to the other layouts.

Copy to: Select in order to copy the preferred stream profile of a channel to all of the listed channels.

9.1.5 OSD Setting

Adjust font style of Camera OSD on this panel.

🚰 LiveView Setting		
General Server	Group Camera OSD Metadata Monitor Display Notification Joystick	
Foreground	SD	
Font	¹Ŧ Tahoma ▼	
Size:	9 🗸	
Color:		
🔽 Bold	I Edge	
Background		
Color:		
Transparency:	40	
Info Camera Name	0	
🗖 Date	2013/12/24 👻	
🗖 Time	上午12:17:38 💌	
🖂 Bitrate		
	Default Apply	
	Cancel]

9.1.6 Metadata Setting

Adjust font style of Metadata overlay on panel.

* Note: This function is not available under Lite license.

🚰 Live¥iew Setting				×
General Server Gr	oup Camera	OSD Metadata	Monitor Display	Notification 📕 🕨
Enable Metadata over Foreground Font: Size: Color: Ø Bold Background	rrlay Tan Tahoma 10 ▼ ▼ F Edge	.		
Color: Transparency:		40		
		Default		Apply
			🗸 ок	🗶 Cancel

9.1.7 Monitor Display Setting

Activate auto scan to rotate the channels/ cameras on screen.

Note:

- For instance, you may select to show only 4 sub-screens on the live viewer while having 16 channels connected to the system. With auto scan function, you will be able to see all 16 channels by turns.
- Each monitor supports up to an 8x8 layout with auto scan function to show 128 channels.

	a.	Pine Alem Se	amig										
Step 1 🔍		General	Serve	r Group	Camer:	a	OSD Metadata	Ionitor Dis	play N	otification			
		Monitor #1		Resolution 024 x 768			Monitor 1 - Auto scan — Auto scan group: Primary channel: Secondary channel: Auto scan interval: - Layout — NxN type:		Comp Cam1 (Not U 2 5x5	Jsed) sec.	• •	Ste	ep 2 ep 3 ep 4

- Step 1: Select the Monitor connected to the system.
- Step 2: Auto scan group: Select appointed server group to activate auto scan settings.
- Step 3: Primary channel: Select appointed channel that will always be on the screen when auto scan is activated.
- Step 4: Secondary channel: Select appointed channel with secondary priority behind primary channel when auto scan is activated.
- Step 5: Layout: Select the screen division of "NxN type" in Remote live viewer panel.

9.1.8 Notification Setting

	recording status revent message on so	reen			
🔽 Sv	vitch live view layout to	1x1			
Show	counting result				
Play Soun					
🔽 Enab	le playing sound on ev	ent			
Sound F					
O Us	er defined wave file		l l l l l l l l l l l l l l l l l l l]	
Life Cycl					
	tomatic cancel sound a	ilert when event di			
O Sto	op sound alert after		10 sec		
Miscellane	ous				
Popu	p system event				
j i opu	p system event				

Status display:

- Show recording status: Check to show the crystal ball with recording status on monitor display.
- Show event message on screen: Check to show the smart guard detected event appointed in Main Console on each channel.
 Note: To execute this function, please General Setting "on screen display" as an action of Smart Guard instant response.
- Switch live view layout to 1x1: Check to switch the display layout to 1x1 when smart guard detected event appointed in Main Console on each channel.
- Show counting result: Check to show the counting result appointed in Main Console on each channel.
 * Note: This function is not available under Lite license.

Play sound alert:

- Enable playing sound on event: Check to enable sound alerts on events.
- Sound File: Choose a sound file to play. You may use the default file or define another.
- Life Cycle: Choose to allow the sound alert to close when events disappear, or define a timer to close the sound alert automatically after a specific period of time.
 Note: To execute this function, please General Setting "play sound" as an action of Smart Guard instant response.

Miscellaneous:

• Popup system event: Check to allow system events appointed in Main Console to pop up messages as warning.

9.1.9 Joystick Setting

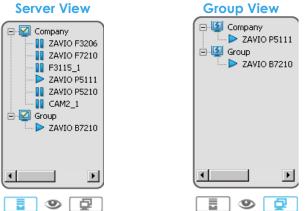
Settings are same to Main Console joystick settings. For details please refer to page 75. * Note: This function is not available under Lite license.

Active Joystin	K: USB Gamepad	Parameter
Button 1	Goto Preset Point	1
Button 2 Button 3	Goto Preset Point Goto Preset Point	2
Button 3 Button 4	Goto Preset Point Goto Preset Point	3 4
Button 5	Goto Previous Camera	4
Button 6	Goto Next Camera	
Button 7	Toggle Single Camera View	
Button 8	Toggle Full Screen	
Button 9	Switch Screen Layout	
Button 10	N/A	
201001120		
	Import	Export Default

9.2 Server/Group/Camera

Display a complete list of the server(s), group(s) and camera(s) that are added to the system. Server View: Cameras are listed according to recording server.

Group View: Cameras are listed according to customized grouping.



9.2.1 login/logout server

Option1: Select a server on the list and click on LOG IN/ LOG OUT to access/ logout the server.

Option2: On the server list, right click to obtain menu options.

9.2.2 Connect/Disconnect camera

Option1: On the server/camera list, double click on a camera to connect.

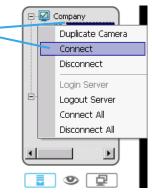
Option2: On the server/ camera list, right click on a camera to obtain the menu options to connect/ disconnect.

Connect/Disconnect Camera

Log In/Log Out Server

Option3: Select a camera from the list, then drag it to where you want it to be displayed.





uplicate Camera

Connect Disconnect

Login Server

Logout Server

Disconnect All

P

Connect All

9

Option4: Play / Stop/ Drop: Select a camera/ video and click on this button to play/stop/disconnect a particular channel.



9.2.3 Multiple Views:

- Step1: On the server/camera list, select a camera and right click on it to obtain the menu options.
- Step2: Select Duplicate Camera and the duplicate camera with green indicator will display below on camera list.
- **Step3**: Double click on the duplicated camera to connect and display on screen.



9.3 PTZ Control

Control the movement of PTZ cameras. With cameras that support PTZ control, you can move, zoom, patrol, adjust the focus, and set preset points of the cameras.

9.3.1 Preset/ Go

Adjust the camera view until satisfied. Click the Set icon to define the current view as preset point 01. Adjust the camera view again to setup preset point 02. Repeat the process until you finish setting up all preset points. Customize preset point names by defining names. Click the Go icon and view the result of your setting.

Note: For the speed settings of PTZ camera, please General Setting from Main Console – General Setting – Setting - PTZ General Setting.

9.3.2 Zoom

Click the + and - signs to zoom in and zoom out the view.

9.3.3 Focus

You can select to have the camera focused near or far. To focus near means objects that are closer will be clearer than the objects that are further away. On contrast, to focus far means objects that are further will be clearer than the objects that are closer. Click the Focus icon and select auto focus if you want the system to decide the focus point for you.

9.3.4 Patrol

To control PTZ camera to patrol around pre-defined path of preset points, Click Go to Preset Point – Start Patrol / Stop Patrol.

Note: To setup patrol path, please setup on Main Console – Set Preset Point – Set Patrol.

9.4 On Screen Menu

Right click on the camera screen for the On Screen Menu, from which you can quickly adjust the setting of camera.

9.4 On Screen Menu

Right Click the camera screen for the On Screen Menu, from which you can quickly adjust the setting of camera.

9.4.1 Enable Move / Area Zoom

With cameras that support PT function, click the Enable Move function to adjust the current camera's view by clicking on the display screen. To cancel this function, right Click the screen and select Disable Move.

With cameras that support Area Zoom function, click the Enable Move/Area Zoom function to adjust the current camera's view by dragging a rectangle on the display screen. To cancel this function, right Click the screen and select Disable Move/Area Zoom.

9.4.2 Enable Talk

*This feature is not available under Lite License.

With cameras that support two-way audio, select enable talk to utilize the function.

9.4.3 Enable Audio

With cameras that support audio function, click the Enable Audio function to listen to the current camera's audio by clicking on the display screen. To cancel this function, right Click the screen and de-select Enable Audio.

9.4.4 Enable Digital PTZ

To enable the PTZ functions of the camera, select the Enable digital PTZ option. Use mouse wheel or Click the + and – signs to zoom in and zoom out on the camera, or drag a rectangle to enlarge the area. The square flashing on the video grid indicate the correspondent view of the camera.

