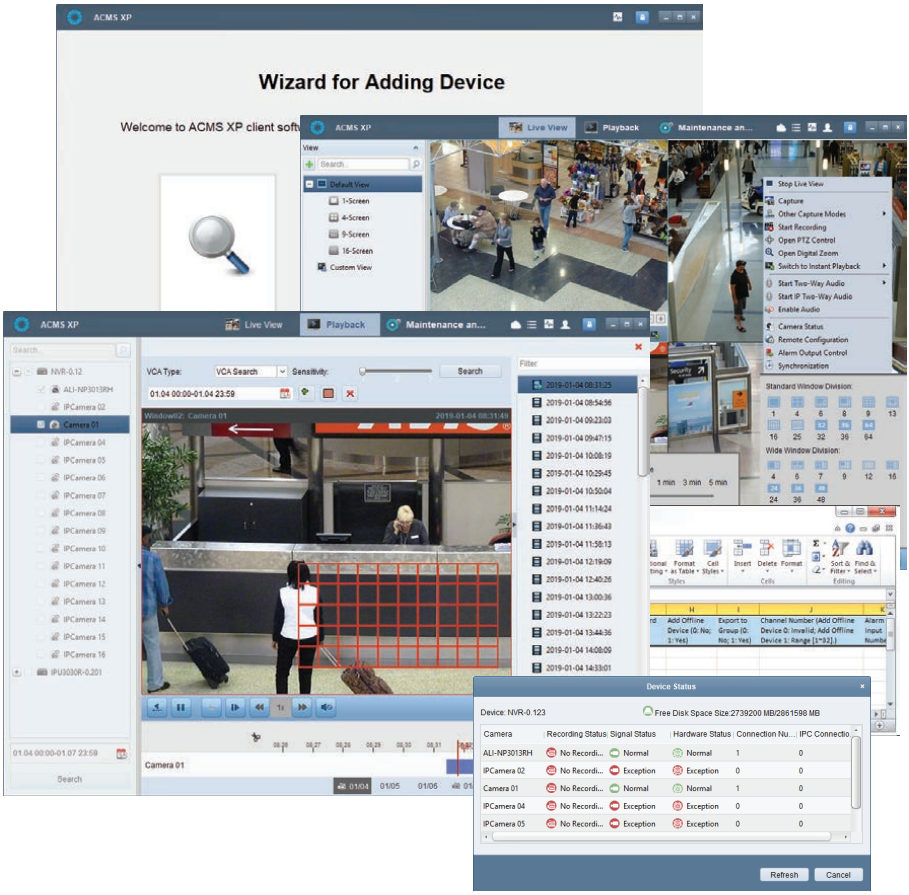
Alibi™ Central Management System XP V1.0 (ACMS XP) Software User Manual

Products: All ALIBI DVR and NVR systems and IP Cameras



PLEASE READ THIS MANUAL BEFORE USING THIS SOFTWARE , and always follow the instructions for safety and proper use. Save this manual for future reference.

ALI-CMS-XP_V1.0_SM
190226

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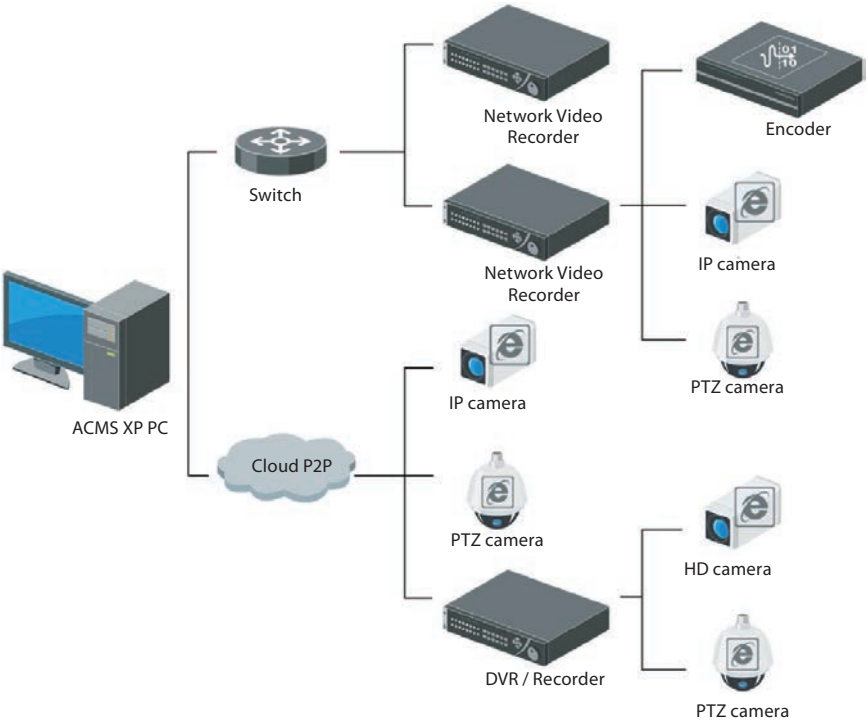
SECTION 1
Overview

The ALIBI Central Management Software XP (ACMS XP) client is a versatile PC based single platform video management system for monitoring small scale ALIBI security systems such as small stores, apartment buildings, etc that include DVRs, NVRs and IP cameras. It provides several features, including real-time live view monitoring, video search and playback, remote configuration, etc. and a wizard for easy setup.

Typical implementation topologies for the ACMS XP client in a surveillance system are shown below.



Typical surveillance system LAN topology with ACMS XP

1.1 Features

General

- Applied in local area network and wide area network (Cloud P2P)
- Supports H.264, H.264+, H.265, and H.265+ video encoding formats
- Enables Reset of device password and remote configuration
- Hardware decoding for live view and playback

Network

- Searching the active online devices
- Upgrading device online
- Adding devices by IP address, domain name, and Cloud P2P domain

Live View

- Synchronous Live View settings and instant playback
- Main/auxiliary screen live view
- Up to 64-window division for standard screen, and 48-window division for the wide screen
- Configurable custom window divisions
- Resume live view configuration after client restart
- Customizable live view toolbar

PTZ Control

- Remote PTZ control
- Preset, patrol and pattern setup

Playback

- Dual-stream playback (if supported by the device)
- Synchronous playback of up to 16 cameras
- Optimized search of recorded video files
- Supports playback up to 16× speed
- Clipping recorded video files
- Synchronous download of video files from multiple cameras

Backup

- Download record files to PC
- Log search and backup
- Import and export the configuration file

1.2 Specifications

1.2.1 System capacities

Database	SQLite
Supported Language	English
Device	Supports up to 64 devices (encoding devices and Cloud P2P devices)
Channel	Supports up to 256 channels
Live View	Supports up to 64-ch live view simultaneously
Auxiliary Screen Preview	Supports up to 4 auxiliary screens for live view
Playback	Supports up to 16-ch synchronous playback
Download	Supports up to 16 downloading tasks simultaneously

1.2.2 Client PC requirements

To access your client PC needs, see the Live View Performance data shown in "1.3 Live View Performance" on page 4.

Features		Requirements
Minimum	Processor	Intel® Core™ i5-4590 @ 3.30 GHz or similar
	Memory	8 GB of RAM
	Operating System	Microsoft® Windows 7 / 10 (64-bit)
	Video Card	NVIDIA® GeForce GTX970 or similar
Recommended	Processor	Intel® Xeon® E3-1226 V3 @ 3.30GHz or similar
	Memory	8 GB of RAM
	Operating System	Microsoft® Windows 7 / 10 (64-bit)
	Video Card	Intel® HD Graphics P4600 or similar
High Performance	Processor	Intel® Core™ i7-6700K @ 4 GHz or similar
	Memory	16 GB of RAM
	Operating System	Microsoft® Windows 7 / 10 (64-bit)
	Video Card	NVIDIA® GeForce GTX1070 or similar

1.3 Live View Performance

1.3.1 Performance with different client systems (software decoding)

Encoding Format	Resolution	Bit Rate (Mbps)	Frame Rate (fps)	Maximum Number of Cameras Viewed Simultaneously		
				Minimum	Recommended	High Performance
H.264	720p	3	30	27	25	42
	1080p	6	30	13	12	20
	3 MP	8	30	9	9	14
	8 MP	16	30	3	2	5
H.264+	720p	1	30	33	29	65
	1080p	3	30	18	14	29
	3 MP	4	30	10	9	18
H.265	720p	1	30	26	24	41
	1080p	3	30	10	9	16
	3 MP	4	30	6	6	11
H.265+	720p	0.5	30	29	26	45
	1080p	1	30	13	11	21
	3 MP	2	30	8	7	14

1.3.2 Performance with different client systems (hardware decoding)

NOTE: *Parameters shown below are for reference only. Under the same resolution and frame rate, the bit rate and decoding performance of cameras from different manufacturers may be different.*

Encoding Format	Resolution	Bit Rate (Mbps)	Frame Rate (fps)	Maximum Number of Cameras Viewed Simultaneously	
				Recommended*	High Performance
H.264	1080p	6	30	25	25
	8 MP	16	30	6	6
H.264+	720p	1	30	45	45
	1080p	3	30	24	23
	3 MP	4	30	19	17
H.265	720p	1	30	N/A	45
	1080p	3	30	N/A	23
	3 MP	4	30	N/A	15

H.265+	720p	0.5	30	N/A	45
	1080p	1	30	N/A	22
	3 MP	2	30	N/A	15

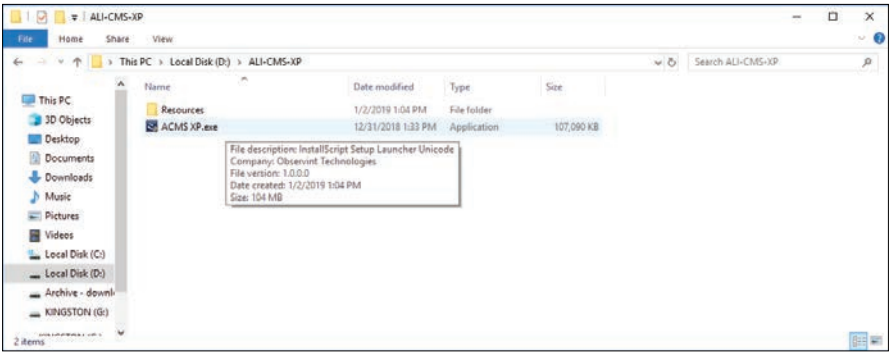
** For fields marked N/A, the **Recommended** video card in **Client PC Requirements** above does not support H.265 or H.265+.*

SECTION 2
Installation and Initial Setup

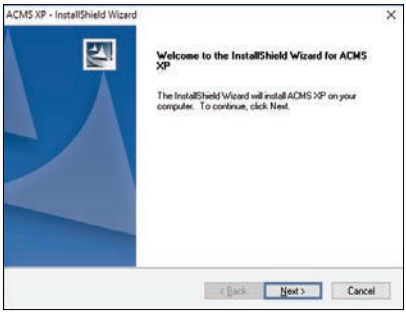
2.1 Installation

You can install the ACMS XP client on a Microsoft® Window® computer. Refer to "1.2.2 Client PC requirements" on page 3 for hardware and software recommendations. Installation of the client is very similar to the installation of other Windows applications, except that a Login password must be created to complete the process. To install ACMS XP:

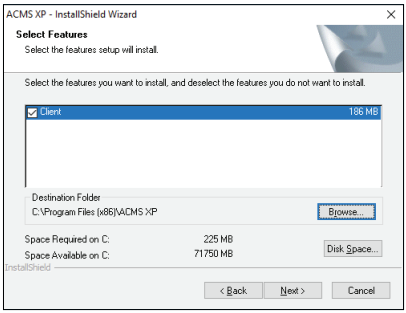
1. Obtain the ACMS XP installation file from AlibiSecurity.com from your equipment vendor, and then copy it to a directory on your PC. The ACMS XP install file may need to be extraced from a .ZIP file.

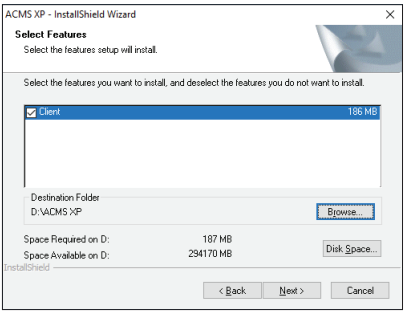


2. Double click on ***ACMS XP.exe*** to begin the installation.
3. When the **InstallShield Wizard** window opens, click **Next** to continue.

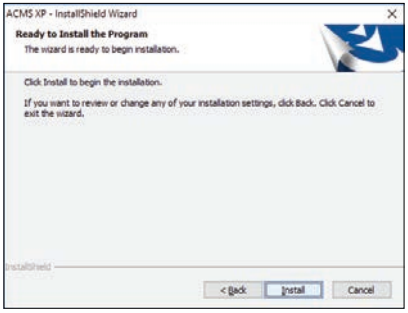


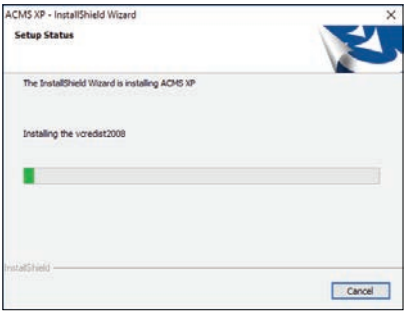
4. In the next window, browse to the location where you want to install the client, and then click **Next**.



