

Video Management Software

User's Manual

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1. Overview

Video Management Software (VMS) is a powerful and professional centralized monitoring system designed for all range of applications and projects. With VMS, accessing and monitoring multiple surveillance tools such as NVRs, DVRs and IP Cameras are just a few clicks away. The feature-packed intelligent surveillance offers the professional users with complete and enhanced surveillance experiences.

2. System Requirement

The following lists the recommended computer system for installing VMS software.

Items	System Requirement
CPU	Minimum: Intel CPU Core i3-4150 3.5GHz
	Recommended: Intel CPU Core i5-4590S 3.2GHz
RAM Memory	Minimum: 2x2 GB
	Recommended: 2x4 GB
Graphics	Minimum: Intel® HD Graphics 4400
	Recommended: Intel® HD Graphics 4600
HDD	500MB or above
Operating Systems	Windows 7(x64): Ultimate, Enterprise, Professional, Home Premium, Home Basic Windows 8 (x64): Enterprise, Pro, Windows 8
Ethernet	Gigabit LAN
Software	Microsoft .NET 4.0 Framework
IP Camera Input	Minimum: 64 CH live view with 16CH recording
	Recommended: 128 CH live view with 32CH recording



NOTE: If the graphics of the PC is other than Intel® graphics, an error may occur while running VMS. Thus, it is strongly recommended to activate Software Decode function to ensure VMS can run smoothly. Go to <Setup> → <General>, and check Software decode to activate Software Decode function.

2.1 VMS Software Installation

Follow the steps below to install VMS to the local computer.

- Step 1.** Check the PC system to see if the PC meets the VMS system requirements.
- Step 2.** Insert the software CD to the computer, access the CD folder, and double click on VMS_Setup.exe.
- Step 3.** The VMS Installation Setup Wizard window will appear. Follow the installation wizard to install the VMS.
- Step 4.** Select the Destination Folder and VMS shortcuts.
- Step 5.** Select components to be installed. It is recommended to select <Disable IIS Service (Recommended)> to ensure VMS can run smoothly.



NOTE: If users wish to load the default settings of VMS, check <Default Setting>. Otherwise, do not check this item.

- Step 6.** A “Microsoft Visual C++2013 Redistributable (x64)” installation window may popup. Check <I agree to the license terms and conditions” and click on <Install>.
- Step 7.** When the installation completes, click on <Close> to precede the VMS installation process.



- Step 8.** When VMS installation is completed, click <Finish> to exit.

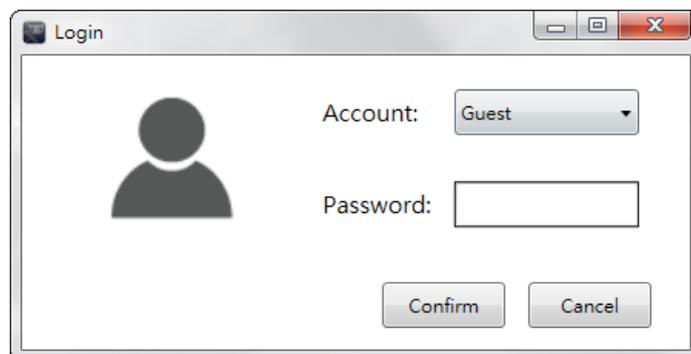
Please refer to section **System Requirement** for more about VMS system requirements.

2.2 VMS Start Up

To start up VMS, click <Start> → <Programs> → <VMS>. Alternatively, double click on the shortcut icon on the desktop or go to “\VMS\EXE\” and double click on VMS icon.

2.3 Log In / Log Out / Reboot / Shutdown

Once VMS is started, the VMS main window will show up, and the preset logged-in user account will be “Guest”. To login the VMS system as the administrator, click <  Guest > at the top-right of the window and select <  Log out >; a login window will be pop up. Select the administrator account, “**Admin**” and input the preset password “**123456**” in Password field. Then click <  > to login VMS as the administrator.



(Login Window)

To log out the currently logged-in user account, just click on the username, and select <  Log out >.

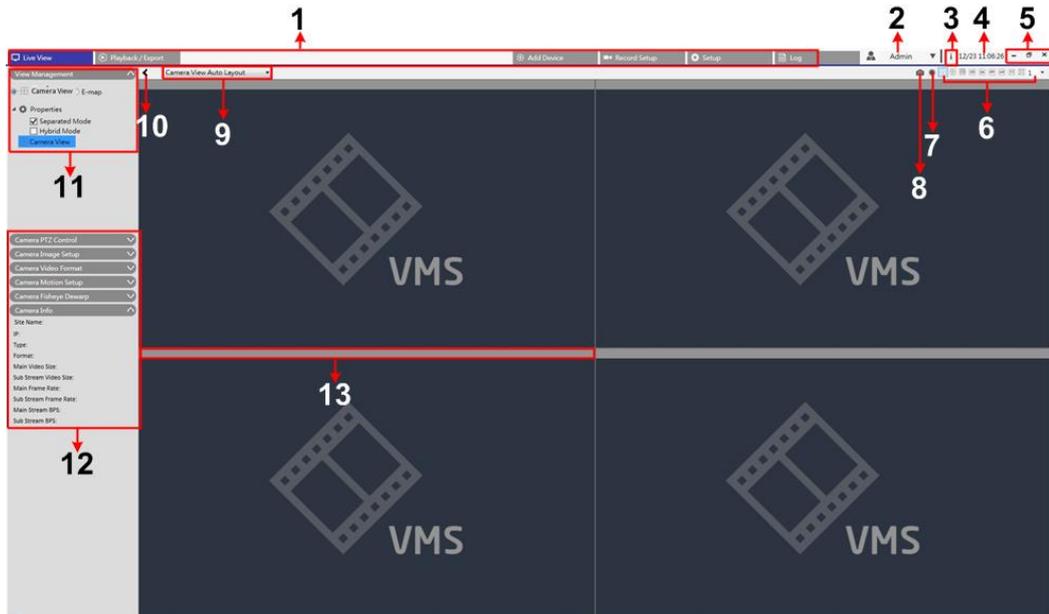


NOTE: It is strongly suggested to change the preset password to prevent unauthorized access.

3. Live View

When the VMS starts up, the VMS Live View Window will be shown. The following further describes each item in the Live View.

3.1 Live View Window



No.	Item	Description
1	Function Tabs	Function tabs include <Live View>, <Playback/Export>, <Add Device>, <Record Setup>, <Setup> and <Log>.
2	Login/Logout	Login the VMS system with the authorized user account or logout the currently logged-in account.
3	System Info	Click <[i]>, and the VMS System Info Pane will be displayed on the right of the window. Users can view the VMS software version, CPU status, RAM (memory) usage, HDD space and network flow of the PC. Click <[i]> again to hide the System Info Pane.
4	Date/Time	This shows the current date/time information.
5	Window Basics	To minimize, maximize and close the VMS software.
6	Display Mode	Display modes include 4-window, 9-window, 16-window, 25-window, 36-window, 49-window, 64-window, 132-window and full-screen.
7	Instant Record	Click to record the current video immediately.

8	Snapshot	Click to capture the current viewing in Live View or Playback/Export tab.
9	View Layout Setup	<p>Users can choose or design their desired viewing layout by selecting <View Auto Layout>, <View Custom Layout> or <View Browse Layout>.</p> <p>View Auto Layout Select this option and VMS will automatically adjust the layout to the suitable layout format when new IP devices are added to VMS.</p> <p>View Custom Layout Users can self-define at most 5 sets of viewing layout. The following section will further describe how to setup a viewing layout.</p> <p>View Browse Layout Users can self-define viewing layouts and set certain live viewing to a designated channel grid. This layout mode is only available in Hybrid View Mode or Separate View – Camera View Mode.</p>
10	Hide Function Panes	Click <[<]> and the View Management Pane and Camera Setup Pane will be hidden. Click <[>]> to show the pane.
11	View Management	<p>Normal Mode All connected IP devices are listed here. There are two ways to display the IP devices, <Separate View> and <Hybrid View>. Select either option to switch and display the corresponding viewing mode.</p> <p>- Separated Mode The connected IP devices are divided into two view groups, <Camera View> and <NVR View>. In <Camera View>, users can check all connected IP cameras. In <NVR View>, users can only check the IP cameras from the connected NVR.</p>

		<ul style="list-style-type: none">- Hybrid View All IP devices are gathered and displayed in the same view group. <p>E-Map Function Mode Users can import the layout of the monitoring building and place the location of the cameras on the map. Refer to next section for further description.</p>
12	Camera Setup Panes	<p>When IP cameras are connected to VMS, users are able to setup several main settings of IP cameras.</p> <p>Besides, users can check the basic information of the selected IP camera under <Camera Information>. Each setup pane will be further described in later sections.</p>
13	Camera Title Bar	<p>The camera title bar is above each channel grid. When the camera title bar is in blue, this indicates the connection between VMS and IP Camera is in good condition.</p>

3.1.1 Display Mode

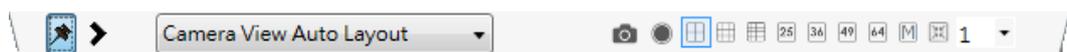
When VMS is in Auto Layout mode, users can select their preferred display mode. The available display modes are 4-window, 9-window, 16-window, 25-window, 36-window, 49-window and 64-window.

Click on any icon to view the selected display mode. Click < 1 ▾ > and select a page number to view previous/next cameras in the view group. To view a certain channel in single channel mode, double click on the channel grid.

Full-screen Mode

Click <  > to view the display window in full-screen. To exit full-screen mode, just press ESC key on the keyboard.

In full-screen mode, move the mouse cursor to the top-center of the monitor, and a float function bar will appear as below.



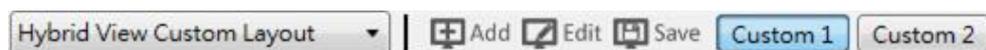
Click <  > to fix the function bar. Click <  > to display View Management and Camera Setup Panes. Users can capture the current viewing image by clicking on <  >.

3.1.1 View Layout Setup (Normal Viewing Mode Only)

VMS provides users the flexibility to self-define their preferred display layout. Refer to the following for further instruction.

3.1.8.1 View Custom Layout Setup

Users can setup their preferred display layout when VMS is set to either Separated Mode or Hybrid Mode. Select <Camera/NVR/Hybrid View Custom Layout> and its setting items will be shown as below.

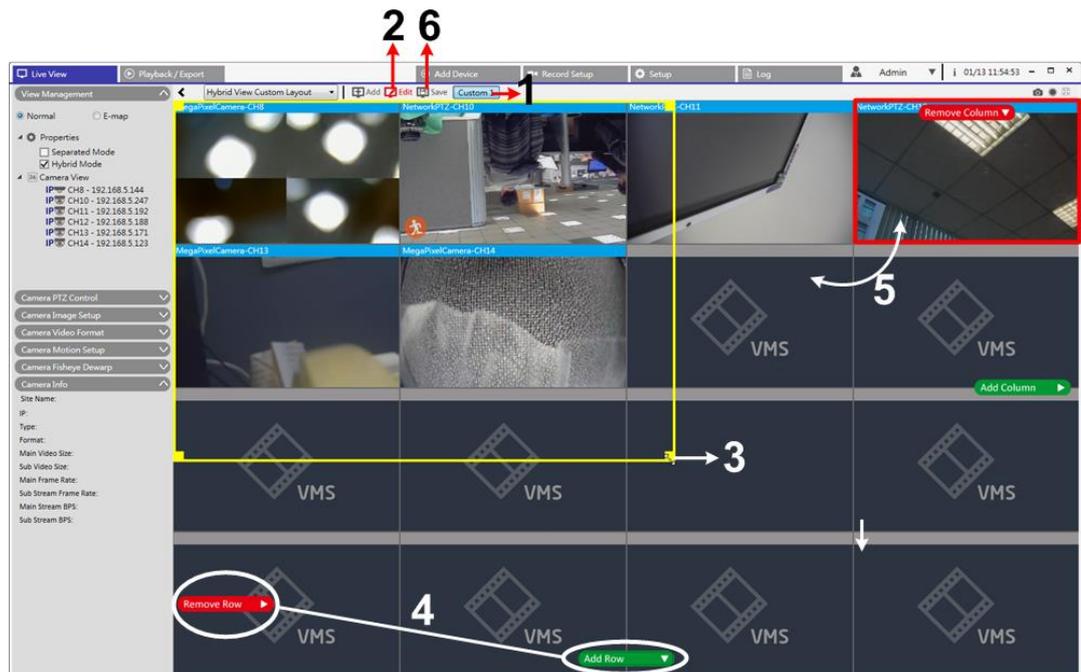


Add / Rename / Delete a Display Layout

- Click <  Add >; a new layout will be added to the layout list.
- To revise the layout name, right click the layout name and select <  Edit name > from the drop-down menu. A setting window pops up; set the layout name and click <  OK > to save and apply the setting.
- To delete a layout, right click the layout name and select <  Remove > from the drop-down menu. The layout will be removed from the layout list.