Enable Move
Enable Talk
Enable Audio
Enable Digital PTZ
Fix Aspect Ratio
Stream Profile 🔹 🕨
Snapshot
Toggle Fullscreen

9.4.5 Generic Dewarp Setting

With cameras that supports fisheye feature. Right click the display screen and select the mode of lens, original, PTZ mode, Quad mode and Perimeter mode. If the lens setting set as Quad, PTZ, or Perimeter mode, the Enable Digital PTZ option would become Enable Fisheye PTZ.

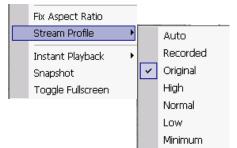
9.4.6 Fix Aspect Ratio

For some special camera resolution, user can enable Fix Aspect Ratio to view original ratio video, or disable this option to stretch 3:4 to fit window.

9.4.7 Stream Profile

Select different level Stream Profiles to downgrade video quality for bandwidth concerns.

* Note: Some stream profiles are not available under Lite license.



9.4.8 Instant Playback

To open the Instant Playback window of the camera, select the Instant Playback option and choose the period. The instant playback window allows the user to browse recorded video, take snapshot images and export video with audio and metadata transaction data. * Note: This function is not available under Lite license.

9.4.9 Duplicate Camera

Right click on any empty channel. You may duplicate cameras from any available servers here.

To browse recorded video

By simply clicking on the timeline you can view the video. Use the navigation tools below for advanced control.



- Play / Pause / Stop

- Speed up/Speed down

- Fast Forward/reverse frame by frame

- Play Previous / Next minute video

To keep a snapshot of the video clip

Pause the video at desired time point and click snapshot button The snapshot is displayed and can be saved or copied to clipboard.

To export recorded video

Select desired export period and click export button

Additional options are available when exporting.

Adjust to original video resolution button

turns the audio on / off. Audio button

is to enable / disable metadata transaction data overlay. Metadata button

9.4.10 Snapshot

The snapshot function copies and captures a specific video image to the clipboard or to save as a bmp file. The snapshot can be customized with/without OSD, metadata information and selectable range after digital zoom in.

9.4.11 Toggle Full screen

Switch to view video with full screen display. To disable the function, right click screen and de-select option or simply press "ESC" to go back to original window.

9.5 Start Monitor

9.5.1 Multiple Monitor

Select Open Monitor to append monitor to view more live videos on multiple monitors. Each appended monitor has the same list and view control buttons as the Main monitor, with the exception of the Start, Playback, and Setting buttons.

9.5.2 E-Map

Select Open E-Map to obtain the E-Map window. The GUI map helps to locate devices easily and the information window helps to show the status of each device.

Map Info – Show map name.

Camera – Show camera name and connecting status.

Digital Input/Output – Shows Digital Input / Output name and status (0 or 1).

🖬 🐿 🖓 Access Control/POS/LPR – Shows metadata device name, connection status, first associated camera name and connection status.

9.5.3 I/O Control

Select to obtain the I/O control panel. Use the panel to view DI status and control DO devices remotely.

Note: Adjust the setting of I/O device in Main console – General Setting – Setting - I/O Device first, the I/O control panel will display the device status based on these settings.

9.6 Playback

Select to obtain the Playback panel and view video remotely.

9.6.1 Add Remote Playback Site

Press the Remote Sever icon to go to remote playback site management to add and setup a remote playback connection.

Step 1: Enter the IP address or DNS, Port, Username, and Password.

Step 2: Click Add to add the server.

Step 3: Click OK to exit the Setting panel.

9.6.2 Access Remote Playback Site



Go to Date/Time Panel and click on the **Panel** icon on the top of the display window to access the Remote Playback Site

	DO Output 0	Output 0	
te Playback S:	ite Management		×
er Setting –			
Server N	Name:		
Ad	dress:		
	Dort: 5160		

🗶 Cancel

🗸 OK

🗸 🔽 Show name

e live videos on same list and ception of the	Open Monitor Open E-Map Open I/O Control Panel	·
Start Monitor		
e GUI map dow helps to		

🧯 IO Devices

0

Input 0

DI

😴 Remo

Ser

Add

User Name:

Password:

Delete Update

Save Password:

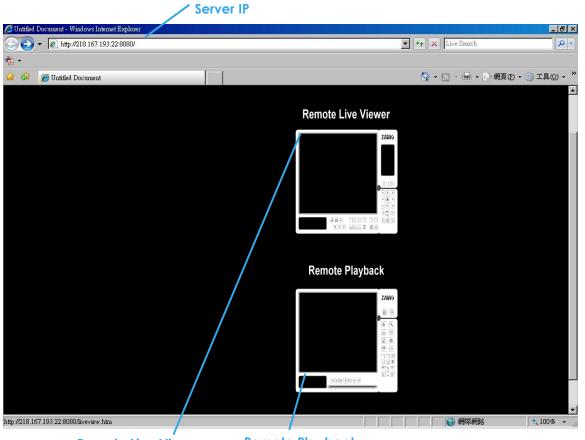
Servers: localhost

0

Input 0

Test Server

10. Web View



Remote Live Viewer Remote Playback

Note: Make sure the Live Stream Server is enabled. Check 5.14 Network Service for more detail.

10.1 Server IP

Start Internet Explorer browser and enter the IP address or DDNS name of the server followed by the connecting port.

Example: <u>http://192.168.1.16:8080/</u>

Note: 192.168.1.16 is the IP address of the server.

8080 is the port specified in Use Default Web Server in Network Service.

10.2 Remote Live Viewer

Press this icon to use Remote Live Viewer which functions are the same as Remote Live Viewer. See page 98 for details.

10.3 Remote Playback

Press this icon to use Remote Playback which functions are the same as Playback except remote server and backup functions. See page 23 for details.

11. Utilities

IP Surveillance System
IP ActivateTool

Backup System
 DBTools
 Main Console
 Playback System
 Remote Live Viewer

Verification Tools

Uninstall Surveillance System

6

11.1 Verification Tool

The Verification Tool verifies whether the data created by the system has been tampered with. It is the process by which a digital watermark (a digital signature) is added to each recorded video frame to ensure its authenticity.

There are 3 types of data that can be verified by the Verification Tool:

- 1. File in (.DAT) (.264) format will be displayed as
- 2. File in (.AVI) (.ASF) format will be displayed as a
- 3. File in (.BMP) (.JPG) format will be displayed as

11.1.1 Execute Verification Tool

Step 1: Execute Verification Tool from program files.

Step 2: Insert the Administrator Password to log in.Step 3: The Verification Tool appears after login.

11.1.2 Verification Tool Overview

	Add F	older	Remov	ve File	Select	All	Video Previev
Verification Too							
						-Video Pr	review
File Name	Watermark	Start Time	End Time	Carn Name	Path		
₽C00001		2009/05/	2009/05/	TRENDne	C:\Documents and S∈		
0604_sa		2009/06/	2009/06/	Sanyo VD			
0604_S		2009/06/ 2009/05/	2009/06/ 2009/05/	Sanyo VC D-Link DC	C:\Documents and Se C:\Documents and Se		
(<u> </u>					•		
Status :			Verify	:		► 8	
Status :	file Verified :	0 files		: e elapsed :	00:00:000	Þ 8	

Add File: Click to insert the single file to list for verification.

Add Folder: Click to choose the folder with multiple files to list for verification.

Remove File: Click to remove indicated file(s) from list.

- Select All: Click to select all files in list for verification.
- Note:
 - 1. Choose the file type first before selecting files. Only (.dat) (.264) (.avi) (.asf) (.bmp) (.jpg) are supported.
 - 2. User can also drag files directly into the list for verification.

Video Preview: Check this column to preview video of selected file. Click the buttons below the window to play, Pause and Stop the file.

Note: Preview of (.bmp) (.jpg) format is not allowed.



Step 1

11.1.3 Verify Image/Video

Step 1: Select single or multiple files for verification.

- Step 2: Click "verify "to start verification.
- **Step 3:** The verification result will show on the watermark column.
 - If a file was tampered with, it will show **8**.
 - If a file passes verification, it will show 🧐.