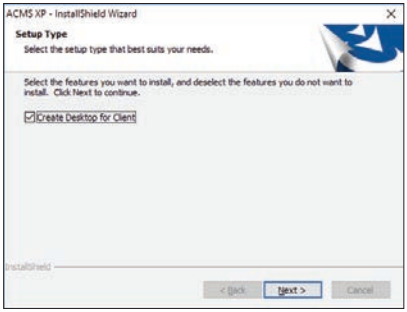


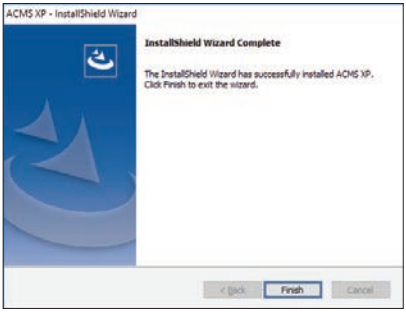
5. In the next window, you can click back to change the location you previous selected, or click **Install** to continue. Allow the **Setup Status** screen (see below) to close and the **Setup Type** screen to open before continuing.





6. In the Setup Type screen, uncheck the option to Create Desktop (icon) for client, and then click **Next**, then click Finish in the **InstallShield Wizard Complete** screen.



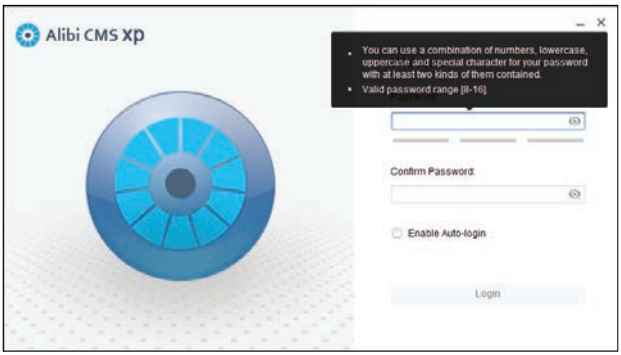


2.2 Initial Setup

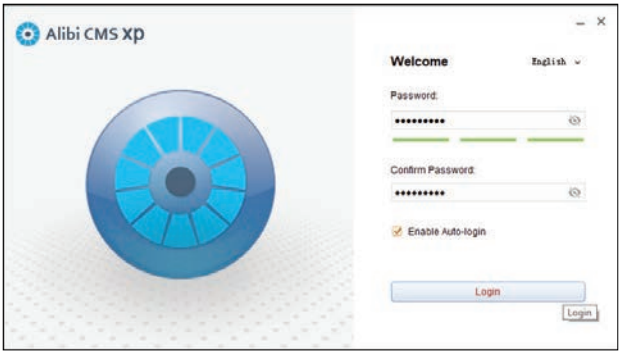
To startup ACMS XP for the first time and perform the initial setup:

1. Start ACMS XP by double-clicking on the icon on the Windows desktop (if created) or clicking the entry in the Windows Start menu.

2. During the first startup only, a **Welcome** window will open in which you must create a password for opening the client.
   a. Click in the **Password** field. A popup box will appear with instructions for creating a secure password.



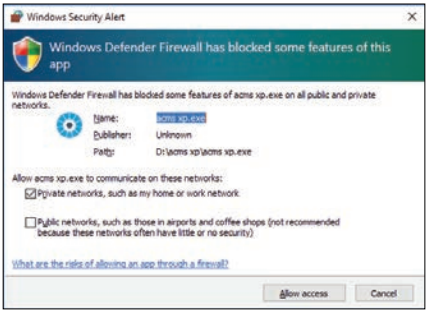
   b. Enter a unique character string in the **Password** field. The strength of the password is indicated by the bars below the field. Ensure that your password is rated as most secure (green bars, see below).
   c. Enter the same character string in the **Confirm Password** field. Copy your password and save it in a secure location.



d. Check the **Enable Auto-login** select box if needed. If this option is unchecked, you will be required to enter your ACMS XP password when you open the client.

e. Click **Login** to open ACMS XP. An Initializing icon will appear.

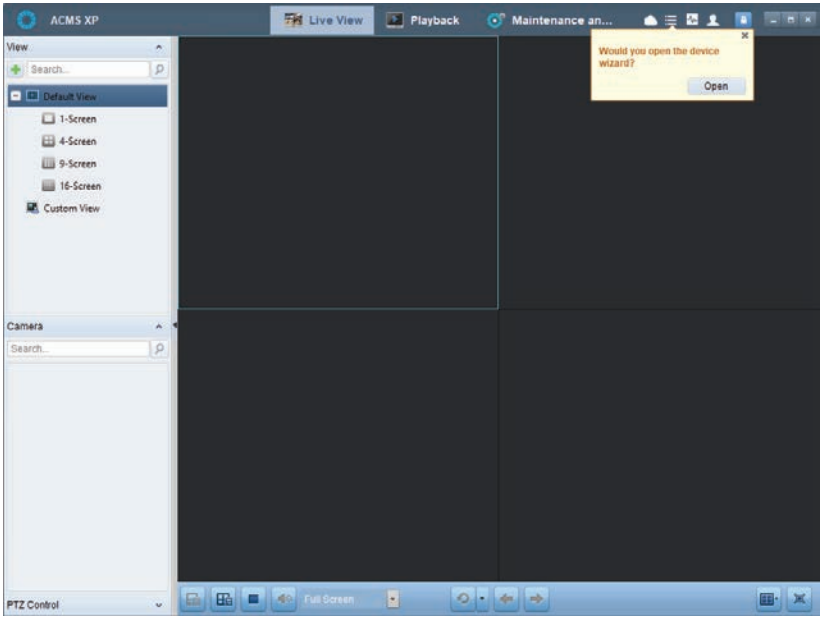
3. If a **Windows Security Alert** window opens, check the options you need to use to access your security equipment, and then click **Allow access**. The ACMS XP Live View window will open.



4. When you ACMS XP Client window opens (see below), you can either:

— Use the device Wizard to add devices to the client for monitoring (recommended). To use this feature, click **Open** in the tan message box on the screen and continue setting up the client with "2.3 Using the Wizard" on page 10.

— Close the message box, then continue the with "2.4 ACMS XP client screen" on page 14.



2.3 Using the Wizard

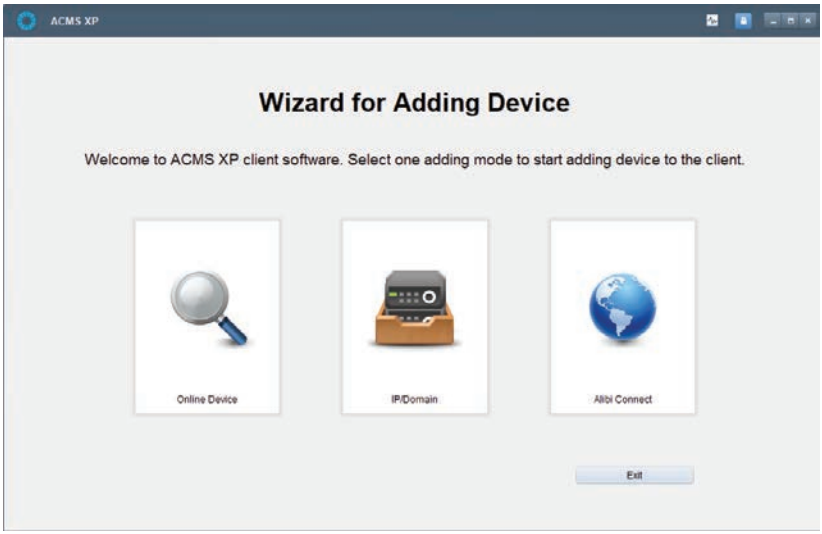
The Wizard for Adding Device can be started either during installation (see above), or by opening it from the screen header **Menus** (icon) **| Help | Open Wizard for Adding Device** . See "2.4.3 Menus icon" on page 16.

The Wizard offers three paths for adding devices:

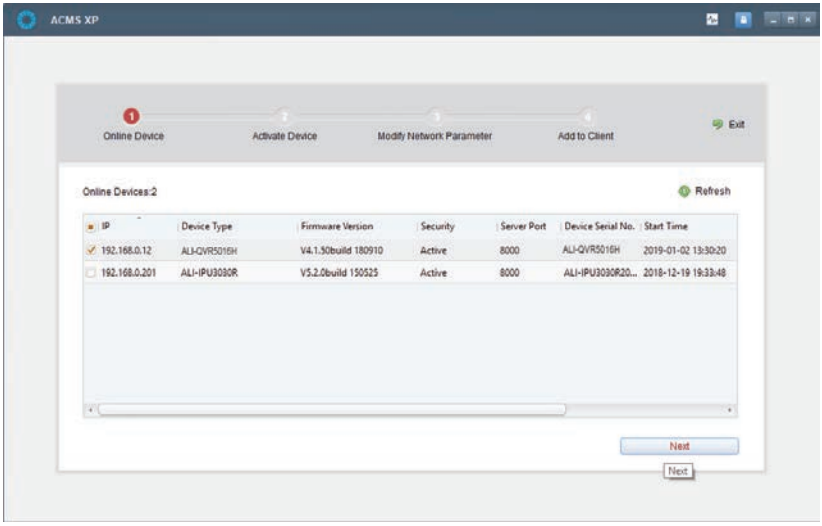
- **Online Device**: Online Devices method will discover devices on your network, and offers an easy way to add them to ACMS XP. It includes a screen to modify the IP address / network settings if necessary.
- **IP Domain**: This method can be used if you know the network IP address of the device you are adding.
- **Alibi Connect**: This method is used when adding devices to ACMS XP that are already accessible on the Alibi Connect cloud P2P service. You must have access to those devices through your Alibi Connect username and password.

In this example, we'll use the wizard to add a device to ACMS XP using the Online Device method. To use the wizard this way:

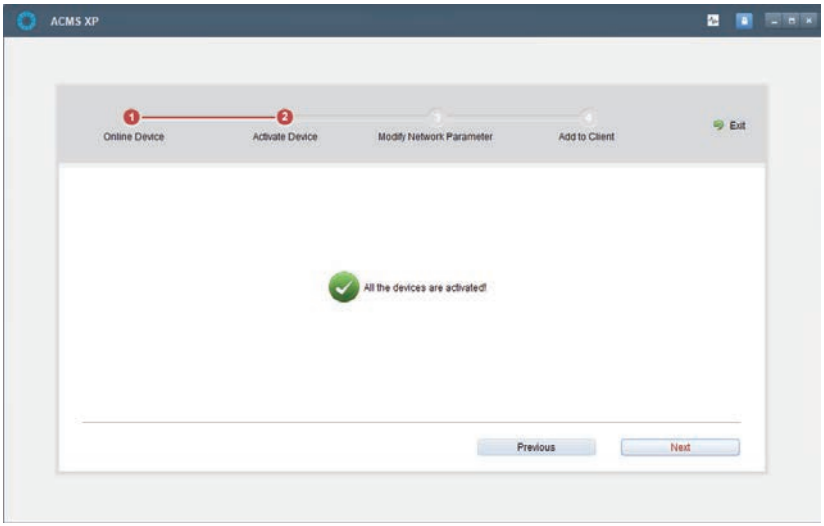
1. In the first Wizard screen, click the Online Device icon. The wizard will then search for and list compatible devices it can find on the network.



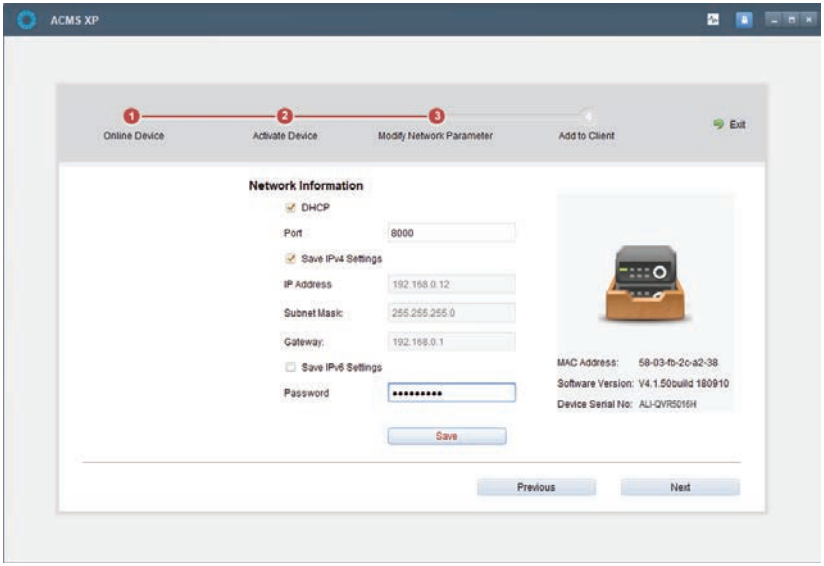
2. In the **Online Device** screen, check the select box(es) for the device(s) you want to add, and then click **Next**.