Edit a Display Layout

Follow the steps below to setup a display layout.



- Step 1.** Select a layout from the layout list.
- Step 2.** Click  to enter its layout setup mode.
- Step 3.** To resize a channel grid, first click on a channel grid. Click and drag any corner of the yellow frame to draw a grid layout. When finishing the drawing, release the mouse.
- Step 4.** To add more channel grids, click  / . Alternatively, to remove the added columns/rows, click  / .
- Step 5.** Two different channels can be swapped. Click and drag any channel from its original grid to the desired grid and drop the channel.
- Step 6.** Click  to save and apply the setting.

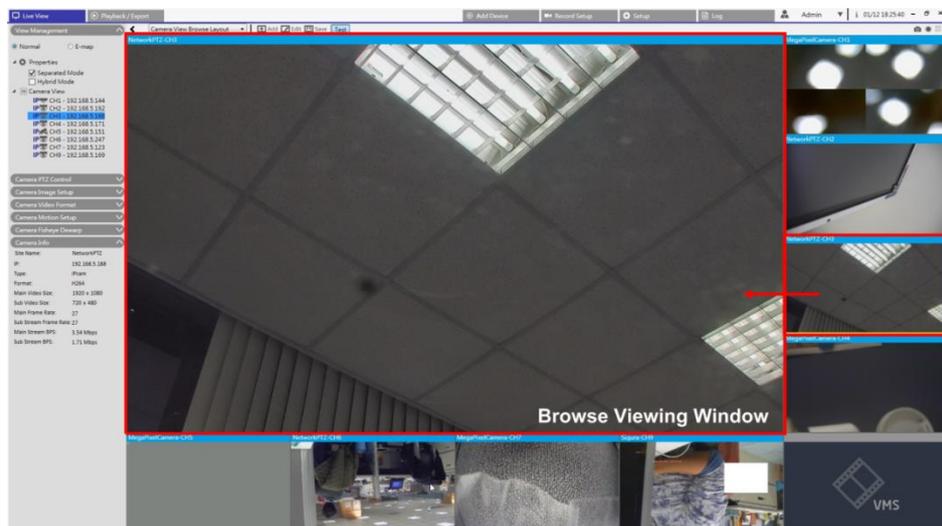
3.1.1.2 View Browse Layout Setup

Under Browse Layout Mode, users can set certain live viewing to a designated viewing window when VMS is set to either Separated Mode or Hybrid Mode. Refer to the following for further instruction.



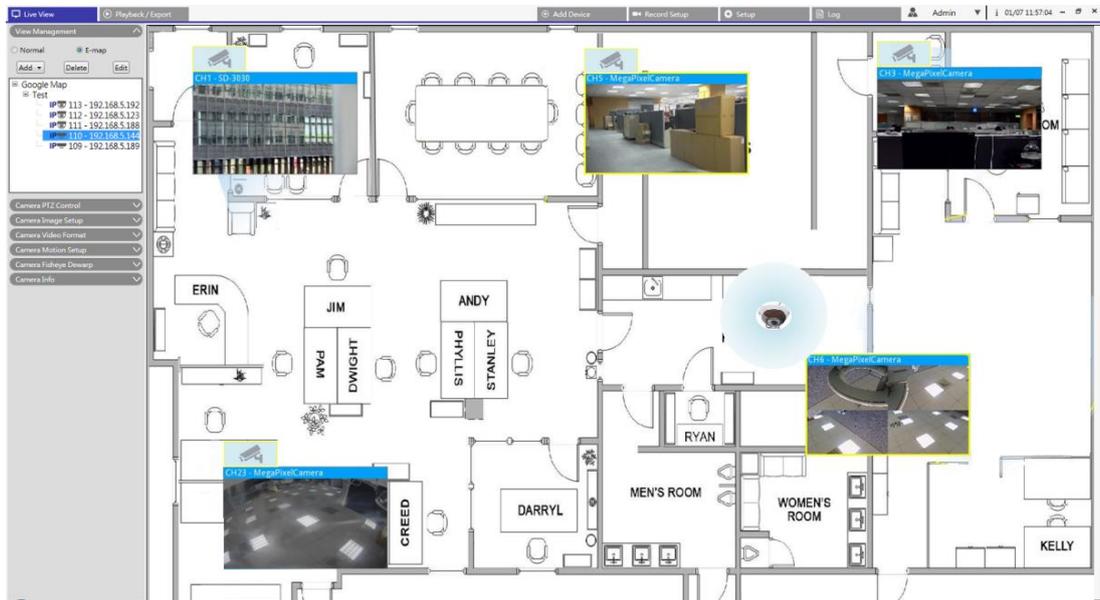
- Select <Camera View Browse Layout> or < Hybrid View Browse Custom Layout >.
- Follow the step 1 to step 5 in **Edit a Display** of the last section **View Custom Layout Setup** to setup a layout.
- Then, select the desired channel grid and a setting button <Set as browse display> will show up. Click the button and the channel grid will be set as the preset browse viewing window.
- To re-assign the browse viewing window, click the current browse viewing window and click <Cancel browse display>. Then, follow the previous step to set a new browse viewing window.
- Click <Save> to save and apply the setting.

Now, click any channel grid, its live viewing will be displayed in the preset browse viewing window as below.



3.1.2 E-Map Setup

E-map allows users to illustrate the positions of cameras on a self-selected image. Under View Management Pane, select **< E-Map >** to display the E-Map setting pane. Follow the instruction to setup the E-map.



Add Maps

- Step 1.** Select **< Google Map >**, click **< Add >** and select **< Add Map >**. Alternatively, right click **< Google Map >** and select **< Add >**.
- Step 2.** Select a map file.
- Step 3.** Set a name for the map.
- Step 4.** Click **< OK >**. The map will be added to the map list.
- Step 5.** Click and drag the Google Map location icon **< 📍 >** to the desired location and then drop it.

Update Maps

- Step 1.** Select any Map from the E-map menu, and click **< Edit >**. The map edit window will appear.
- Step 2.** Modify the name of the map, or update maps by uploading new maps.
- Step 3.** Click **< Apply >** to save the settings.

Google Map Function

Users can add maps with geographic location in Google Map.

- Step 1.** Click and drag the Google Map to the desired location. Use **< + >** / **< - >** to zoom in/out the Google Map to search the location.

- Step 2.** Click and drag the yellow Pegman icon to the desired location. Drop the icon on the map and the screen will zoom down to Street View.
- Step 3.** Add a new map to the desired location/area. Once the map is added, the Google Map location icon will be shown on the map.
- Step 4.** Move the mouse cursor to and users can preview the map.
- Step 5.** Double click to display the map.
- Step 6.** To re-locate the map, click and drag to the desired location and drop the icon.

Add Cameras

Follow the steps to add the camera to the map.

- Step 1.** Select the desired map from the map menu.
- Step 2.** Click and select . Alternatively, right click the map name and select .
- Step 3.** Input the name of the camera.
- Step 4.** Select a camera from the Camera drop-down list.
- Step 5.** Select the camera type, IP Cam or Fisheye.
- Step 6.** Click . The camera will be added to the map.

Delete Maps

Select any map on the E-map menu, and click . Alternatively, right click on any map from the map list and select . The selected map will be removed from the list.

Edit the Cameras

Users can edit the name of the added cameras or replace cameras.

- Step 1.** Select any camera on the E-map menu, and click . Alternatively, right click any camera in the map list and select . The Camera Setup window will appear.
- Step 2.** Reset the camera name or change the cameras.
- Step 3.** Click to save the settings.



NOTE: Changing cameras will not influence the original position of the camera icons on the map.

Change the Location of the Camera on the Map

After cameras are added to the map, users can designate the camera to the desired areas on the map to show the exact location of the camera. To re-locate the camera icon, just click and drag the icon to the desired location.

To display the camera live view on E-map, just double click on the camera icon and the live view of the camera will be displayed as below.



Icon	Description	Icon	Description
	IP Camera / PTZ Camera		Fisheye Camera

NOTE: When resizing the VMS window, the position of the camera icons on the map will change.

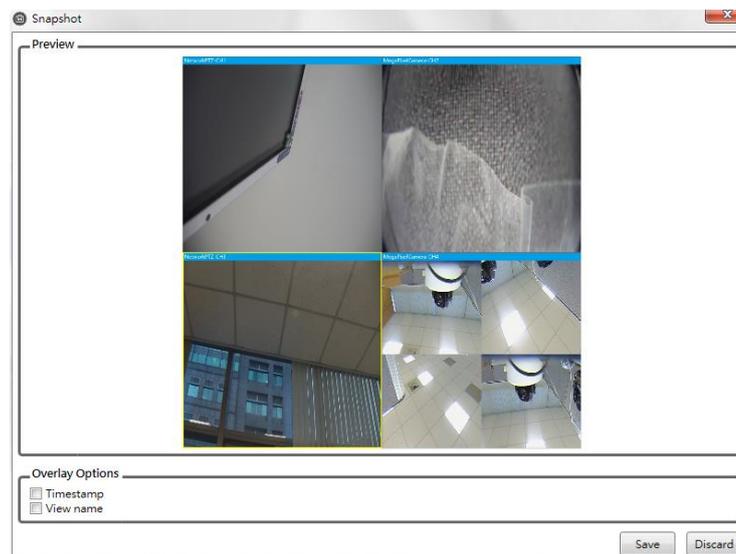
Delete Cameras

Select any camera on the E-map menu, and click <Delete>. The selected camera will be removed from the list.

3.1.3 Snapshot

VMS allows users to capture the current viewing image in Normal Viewing Mode or in Playback/Export tab.

Click  at the top-right of the monitor, and the current viewing will be captured. The pop-up Snapshot window will be as below.



Users can choose whether to display the captured time and the name of view group under <Overlay Options>.

Click  to save the captured, or click  to cancel. The captured image will be stored in the preset file path, which can be changed under Setup tab.

3.1.4 Audio Recording

This item is used to switch on/off the audio of the selected IP camera channel.

Move the mouse cursor to any channel grid, and an Audio icon  will show up. Click ; the audio function will be enabled and the icon will be switched to . Furthermore, another Audio icon  will be displayed at the bottom-left of the channel grid to notify users that the Audio of the IP camera is currently switched to ON.

To disable this function, just click .



NOTE: The Audio function can only be enabled a channel at a time.

3.1.5 Digital Zoom

Users can view the camera zoom-in images via digital zoom function.

Move the mouse cursor to any channel grid and scroll up/down the mouse wheel to zoom in/out. The zoom-in magnification will be displayed on the top left corner of the grid. The maximum magnification is 10x. Click and drag the mouse to view the desired viewing.

3.1.6 Event Icons

When an alarm/event occurs, the icon corresponding to the event type will show up at the bottom-left of the channel grid.

Icon	Description
	Motion detection
	Alarm input triggered
	Video Loss

3.1.7 Image Adjustment Icons

Users can click on following icons at the bottom-right of each channel grid to adjust the view image.

Icon	Description
	Rotate the View
	Fill Up the Frame
	Return to Original Size

Users can hide these image adjustment icons. Go to <Setup> → <General>; un-check <Show function bar>. The image adjustment icon and Audio icon will be hidden.

3.1.8 Camera PTZ Control

VMS supports PTZ control function. In Live View, select a camera channel that equips pan/tilt/zoom function and expand the Camera PTZ Control Pane on the left of the monitor.

3.1.8.1 PTZ Control Icons

The PTZ control icons are Zoom Out/In, Focus Far/Near, Iris Open/Close, Preset, Auto Focus and Direction Control Panel. The functions are described as below.