Watermark

Verification Tool					
				۵	Video Preview
File Name Watermark	Start Time	End Time	Carn Name	Path 🔺	
€€C00002	2009/05/	2009/05/	CAM01	C:\Documents and	
🕽 0604_S 🗇	2009/06/	2009/06/	CAM02	C:\Documents and	
🕮 0604_sa 🗇	2009/06/	2009/06/	CAM03	C:\Documents and	
€C00001 🧇	2009/05/	2009/05/	CAM04	C:\Documents and	
🖗 C00001 🔶	2009/05/	2009/05/	CAM05	C:\Documents and	
🖉 C00001 💜	2009/05/	2009/05/	Cam1	C:\Documents and	
ØC00002	2009/05/	2009/05/	CAM09	C:\Documents and	
ØC00002	2009/05/	2009/05/	CAM10	C:\Documents and	
•					
Status :		Verify			▶ & [[]] & ◀
Number of file Verified :	7 files	Time	e elapsed :	00:08:266	
Number of file Passed :	7 files	Time	e left :	01:49:380	
1					
` V	erification	on repo	rt		

Step 4: The verification report will indicate the information related to the verification.

11.2 License Management Tool

The license of the software should be registered before you start using the Intelligent Surveillance System. Additional to essential camera licenses, you may also purchase licenses for the metadata application, including those for POS, LPR and access control.

Execute the License Management Tool to activate the license from dongle or serial number included with the software package, or de-activate the license then bring it to another PC to activate it again.

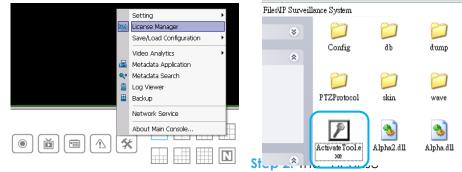
Please note different level licenses cannot coexist under one license server. Upgrade licenses will replace lower level licenses into higher level ones.

Both "Online" and "Offline" status of PC environments are available on executing the tool to "activate" or "transfer" the license. The following is a total of 4 types of license management process:

- To **activate** the license with PC connected to network, follow the Activation Online process.
- To **activate** the license with PC not connected to network, follow the Activation Offline process.
- To **de-activate/transfer** the license with PC connected to network, follow the Transfer Online process.
- To de-activate/transfer the license with PC not connected to network, follow the Transfer Offline process.

11.2.1Execute License Management Tool

Step 1: Execute License Manager Tool in General Setting menu, installation folders or execute Activate Tool from program files.



IP Surveillance System
 ActivateTool
 Backup System
 DBTools
 Main Console
 Playback System
 Remote Live Viewer
 Uninstall Surveillance System
 Verification Tools

Management Tool" will appear. Please refer below for the tool overview.

Activate 🕖 License Management Tool Activate tab ctivate Transfer Channel Product SN Status SN status ctivate type Online activation: Input SN: nî' C Import SN file: Activate type . C Activate from dongle Activate Offline activation: Step 1 : Export server information file: Manual key-in SN on Offline Too C Activate from dongle Step 2 : Use "Offline Tool" to activate license and get offline license Step 3 : Import offline license file: 1ú Exit 🕑 License Management Tool **Transfer Tab** Transfer Transfer **SN** status ranster typ Online Offline **Transfer** Transfer Transfer Exit

11.2.2 License Management Tool Overview

11.2.3 Activate License

Activation Online

Step 1: Open License Manager Tool.

Step 2: Select On line as Activate type.

Step 3: Input the SN (Serial number) or Import SN file, and then click on Activate button.

Online activation:	
Input SN:	
C Import SN file:	l l l l l l l l l l l l l l l l l l l
C Activate from dongle	
	Activate

Step 4: Restart Main Console if activation is successful.

Activation Offline

- Step 1: Open License Manager Tool.
- Step 2: Select Offline as Activate type.
- Step 3: Click Export offline pack. Please note this license will bind with hardware General Settings and it is not recommended to register with removable network devices.

 Offline activation: Step 1 : Export server information file: 	
Manual key-in SN on Offline Tool	
C Activate from dongle	
Export offline pack	
Step 2 : Use "Offline Tool" to activate license and get offline license file.	
Step 3 : Import offline license file:	
Import	
Exit	

Step 4: Save Request file, and then take it to another PC that is connected to the Internet.

🗀 Request File		_ 🗆 🔀
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites	<u>T</u> ools <u>H</u> elp	
Address 🗁 C:\Documents and S	5ettings\April\Desktop\Request File	💌 🄁 Go
libexpat.dll	LicenseTool.dll 1.0.0.1 LicenseTool Dynamic L	ink Library
REQ File 1 KB	OffLineTool.exe OffLineActivation MFC	Applica

Step 5: Execute OffLineTool.exe in the other PC. Input the SN (Serial number) or Import SN file, and then click on Activate button.

P Offline Tool	
Information:	
Activate new SN.	<u>^</u>
Please input SN:	
]	<u>v</u>
Input type	
SN:	
C SN file:	
	Activate

Step 6: Save License file, and then take it to original system.

Step 7: Open License Manager Tool again, select Import offline license, then click Import button to activate.

path: CADocuments and Set			
	File path:	C:\Documents and Set	
	in the second		
			_

Step 8: Restart Main Console if activation is successful.

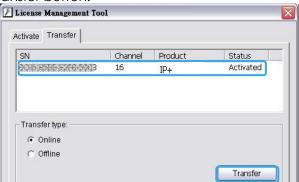
11.2.4 Transfer License

Transfer Online

Step 1: Open License Manager Tool.

Step 2: Select Transfer Tab, and then check Online as Transfer type.

Step 3: Select SN and click on Transfer button.



Step 4: Restart Main Console if transfer is successful.

Transfer Offline

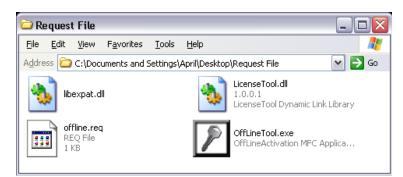
Step 1: Open License Manager Tool.

Step 2: Select Transfer Tab, and then check Offline as Transfer type.

Step 3: Select SN, and then click Transfer button to transfer SN.

License Management Tool Activate Transfer				_
8N 9R6646643-19D9-7374	Channel 16	Product	Status activated	
Transfer type:				
• Off line			Transfer	

Step 4: Save Request file. Restart Main Console if transfer is successful..



- **Step 5**: Copy request file to another PC connected to internet.
- Step 6: Execute OffLineTool.exe in another PC, check Transfer SN and click Transfer to send request file to license server.

P Off Line Tool	X
Information:	
Transfer activated SN.	~
Transfer SN:	
57777525575352777422	
	~
Transfer	

Note: User needs to copy request file to another PC and send it to license server, otherwise the SN can't be re-activate again!!



11.3 Resource Management Tool

The Resource Management Tool detects whether the system is operational.

Note: For further application of the Resource Management Tool, please refer to page 45 In "Guard" chapter.

11.3.1 Execute Resource Management tool

Step 1 -

Start Monitor All

Start Recording Schedule Start Smart Guard System

Start Counting Application

Open Event Report Open E-Map

Open Resource Report Open Stream Usage Panel

Open I/O Control Panel

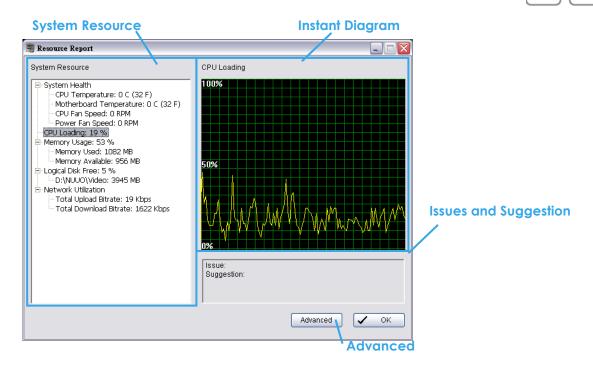
•••••

Lock System

 \bigcirc

Step 1: Open Resource Report from start menu.Step 2: The Resource Management Tool will appear.

11.3.2 System Resource Overview



11.3.3 System Resource

System Health: This item shows the system information, including "CPU Temperature", "Motherboard Temperature", "CPU Fan Speed" and "Power Fan Speed".

Note: User needs to install the "SpeedFan" first to gather the CPU and Motherboard temperature information.

CPU Loading: This item shows the percentage of CPU usage.