3. The Activate Device screen shows the status of the device(s) you added. Click Previous to add additional devices, or **Next** to continue.

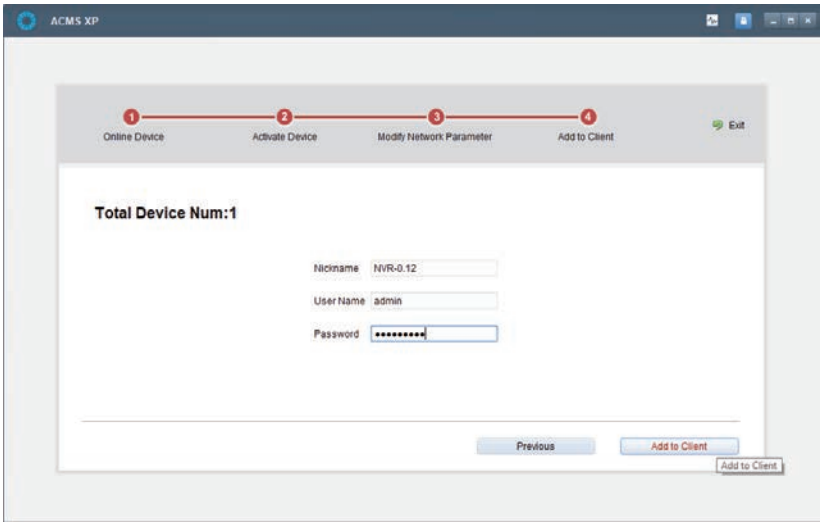


4. In the screen shown below, enter the device *admin* user password in the field provided, and then click **Save**.

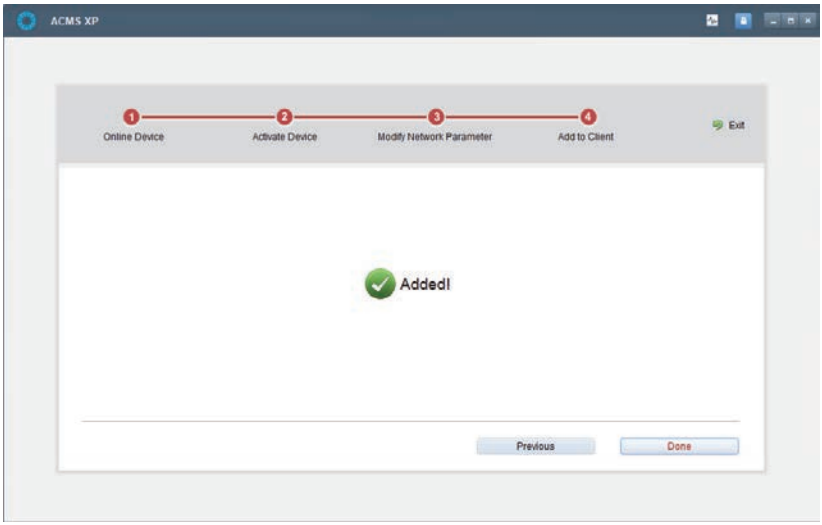


5. In the screen shown above, you can modify the network settings as needed. **Note** that the **Network Information** shows the device is configured for DHCP, with which these settings to change. Because it is preferred to use fixed network settings, you can either convert the DHCP settings to fixed settings by unchecking the DHCP option and then clicking **Save**, or unclicking the DHCP option, entering your preferred network settings (must be compatible with other devices on the network) and then click **Save**. Consult with your network administrator for specific recommendations.

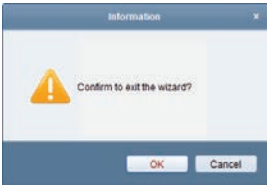
6. Use the following screen to create a nickname (short name) for the device, and enter its username and password. Click **Add to Client** when finished.



7. If the status shown in the screen below is "**Added**", click **Done** to continue. If not, click **Previous** and resolve the problem, and then complete the add.



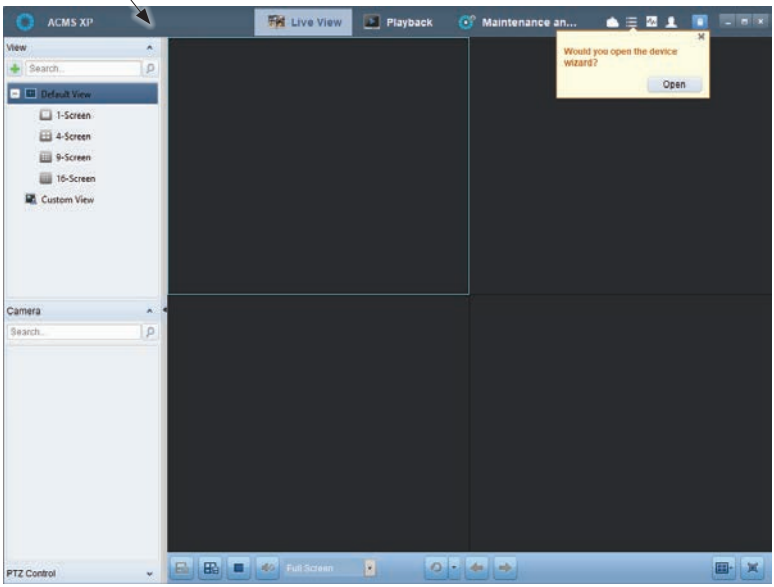
8. In the Information window, click **OK** to exit the Wizard, or **Cancel** to return to the first Wizard window.



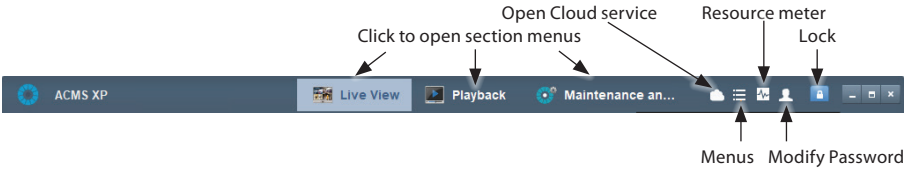
2.4 ACMS XP client screen

ACMS XP client includes three primary sections: **Live View**, **Playback**, and **Maintenance and Management**, and includes a wizard for easily adding devices to the client for monitoring. Tabs on the application screen header enable you to easily move from one section to either of the others. After ACMS XP is installed, the following screen appears.

ACMS XP application header



The application header is common to menus in each section of ACMS XP.



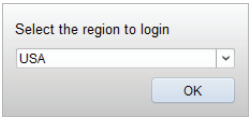
2.4.1 Section menus

Click the **Live View**, **Playback**, or **Maintenance and Management** tab to open the section menu.

2.4.2 Cloud Service icon

The ACMS XP client supports registering a Cloud P2P account, logging into your Cloud P2P account, and adding devices to the client which support the Cloud P2P service. The cloud service available through ACMS XP is Alibi Connect.

Clicking the **Cloud service** icon opens menus leading you to login or register an account.



2.4.3 Menus icon

Click the Menus icon to open the menus list. Most entries in the list have a sub-menu list.

Help menu items are defined in the table below.

Menu item	Submenu	Function
File	Open Image File	Search and view the captured pictures stored on local PC
	Open Video File	Search and view the video files recorded on local PC
System	Import System Config File	Import client configuration file from your computer
	Export System Config File	Export client configuration file to your computer
View	1024*768	Set window size to 1024*768 pixels
	1280*1024	Set window size to 1280*1024 pixels
	1440*900	Set window size to 1440*900 pixels
	1680*1050	Set window size to 1680*1050 pixels
	Maximize	Set window size to full screen
Tool	Broadcast	Select camera to start broadcasting
	Alarm Output Control	Turn on/off the alarm output
	Batch Time Sync	Batch time synchronization of the devices.
	Player	Open the player to play the video files
Help	Wizard for Adding Device	Open the guide for the client configuration
	About	View the basic information of the client software
	Open Source Software Licenses	Opens license screens
	Language	English (only)
Auxiliary Screen Preview	Open Auxiliary Screen Preview window	

2.4.4 Modify Password icon

Click this icon to either:

- Change the client password
- Enable or disable the password to open the client.

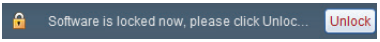
The client password is always required to unlock the client. See "Lock icon" on page 17.

2.4.5 Resource meter icon

Click this icon to show the level of Network, CPU and Memory resources in use.

2.4.6 Lock icon

Click this icon to Lock the client software. When the screen is locked, the following message appears in the client window header.

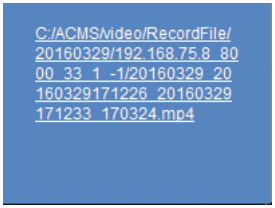


To unlock the client, click the **Unlock** button that appears, and then enter the client password in the field provided.

2.4.7 Operation status popup window

When many operations, such as an Add, Delete, File download, Modify, etc. are performed, a status message similar to the one shown below will appear in the lower right corner of the Windows desktop.

In the example shown below, a video download file was saved. Click the hyperlink in the window to open the directory where the video file was saved.



SECTION 3
Live View Features

Live View toolbar

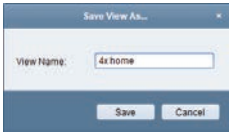
Icons in the Live View toolbar are similar to the those in the other sections of the client. The Live View toolbar is shown below.

Icon	Label	Function
	Set View	Set the screen layout mode and save the new settings for the current view.
	Save View as	Save the current view as another new view
	Stop Live View	Stop the live view of all cameras.
	Mute/Audio On	Turn off/on the audio in live view.
	Resume/Pause Auto-switch	Click to resume/pause the auto-switch in live view.
	Show /Hide the Menu	Show/Hide the configuration menu of auto-switch. Click again to hide.
	Previous	Go to live view of the previous page.
	Next	Go to live view of the next page.
	Window division	Set the window division.
	Full Screen	Display the live view in full screen mode. Press ESC to exit.

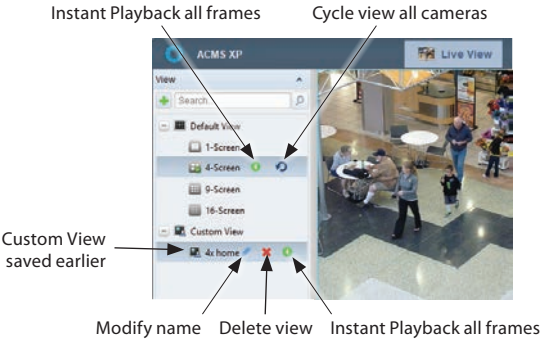
3.1 Views panel

The views panel can be used to set the number of divisions in the Live View menu, create Custom views, and manage the live view and instant playback of cameras.

- **Save view icon**: A camera configuration on a 1-Screen, 4-Screen etc. link video frame arrangement can be saved clicking the **Save view** icon at the bottom of the screen. That view can easily be recalled by clicking the entry in the views panel.
- **Save view as icon**: A camera configuration in the video frames can be saved clicking the **Save as view** icon at the bottom of the screen and entering a name in the pop-up window. That view will be listed in and recalled from the **Custom View** list.



- **Views panel right-click icons**: By right-clicking on an entry in the Views panel, you can access icons to instantly replay video from all camera in the video frames, and begin cycling through all cameras added to the client. In the Custom views list, you can edit the name of the view and delete the view.

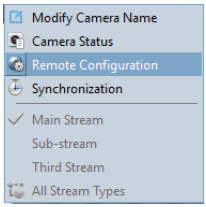


Cameras panel

The cameras panel lists all cameras and other devices added to the client. You can see a live view from a camera by dragging the entry into a video frame.

3.2 Camera panel right-click menu

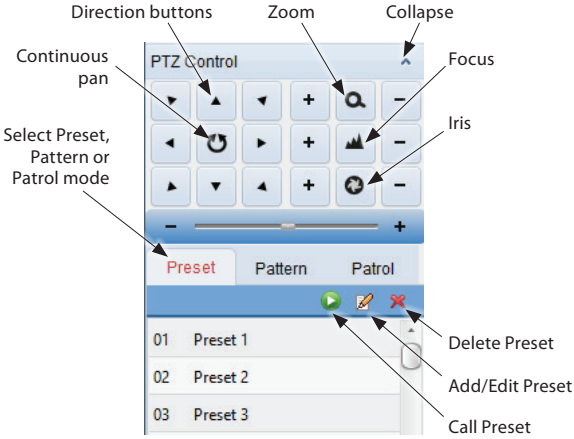
If you right-click on an entry in the camera panel, you will open a menu.



Item	Function
Modify camera name	Change the camera name
Camera Status	Opens a pop-up window showing camera record history and status
Remote Configuration	Open the remote configuration page of the camera selected.
Synchronization	Time synchronize the device clock with the PC running the ACMS XP client software.
Main Stream, Sub-stream, Third Stream	Indicates the stream mode carrying video.
All Stream Types	Click to select the frequently used stream types to display on the right click menu.

3.3 PTZ Control panel

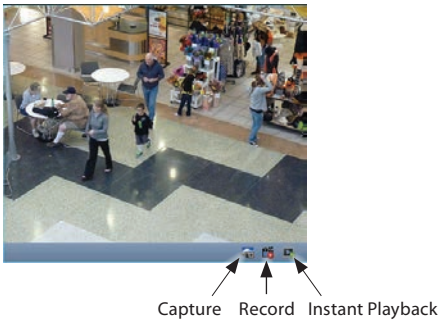
Click the PTZ Control bar to open the PTZ Control panel. This panel is used to manually redirect a PTZ capable camera, or configure Presets, Patrols or Patterns and execute them.