Icon	Description	Icon	Description	Icon	Description
	Zoom Out		Zoom In		Iris Close
	Iris Open		Focus Far		Focus Near
	Set Tour		Go Tour		Set Preset
	Go Preset		Auto Focus		

Zoom Out

Click on it to zoom out the lens of selected camera. This function is to shrink the current image and a larger viewing area can be displayed.

Zoom In

Click on it to zoom in the lens of selected camera. This function is to enlarge a certain area.

Iris Close

Click on it to shrink the Iris on the selected camera.

Iris Open

Click on it to open the Iris on the selected camera.

Focus Far

Click on it to focus the lens of selected camera at a farther point.

Focus Near

Click on it to focus the lens of selected camera at a nearer point.

Tour

This function is to setup at most 8 tour paths of the camera and execute the tour path for viewing.

Preset

This function is to set up certain position as a preset point and go to the predetermined preset positions for viewing.

Auto Focus

Click on this button to automatically adjust focus of the selected camera.

Direction Control Panel

Click and drag the control button (in the center of the panel) to pan and tilt the lens of the selected camera. The pan/tilt speed depends on the distance between the control button and the Direction Control Panel. The farther the control button is dragged from the center of the panel, the faster the pan/tilt speed is, and vice versa.

3.1.8.2 Set Preset Points

VMS allows users to set preset positions. The amount of preset points depends on the camera manufacturer.

Follow the steps to set preset points.

- Step 1.** Click on a camera channel that equips preset point function.
- Step 2.** Select a preset number from the preset list.
- Step 3.** Use the Direction Control Panel to pan/tilt the camera to the desired position.
- Step 4.** Click to save the position.

3.1.8.3 Call Preset Points

Follow the steps to call preset points.

- Step 1.** Click on a camera channel that equips pan/tilt/zoom function.
- Step 2.** Select a preset point number from the Preset Point List.
- Step 3.** Click to call the preset point. The selected camera will automatically move to the preset position.

3.1.8.4 Set Dome Camera Tour Path

VMS allows users to set Tour Path. Follow the steps to set tour paths.

Step 1. Click on a camera channel that equips pan/tilt/zoom function.

Step 2. Select a tour path number from the Tour Path list.

Step 3. Click < > to start recording the tour path.

Step 4. Use the Direction Control Panel to pan/tilt the camera to set a tour path.

Step 5. Click < > to save the position.

3.1.8.5 Run Dome Camera Tour Path

Follow the steps to run the camera tour path.

Step 1. Click on a camera channel that a camera tour path is already set.

Step 2. Select a Tour Path number from the Tour Path List.

Step 3. Click < >, and the camera will start touring as recorded.

Step 4. Click on Direction Control Panel to end the camera tour.

3.1.9 Camera Image Setup

Users can configure the image settings of the selected IP camera. The image settings include image adjustment, noise reduction, white balance, etc.



NOTE: If the live viewing of the IP camera is from the connected NVR, this setup pane will be unavailable.

Users should first click the desired IP camera channel and then start the setting. When users are adjusting image configuration, users can then watch the channel grid to check the change of image setting. After setting, click <Apply> to save the setting.



NOTE: Some setting items may be unavailable for certain IP camera models. Thus, those setting items will be grayed out and cannot be accessed.

3.1.10 Camera Video Format

Users can configure the settings of video format. The video format settings include video resolution, video rotate, H.264 profile, CBR/VBR mode, etc.



NOTE: If the live viewing of the IP camera is from the connected NVR, this setup pane will be unavailable.

Users must click  after setting. Otherwise, the setting will not be saved.



NOTE: Some setting items may not be available for certain IP camera models. Thus, those setting items will be grayed out and cannot be accessed.

3.1.11 Camera Motion Setup

Users can setup the configuration of motion detection here. Motion detection settings include sampling, detection level, sensitivity, time interval and motion detection areas. Click on any IP camera channel and select <Camera Motion Setup> to enter the motion setup mode. The following is the description of each item.



NOTE: Users must ensure the motion detection function of VMS is enabled under the Event setting menu. Refer to section **Event Setup** under **System Setup** for further instruction.



NOTE: If the live viewing of the IP camera is from the connected NVR, this setup pane will be unavailable.

Sampling

This item is used to examine the differences between two frames. Users can configure the interval of sampling pixel. For instance, if users set the interval as 5. IP camera system will take one sampling pixel from every 5 pixels of each row and each column in detection area. The alarm will be triggered when differences are detected.

Detection Level

Users can configure detection level for each sampling pixel. Detection level is how much the camera can accept the differences between two sampling pixels. The smaller the value is, the lower the detection level.

Sensitivity:

This item is used to set the detection sensitivity. A greater value indicates higher sensitive motion detection.

Time Interval

This item is used to adjust the time interval between each detection motion.

Detection Area Setup

Under motion setup mode, a red frame (detection window) will be displayed on the channel grid. Note that the amount of motion detection areas may vary from different IP camera models. Refer to the following to setup motion detection windows.

- To change the location of the motion detection window, click on the center of the detection window and move it to the desired location.
- To resize the detection window, click and drag the edge of the red frame.
- To add a new detection window, right click on the channel grid and select <Add New Window> from the drop-down list.
- Click < > to save the setting to the selected IP camera channel.

Then follow the description below to remove an added motion detection window.

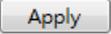
Step 1. Select a desired detection window, and then right click on the channel grid.

Step 2. Select <Remove Selected Window> from the drop-down list. The selected detection window will be removed. Alternatively, select <Remove All Window> to remove all detection windows.

Step 3. Click < > to save the setting to the selected IP camera channel.

3.1.12 Camera Fisheye Setup

VMS is equipped with fisheye camera dewarping function, providing users to view the monitoring locations in fine details. Two dewarping types are provided according to whether the connected fisheye camera is equipped with dewarping function or not. Double click on the fisheye camera channel grid to display it in single channel mode and then click <Camera Fisheye Setup> to display the setting items.

The first dewarping type is <front>, which is especially for fisheye camera equipped with dewarping function. Select <front> and choose which installation method under <Installation> according to the camera mounting method. Then, click < >, and the fisheye camera will correct its source images.

The second dewarping type is <back>, which is designed for fisheye camera that is not equipped with dewarping function and VMS will dewarp the fisheye source images and provides several dewarping modes for users to choose. Select <back> and choose the installation type under <Installation>. Click < > to save the setting. Then, move the mouse cursor to the bottom-right corner of the channel grid and click < >; the Fisheye Image Adjustment list will be shown. The dewarping modes include <Normal View>, <PTZ View>, <360 View> and <Quad View>. Select a preferred mode and VMS will automatically dewarp the fisheye source images. The following further describe each dewarping mode listed in the Fisheye Image Adjustment list.



NOTE: <back> dewarping type can be applied to both fisheye models equipped with / without dewarping function.

- **Normal View** 
Click on this item to view the live videos without dewarping.
- **PTZ View** 
Click on this item to view the dewarped live images and virtually pan / tilt the camera by clicking and dragging mouse to any direction.
- **360 View** 
Click on this item to view the dewarped live images as two 180° views.

- **Quad View** 

Click on this item to view the dewarped live images as four PTZ views.



NOTE: Under <PTZ View>, <360 Panoramic> or <Quad View>, users can always use ePTZ function to virtually pan / tilt the camera by clicking and dragging the mouse to any direction.

3.1.14 Camera Information

Users can check the brief information of the connected IP cameras. Click on any IP camera channel from the display window or from View Management pane and the basic information of the IP camera will be listed in Camera Information pane. The brief information includes site name, IP address, device type, video format, etc.

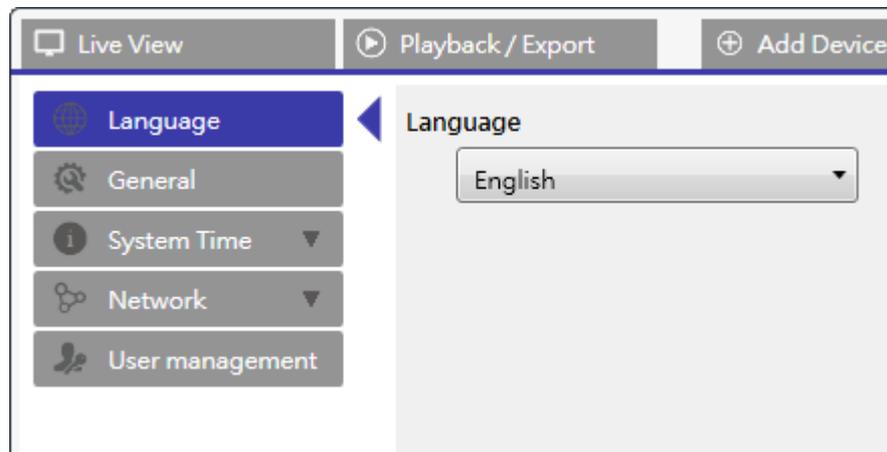
Camera Info 	
Site Name:	NetworkPTZ
IP:	192.168.5.188
Type:	IPcam
Format:	H264
Main Video Size:	1920 x 1080
Sub Video Size:	720 x 480
Main Frame Rate:	30
Sub Stream Frame Rate:	30
Main Stream BPS:	3.99 Mbps
Sub Stream BPS:	0.75 Mbps

4. General VMS Configuration

In the Setup function tab, users can setup the basic VMS settings, such as language, date/time setup, network setup, user account management, etc. Click <Setup> to enter the general VMS configuration menus.

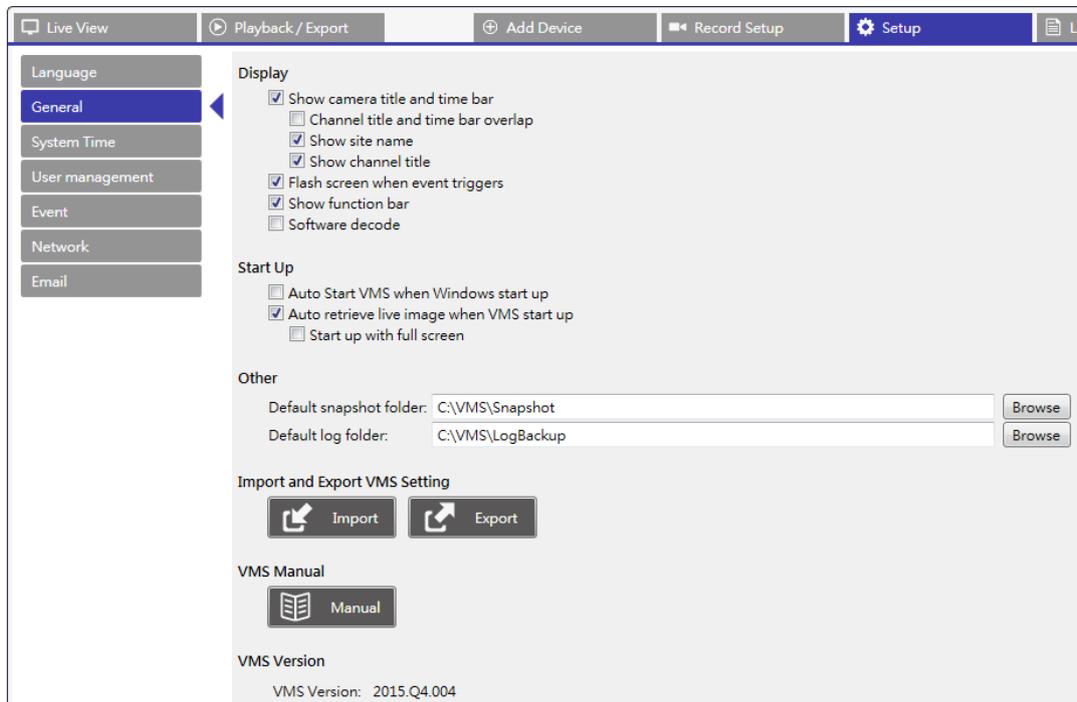
4.1 Language Setup

In the Setup function tab, select <Language> to enter the language setting menu. Select the preferred language from the language drop-down list and VMS will automatically change the setting.



4.2 General Setup

Select <General> to enter the basic VMS setting menu.



Display

In this section, users can decide whether to display the camera tile and time bar on the top-left corner of each channel grid.