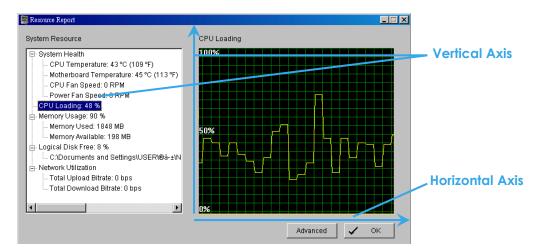
Memory Usage: This item shows the memory usage of system. "Memory Used" and "Memory Available" are included.

Logical Disk Free: This item shows the percentage of available disk space for storage. Note: The disk directory will be the same as the one in Main Console – General Setting – Setting – Storage -Location.

Network Utilization: This item shows the total bit-rate utilization for the upload and download of the computer.

11.3.4 Instant Diagram

Click each item in the list to obtain the instant system diagram. The "system resource" will be displayed as each variable in Vertical Axis; the unit of Horizontal Axis will be displayed as "Per Second".



11.3.5 Advanced Resource Report

Click the Advanced button to search and export system logs in "Search" tab and obtain the history diagram of an specified period in "Diagram" tab.

Search

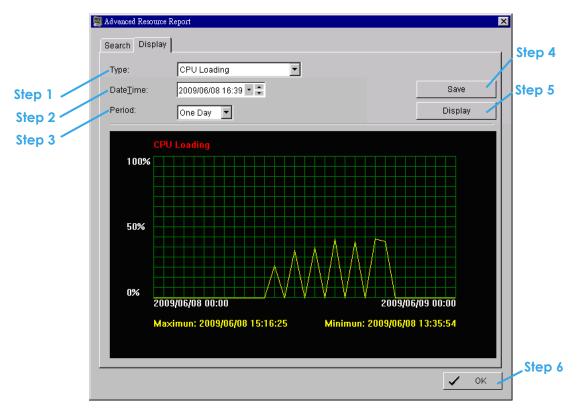
	Search Display	J Loading	▼ >= 50.00	~ –			Step
		2009/06/08				Export to	Step
ep 1 🦯 🦯					. =		
ep 1 ep 2	Date <u>T</u> ime: C	2009/06/08 15:51 💌 🚔	to 2009/06/0	8 15:51 💌 🔹		Search	
ep z	Start Time	End Time	Log Type	Avg.	Min.	Max.	
	2009/06/08 15:54:55	2009/06/08 15:55:10	CPU loading	60.56%	50.00%	100.00%	
	2009/06/08 15:56:00	2009/06/08 15:56:05	CPU loading	60.51%	50.00%	100.00%	
	2009/06/08 15:56:15	2009/06/08 15:56:20	CPU loading	60.49%	50.00%	100.00%	
	2009/06/08 15:56:40	2009/06/08 15:57:10	CPU loading	60.25%	50.00%	100.00%	
	2009/06/08 15:57:15	2009/06/08 15:57:20	CPU loading	60.19%	50.00%	100.00%	
	2009/06/08 15:57:35	2009/06/08 15:57:40	CPU loading	60.19%	50.00%	100.00%	
	2009/06/08 15:57:45	2009/06/08 15:57:50	CPU loading	60.32%	50.00%	100.00%	
	2009/06/08 15:57:55	2009/06/08 15:58:00	CPU loading	60.27%	50.00%	100.00%	
	2009/06/08 15:58:35	2009/06/08 15:58:55	CPU loading	60.11%	50.00%	100.00%	
	2009/06/08 15:59:25	2009/06/08 15:59:35	CPU loading	60.11%	50.00%	100.00%	
	2009/06/08 15:59:40	2009/06/08 15:59:50	CPU loading	60.04%	50.00%	100.00%	
	2009/06/08 15:59:55	2009/06/08 15:59:55	CPU loading	60.04%	50.00%	100.00%	
	2009/06/08 16:00:00	2009/06/08 16:00:15	CPU loading	51.67%	51.00%	53.00%	
	2009/06/08 16:00:25	2009/06/08 16:00:50	CPU loading	52.75%	50.00%	57.00%	
	2009/06/08 16:00:55	2009/06/08 16:01:00	CPU loading	53.78%	50.00%	62.00%	
	2009/06/08 16:01:05	2009/06/08 16:01:10	CPU loading	54.00%	50.00%	62.00%	
	2009/06/08 16:01:40	2009/06/08 16:01:55	CPU loading	54.54%	50.00%	62.00%	
	2009/06/08 16:02:10	2009/06/08 16:02:15	CPU loading	55.71%	50.00%	71.00%	
	2009/06/08 16:02:35	2009/06/08 16:02:45	CPU loading	56.13%	50.00%	71.00%	
	•						Step

Step 1: Choose the system event type, and then select the standard percentage to search system log.

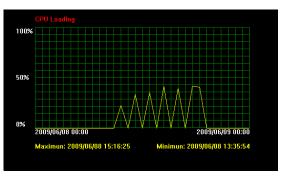
- Step 2: Select the Date/Time duration to search system log.
- Step 3: Click Search to start searching, the system logs will be listed below.
- Step 4: Click Export to to save the system log in (*.xls) or (*.txt) format.
- Step 5: Click OK to close the report window.

	A	В	C	D	E	F
1	StartTime	EndTime	LogType	Avg	Max	Min
2	2009/06/08 12:20:23	2009/06/08 12:20:28	CPU loading	54	54	54
3	2009/06/08 12:20:53	2009/06/08 12:20:58	CPU loading	65.5	54	77
4	2009/06/08 12:21:13	2009/06/08 12:21:18	CPU loading	61.67	54	77
5	2009/06/08 12:21:23	2009/06/08 12:21:28	CPU loading	65.5	54	77
6	2009/06/08 12:21:53	2009/06/08 12:21:58	CPU loading	64.2	54	77
7	2009/06/08 12:22:53	2009/06/08 12:22:58	CPU loading	62.33	53	77
8	2009/06/08 12:23:48	2009/06/08 12:23:53	CPU loading	61.86	53	77
9	2009/06/08 12:24:48	2009/06/08 12:24:58	CPU loading	59.44	51	77

1.3.2 Display



- Step 1: Choose the system event type.
- Step 2: Select the Date/Time to draft history diagram.
- Step 3: Setup the start time and duration for charting. User can choose "One Day", "One Hour" or "One Minute" as the duration.
- Step 4: Click "Display" to start charting, the diagram will be displayed at below column.
- **Step 5:** Click "**Save**" to save the diagram in (*.bmp) format.
- **Step 6:** Click "OK" to close the report window.



11.4 Stream Usage Panel

Start Monitor All The stream usage panel shows the current stream status including Start Recording Schedule connection status, record status, local display stream, decoding Start Smart Guard System stream/reason, download bitrate and HDD throughputs. Those information is helpful for system optimization and troubleshooting. Start Counting Application Note: Enable Secondary Display Idle status: Means the stream is connected with Main Console but Main Console do not use for decode or recording, video analysis or recording. It Open Event Report will show a gray ball. Open E-Map Not support status: Means the channel do not support Multi-stream function. Open Resource Report It will show a black ball. Stream Usage Panel Open Stream Usage Panel Open I/O Control Panel Indicators in differ color shows different connection status with stream bit Lock System

rate (Mbps) and frame rates (fps).

"Decoded" column indicates the decoding stream which requires CPU loading. Changing the decoding stream is helpful to reduce CPU loading.