For more information about using the PTZ Control Panel features, see "SECTION 6 PTZ Control Panel" on page 49.

Video frame

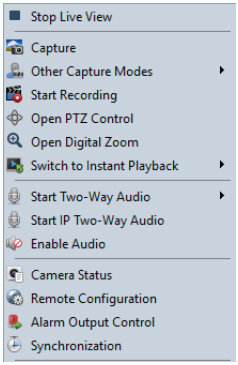
The Video frame normally shows live video from a camera. If you hover a mouse pointer over the frame, a toolbar will appear at the bottom of the screen. See below.



Icons on the toolbar enable you to capture the current image from the camera, to start and stop manual recording, and to initiate the instant playback of recently recorded video.

3.4 Video frame right-click menu

Right-click on a video frame to open the video frame right-click menu. Click on an entry in the menu to apply to the camera.

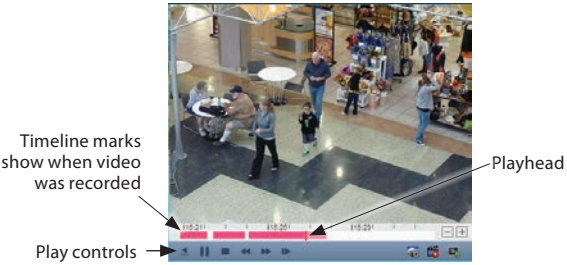


Item	Function
Stop Live View	Stop the live view in the display window.
Capture	Capture a picture of the live view video frame.
Other Capture Modes	Opens a submenu to 1) Print Captured Picture, 2) Send Email, or 3) Custom Capture (allows renaming the capture file).
Start/Stop Recording	Start/Stop the manual recording. The record file is stored in the PC.
Open PTZ Control	Enable PTZ control function on the display window. Click again to disable the function.
Open Digital Zoom	Enable the digital zoom function. Click again to disable the function.
Switch to Instant Playback	Opens a submenu where you can select the playback time between 30 seconds and 10 minutes.
Start/Stop Two-way Audio	Click to start/stop the two-way audio of the camera in Live View frame. You can select either of three channels (camera must support two-way audio).
Start/Stop IP Two-way Audio	Click to start/stop the two-way audio of of an IP camera in Live View frame. You can select either of three channels (camera must support two-way audio).
Enable/Disable Audio	Click to enable/disable the audio in live view.
Camera Status	Display the status of the camera in live view, including the record status, signal status, connection number, etc.
Remote Configuration	Open the remote configuration page of the camera selected.
Alarm Output control	Control alarm output device connected to a peripheral device, such as a camera alarm output
Synchronization	Time synchronize the device clock with the PC running the ACMS XP client software.

3.5 Instant playback controls

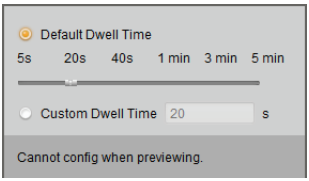
Click the Instant Playback icon in the toolbar of the video frame to play previously recorded video. You can play the recording starting from 30 seconds back, or from 1, 3, 5, 8, or 10 minutes back. After selecting the period to replay, play control icons will

appear in the camera toolbar, and a timeline showing when video was previously recorded will appear above. The dark red mark on the timeline marks when video appearing in the frame was recorded. Use the + and – icons to expand and contract the timeline.



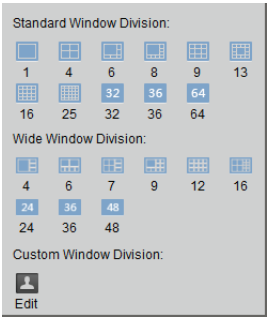
Dwell Time menu

Use the Dwell Time menu to set the dwell, or hold time, when switching between pages in Live view. A page can contain any view (1-Screen, 2-Screem etc.) or Custom view. You can also switch from one Custom view to the next.



Window division GUI

Click the Windows division GUI icon to open the selection frame, and then click the arrangement you want to use in the Live View screen. Options are available for Standard window sizes and Wide window sizes. You can also click the **Edit** icon to create a Custom window arrangement.



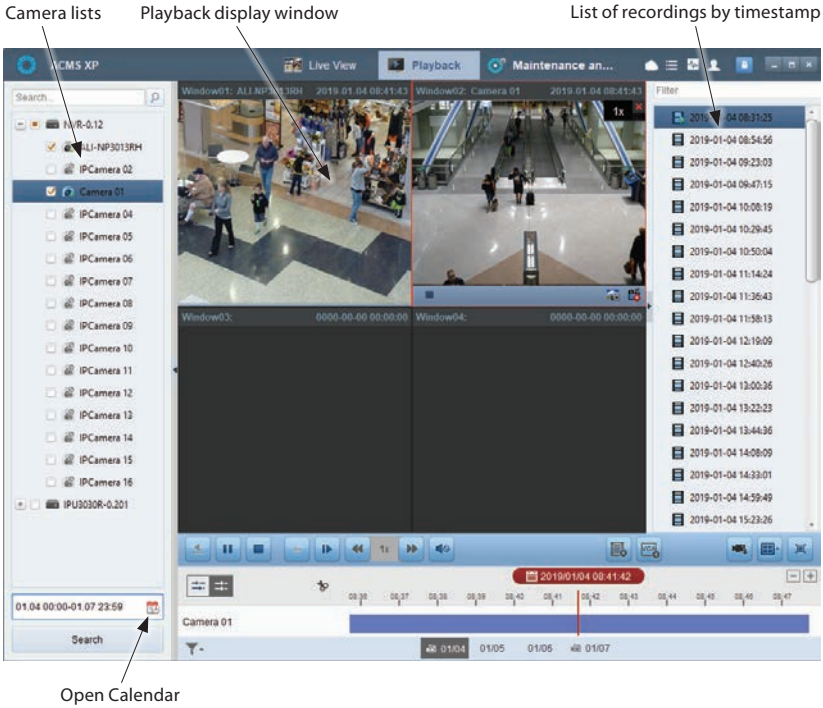
SECTION 4
Playback and Download Features

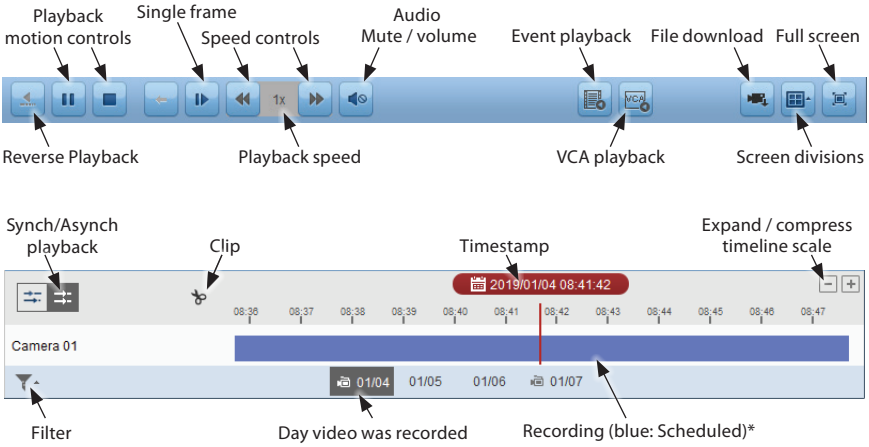
Recordings stored on the remote device can be searched for and then played back. The ACMS-XP includes the following types of Remote Playback based on search criteria:

- **Playback:** You can specify a time range of recordings to play back, and then open the camera(s) or group into the viewing frame. A list of recordings (by time stamp) that meets the criteria will appear in the right frame. Playback will start playing the first file in the list. Double click another entry in the list to play that file, or playback by double-clicking on a mark in the timeline when a recording was made. Two types of playback search are available:
- **Event playback**: This type of playback will find and play all event triggered recordings for the cameras you selected between the Start time and the End time.
- **VCA playback**: This type of playback will find and play VCA events, or line crossing or intrusion detection events found in all recordings for the camera you selected between the Start time and the End time. With line crossing or intrusion detection events you can defined the line or intrusion zone on the Playback image from the camera.

4.1 Playback screen

To open the Playback window, click the Playback tab on the client screen header. In the example shown below, two cameras were selected, then a search period was selected using the search calender.

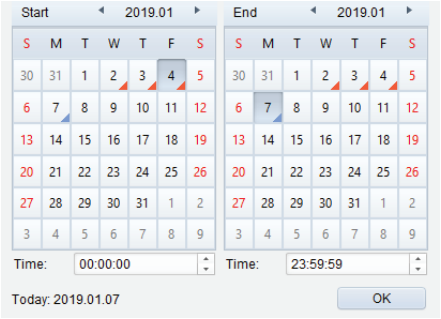




***** Color marks on the timeline indicate when and why the recording was made. **Red** indicates it is an event initiated recording, **blue** indicates a **Scheduled** (continuous) recording, **green** indicates it is a command initiated recording. Marks on the timeline show the recording type and time for the camera selected in the playback display.

4.1.1 Playback calendar and Search button

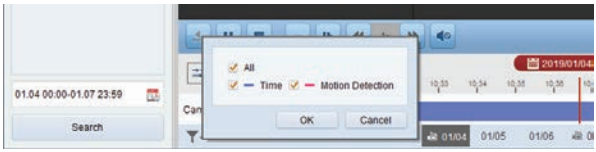
Use the playback calendar to search for recordings. Marks in the lower right corner of the date indicated that recordings were made that day for the camera(s) selected in the camera list.



You can initiate a playback search across a 7-day time frame. Use the **Start** calendar to select the beginning of the search, and the **End** calendar to select the end of the search. Use the icons at the top of the calendar window to changing the month. In the example shown above, the search for recordings will be made between January 4, 2019 at 00:00:00 and January 7, 2019 at 23:59:59. Click **OK** after selecting the Start and End date and time, and then click the **Search** button to find recordings.

4.1.2 Filter

The filter option enables you to playback only recordings triggered during a specified time and/or by motion.



4.1.3 Synchronous Playback

In synchronous playback of two or more cameras, the video playback of all cameras is synchronized, i.e., all video playback in the display window shows video that occurred at the same time. In asynchronous mode, the video playback of multiple cameras can be controlled such that video playback of individual cameras can be stopped and restarted while the others continue to play (or are stopped). An Synchronous/Asynchronous icons on the playback toolbar controls when camera video is played synchronously or asynchronously.

1. Start a Playback of two or more cameras.
2. Click the **Synchronous Playback** icon ( ) in the toolbar. The recordings are played back synchronously.
3. To disable the synchronous playback, click the **Synchronous Playback** icon again.

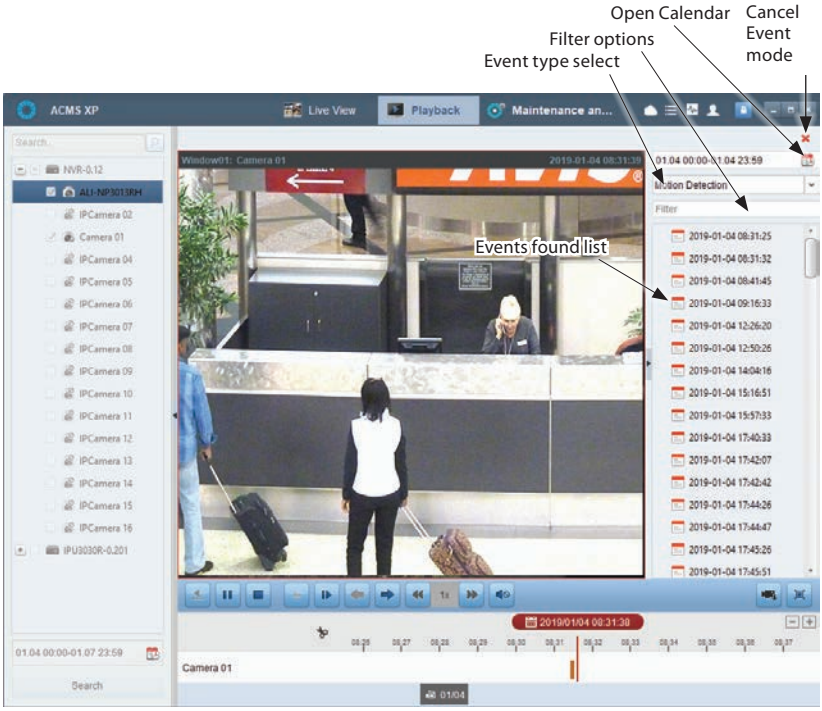
4.1.4 Event Playback

Recordings triggered by an event, such as Motion Detection or VCA Detection, can be searched for and played using Event Playback. The event recording being must be supported and configured in the device being searched.