- **Camera title and time bar display overlap image**
Check the box, and the camera title and time bar will (or not) overlap and be displayed on the channel grid. Un-check the box, the title and time bar will be displayed without overlapping the channel.
- **Show site name / Show channel title**
Check/Un-check the box to (or not to) display the site name / channel title on the channel grid.
- **Flash screen when event triggers**
Check the box, and when an event occurs at the IP camera side, the corresponding channel grid at VMS side will flash in red for three seconds to notify users an occurring event.
- **Show function bar**
Check / Un-check the box to display / hide the Image Adjustment icons at the bottom-right of each channel grid.

- **Software decode**

If the GPU of the PC is other than Intel graphics, an error may occur while running VMS. Thus, it is strongly recommended to activate Software Decode to ensure VMS can run smoothly. Note that activating Software Decode function may increase the load on CPU when multiple IP devices are connected to VMS.

Start Up

- **Auto Start VMS When Windows start up**

Check the box to request the PC to launch VMS while the PC system starts up.

- **Auto Retrieve Live Image When VMS start up**

Check this item; VMS will automatically connect the sites in the start group while starting up.

- **Start up with full screen**

Check this item; VMS will be in full-screen mode after starting up.

Other

- **Default Snapshot Folder**

The snapshot files will be saved to the default path: "C:\VMS\Snapshot". Click <  > to set the destination folder for snapshot files.

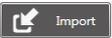
- **Default Log Folder**

Each day, VMS saves operation log as *.json file as backup in the preset file destination. The default log backup path is "\VMS\LogBackup". Click <  > to set the destination folder for log backup files.

Import and Export VMS Setting

- **Import Configuration**

This item is used to load a VMS configuration file that was previously stored in an external drive.

Click <  > and select the file to be imported. Then, click <Open> to start configuration importing. Note that VMS will immediately initiate the importing progress and will restart VMS soon a warning message will show up, notifying users that the VMS will restart after importing the configuration file.

- **Export Configuration**

This item allows users to save and export the current VMS configuration. The exported file format will be *.zip.

Click < Export > and an Export window will be displayed. Designate a file destination and click on <Save> to start the exportation. The Export icon < Export > will start flashing, indicating the export is in progress. When the icon no longer flashes, the export process is completed.



NOTE: It is recommended to export configuration before upgrading the VMS system. In addition, it is suggested to backup the configuration routinely, in case for unexpected conditions.

VMS Manual

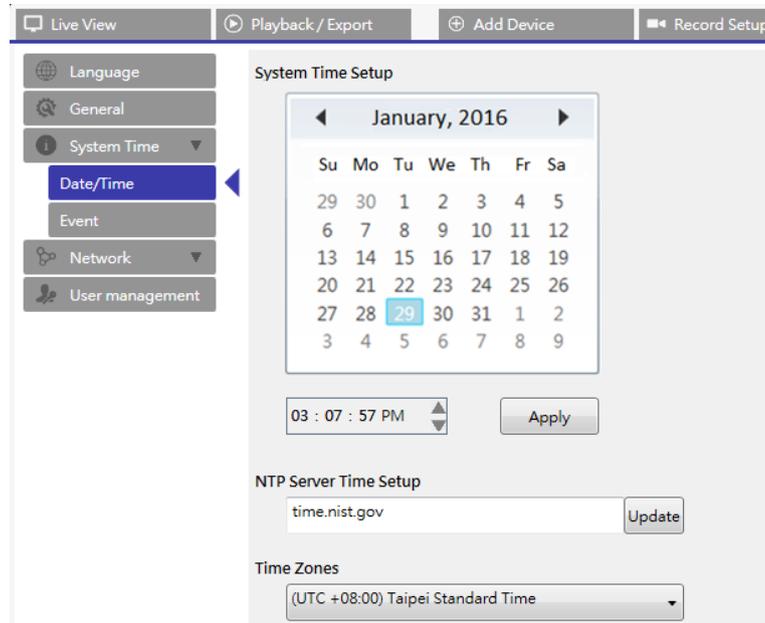
Click < Manual > to open the VMS User's Manual.

VMS Version

Users can view the current firmware version of VMS.

4.3 System Time

Users can set the current date, time in System Time setting menu. Enter the System Time setting menu via <Setup> → <System Time>. The setting menu displays as follows.



System Time Setup

To set a date, click and select a date from the calendar and click < > to save and apply the setting.

To set up time, click at the target position in the time field and click on the UP/DOWN arrow buttons or scroll the mouse wheel to change the value in the selected field.

After setting, click < > to save and apply the setting.

NTP Server Setup

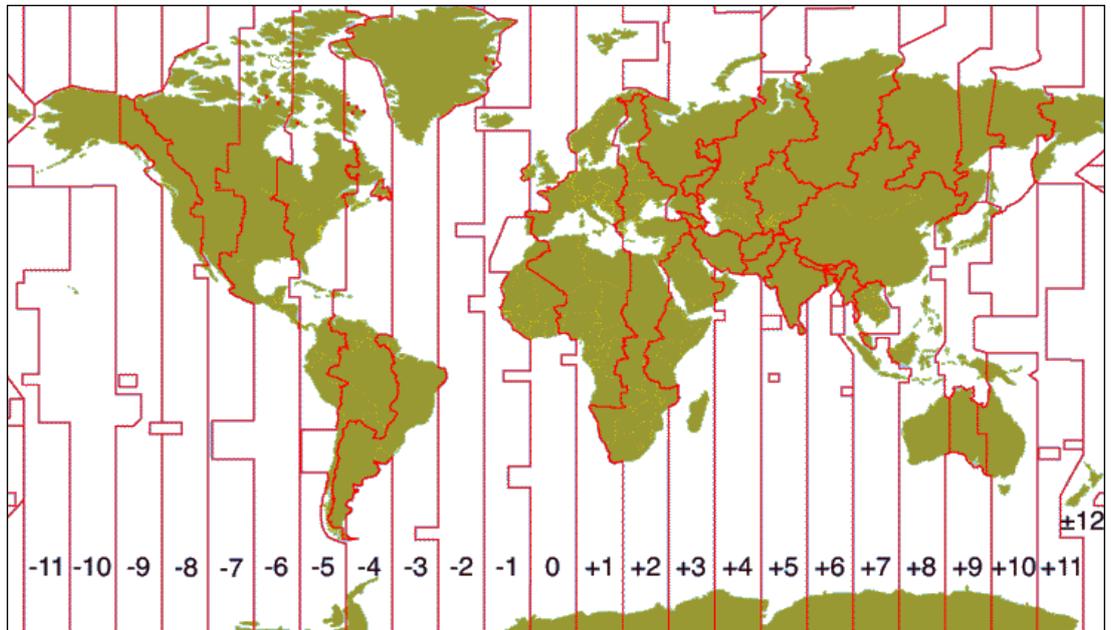
After time zone is selected, users can further setup the NTP (Network Time Protocol) sever. The default NTP server is time.nist.gov. Users can always change to any other NTP servers. A list of IP addresses of the NTP servers is listed below.

129.6.15.28	129.6.15.29	132.163.4.101
132.163.4.102	132.163.4.103	128.138.140.44
192.43.244.18	131.107.1.10	69.25.96.13
206.246.118.250	208.184.49.9	64.125.78.85
207.200.81.113	64.236.96.53	68.216.79.113

After the time server is set, click next to the server field to sync the time immediately.

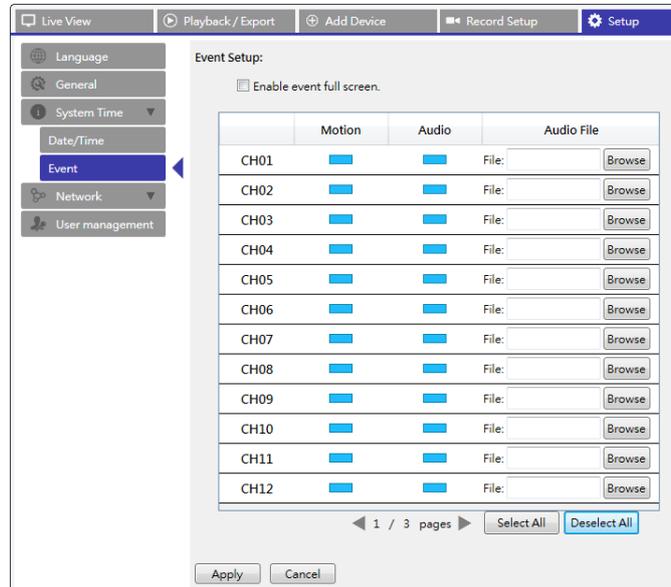
Time Zone

Select users' current time zone. Please visit www.greenwichmeantime.com to find out the correct local time zone, or refer to the following figure.



4.6 Event Setup

Users can set the event settings for each connected IP camera. Access the Event setting menu via <Setup> → <System Time> → <Event>. The setting menu displays as follows.



Enable event full screen

Users can set whether to display full-screen of the alerted channel. Check this item and click < **Apply** > to activate this function, or un-check it to deactivate it.

Motion

This item allows users to enable or disable motion detection function of VMS. Click on the corresponding grid to enable (✓) or disable (—) motion detection alarm. If motion detection is enabled, it is required to define motion detection parameters such as detection area and sensitivity settings in the Camera Motion Setup Pane in Live View tab. Refer to the previous subsection for more details.

Audio

Audio notification allows a preset sound file to be played when an event occurs. Users can setup audio notification for each channel.

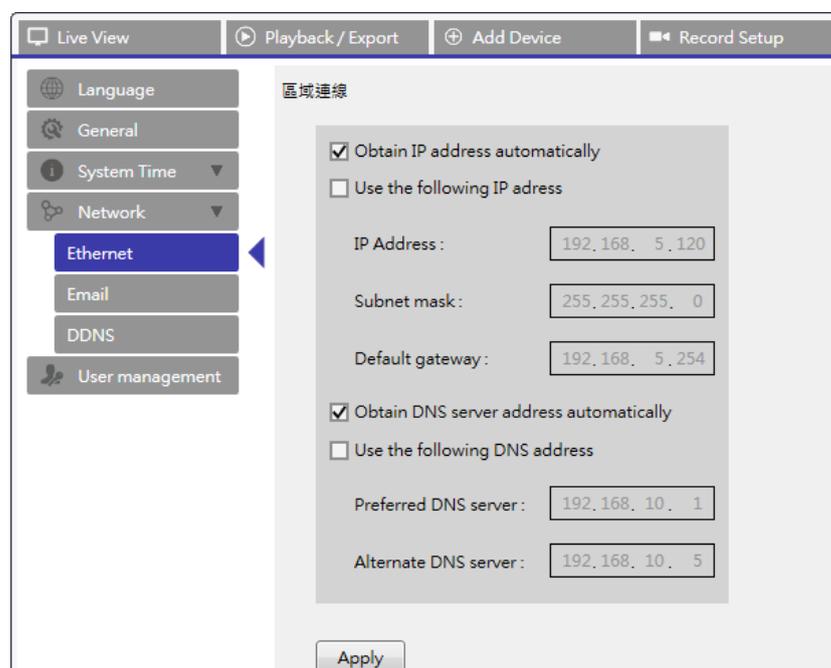
First, click on the corresponding grid to enable (✓) the audio notification. Then, click < **Browse** > and select an audio file. Lastly, click < **Apply** > to save and apply the setting; otherwise, click < **Cancel** > to abort.

Enable/Disable Event Detection of All Channels

Click < > to enable both Motion detection alarm and Audio function of all channels. Alternatively, click < > to disable both functions of all channels.

4.4 Network Setup

The Network setup menu allows users to specify the network-related settings of the PC, such as IP address and Subnet mask, etc. Check with the network administrator and/or network service provider for more specific information. Items in this menu are described in the following sections.



4.4.1 Ethernet Setup

In this section, users can setup the Network settings of the PC. Note that the Ethernet setting is the same as Network setting in Network and Sharing Center of the Windows system.

Obtain IP address automatically (DHCP Setup)

The DHCP function allows PC to obtain a dynamic IP address from DHCP (Dynamic Host Configuration Protocol) server when the PC starts up. Using DHCP, the settings are dynamic and may change every time the PC powers on or off, depending on the network setup.

Check the “Obtain IP address automatically” box and click , a dynamic IP address will be assigned to the PC. The Ethernet related settings, including IP address, Subnet Mask, Default Gateway and DNS settings, will be read-only.