Mouse over to the check icon, system will show you the decode reason. Possible decode reasons are:

- Local display •
- Smart guard detection
- Counting analysis
- IVS analysis
- Transcode record
- Transcode for client
- Record on motion
- Video preview

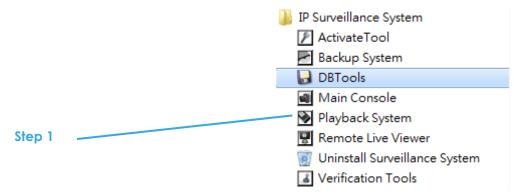


				Connection status				Record		Loc	al disp	olay	Decoded			
		1		2		3	1	2	3	1	2	3	1	2	3	
CAM 1 IVS_Shopping Ma	\bigcirc	27 fps 11.5 Mbps		fps Mbps	\bigcirc	26 fps 7.7 Mbps		\checkmark		\checkmark			\checkmark		\checkmark	
CAM 2 Fish eye	\bigcirc	0 fps 0.2 Mbps		fps Mbps		fps Mbps	~			\checkmark			\checkmark			
CAM 3 Lobby	\bigcirc	30 fps 4.1 Mbps		fps Mbps		– fps – Mbps	~			\checkmark			\checkmark			
CAM 4 IVS_Roof	\bigcirc	30 fps 0.7 Mbps		fps Mbps	•	– fps – Mbps	V			\checkmark			\checkmark			
CAM 5 Park1	\bigcirc	30 fps 9.2 Mbps		fps Mbps		fps Mbps	V			\checkmark		1 1 1 1 1 1	\checkmark			
CAM 6 Camera 06	\bigcirc	fps Mbps		fps Mbps		fps Mbps	\checkmark		\checkmark	\checkmark						
CAM 7 Camera 07		fps Mbps		fps Mbps		– fps – Mbps	V			\checkmark						
CAM 8 Camera 08		fps Mbps		fps Mbps	0	fps Mbps	V		V		\checkmark					
												1 1 1 1				
Download Bitrate: 33.52 Mbp	s Ha	ard disk thro	ughput: 1	13.51 Mbps												
🔵 Connected 🥥 Connecting 🛢	Discor	nnected 🔘 l	dle 🔵 No	ot Support												

11.5 DB Tool

The DB Tool repairs database files and Export configurations. **Warning**: improper use of this DB Tool may cause loss of recorded video.

Step 1: Execute DB Tool from program files.



Step 2: Enter the password of administrator to log in.

Step 2	DBTools login	
	Please enter password for the administrator of Main Console :	
	User name: admin	
	Password:	
	OK Cancel	

11.5.1 Repair Database

This page has three repair method, Modify Location, Verify Only, and Repair.

For modify location:

Playback system can recognize all recording video in the folders listed on Main Console – General Setting - Setting - General page. For some reason, user needs to use Playback system to open recording video beyond storage location setting. For this propose, user could follow below steps to modify location by DB tool.

Note: The default storage location is in the installation directory, (ex: C:\Program Files\IPS_System)

Step 1: Select the repair Method as Modify Location.

Dopoir dot	tobaca.	
Repair dat	labase	
Modify locations to store video files. Please confirm locations where video files were stored and press button "Modify" to confirm.		
Install Pa	ath: C:\Program Files (x86)\IP Surveillance System	
Method:	Modify Location	

Step 2: For add database location, please click *button and use URL to choose location*.

For remove database location, please choose location form list and click Xbutton to remove location.

Video File Locations	🞽 🗙 💿 🦊
C:\Program Files (x86)\IP Surveillance System D:\Video	

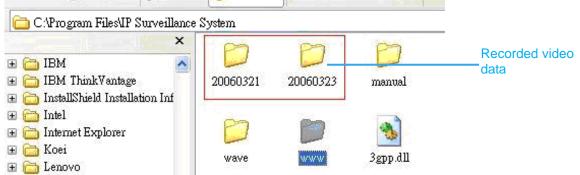
Step 3: Click on Modify button to modify location. After modification, the Modify Result will show on the panel.

Modify Result:	2 locations confirmed.		
		Open Log	Modify

Example of modify database:

In certain cases where video data needs to be transferred from one PC to another PC, user will need to perform the following:

1. Manually copy all recorded video data from the default installation path or other user-defined storage path of the old PC.



- 2. Manually paste all recorded video data to the default installation path or other user-defined storage path of the new PC
- 3. Follow previous page to add new location on new PC.
- 4. Old recorded video data can be viewed by playback system on the new PC.

For verify and repair proposes:

This tool is used to check and repair your database and recorded video with problems:

- (1) If there are records in database, but no video file, use this DB Tools to delete records.
- (2) If there are video files but no record in database, use this DB Tools to rearrange the database and find these records.
- Step 1: Select the repair Method as Verify only.

P	epair data	3536	
IN.	epair uata	10dbe	
٧	vhere vide	o files stored by surveillance system. Please confirm locations eo files were stored and press button "Verify" to check all files. abase is only needed when verification is failed.	
I	nstall Pat	h: C:\Program Files (x86)\IP Surveillance System	
I	Method:	Verify Only	

Step 2: Check the video location windows.

The system will list all video locations in table, but if there are any omit, please use in to insert. Note: After inserting location, the system will show files count below table.

Step 3: Choose the method of "Verify Only", and click "verify". This method will only check the files without modify. Verify result will show how many files broken or missing.
Verify Result: 41 files verified, 0 files broken, 0 files missing.

Step 4: Choose the method of "Repair (Complete)", and click "Repair". The Repair Result will show how many files are fixed and inserted. Repair Result: 2 files fixed, 41 files inserted.

Step 5: The repaired new database will replace the old one and the original database will change file names with extended repair date and time as below.

Address C:Program Files/IP Surveillance Name PileventLog.mdb FileRecord.mdb FileRecord.mdb PosRecord.mdb SystemLog.mdb SystemLog.mdb SystemLog.mdb

Note: Open Log is a tool to record the repaired database. It will record repair method, file operation, start time and end time.

🔋 dbtool.log - Notepad 📃 🗆 🔀
Eile Edit Format View Help
Operation "Verify Only" is started at (2008/07/14 12:01:17) File Broken: D:\Video/20080708/c00002/c00002s00A20080708112323437.dat File Broken: D:\Video/20080708/c00002/c00002s00A20080708114304625.dat 41 files verified, 2 files broken, 0 files missing. Operation "Verify Only" is finished at (2008/07/14 12:01:19)
Operation "Verify Only" is started at (2008/07/14 12:13:19) File Broken: D:\Video/20080708/c00002/c00002s00A20080708112323437.dat File Broken: D:\Video/20080708/c00002/c00002s00A20080708114304625.dat 41 files verified, 2 files broken, 0 files missing. Operation "Verify Only" is finished at (2008/07/14 12:13:20)
Operation "Repair (Complete)" is started at (2008/07/14 12:13:58) File Repaired: D:\Video/20080708/C00002/C00002s00A200807081L323437.dat File Repaired: D:\Video/20080708/C00002/C00002s00A20080708114304625.dat 2 files fixed, 41 files inserted. Operation "Repair (Complete)" is finished at (2008/07/14 12:14:07)
۷ ۲ (۲) (۲) (۲) (۲) (۲)

12. Failover Agent

Failover Agent	
General Server Startup Auto Start Up Auto Login Password Old Password New Password Password Confirm Log File Save Log H:LOG	Storage Location D:\ K:\ Enable Disk Load Balance Recycle setup: Always keep 10 % disk space. Only Keep 7 days
	V OK X Cancel

Failover Agent is a software to enable a spare recording server (the failover server) to take over the recording work once the regular recording server becomes unavailable. Hence the failover server and the Failover Agent should always be installed on another computer.

12.1. Services

Failover Agent runs two services:

Service	Description
failover service	This service always runs and constantly checks the state of the relevant recording servers. This service enables any necessary takeover
recording service	This service enables the failover server to act as a recording server while the regular recording server is unavailable. This service starts when required, i.e. when the failover server takes over the recording work.

Note: Failover Agent will failover video data only. Not for No event, alarm, metadata, I/O box, Advanced Intelligent Video Surveillance.

12.2. Activate Failover License

- Step 1: Open License Manager Tool in Start>>Failover Agent file.
- Step 2: Select Activate Tool, check the PC in Online network environment.
- Step 3: Insert the SN, SN file to activate license.
- Step 4: After software license is activated successfully, please restart Main Console. Note: Please refer to Utilities>>License Management Tool for advanced settings.

	🕖 License Management Tool			
	Activate Transfer			
		Channel	Product	Status
Step2				
	Activate type			
	 Online activation: 			
Step 3 \tag	Input SN:			
	C Import SN file:			
	C Activate from dom	gle		
				Activate
	Offline activation:			
	Step 1 : Export serve	r information	file:	
	💿 Manual key-in	SN on Offline	e Tool	
	C Activate from o	iongle		
			Expo	rt offline pack
	Step 2 : Use "Offline file.	Tool" to activa	ate license and get o	filine license
	Step 3 : Import offline	e license file:		
				Import
				Exit

12.3. Start and Stop Failover Agent

To start Failover Agent:

Click start button | All Programs | Failover Agent. Failover Agent will start and show its icon in the notification area (also "system tray").

To stop Failover Agent:

- 1. Right-Click Failover Agent's icon in the notification area. A menu will open.
- 2. Click **Exit** from the menu that opens.