Searching Recordings for Event Playback

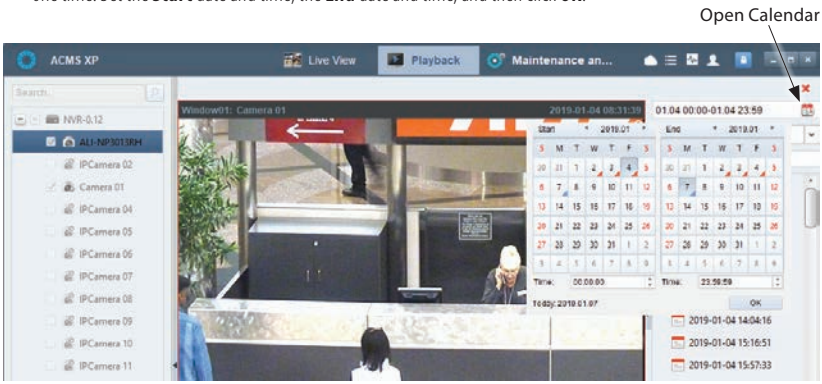
Remote Playback can report and play both Motion Detection events and VCA Detected events that initiate recording.

1. Cick the **Event Playback** icon on the toolbar to open the Playback window in Event mode.
2. Select a camera and begin normal playback.
3. Click the **Event** icon ( ). By default, a calendar search is performed for Motion Detection events. If these events are found, they are listed in the right frame, and the first entry in the list will begin to play. To retrieve **VCA Playback** event recordings, open the drop-down list under the calendar line and then select this type of event.



In this screen you can:

- Hover the mouse pointer over an entry in the list to show more information (metadata) about the recording (see above).
- Double-click any entry in the list to play the recording.
- Click on the calendar icon in the right frame to change the time range of the search. You can only search across 7 days at one time. Set the **Start** date and time, the **End** date and time, and then click **OK**.



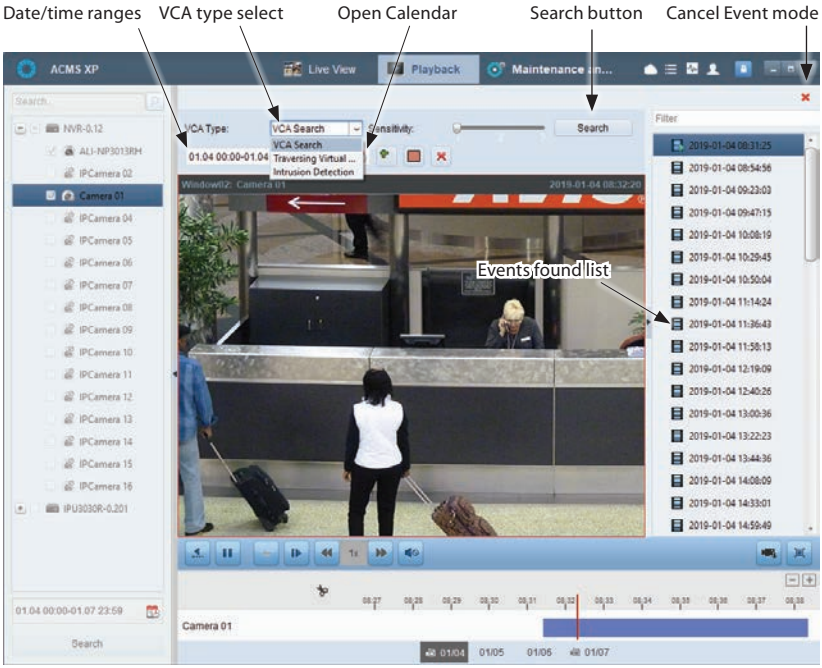
— Open the drop-down list under the Calendar icon and then select **VCA Detection** to search for recordings triggered by VCA detected events. **Note**: The camera must have VCA capability and be configured to record a VCA detected event.
— **Playback by File List**: Select the recording from the search result list, and then click the icon play icon (▶) in the toolbar or double-click on the recording to play.
— **Playback by Timeline**: The timeline indicates when recordings were made for the camera by using colored blocks. Different types of recordings colored differently. Click on the timeline to play back the video of the specific time.
— Click the + and – icons on the timeline to expand and contract the time scale.
— Click the download icon to copy the file to the ACMS Client PC.

4.2 VCA Playback mode

4.2.1 VCA Playback

You can setup a VCA rule to the searched record files and find the video in which a VCA event occurs. The event can including VCA Search, Intrusion or Line Crossing.

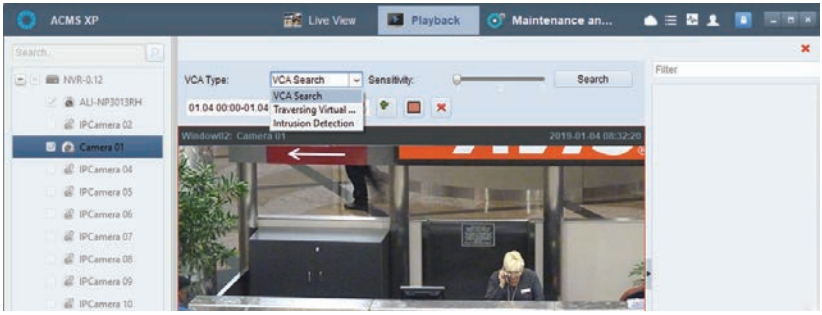
- **VCA Search**: Get all the related motion detection events that occurred in the pre-defined region.
- **Intrusion Detection**: Detect whether there are people, vehicles and other moving objects intruding into the pre-defined region.
- **Traverse Virtual Plane**: Bidirectionally detect people, vehicles and other moving objects that cross a virtual line.



4.2.2 VCA Search

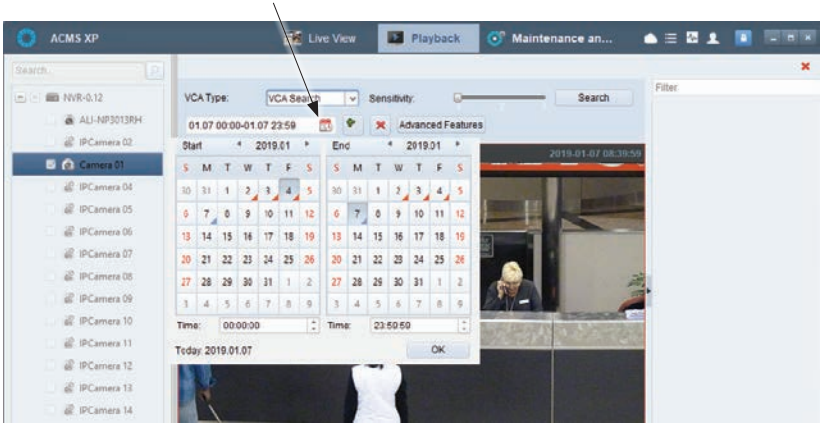
Intrusion Detection and Traverse Virtual Plane detection are similar to VCA search, except that additional Advanced Search options are available.

1. Select a camera and begin normal playback
2. Click the **VCA Playback** icon ( ) on the toolbar to open VCA Playback mode.
3. In the VCA mode screen, open the **VCA Type** drop down list, and then select the type of search you want to make. **VCA Search** is selected by default.



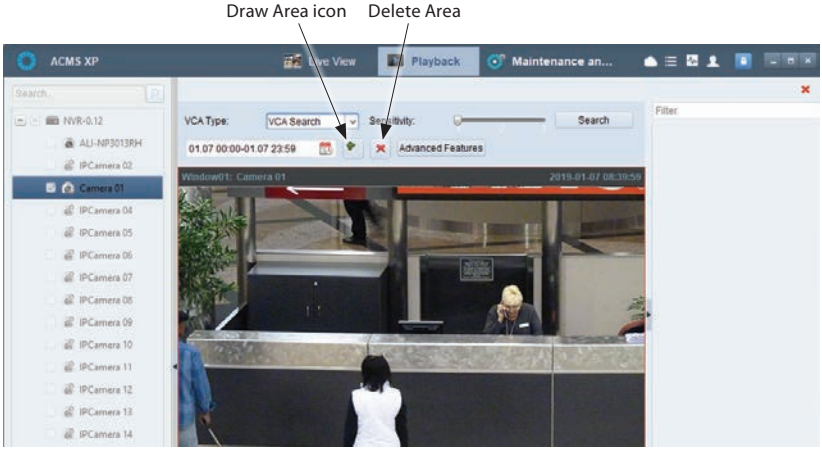
4. Click the **Calendar** icon, and then select the date and time range in which to perform the search.

Calendar icon for VCA search mode

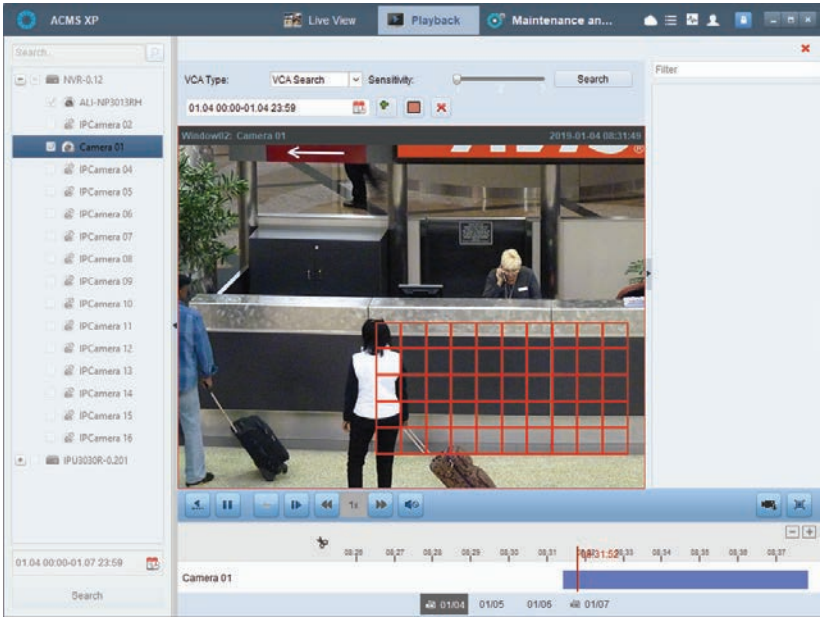


For VCA Search type:

a. To select an area in which to perform the search, click the **Draw Area** icon ( ) and drag the mouse across the area you want to search in, or click the **All Regions** icon to select the entire video area.

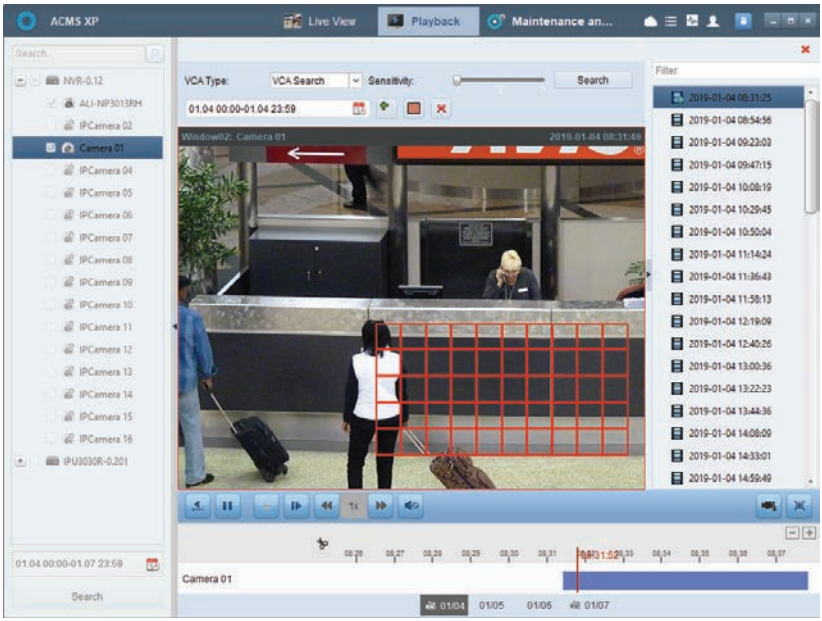


In the example below, the Draw Area icon was selected and an area of the screen was chosen.



b. Select the Sensitivity for the search using the slider near the **Search** button.

c. Click **Search**. Results will appear in the right frame.



d. Click on any result listed in the right frame to play that video.

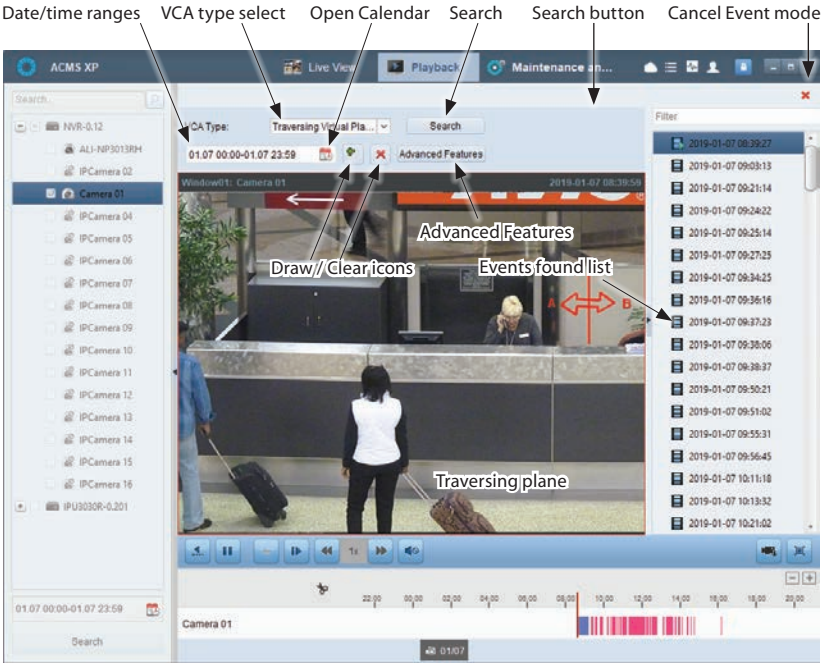
5. Select the VCA Type, draw the detection region. Set the sensitivity as needed.