- **IP Address**

This item is used to configure the IP (Internet Protocol) address of the computer.

- **Subnet Mask**

A netmask, a 32-bit mask, is used to divide an IP address into subnets and specify the networks available hosts. Its value is defined by the network administrator. It takes the form as `***.***.***.***`, for example, `255.255.255.255`.

- **Default Gateway**

Gateway is a node on a network that serves as an entrance to another network. Users are allowed to specify the IP address of the gateway or router associated with this computer.

- **Obtain DNS server address automatically**

- **Preferred DNS & Alternate DNS**

Users can specify the IP address of the Domain Name System associated with the PC. If the server is unavailable when using DHCP, the PC will search for the network server and boot up more slowly. This network search continues until it times out.

Users must click  after finishing all the Ethernet settings. Otherwise, the setting will not be applied and saved.



NOTE: The network setting will Please refer to the previous section for Event Setup.

4.4.2 Email Setup

Users can define the e-mail for receiving event/alarm notices.

The screenshot displays the 'Email Setup' configuration window. On the left, a navigation menu includes options like Language, General, System Time, Network, Ethernet, Email (selected), DDNS, and User management. The main area is titled 'SMTP Server:' and contains a dropdown menu set to 'Gmail', an 'SMTP Server Site' field with 'smtp.gmail.com', a 'Port' field with '455' and a checked 'SSL' checkbox, and empty 'Account' and 'Password' fields. Below this is an 'Email Recipient:' section with an empty 'Email Address' field. The 'Event Notification:' section features a grid of 32 channels (CH01 to CH32), each with a checked checkbox. At the bottom, there are 'Apply' and 'Cancel' buttons, and a pagination control showing '1 / 1 pages' with 'Select All' and 'Deselect All' buttons.

SMTP Server

Users can select which SMTP server to use. The provided options are <Gmail>, <Yahoo Mail> and <Custom>.

- **SMTP Server Site**

Those who select <Gmail> or <Yahoo Mail> for the SMTP server, VMS will automatically retrieve the server site of either SMTP server. When users select <Custom>, users must manually input the SMTP server site to the entry field.

- **Port**

This item is used to change SMTP port to another port.

- **Account**

Users can setup the SMTP username by entering the e-mail account.

- **Password**

Users should enter the corresponding password of the account inserted in Account field above.

Email Recipient

This item is used to edit the e-mail address where event / alarm notification will be sent. Refer to the following to setup all the required information.

- **Email Address**

Enter the e-mail address where event/alarm notifications will be sent.

- **Event Notification**

Users can select the event/alarm from which channel to be sent to the e-mail address previously set. Click to check or un-check the channel box to select / de-select the channel. Then, click to apply the setting.

Click to enable event notification for all channels; otherwise, click to turn off the notification for all channels.

Email Recipient:

Email Address:

Event Notification:

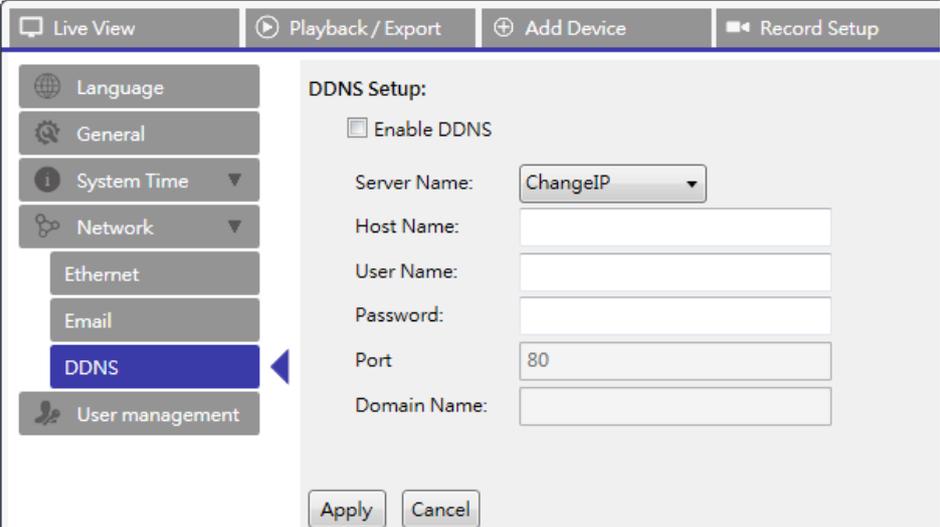
CH01	<input checked="" type="checkbox"/>	CH09	<input checked="" type="checkbox"/>	CH17	<input checked="" type="checkbox"/>	CH25	<input checked="" type="checkbox"/>
CH02	<input checked="" type="checkbox"/>	CH10	<input checked="" type="checkbox"/>	CH18	<input checked="" type="checkbox"/>	CH26	<input checked="" type="checkbox"/>
CH03	<input checked="" type="checkbox"/>	CH11	<input checked="" type="checkbox"/>	CH19	<input checked="" type="checkbox"/>	CH27	<input checked="" type="checkbox"/>
CH04	<input checked="" type="checkbox"/>	CH12	<input checked="" type="checkbox"/>	CH20	<input checked="" type="checkbox"/>	CH28	<input checked="" type="checkbox"/>
CH05	<input checked="" type="checkbox"/>	CH13	<input checked="" type="checkbox"/>	CH21	<input checked="" type="checkbox"/>	CH29	<input checked="" type="checkbox"/>
CH06	<input checked="" type="checkbox"/>	CH14	<input checked="" type="checkbox"/>	CH22	<input checked="" type="checkbox"/>	CH30	<input checked="" type="checkbox"/>
CH07	<input checked="" type="checkbox"/>	CH15	<input checked="" type="checkbox"/>	CH23	<input checked="" type="checkbox"/>	CH31	<input checked="" type="checkbox"/>
CH08	<input checked="" type="checkbox"/>	CH16	<input checked="" type="checkbox"/>	CH24	<input checked="" type="checkbox"/>	CH32	<input checked="" type="checkbox"/>

◀ 1 / 1 pages ▶

Users must click after finishing the settings. Otherwise, the setting will not be applied and saved.

4.4.3 DDNS Setup

Select <DDNS Setup> from Network. The menu displays as below.



The screenshot shows a web-based configuration interface. At the top, there are four tabs: 'Live View', 'Playback / Export', 'Add Device', and 'Record Setup'. On the left side, there is a vertical menu with several options: 'Language', 'General', 'System Time', 'Network', 'Ethernet', 'Email', 'DDNS', and 'User management'. The 'DDNS' option is highlighted in blue. The main content area is titled 'DDNS Setup:' and contains the following fields and controls:

- Enable DDNS
- Server Name: A dropdown menu currently showing 'ChangeIP'.
- Host Name: An empty text input field.
- User Name: An empty text input field.
- Password: An empty text input field.
- Port: A text input field containing the number '80'.
- Domain Name: An empty text input field.

At the bottom of the configuration area, there are two buttons: 'Apply' and 'Cancel'.

Enable DDNS

The item is used to enable or disable the Dynamic Domain Name Service. Click to check or un-check to enable or disable the service.

Server Name

This item is for users to choose the service provider. The current option is <ChangeIP> only.

After setting and the preferred <Hostname> and <Port> are saved, the DDNS address will be as <http://hostname.ddns.iview-ddns.com>.

Hostname

The item allows users to setup a domain name, which is used for entering the local PC through internet on the remote PC.

Username

Enter the valid DDNS username here.

Password

Enter the corresponding DDNS user password here.

Port

Users can setup the port for DDNS.

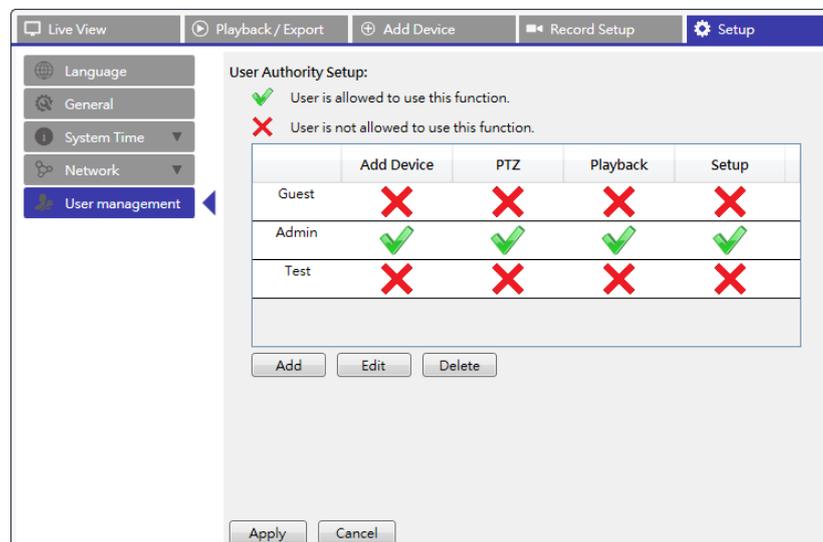
Domain name

After submitting the setting, the domain name of the PC will be displayed here as information.

Click < > after finishing the settings. Otherwise, the setting will not be applied and saved.

4.5 User Management Setup

User Management is used to add/edit/delete the user accounts of VMS. Users can setup users' account information and privileges. The default administrator username/password are **admin** and **123456**. Access the User Management setting menu via <Setup> → <User Management>.

**Create a New User Account**

Follow the steps below to create and add a user account.

Step 1. Click < > and a setting window will show up.

Step 2. Input the desired username and its password to set a user account.

Step 3. Click < > to complete and save the setting.

Setup/Edit a User Account

Follow the steps below to setup a user account.

Step 1. Select a user account and click < >.

Step 2. Edit the username and password in the User Information window.
To change the password, click < > to reset the password.

Step 3. After setting, click < > to save and apply the modified settings.

Step 4. To delete a user account, select the desired user account and click



NOTE: The preset “**Admin**” account and “**Guest**” account both cannot be deleted. In addition, users can only modify the password of “**Admin**”.

Setup User Permissions (Authorities)

Set the permissions to access the functions listed in the User Management setting menu. <✓> represents the user account is authorized to access the function. <✗> represents the user account is not granted to access the function. Click on the function item to allow or not allow the access from the selected user.



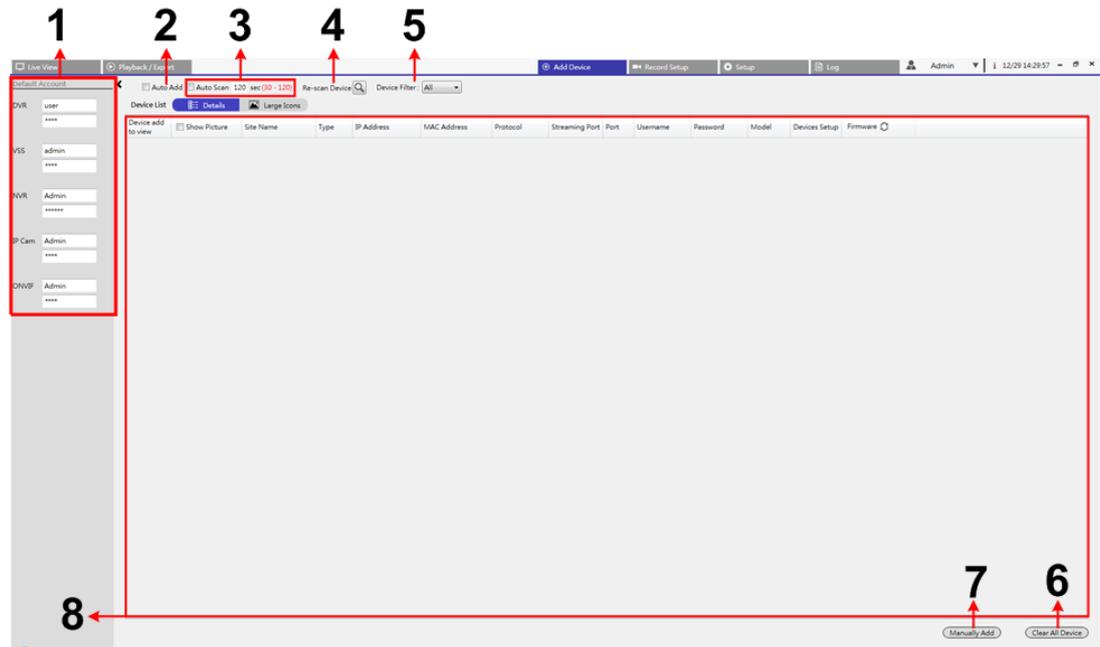
NOTE: The preset account “**Guest**” can only view the live viewing under the Live View and access the Playback/Export function tab.