Open Failover Agent
Enable
Exit
About

Note: One OnGuard (Software watchdog) can only connect with one Failover Agent. User cannot use two Failover Agent to monitor one Main Console at the same time.

Note: Main Console and Failover Agent cannot install on same server.

Note: Failover Agent will start service when in 2 hours the regular recording server becomes unavailable 5 times and each time during 15 minutes.

12.4. Enable and Disable Failover Service

Failover Agent supports users to enable and disable its service after Failover Agent starts. By default, the Failover Agent's service is auto-enabled after the start.

- 1. Right-Click Failover Agent's icon 📓 in the notification area. A menu will open.
- 2. Click **Enable** from the menu that opens.

Open Failover Agent	
Enable	
Exit	
About	

To disable Failover Agent:

- 1. Right-Click Failover Agent's icon 📓 in the notification area. A menu will open.
- 2. From the menu that opens, select **Disable**.

Open Failover Agent	
Disable	
Exit	
About	

12.5. Open Failover Agent

To open the Failover Agent that runs in the background:

1. Right-Click the Failover Agent icon in the notification area. A menu will open.

2. Select **Open Failover Agent** from the menu that opens.

Open Failover Agent
Disable
Exit
About

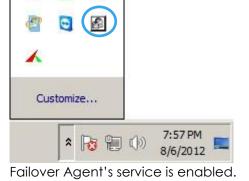
Startup Auto Start Up	Storage		
	Location		
Auto Login	D:\ K:\		
Old Password New Password Password Confirm Log File Save Log H:LOG	Enable Disk I Recycle setup: Always keep Only Keep	Load Baland	e % disk space. days

Failover Agent will open by showing its UI onscreen.

12.6. Check Failover Agent Status

After the Failover Agent starts, its status can be checked by its icon in the notification area.





Failover Agent's service is disabled. The icon has a red cross on it.

12.7. View Version Information

Knowing the version of your Failover Agent is helpful when you contact for support. To know your Failover Agent version info:

- 1. Right-Click the Failover Agent icon in the notification area. A Menu will open.
- 2. From the menu that opens, select About.

Open Fa	ailover Agent		
Disable	Disable		
Exit			
About			

A small dialog will opens showing the exact version of your Failover Agent.

12.8. General Settings

Failover Agent features a **General** tabbed page to set the preference using Failover Agent. To access **General** tabbed page:

Open Failover Agent as described in <u>12.4. Open Failover Agent</u>. Failover Agent will open.

Failover Agent				
Failover Agent General Server Startup Auto Start Up Auto Login Password Old Password New Password Password Password Confirm C	Storage Location D:1 K:1 Enable Disk Load Balance Recycle setup:			
Log File	Always keep 10 % disk space. Only Keep 7 days V OK Cancel			

Make the settings that meet your need by referencing the following:

12.8.1. Startup

Startup group box sets how Failover Agent acts when it starts.

Featured settings are:

Settings	Description	Default
Auto Startup	Sets Failover Agent to auto-start when the failover server re-starts up after accidental shutdown.	Selected (Enabled)
Auto Login	Sets Failover Agent to auto-login to enable failover service when it starts.	Selected (Enabled)

Click **OK** button to apply the change and quit setting; or click **Cancel** button to quit setting without saving the change.

12.8.2. Password

Failover Agent features a password authorization to control whether to enable failover service. Users are requested to set up such password when they installed Failover Agent. If such password should need to change later, it should be changed here in this **Password** group box.

Featured settings are:

Settings	Description	Default
Old Password	Enters the old password.	
New Password Assigns the new password.		
Password Confirm	Enters the new password again.	

Click **OK** button to apply the change and quit setting; or click **Cancel** button to quit setting without saving the change.

Note: Admin only between Main Console and Failover server. Failover operation use ID: Admin only *Note:* We recommend if users renew user account, please connect OnGuard to Failover Agent and updates user information again.

12.8.3. Log File

Failover Agent supports recording its operation history into a log file for necessary data analysis. The log file is created in .txt format with "FailoverAgent" for the filename. To access log file setting:

Setting	Description	Default
Save Log	Enables recording Failover	Selected
	Agent's operation history to a log	(Enabled)
	file.	
Field	Sets where to save the log file.	The storage where Failover
		Agent is installed to, for example
		C:\program files\

The log file is created in .txt format. Take a closer observation of such log file:

<u>File Edit Format View H</u> elp	
[2012-08-06 14:44:49] [2012-08-06 14:45:32] [2012-08-06 14:45:57] [2012-08-06 14:46:06] [2012-08-06 14:46:10] [2012-08-06 14:46:20] [2012-08-06 14:46:20] [2012-08-06 14:46:20] [2012-08-06 14:46:20] [2012-08-06 14:46:26] [2012-08-06 14:46:36] [2012-08-06 14:48:38] [2012-08-06 14:50:10] [2012-08-06 14:50:10] [2012-08-06 14:50:10] [2012-08-06 14:50:10] [2012-08-06 14:50:55] [2012-08-06 14:55:55] [2012-08-06 14:58:15] [2012-08-06 14:58:23] [2012-08-06 14:58:23] [2012-08-06 14:58:23] [2012-08-06 14:58:23] [2012-08-06 14:58:23] [2012-08-06 14:58:23] [2012-08-06 14:58:23] [2012-08-06 14:58:23] [2012-08-06 15:00:24]	<pre>INFO] Failover Agent Start 1 Failover Agent Update Settings INFO] Failover Agent Update Settings INFO] Run Failover 192.168.2.114 192.168.2.114 INFO] Run Failover 192.168.2.114 192.168.2.114 INFO] Run Failover 192.168.2.114 192.168.2.114 INFO] Run Failover 192.168.2.114 192.168.2.114 INFO] Stop Failover 192.168.2.114 192.168.2.114 INFO] Stop Failover 192.168.2.114 192.168.2.114 INFO] Run Failover 192.168.2.114 192.168.2.114 INFO] Failover Agent Update Settings INFO] Run Failover Agent Update Settings INFO] Failover Agent Update Settings</pre>

1 Failover Agent launches.

2 One or more changes are written to Failover Agent settings.

3 Failover service is performed. The failover server takes over the recording server named "192.168.2.114" at IP address 192.168.2.114.

4 Failover service stops. The failover server stops taking over the original recording server named "192.168.2.114" at 192.168.2.114 and returns the recording work to it.

12.8.4. Storage

(....

Storage group box assigns the storage to store the recorded videos and manages storage-related settings. Featured settings are:

Settings		Description	Default
Location	1	Adds new storage.	
	×	Deletes the selected storage.	
		Raises the selected storage to higher priority.	
	4	Brings the selected storage to lower priority.	
Enable Disk Load Balance		Evenly distributes recording to multiple drives, which will increase system efficiency.	Deselected (Disabled)

Note: Keep video in failover server, not collect back to recording server.

12.8.5. Automatic Recycle

Automatic Recycle group box encloses the settings to delete the outdated data to save storage space. Featured settings are:

Settings	Element	Description	Default
Recycle when disk space is less than	Radio button	Enables the system to recycle.	Selected (Enabled)
	Field	Sets the lowest remaining disk space for the system to start to recycle.	10%
Only keep video for	Radio button	Enables the system to delete older videos.	Deselected (Disabled)
	Field	Assigns a number of days to keep the recorded videos.	7 (by unit of day)

12.9. Server Settings

To access the server settings:

- 1. Open Failover Agent as described in <u>12.4. Open Failover Agent</u>. Failover Agent will open showing **General** tabbed page.
- 2. Click Server tab. Server tabbed page will open.

📓 Failover Agent			
Genera Server			
Server Setting		192.168.2.114 (192.168.2.114) - 1	- 11
Server Name:	192.168.2.114		
Address:	192.168.2.114		
Port	5220		
User Name:	admin		
Password:	***		
Priority:	1		
	Test Server		
Add	Delete Update	, * Priority 1 for the highest priority	
		🗸 ОК 🗶 Са	incel

Make the settings that meet your need by referencing the following:

Note: Support up to 8 Main Console servers to 1 Failover server and recommend to use 3 Main Console servers to 1 Failover server.