4.2.3 VCA Playback mode - Traversing Virtual Plane search

Using this kind of VCA playback, you can select one camera, define (draw) a Traversing Plane on the Playback display, and then search all recordings of video from the camera between a Start time and the End time for occurrences where something crosses the plane. The results of the search are listed in a panel on the right.

To use VCA Search playback mode:

1. Cancel any Event mode or VCA mode search that might be active. Click the red ✕ in the upper right corner.
2. Check the select box for the camera you want to use for a VCA Playback.
3. Open the VCA Playback mode by clicking the **VCA Playback** ion on the toolbar.



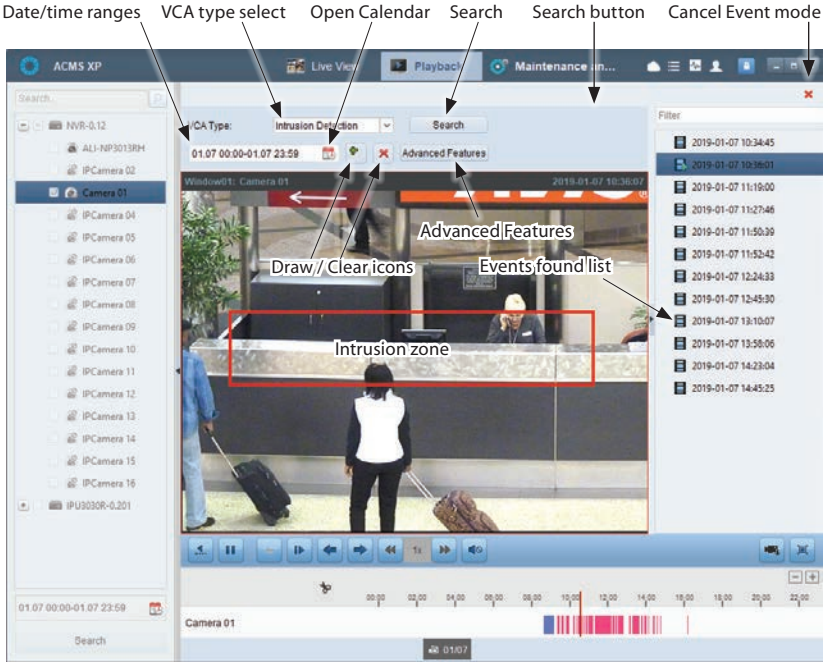
4. Click the **Search** button at the top of the screen to playback some video, and then stop the playback. A video image from the camera should remain on the screen.
5. Open the **VCA Type** drop down list and select **Traversing Virtual Plane**.
6. Click the **Calendar** icon to set the **Start** date and time and **End** date and time for the VCA search. Your search can span a maximum of seven days.
7. Click the **Draw** icon, and then drag the mouse cursor across the playback display to establish a virtual plane. The plane will appear as a red line. In the example above, the plane was drawn across a roadway.
8. Click the **Advanced Features** button, and then select those that refine your search, if needed. Click **Apply**.
9. Click the **Search** button. Events found that match your search criteria will appear in a list on the right.
10. Double click on an entry in the **Events found list** to watch the recording.
11. To cancel VCA playback mode, click the red ✕ in the upper right corner.

4.2.4 VCA Playback mode - Intrusion Detection search

Using this kind of VCA playback, you can select one camera, define (draw) a quadrilateral on the Playback display, and then search all recordings of video from the camera between a Start time and the End time for occurrences where something crosses the border of the quadrilateral. The results of the search are listed in a panel on the right.

To use VCA Search playback mode:

1. Cancel any Event mode or VCA mode search that might be active. Click the red ✕ in the upper right corner.
2. Check the select box for the camera you want to use for a VCA Playback.
3. Open the VCA Playback mode by clicking the **VCA Playback** ion on the toolbar.



4. Click the **Search** button at the top of the screen to playback some video, and then stop the playback. A video image from the camera should remain on the screen.
5. Open the **VCA Type** drop down list and select **Intrusion Detection**.
6. Click the **Calendar** icon to set the **Start** date and time and **End** date and time for the VCA search. Your search can span a maximum of seven days.

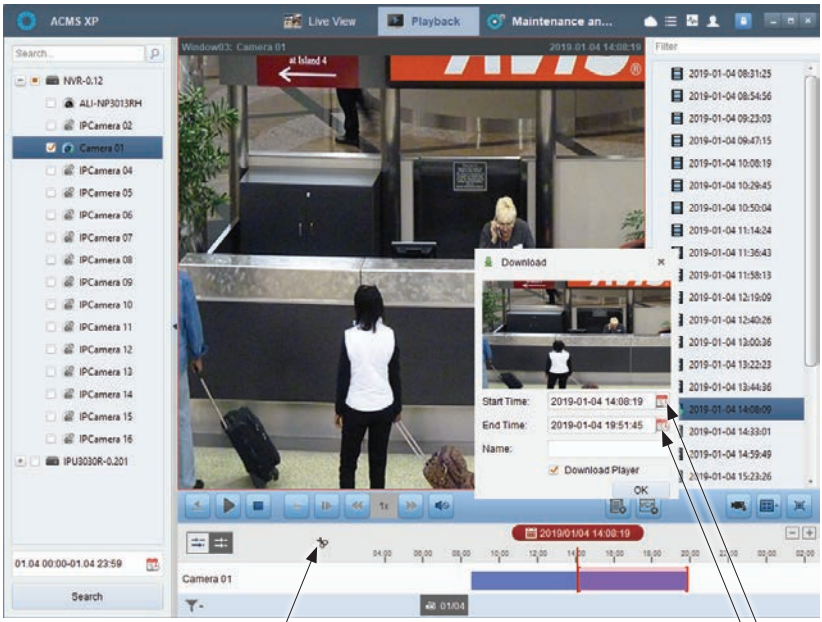
7. Click the **Draw** icon, and then click one point on the playback display to establish a corner of the intrusion zone, and then click three more points in a circular fashion to set the other three corners. The zone you defined will be represented by a red box on the playback display (see above).
8. Click the **Advanced Features** button, and then select those that refine your search if needed. Click **Apply**.
9. Click the **Search** button. Events found that match your search criteria will appear in a list on the right.
10. Double click on an entry in the **Events found list** to watch the recording.
11. To cancel VCA playback mode, click the red ✕ in the upper right corner.

4.3 File download

4.3.1 File download for single camera

During playback, you can click the **Clip** icon on the playback toolbar to open a download menu, and download video recorded on the selected camera. To use this feature:

1. During playback, click the **Clip** icon. See below. A popup download window will open.



2. In the download window, click the **Start** and **End** time calendar icons to set the time span across which the files you want were recorded.
3. In the Name field, enter a name to identify the video clip.
4. Check the select box for **Download Player** if you also want to download a video player.
5. Click **OK** to download the file(s). File(s) are download to the **File Saving Path** defined in the **Maintenance and Management** (tab) **| System Configuration | File | Saving Path** options. See: "5.2.3 System Configuration - File options" on page 47 .

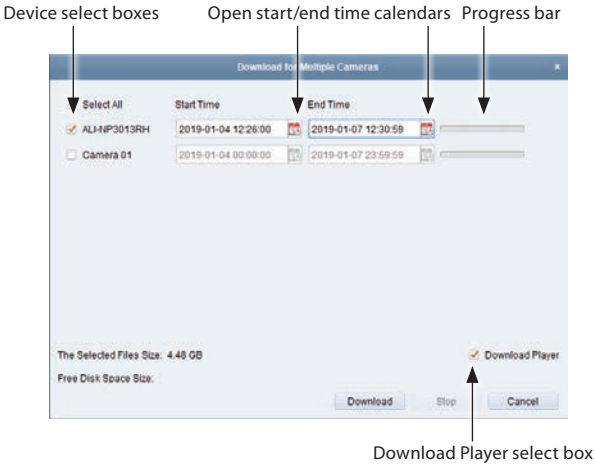
4.3.2 File download for multiple cameras

Use the File Download feature to copy files (video recordings and capture files) from a recording device added to ACMS XP to a local directory on your ACMS XP computer. Files from up to 16 cameras can be downloaded simultaneously. Files are download to the **File Saving Path** defined in the **Maintenance and Management** (tab) **| System Configuration | File | Saving Path** options. See: "5.2.3 System Configuration - File options" on page 47.

NOTE *You cannot download files from a cloud P2P device.*

To use this feature:

1. Click the **File download** icon on the Playback toolbar.



2. Check the select box for a device from which the files you need were recorded.
3. Click the **Start** and **End** time calendar icons for the device to set the time span across which the files you want were recorded.

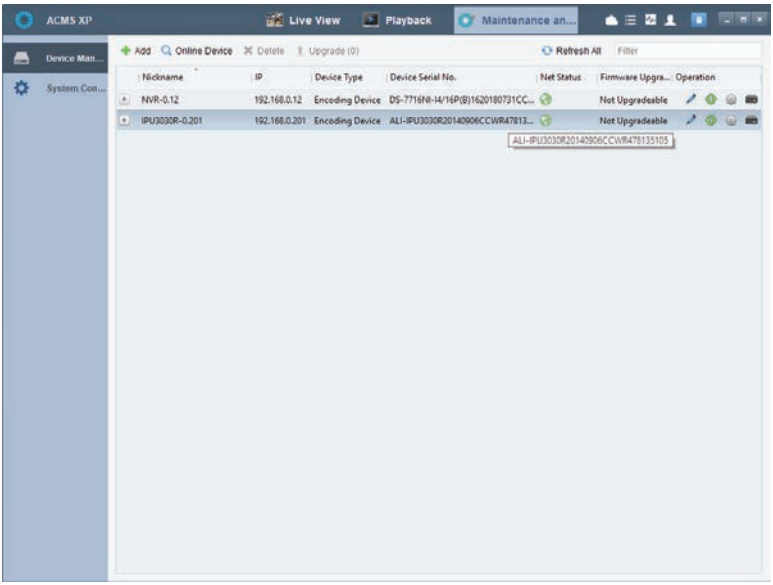
4. Repeat steps 2 and 3 above for other devices, if needed. **NOTE**: Only the device(s) currently selected for Playback appear in the device list.
5. Check the select box for **Download Player** if you also want to download a video player.
6. Click the **Download** button. The progress of the download for each device you configured is shown on the Progress bar in the right column.

SECTION 5
Maintenance and Management

The Maintenance and Management tab includes two main sections:

- **Device Management**: Use this feature to add devices to ACMS XP for management. Devices can be added in different ways, included devices linked through the cloud P2P access.
- **System Configuration**: Use these menus to setup how ACMS XP functions with your surveillance systems, and on its local computer.

Links to these sections are included in the left frame.

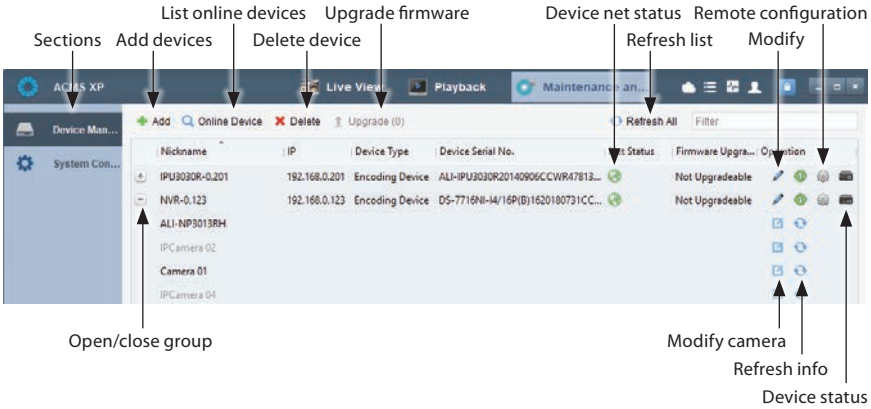


5.1 Device Management

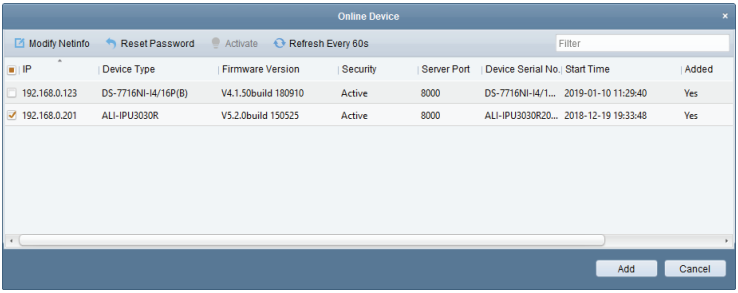
The main features of the Device Management screen includes:

- List devices added to ACMS
- Add, Delete, and check the device and network status of devices.
- Show the device IP address, type and serial number
- Modify network parameters of devices.
- Open menus to remotely configure devices

5.1.1 Device Management screen

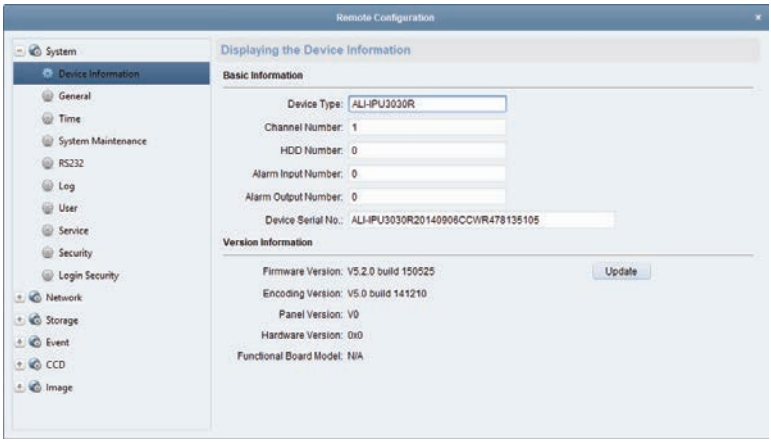


- **Add devices**: Click to open the device add menu. See "5.1.2 Adding Devices Manually" on page 40
- **List online devices**: Opens a window showing all compatible online devices.