5 Add Device (IP Devices Connection)

VMS can search and connect the IP devices via network to VMS. Refer to the following for further description of connecting an IP device to VMS.

5.1 Add Device Window

The following introduces each function item in the Add Device setup menu.



No.	Item	Description																		
1	Default Account Pane	<p>Users can preset the default username and password for each model type of IP devices. Once an IP device is connected to VMS, VMS will automatically apply the preset username/password to the IP device according to its model type.</p> <p>Users can modify the default account name and the password. The following lists the preset account names and passwords of each type of IP devices.</p> <table border="1"> <thead> <tr> <th>IP device</th> <th>Account Name</th> <th>Password</th> </tr> </thead> <tbody> <tr> <td>DVR</td> <td>User</td> <td>1234</td> </tr> <tr> <td>VSS</td> <td>admin</td> <td>1234</td> </tr> <tr> <td>IP Camera</td> <td>Admin</td> <td>1234</td> </tr> <tr> <td>NVR</td> <td>Admin</td> <td>123456</td> </tr> <tr> <td>ONVIF</td> <td>Admin</td> <td>1234</td> </tr> </tbody> </table>	IP device	Account Name	Password	DVR	User	1234	VSS	admin	1234	IP Camera	Admin	1234	NVR	Admin	123456	ONVIF	Admin	1234
IP device	Account Name	Password																		
DVR	User	1234																		
VSS	admin	1234																		
IP Camera	Admin	1234																		
NVR	Admin	123456																		
ONVIF	Admin	1234																		
2	Auto Add	This function allows the VMS system to																		

		<p>automatically re-search and add the newly found IP cameras. When this function is enabled, Auto Refresh function will simultaneously be enabled.</p> <p>Check the “Auto Add” box, and Auto Add function will be enabled. Next, set the Auto Refresh time interval.</p> <p>Note that if VMS has already added enough IP cameras, VMS will not add any newly found IP cameras.</p>
3	Auto Scan	<p>Check this box and the VMS system will automatically refresh the Device List by every <i>N</i> seconds. The time duration “<i>N</i>” ranges from 30 to 120 seconds.</p>
4	Re-scan Device	<p>Click <🔍>; VMS will begin re-searching the IP cameras installed in the same LAN as VMS that meet the searching criteria in the Device List.</p>
5	Device Filter	<p>Device Filter is to select the type of the IP devices to be searched during device search.</p>
6	Clear All Device	<p>Click <Clear All Device> at the bottom-right corner of the monitor, and VMS will disconnect all connected IP cameras.</p>
7	Manually Add	<p>Aside from device search, users can manually add an IP camera to VMS. Click <Manually Add>; a blank new device column will be added to the Device List. Input the essential information of a known IP device to the corresponding fields, including <Type>, <IP Address>, <Protocol>, <Streaming Port>, <User Name> and <Password>. Then, check the “Device add to view” box, and VMS will start to connect the IP camera.</p> <p>To delete the manually added IP cameras, click on the delete icon <🗑️>, and the IP camera will be removed from the Device List.</p>

8	Device List	<p>After the device search, VMS will list the IP devices installed in the same LAN that meet the searching criteria in the Device List. Users can view the brief settings of the found IP devices in Device List, such as MAC address, IP address, model type, username/password, etc. If users wish to know the firmware of the IP devices, click  and the firmware version will be shown. Furthermore, if the found IP device is an NVR/DVR/VSS, users can decide to retrieve streaming from which channel of the NVR.</p> <p>Under Device List, <Details> and <Large Icons> are provided for users to switch views. Select <Details>, and the information of the IP cameras will be listed in columns and users can check the preview of the IP camera. Select <Large Icons>, and users can browse and check the brief information of the IP cameras and its preview. Note that when the preview grid of an IP camera shows “Not Supported” or “No Snapshot”, this suggests the IP camera does not support this function.</p>
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5.2 IP Device Connection

VMS is able to connect an IP device and retrieve its live streaming. IP devices include IP cameras, NVRs, DVRs and VSS. The following describes how to connect an IP device to VMS.

Add IP Cameras to VMS

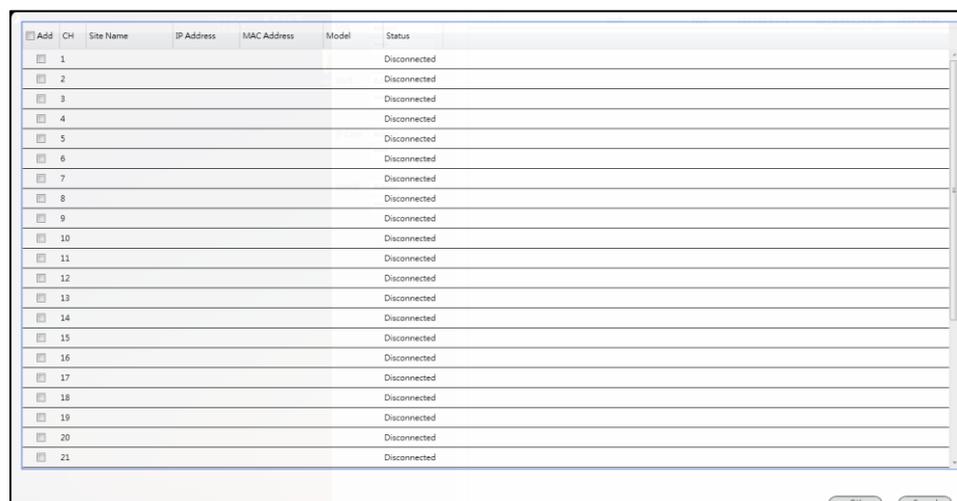
Follow the steps below to search and add IP cameras to VMS.

- Step 1.** Select <IPcam> or <ONVIF> next to <Device Filter>. VMS will start look for the supported IP cameras installed in the same LAN and list them in the Device List.
- Step 2.** Find a target IP camera from the Device List and check the “Device add to view” box to add the IP camera to VMS. VMS will automatically connect and retrieve the information of the IP camera.

Add NVR/DVR/VSS to VMS

Users can connect a NVR/DVR/VSS and retrieve/record the live viewing.

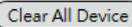
- Step 1.** Select <NVR> (or DVR/VSS) next to <Device Filter>. VMS will start to look for the supported NVRs/DVR/VSS installed in the same LAN and list them in the Device List.
- Step 2.** Check the “Device add to view” box to add the found IP device to VMS. A Select Channel menu will appear as below.



<input type="checkbox"/> Add	CH	Site Name	IP Address	MAC Address	Model	Status
<input type="checkbox"/>	1					Disconnected
<input type="checkbox"/>	2					Disconnected
<input type="checkbox"/>	3					Disconnected
<input type="checkbox"/>	4					Disconnected
<input type="checkbox"/>	5					Disconnected
<input type="checkbox"/>	6					Disconnected
<input type="checkbox"/>	7					Disconnected
<input type="checkbox"/>	8					Disconnected
<input type="checkbox"/>	9					Disconnected
<input type="checkbox"/>	10					Disconnected
<input type="checkbox"/>	11					Disconnected
<input type="checkbox"/>	12					Disconnected
<input type="checkbox"/>	13					Disconnected
<input type="checkbox"/>	14					Disconnected
<input type="checkbox"/>	15					Disconnected
<input type="checkbox"/>	16					Disconnected
<input type="checkbox"/>	17					Disconnected
<input type="checkbox"/>	18					Disconnected
<input type="checkbox"/>	19					Disconnected
<input type="checkbox"/>	20					Disconnected
<input type="checkbox"/>	21					Disconnected

- Step 3.** Check the desired IP camera channel box from the menu and click < > to add the selected IP camera(s) to VMS. VMS now retrieve the live viewing from the connected NVR/DVR/VSS.

Disconnect an IP Device from VMS

Un-check the “Device add to view” box of any device in the IP device list, the IP device will be disconnected. Alternatively, click <  >, and VMS will disconnect all the connected IP devices in the Device List.

Record the Connected IP Devices

After the IP devices are connected to VMS, users can decide whether to record the videos from the connected IP device in Record Setup tab. Go to <Record Setup> → <Record Schedule>.

Under Recording Scheduling Selection, check the “Device add to record” box of the desired IP devices to activate recording function. VMS will begin recording the videos from the selected IP devices.

6 Record Setup

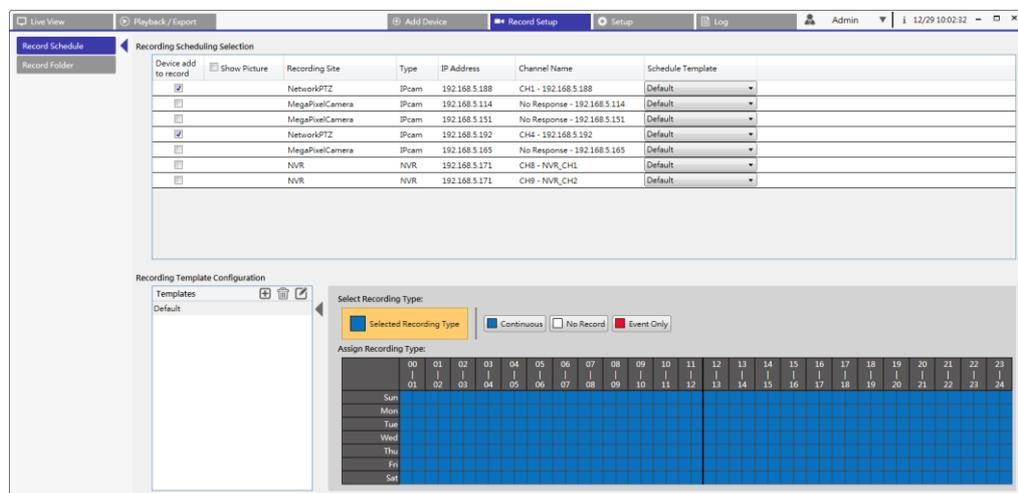
Record Setup allows users to decide to record streaming from which connected IP devices and set recording schedules, etc. The following describes how to setup the recording schedule and event settings of each connected IP camera.



NOTE: Please refer to the previous section for Event Setup.

6.1 Record Schedule Setup

Users can setup recording templates and assign recording type for days in a week by hours for each recording templates here.

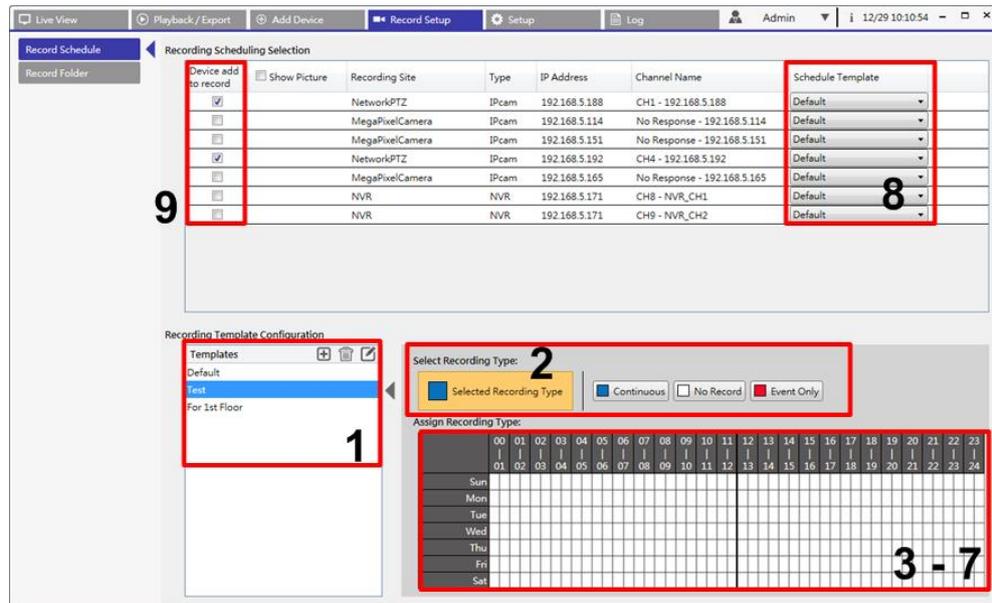


Add / Remove / Rename a Recording Template

- Step 1.** Click  in the Recording Template Configuration pane. A new template will be added to the template list.
- Step 2.** Select the added template and click .
- Step 3.** Input the desired name in the name field to rename the name of the template.
- Step 4.** Press <Enter> on the keyboard to apply the setting.
- Step 5.** To delete a recording template, select a recording template and then click . The selected recording template will be removed from the template list.