12.9.1. Set up A Server

To set up the regular recording server to take over when necessary:

- Server Setting	
Server Name:	192.168.2.115
Address:	192.168.2.115
Port:	5220
User Name:	admin
Password:	****
Priority:	5
	Test Server
Add Delete	Update

- 1. In Server Name, Address and Port fields, enter the name, address and port number of the regular recording server to take over.
- 2. In **User Name** and **Password** fields, enter the user name and password to log in the regular recording server to take over.
- 3. In **Priority** field, enter the number (1-8) of the recording server priority. Priority 1 for the highest priority.
- 4. Press **Test Server** button to check if the server is available.
- 5. Press **Add** button to apply the setup. The recording server will be added to the server *Note:* Share same port (NUSP/NUPP) and support LAN only.

12.9.2. Change Server Setting

To make any change to an existing server setting:



- 1. On the server list, select the server to change.
- 2. Make change to the setting as described in <u>12.8.1. Setup</u>.
- 3. Press **Update** button to apply the change.

Note: In this status, OnGuard and Failover Agent need to connect again to get Main **C**onsole server information.

12.9.3. Delete A Recording Server

To remove a server:

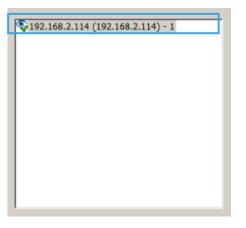
- 1. On the server list, select the server to delete.
- 2. Press **Delete** button to remove the selected server.

12.9.4. Server List

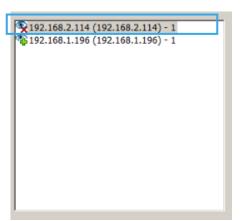
1. OnGuard have linked to Failover Agent but not connected yet.



2. OnGuard connects to Failover Agent



3. Failover Agent disconnect with Main Console



4. Failover Agent is taking over Main Console now

192.168.2.114 (192.168.2.114) - 1
192.168.1.196 (192.168.1.196) - 1

Note: Failover Agent not support Web client, MSAD and DDNS.

12.10 Remote Live viewer and Remote playback

12.10.1Remote Live viewer

Display a complete list of the server(s), group(s) and camera(s) that are added to the system. Server View: Cameras are listed according to recording server. And pop up message with Failover is running.



Note: Failover agent needs to connect remote live viewer or playback first then Failover agent will automatically connect to live viewer/playback and get failover recording.

Note: For Failover agent recording, user still login original Main Console server and will automatically transfer to Failover agent.

12.10.2 Remote Playback

Go to Date/Time Panel and click on the Second click on the top of the display window to access the Remote Playback Site



Video records are displayed as a thin line on the time table. Check **Show Recording Schedule** to show the defined period for scheduled recording. It is shown as a thick line in light blue color for Failover recording mode.

Show	Show Recording Schedule					
C Show	Show Event Log					
Start Tim	e:	2013/12/	25	• 0	0:00:00	•
2 +•	_	12/25	0	1	2	3
0 🖿	ZAVIO F3	210 (10				
0 🖿	ZAVIO P5	5111 (10			=	
0 🖿	ZAVIO D4	4210 (10			=	
0 🖿	ZAVIO D7	7320 (10			=	
0 🖿	ZAVIO B7	'510 (10			=	
0 🖿	Camera 6				-	
0 🖿	Camera 7				-	
0 🖿	Camera 8				-	
p	- ,	— <i>j</i> e	4			

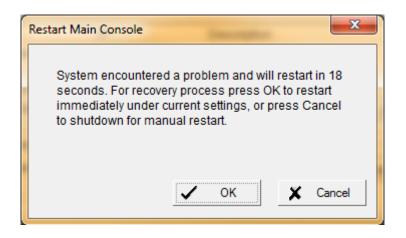
13. OnGuard

OnGuard		
Status		
Туре	IP	Description
Failover Agent	192.168.1.111	Connected
Service		
Save Log	C:\Program Files (x	86)\IP Surveillance System 🛛 🗃
- Failover Agent S	ervice	
Server Status:	Running	Start Stop
Port:	5220	
		✓ OK X Cancel

OnGuard is the software watchdog attached to Main Console to watch over Main Console's service on a regular recording server. OnGuard starts when Main Console launches and stops when Main Console quits.

13.1. Using OnGuard

Once the Main Console (the regular recording server) stops responding, OnGuard will prompt to restart the recording server by showing a dialog. Click **OK** to confirm to restart or click **Cancel** to quit Main Console for later manual restart.



Note the failover server (Failover Agent) won't take over the recording server (Main Console) unless the recording server stops responding for 5 times within one hour.

13.2. Open OnGuard

To see OnGuard on screen, minimize Main Console by click button at the lower-left on Main Console screen. If OnGuard is minimized and therefore isn't viewable, open it by taking the following action:

- 1. Right-click on its icon is in the notification area. A menu will open.
- 2. From the menu that opens, select **Open OnGuard**.

Open OnGuard
Exit
About

0	OnGuard			
	Status			
	Туре	IP	Description	
	Failover Agent	192.168.1.111	Connected	
	Service	C:\Program Files	x86)\IP Surveillance System (x86)\IP Surveillance System	
	Server Status:	Running	Start Stop	
	Port:	5220		
			✓ OK X Cancel	

13.3. Quit OnGuard

1.

If it is necessary to exit OnGuard, take the following action:



In the notification area. A menu will open.

2. From the menu that opens, select **Exit**.

	Open OnGuard
	Exit
	About
OnG	uard then quits.

13.4. Version Information

Knowing the version of your OnGuard is helpful when you contact for support. To know your OnGuard version info:

- 1. Right-click on the OnGuard icon in the notification area. A Menu will open.
- 2. From the menu that opens, select **About**.

Open OnGuard		
Exit		
About		

A small dialog will opens showing the exact version of your Failover Agent.

13.5. Check Connection Status

To check OnGuard's connection status with the remote Failover Agent:

- 1. Open OnGuard as described in 13.2. Open OnGuard. OnGuard will open onscreen.
- 2. Check the connection status in the Status box.

OnGuard			
Status			
Туре	IP	Description	
Failover Agent	192.168.1.111	Connected	
Service	,	x86)\IP Surveillance System	
Server Status:		Start	Stop
Port:	5220		
		🗸 ок 🗶	Cancel

The information provided are:

Element	Description	
Туре	ype of the service connected to, which is Failover Agent.	
IP	Delivers the IP address of the Failover Agent connected to.	
Description	Delivers the connection status with the Failover Agent.	

13.6. Log File

OnGuard supports recording its operation history into a log file for necessary data analysis.

To General Setting file log setting:

- 1. Open OnGuard as described in <u>13.2. Open OnGuard</u>. OnGuard will open onscreen.
- 2. Find the **Service** box.
- 3. Select **Save Log** to enable log file and browse for a desire folder to save the log file; or deselect **Save Log** if log file isn't needed.

💽 Or	nGuard			<u> </u>	
Stat	tus				
Тур	pe	IP	Description		
Fai	ilover Agent	192.168.1.111	Connected		
	ervice Z Save Log	C:\Program Files (x8	36)\IP Surveillance System		
	Failover Agent Service				
S	Server Status: R	unning	Start	Stop	
F	°ort:	5220			
			🗸 ок	Cancel	

The log file is created in .txt format with the filename "OnGuard". The log file helps users to know the exact time when the recording server stops responding.

Take a closer observation of such log file:

- 1 OnGuard Starts.
- 2 OnGuard's Failover Agent service starts. See 13.7. Failover Agent Service to know how to start it.
- Main Console quits.

Note: Main Console abnormal quit then will log.

- 4 Main Console launches.
- 5 OnGuard becomes connected with the remote Failover Agent. The connection is initiated by the Failover Agent.
- 6 OnGuard is disconnected from the remote Failover Agent.

13.7. Failover Agent Service

The **Failover Agent Service** box delivers the status of OnGuard's Failover Agent service. This box also features a setting to manage the port number of the Failover Agent.

OnGuard		
Status		
Туре	IP	Description
Failover Agent	192.168.1.111	Connected
✓ Save Log Failover Agent \$	1	86)\IP Surveillance System 🛛 🗃
Server Status:	Running	Start Stop
Port:	5220	
		✓ OK X Cancel

Featured settings are:

Element	Description	Default
Server Status label	This label delivers the status of OnGuard's service for the Failover Agent. When the service is running it shows "Running"; otherwise it shows "Stopped".	
Start button	Press this button to start OnGuard's Failover Agent service.	
Stop button	Press this button to stop OnGuard's Failover Agent service.	
Port setting	Sets the port number of the remote failover server (Failover Agent) for communication.	5220 (Note)

Note: 5220 is the default port number which the recording server and failover server communicate with each

other. The failover server relies on this port to gets the General Setting of the recording server taken over.