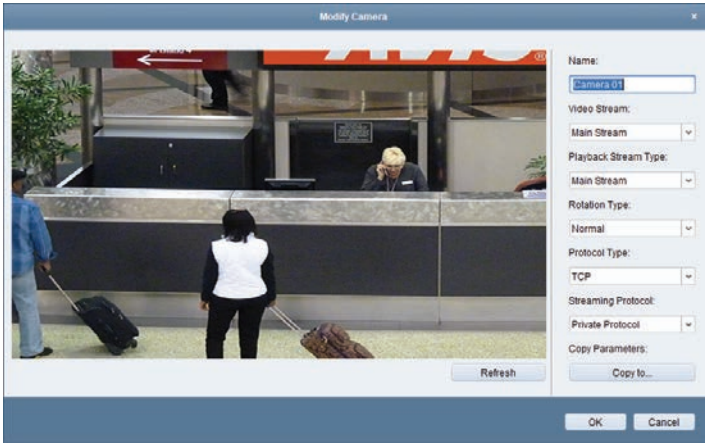


- **Upgrade firmware**: Shows number of devices in which firmware can be upgraded.
- **Device net status**: Shows the network status of the device. indicates normal status.
- **Modify** (device network information): Select a device and click the Modify icon from its operation column to modify the device information, including nick name, IP address/domain name, port, user name, and password.

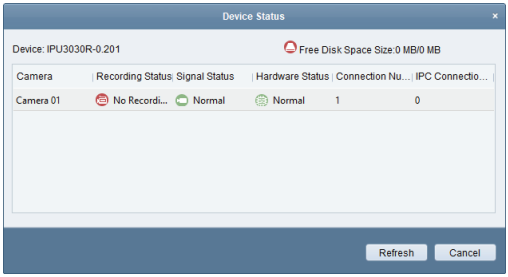
- **Refresh All**: Click to update the resource information of all the added devices in the list.
- **Modify remote configuration**: Click to open the remote configuration menu for the device. Configuration menus for cameras and recorders are different. Refer to the firmware manual for the device for specific guidelines for changing the device configuration and parameter definitions. The configuration for the online network camera (ALI-IPU3030R) is shown below.

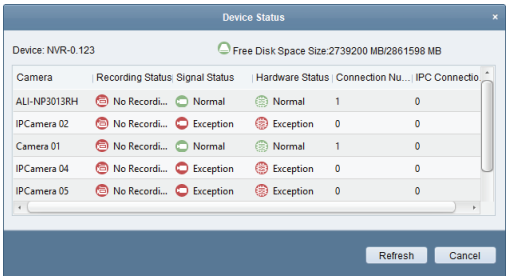


- **Modify camera**: Modify camera menu has options to change how ACMS XP interfaces with the camera. Here you can change the video and playback streams, rotation, protocol, etc. You can also copy these parameters to other camera settings.



- **Device Status**: Device status displays the current status of the device. Camera status screens (upper below) and recorder status screens (lower below) show different (applicable) status information. Click Refresh to renew the information.





5.1.2 Adding Devices Manually

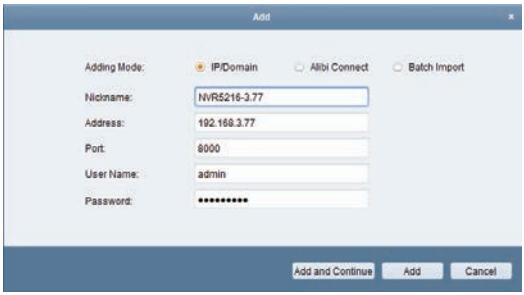
You can add devices to ACMS XP through Device Management in three ways:

- **IP/Domain**: You can add a device to the client using the Add IP/Domain menu. To add the device, it must be accessible across the network to the client, and you must know its network parameters, *admin* username and password.
- **Alibi Connect** (cloud P2P service): Using this method, you must have an Alibi Connect login and access to devices added to accessible through the cloud service. You cannot, however, download recordings from the device with ACMS XP.
- **Batch import**: This method imports devices into the ACMS XP client using a .CSV file. A .CSV file template is provided by the client.

Adding with IP/Domain

You can add a device to the client using the Add IP/Domain menu. To add the device, it must be accessible across the network to the client, and you must know its network parameters, *admin* username and password. In the **Maintenance and Management | Device Management** menu:

1. Click **Add Device** to open the device adding dialog box.
2. Select **IP/Domain** as the adding mode.



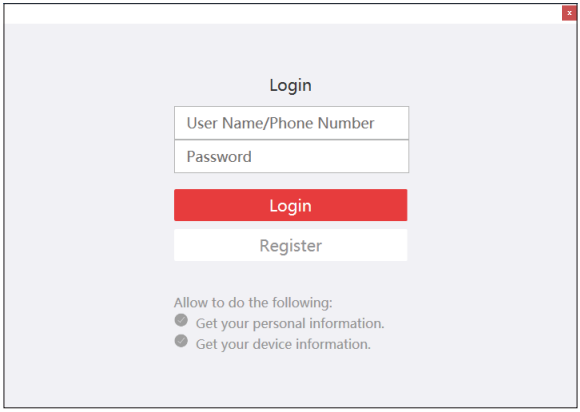
3. Enter the following information:
   - **Nickname**: Edit an appropriate name for the device.
   - **Address**: Enter the IP address of the device. The IP address of the device is obtained automatically in this mode.
   - **Port**: Enter the device port number. The default value is 8000.
   - **User Name**: Enter the device administrative user name.
   - **Password**: Enter the username password.
4. Click **Add** to add the device. The status of the add is indicated by the icon in the Net Status column.

Adding with Alibi Connect

Using this method, you must have an Alibi Connect login and access to devices added to accessible through the cloud service. You cannot, however, download recordings from the device with ACMS XP. In the **Maintenance and Management | Device Management** menu:

1. Click **Add Device** to open the device adding dialog box.
2. Select **Alibi Connect** as the adding mode.

3. Enter the following information:
   - **Alibi Connect User Name or Phone number**: Enter the account name of your Guarding Vision account.
   - **Password**: Enter the password for the account name.

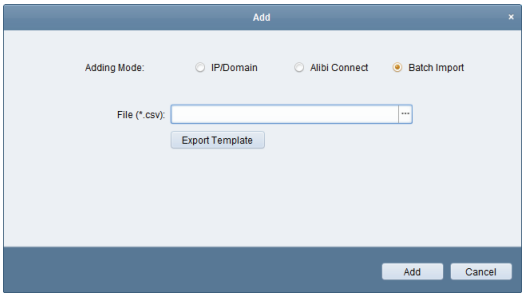


4. Click **Get your device information**. A listing of the devices you added to your account will appear in the window like that shown below.
5. Check the devices in the list you want to add to ACMS XP, and then click the **Add** button.

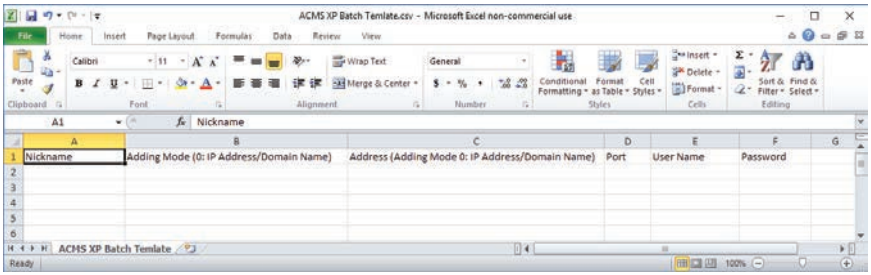
Adding with Batch Import

Devices can be added to the client in batch by inputting the device information in the pre-defined CSV file. In the **Maintenance and Management | Device Management** menu:

1. Click **Add** to open the device adding dialog box.
2. Select **Batch Import** as the adding mode.

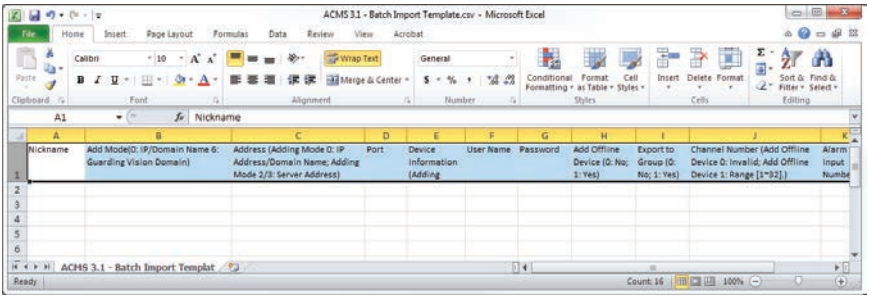


The .CSV file imported by Microsoft© Excel© is shown below. **NOTE**: To see the content of the header, column widths were adjusted.

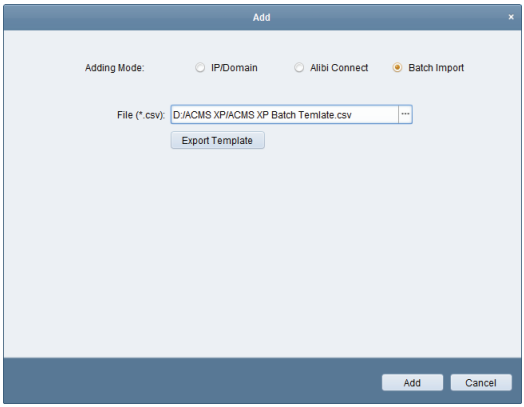


3. Enter the bath data into the spreadsheet. Header definitions are listed below:

   — **Nickname**: Enter a name for the device.
   — **Adding Mode**: Enter either 0 or 6, whichever is applicable. "0" indicates that the device is added by IP address or domain name; "6" indicates that the device is added via **Guarding Vision Domain**.
   — **Address**: Enter the address of the device. If the adding mode is "0", enter the IP address or domain name of the device, etc.
   — **Port**: Enter the device port number. The default port number is 8000.
   — **Device Information**: If the adding mode is "0", this field is not required; if the adding mode is "6", enter the device serial number. See "Add device to Guarding Vision" on page 74 to determine the device S/N.
   — **User Name:** Enter the device user name. By default, the user name is *admin*.
   — **Password**: Enter the password for the User Name. The password strength of the device can be checked by the software. For your privacy, we strongly recommend changing the password to something of your own choosing (using a minimum of 8 characters, including upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.
   — **Add Offline Device**: Enter "1" to enable adding the offline device. ACMS will automatically connect to it when the device comes online. Enter "0" to disable this feature.
   — **Export to Group**: Enter "1" to create a group by the device name (nickname). All channels of the device will be imported to the corresponding group by default. Enter "0" to disable this feature.
   — **Channel Number**: If you entered "1" for Add Offline Device, enter the channel number of the device. If you entered "0" for Add Offline Device, this field is not required.
   — **Alarm Input Number**: If you entered "1" for Add Offline Device, enter the alarm input number of the device. If you entered "0" for Add Offline Device, this field is not required.