Setup and Assign a Recording Template to the Connected IP Cameras

Follow the steps below to setup and assign a recording template.



Step 1. Select a recording template from the template list.

Step 2. Click on a desired recording type. Three recording types are provided, < Continuous>, < No Record> and < Event Only>.

- **Continuous:** To keep recording in the specified time segment.
- **No Record:** Not record and save any video data in the specified time segment.
- **Event Only:** Only record when there is an event occurring in the specified time segment, including the Pose-Alarm videos.

Step 3. Click at any grid of time to assign the selected recording type.

Step 4. Click on any hour on the top to fill up the column.

Step 5. Click on any day on the left to fill up the roll.

Step 6. Click on the top left grid to always record with the selected recording type.

Step 7. Click and drag the mouse to fill up and assign the selected recording type.

Step 8. To assign the template to an IP camera, select a preferred template from the Schedule Template drop-down list.

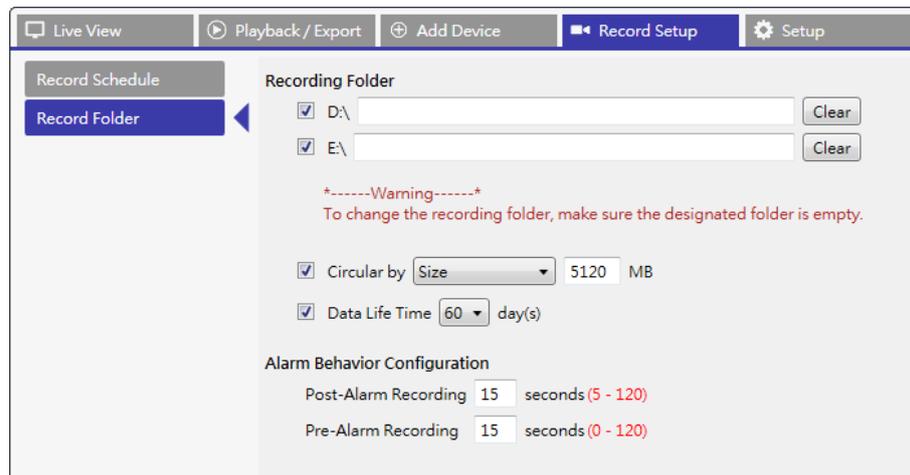
Step 9. Check the <Device add to record> box of the corresponding IP camera. VMS will start recording streaming received from the selected IP camera according to the applied template.



NOTE: If the applied recording template is removed from the template list, the system will automatically apply the default template to the site.

6.2 Record Setup

In Record Folder, users can assign the file destination of the recorded video, and setup whether to enable the circular recording and data life time functions of VMS and whether to record the pre-alarm / post-alarm video as a part of event videos when an alarm or event occurs.



Recording Folder

The number of the selectable folders equals to the number of HDDs the PC installed, excluding the HDDs with capacity less than 100GB. Check the box and click on the file path column to select and set more destination folders. Note that if users wish to change the file destination, make sure the designated folder is empty.

Circular Recording

The Circular Recording function is to adjust the HDD space usage of VMS. For example, when the threshold is set to 5GB (5120MB), and there are 20GB free disk space remaining in the HDD, VMS can only access the HDD no more than 15GB. When the free disk size is less than threshold: If the circulation of files is performed for the first time, VMS will start to overwrite the earliest recorded data. Next time when VMS starts up, the circulation of files will continue from where it was up to.

Data Life Time

The Data Life Time function indicates the duration that the data is saved and recallable in the HDD. Only those data recorded within Data Life Time can be searched for playback. The video exceeds Data Life Time will be hidden and cannot be retrieved for playback.

Check the “Data Life Time” box to enable this function. Select the preferred data life time from the drop-down list. Note that if users choose <0 day> from the drop-down list, the Data Life Time function will be disabled. Alternatively, un-check the box to disable this function.



NOTE: To playback a video exceeding Data Life Time, please extend the duration until the recording data/time of the video is included.

Alarm Behavior Configuration

Users can setup the pre-alarm / post-alarm video duration to be a part of event videos.

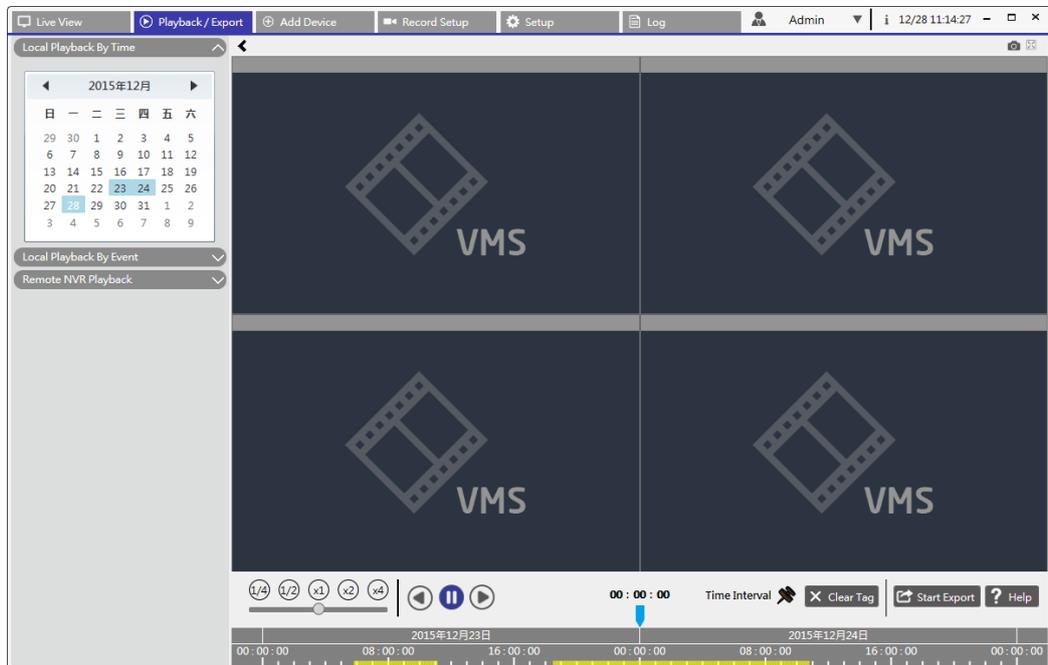
Input the desired seconds to the entry field. The time duration range of “Post-alarm Recording” is from 5 to 120 seconds; whereas “Pre-Alarm Recording” ranges from 0 to 120 seconds (0 second is to disable this function). Note that normal video recording **MUST** be enabled in order to provide video data to the matching event video.



NOTE: When the recording schedule is set to **RECORD EVENT ONLY** and an event occurs, VMS only records the event and the post-alarm videos, **PRE-ALARM VIDEOS WILL NOT BE RECORDED.**

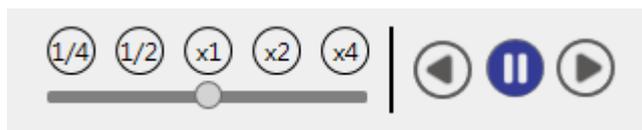
7 Playback/Export

Users can select and playback/export the preferred recorded videos in the Playback/Export function tab.



7.1 Playback Control Bar

Playback control bar is displayed at the bottom of the screen.

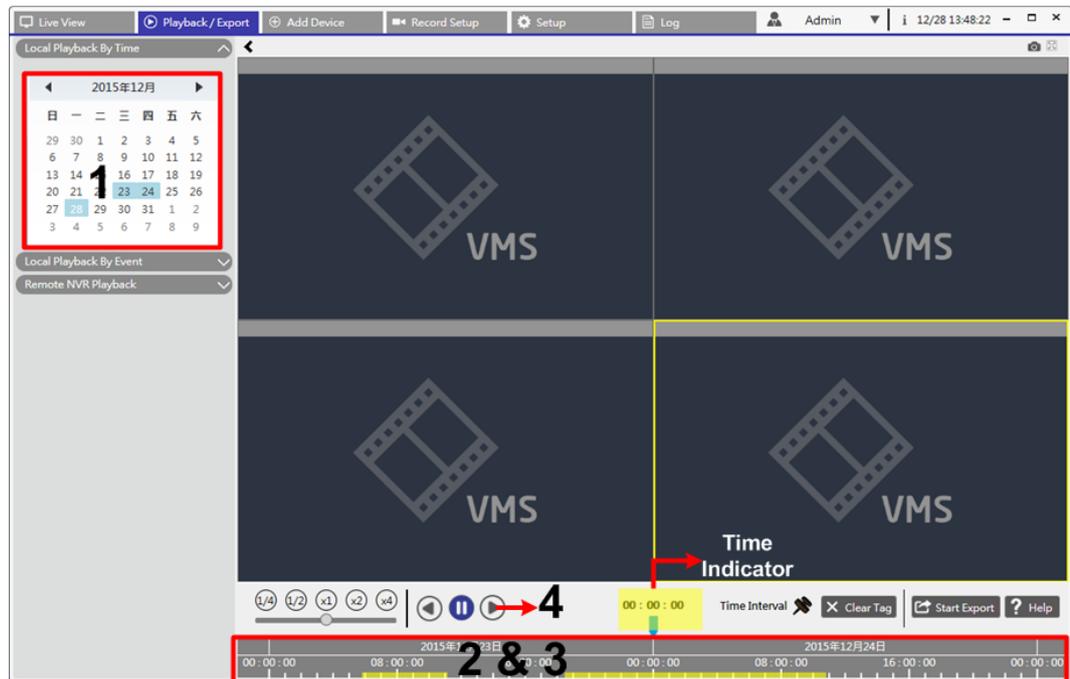


- Playback Speed**
 Click and drag the slider control bar to select the speed of backward / forward, x1/4, x1/2, x1, x2 and x4.
- Rewind**
 Click on this icon to reverse playing back the recorded videos.
- Pause**
 Click on this icon to pause the playback.
- Play**
 Click on this icon to start playing back the recorded videos.

7.2 Search / Playback / Export Normal Videos

Users can search and playback the recorded videos by date/time. Refer to the following for further instruction.