13.8. Failo	ver Aaent o	and OnGuard	Scenario

Scenario	OnGuard mechanism	Failover Agent mechanism	After manually restart Main Console
Generate dump file	Auto recover and Main Console automaticlly login	When Main Console generate 5 th dump file within one hour, Failover Agent will start to take over Main Console	Same with the setting before restart
Electricity off line	Restart and with startup setting	Failover Agent starts to take over Main Console	Same with startup setting
Network connection lost	-	Failover Agent starts to take over Main Console	-
OS with close AP message	Auto recover and Main Console automaticlly login	When Main Console 5 th close within one hour, Failover Agent will start to take over Main Console	Same with the setting before restart
Virtual memory exceed limitation	Auto recover and Main Console automaticlly login	When Main Console 5 th virtual memory exceed limitation within one hour, Failover Agent will start to take over Main Console	Same with the setting before restart
Process delete	Auto recover and Main Console automaticlly login	When Main Console 5 th process cancel within one hour, Failover Agent will start to take over Main Console	Same with the setting before restart
BSOD	Restart and with startup setting	Failover Agent start to take over Main Console	Same with startup setting
Process hang over 15 minutes	Auto recover and Main Console automaticlly login	When Main Console 5 th process hang over 15 minutes within two hours, Failover Agent will start to take over Main Console	Same with the setting before restart

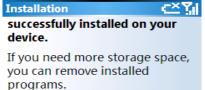
Appendix A – Smart Phone Client

See the sections below to find how to install and execute SP Client. **Note:**

- 1. Smart Phone Client is navigation of operation, user can only control client with phone buttons.
- 2. The resolution SP Client is limited in 240*320 (QVGA).

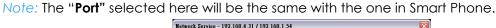
1.1 Install Smart Phone Client

- Step 1: Connect mobile device to the PC.
- **Step 2:** Insert the installation CD and click on Smart Phone Client Installation to install application in device. **Step 3:** Check the client application is installed completely in the mobile device.



1.2 Execute Smart Phone Client Setting License Manager Save/Load Configuration 1.2.1 Main Console setting Video Analytics 📓 Metadata Application 🗣 Metadata Search Step 1: Go to General Setting and select Network Service 📋 Log Viewer Backup **Network Service** About Main Console. * Ď ·**** \mathbb{N}

Step 2: Select "Live Streaming", and then click "Start".





1.2.2 Execute and Login

				LOGIN	411 4 € 7:11	
Me Program	ms .	#: -1 € 7:04 ₽		dress 2.168.		-
Download Agent	Excel Mobile	File Explorer	Po	rt 50		
	(* 🖬		Na	me Imin		
Notes	LiveViewer	Pictures & Videos	Pa	ssword		1
Pocket MSN	PowerPoint Mobile	Search		Remember My P	assword	
7		W		1	LXI	
Tasks	Terminal Servic	Word Mobile	•			

Step 1: Make sure your Smart Phone device is connected to network, and then go to Start - Programs - Smart Phone Client to execute application.

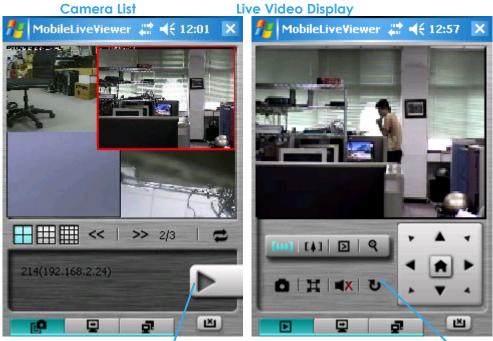
Step 2: Insert Address, Port, Name and Password of the server and click on 🖆 to login.

1.3 Smart Phone Client Overview

There are 3 main pages of Client application: **Monitor Preview**, **I/O Control** and **System Info**. Switch between these buttons to adjust overall configuration.



1.3.1 Live View



Display Live Video

Back to Camera List

Camera List:

Displays all "snapshots" of channels connected to server as camera list. Click indicated snapshot to get the

channel information, and then click on **P** to display live video.

Note: The Screen Division and Refresh option could help to quick find the channel.

Screen Divisions	🕂 🎞 🗮 < >> 2/3 🚍	Refresh
------------------	----------------------	---------

Live Video Display:

Live View panel could display "live video", control PTZ, and snapshot. Click 💟 to go back camera list. PTZ Control: Click PT Control Panel and Zoom Out/In to control physical PTZ camera or adjust digital PTZ under digital PTZ mode.

Note: To switch between "Digital PTZ" and "Physical PTZ", simply click on 🔳 button.



Preset Go: Click D to select indicated preset point.

[+++] [[4]] [2		•	*
O H A	Preset03 bbbb		
	Preset04		-
	Preset05		Ľ

Snapshot: Click is to take the snapshot and save it to default folder.

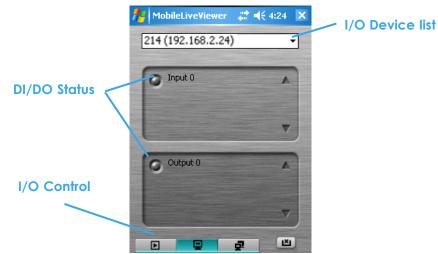
Full Screen: Click III to toggle to the "Full Screen Mode", right click screen to obtain the PT control panel and disable full screen display.



Enable Audio: Click 💷 to enable the audio of current channel.

1.3.2 I/O Control

Select "I/O Control" button to monitor status of DI/DO devices, and control DO devices.



I/O Device list:

Select and monitor the device connected with Server. DI/DO status:

Monitor the DI/DO status synchronized with Server, and then click Output button to trigger the DO action.

Gray icon indicates the normal status of DI/DO devices.

Red icon indicates the alarm status of DI/DO devices.

Green icon indicates the synchronization process.

1.3.3 System Info

Display the server and client information. Server information includes address, post, and version. Client information includes login user, count of camera and I/O device with access authority and version.



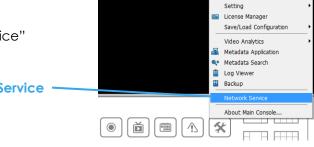
Appendix B – iPhone Browser

Live Streaming service can handle requests from iPhone's Safari browser. This section will guide you how to use this feature with iPhone devices.

1.1 General Setting from server

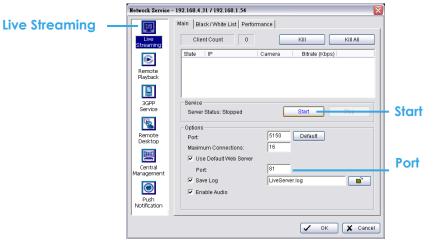
Step 1: Go to "General Setting" and select "Network Service"

Network Service



Step 2: Select "Live Streaming", and then click "Start".

Note: The "Port" selected here will be the same as the web live view and web playback.



1.2 Connect to server

Step 1: Make sure the I-phone is connected to the internet. Open Safari browser and enter the IP address or DDNS "name" of the server followed by the connecting port. Example: <u>http://192.168.1.16:8080/</u> 下午3:18

Note: 192.168.1.16 is the IP address of the server.

8080 is the port specified in "Use Default Web Server" in Network Service.

Step 2: Enter user name and password to login Main Console Server, select camera to view live video.

1.3 Live Display

To view live video, select camera from list, use touch panel to zoom in the video.

To switch video, please click camera to view the video.

to back to list and select another

1.4 PTZ Control

With cameras that support PTZ function, the PTZ panel will show as picture. User can control camera to pan, tile and zoom in/zoom out manually, or move to pre-set location by select PTZ preset point from drop down list.



Appendix C - Remote Desktop Tool

How to install Remote Desktop Tool

Step 1: Insert the Installation CD.

Step 2: Go to Remote Desktop Viewer directly and Run Setup.exe file.

How to Start Remote Desktop Tool

Step 1: Start - All Programs - Remote Desktop Viewer - Remote Desktop Viewer.

Step 2: Enter address, Port, Password of server. Enable the option to use 8 bits color level to show steadier screen.

Step 3: Click OK to Start Remote Desktop.

🔩 Remote Desktop Viewer 🛛 🔀				
Server:	I	-		
Port:	5140	Default		
Password:				
Use 8 bits color level				
OK Cancel				