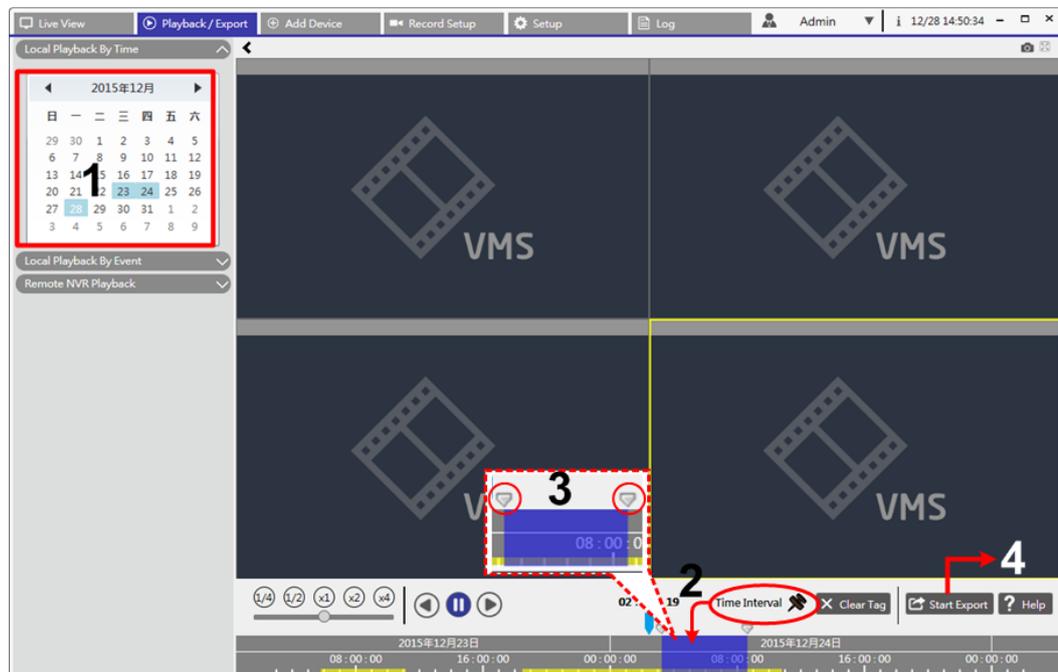
Playback Videos by Time



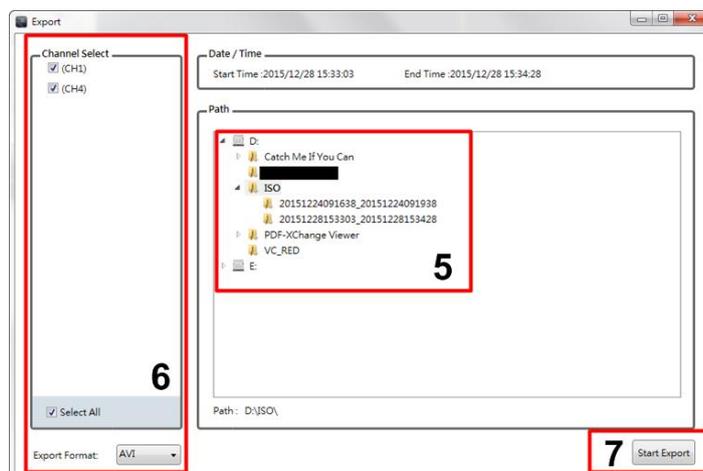
- Step 1.** Select any shadow date from the calendar, which indicates the recording data are available. Then, the yellow stripe in the time bar shows there are recorded videos for users to playback.
- Step 2.** Click and drag the time bar to select a preferred time from the time bar. The selected time will be displayed above the blue indicator.
- Step 3.** Move the mouse cursor to the time bar and scroll up/down the mouse wheel to adjust the time scale to select the exact desired time.
- Step 4.** Click on the Playback icon <▶> to start playing back the selected video.

Export Normal Videos

Follow the steps below to export the normal videos.



- Step 1.** Select a preferred shadow date from the calendar. The time bar will display the available recording data of each channel.
- Step 2.** Click and drag the Time Interval icon  and drop it to the time bar to select the desired time interval of recorded video.
- Step 3.** Use the Time Range Adjustment icon  to adjust the preferred time segment. Scroll up/down the mouse wheel to zoom in/out to adjust and select the exact desired time.
- Step 4.** Click , and an Export window will be displayed.



- Step 5.** Select a file destination, and choose the video format for the to-be-exported video.

Step 6. Check the desired channel boxes to be exported. Alternatively, check <Select All> to export all channels' videos.

Step 7. Click <Start Export> in the Export window to start the video exportation. Alternatively, click <Cancel> to abort. The status of export progress will be shown in green as below.

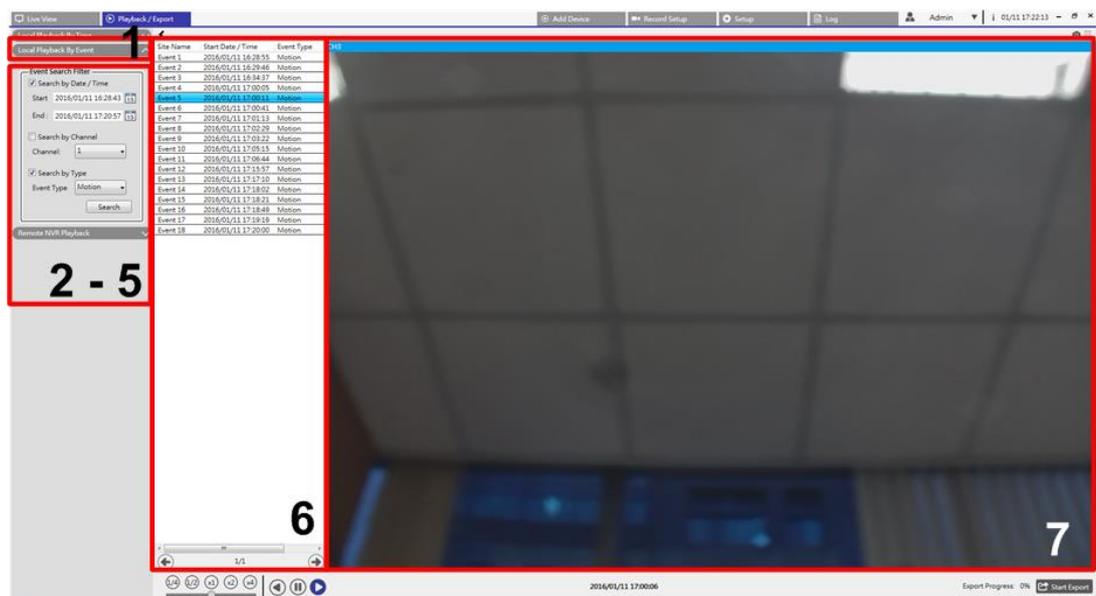


Step 8. After the video is successfully exported, a message window will pop up; click <Close> to return to the Playback/Export function tab.

7.3 Search / Playback / Export Event Videos

Search and Playback Event Videos

Users are able to search events by time, channel, or type. Follow these steps to search event video.



Step 1. Click on the Local Playback By Event bar to display the Event Search Filter.

Step 2. In the Event Search Filter, check the “Search by Date / Time” box and specify the Start / End time for the time range of the event search.

Step 3. Check the “Search by Channel” box to select the desired channels to the event search.

Step 4. Check the “Search by Type” box and designate which event type to be included in the event search.

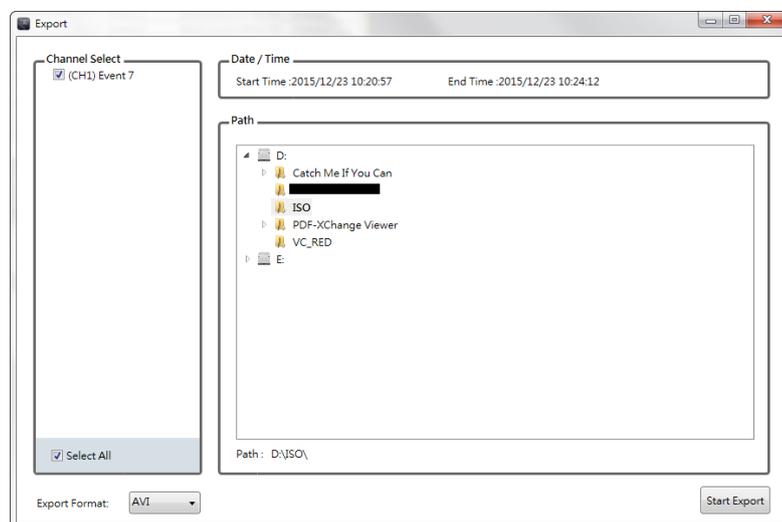
- Step 5.** Click to list event videos that meet the searching criteria above.
- Step 6.** The Event List displays events by date/time, event type and triggered camera and is listed in chronological order. Click / below the Event List to go to previous/next page.
- Step 7.** Double click on any event, and the viewing window on the right will start playing back the selected event.

Export Event Videos

Follow the steps below to export the event videos.

Step 1. Select a desired event from the Event List.

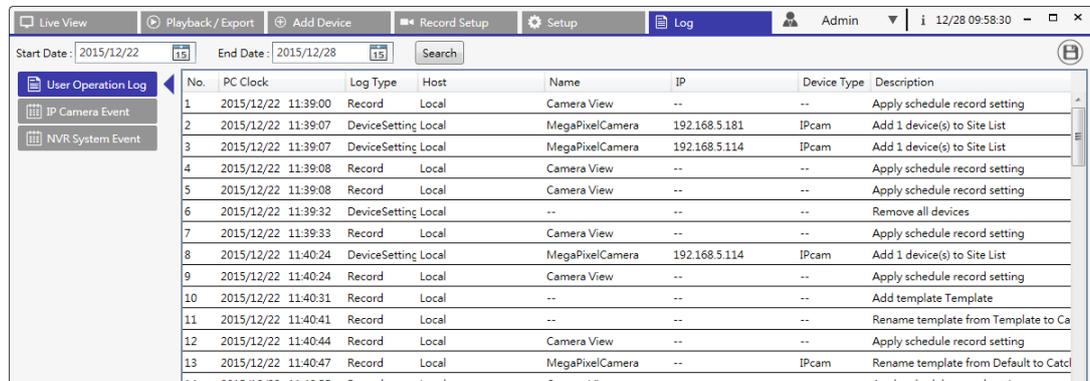
Step 2. Click at the bottom-right corner of the monitor. An Export window will be displayed.



- Step 3.** Select a file destination, and choose the video format for the to-be-exported video.
- Step 4.** Click in the Export window to start the video exportation. Alternatively, click to abort. The status of export progress can be checked at the bottom-right of the window.
- Step 5.** Click in the Export window to start the video exportation. Alternatively, click to abort.
- Step 6.** Click in the Export window to return to the Playback/Export function tab.

8 Log

Click on <Log> to enter the Log menu. In Log function tab, users can check, view, search and export the log data. Refer to the followings for further description.



The screenshot shows the VMS Log menu interface. At the top, there are navigation tabs: Live View, Playback/Export, Add Device, Record Setup, Setup, and Log (selected). Below the tabs, there are fields for Start Date (2015/12/22) and End Date (2015/12/28), and a Search button. On the left side, there is a sidebar with three log categories: User Operation Log (selected), IP Camera Event, and NVR System Event. The main area displays a table of log entries with the following columns: No., PC Clock, Log Type, Host, Name, IP, Device Type, and Description.

No.	PC Clock	Log Type	Host	Name	IP	Device Type	Description
1	2015/12/22 11:39:00	Record	Local	Camera View	--	--	Apply schedule record setting
2	2015/12/22 11:39:07	DeviceSetting	Local	MegaPixelCamera	192.168.5.181	IPcam	Add 1 device(s) to Site List
3	2015/12/22 11:39:07	DeviceSetting	Local	MegaPixelCamera	192.168.5.114	IPcam	Add 1 device(s) to Site List
4	2015/12/22 11:39:08	Record	Local	Camera View	--	--	Apply schedule record setting
5	2015/12/22 11:39:08	Record	Local	Camera View	--	--	Apply schedule record setting
6	2015/12/22 11:39:32	DeviceSetting	Local	--	--	--	Remove all devices
7	2015/12/22 11:39:33	Record	Local	Camera View	--	--	Apply schedule record setting
8	2015/12/22 11:40:24	DeviceSetting	Local	MegaPixelCamera	192.168.5.114	IPcam	Add 1 device(s) to Site List
9	2015/12/22 11:40:24	Record	Local	Camera View	--	--	Apply schedule record setting
10	2015/12/22 11:40:31	Record	Local	--	--	--	Add template Template
11	2015/12/22 11:40:41	Record	Local	--	--	--	Rename template from Template to Ca
12	2015/12/22 11:40:44	Record	Local	Camera View	--	--	Apply schedule record setting
13	2015/12/22 11:40:47	Record	Local	MegaPixelCamera	--	IPcam	Rename template from Default to Catd

8.1 Search Log Data

VMS divides log data into three categories, User Operation Log, IP Camera Event Log and NVR System Event Log. Select the desired log category item on the left of the Log tab to enter its corresponding log menu. To search the desired log data, please refer to the following steps below to search and view the desired log data.

- Step 1.** Set the time range of the log data search by assigning the Start Date and End Date on the top-left of the function tab.
- Step 2.** Click <Search>, and VMS will start searching and then list all the recorded log data within the set time.
- Step 3.** Click on each log category item on the left of the Log menu to view its corresponding log data found within the set time.

8.2 Export Log Data

After searching the log data, users can export the desired data if necessary. In the desired log type menu, click on the Backup Log icon <📁> at the top-right corner of the Log tab, and an Export window will pop up. Click on <Save> to start exporting the log data, or click on <Cancel> to abort.



NOTE: VMS will export all log data in the selected log type menu. The file format of the exported log data is *.txt.