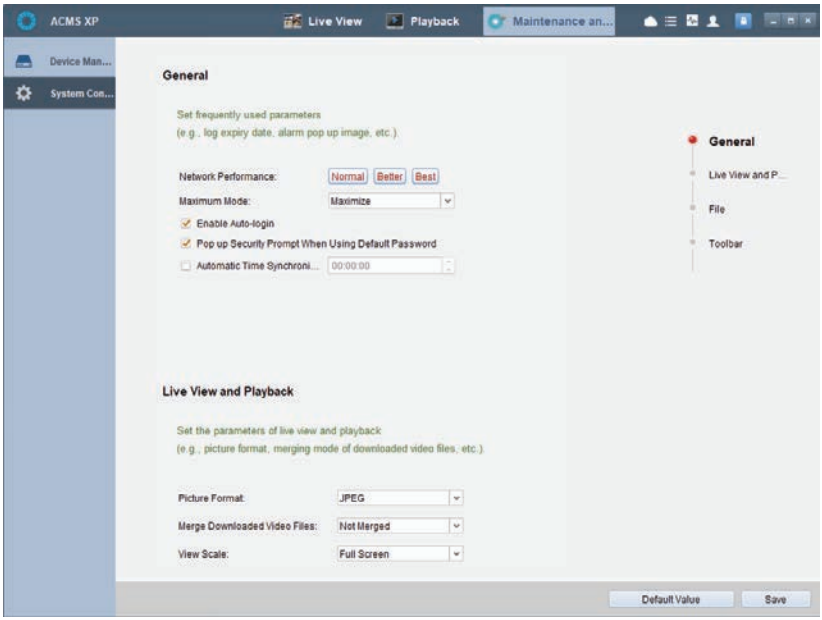


4. Save the spreadsheet file in CSV format.
5. To import the CSV file into ACMS XP, open the **Add Batch** Import menu (see below), browse to the file on your computer, and then click **Add**.



5.2 System Configuration

The System Configuration section includes four menus for configuring the behavior of the client: General, Live View and Playback, File, and Toolbar. You can quickly move from one menu to another by clicking the list on the right of the screen.



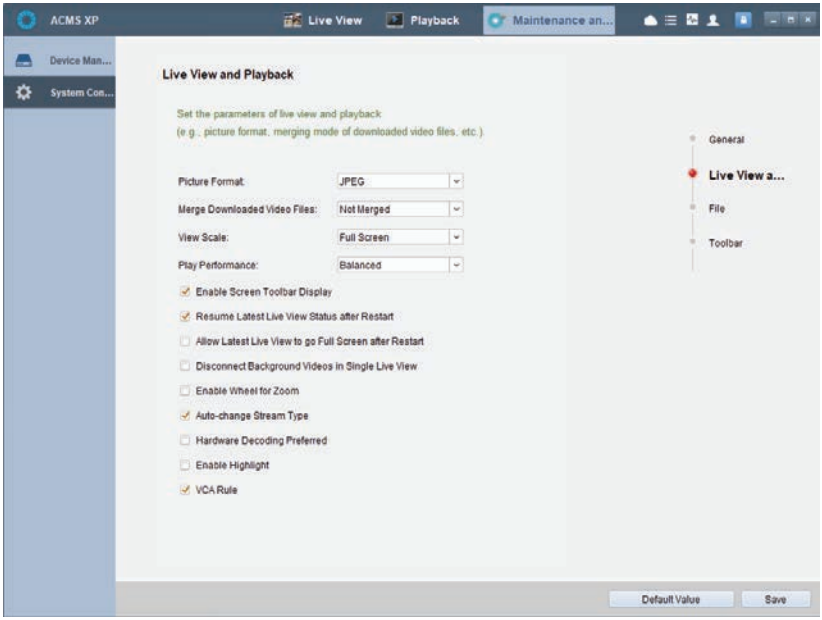
5.2.1 System Configuration - General options

The General menu includes frequently-used parameters, including the log expired time, view scale, etc. See the screen above. Parameters are defined in the table below.

Parameters	Descriptions
Network Performance	The current network conditions. You can select either **Normal**, **Better** or **Best**.
Maximum Mode:	Open the drop down list and select either **Maximize** or **Full Screen**. In Maximize mode, the screen is maximized and the taskbar will appear.
Enable Auto-login	Log in the client software automatically.
Pop up security prompt when the default password is used	If the default password of the added device has not been changed, the prompt will pop up for notification.
Automatic Time Synchronization	Automatically synchronize the time of the added devices with the time of the PC running the client at a specified time point.

5.2.2 System Configuration - Live View and Playback options

Use this menu to set up how Live View and Playback screens function. You can choose the picture format, the merging mode for downloaded video files, how video files are played, etc.

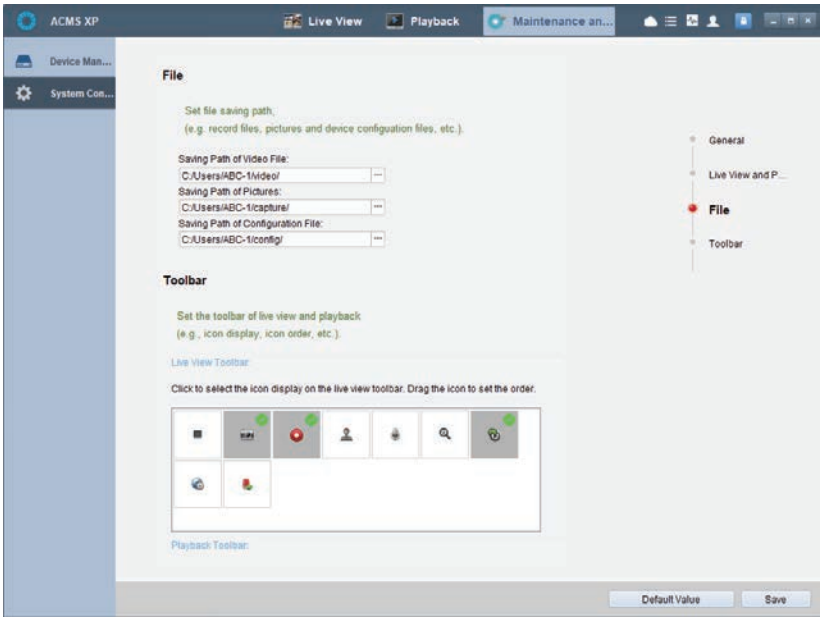


Parameters	Descriptions
Picture Format	Sets the file format for captured pictures during Live View and Playback.
Merge Downloaded Video Files	When selected, merges multiple files for download into a single file. You can select from 1GB, 2GB, or 4GB file sizes.
View Scale	The view scale of the video in live view or playback. Open the drop down list and select either **Full Screen**, **4:3**, **16:9** or **Original Resolution**.
Play Performance	The play performance of the live video. It can be set as **Shortest Delay**, **Balanced**, or **Fluency**.
Enable Screen Toolbar Display	Show the toolbar on each display window in live view or playback.
Resume Latest Live View Status After Restart	Resume the latest live view status after you log into the client again.
Allow Latest Live View to go Full Screen after Restart	Last Live View display expands to full screen after the client is restarted.
Disconnect Background Videos in Single Live View	In multiple-window division mode, double-click a live video to display it in 1-window division mode, and the other live videos will be stopped for saving the resource.
Enable Wheel for Zoom	Use the mouse wheel for zoom in or out of the video in PTZ mode, or for zoom in or restoring the video in digital zoom mode. You can directly zoom in or out (or restore) the live video by scrolling the mouse.
Auto-change Stream Type	Change the video stream (main stream or sub-stream) automatically in live view according to the size of the display window.
Hardware Decoding preferred	Set to enable decoding by hardware for live view and playback. Hardware Decoding can provide better decoding performance and lower CPU usage when playing the HD videos during live view or playback.

Parameters	Descriptions
Enable Highlight	Mark the detected objects with green rectangles in live view and playback.
VCA Rule	Display the VCA (Video Content Analysis) Rule in the live view

5.2.3 System Configuration - File options

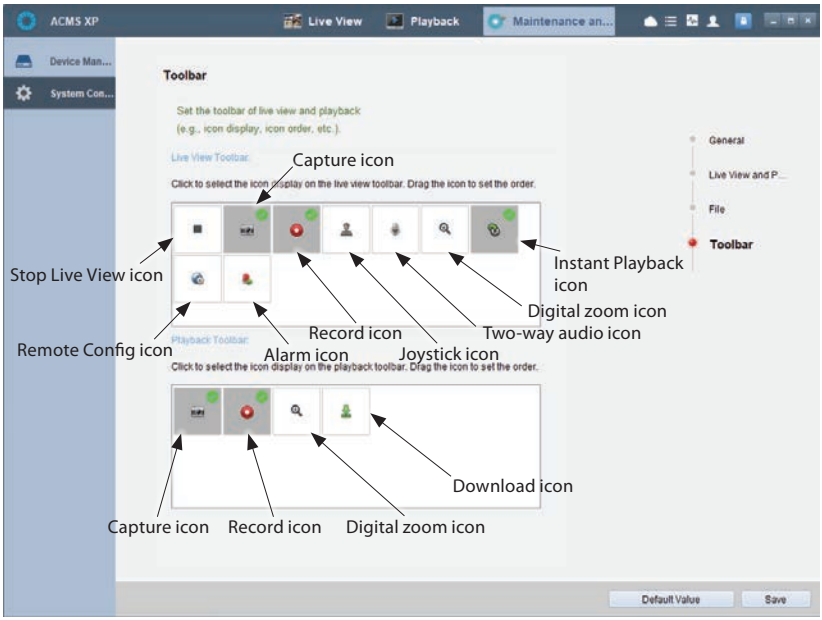
The video files, the captured pictures and the system configuration files are stored on the local PC. Location of these files is selected using the File sub-menu.



6. For each file type (Video, Pictures, Configuration), click the ellipsis (browse) icon to the right of each path, and then browse to the location where the associated files should be saved.
7. Click **Save** to retain your settings.

5.2.4 System Configuration - Toolbar options

Live View and Playback screens have a toolbar that include stop, snapshot, record, digital zoom, etc. You can customize what icons you want in the tool bar from this menu.


ACMS XP
Live View
Playback
Maintenance an...
Device Man...
System Con...
Toolbar
Set the toolbar of live view and playback
(e.g., icon display, icon order, etc.).
Live View Toolbar:
Click to select the icon display on the live view toolbar. Drag the icon to set the order.
General
Live View and P...
File
Toolbar
Capture icon
Stop Live View icon
Instant Playback icon
Digital zoom icon
Two-way audio icon
Record icon
Alarm icon
Joystick icon
Remote Config icon
Playback Toolbar:
Click to select the icon display on the playback toolbar. Drag the icon to set the order.
Download icon
Capture icon
Record icon
Digital zoom icon
Default Value
Save

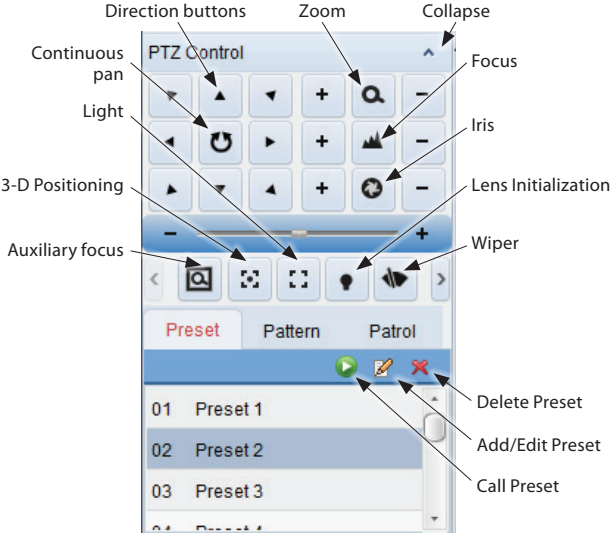
SECTION 6
PTZ Control Panel

The ACMS XP client provides PTZ control for cameras with pan/tilt/zoom functionality. You can set the preset, patrol and pattern for the cameras on the PTZ Control panel.

NOTE *Due to the large variation of RS-485 protocols and analog PTZ cameras, some features of the PTZ controls in the DVR may not function as expected. To access and use all features of your PTZ camera, Observint Technologies recommends at an external PTZ Controller device, compatible with your camera, be used to perform PTZ operations.*

1. To open the Live View menu, click the tab in the ACMS XP client window.
2. Click the **Expand** icon on the PTZ entry in the left frame to open the PTZ Control panel.

PTZ Expand icon



6.1 Configuring the Preset

A preset is a predefined image position which contains information of the pan, tilt, focus and other parameters. To create a preset:

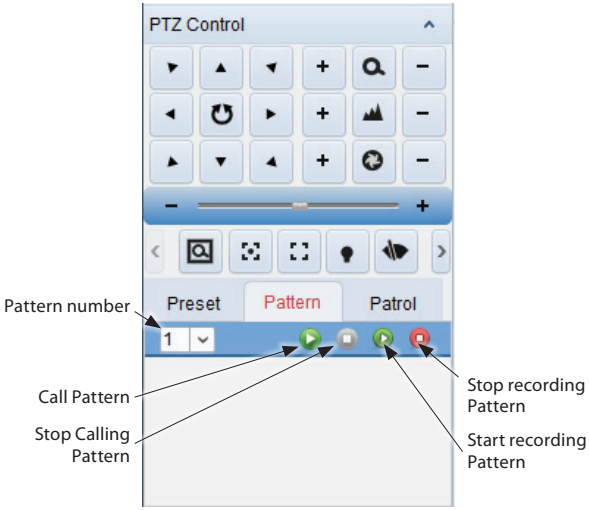
1. On the PTZ Control panel, click the **Preset** tab.
2. Click the direction buttons on the PTZ control panel to point the camera to the desired view.
3. Click a PTZ preset number from the preset list and click the **Add/Edit Preset** button. The window shown below will open.

4. Enter the name of the preset in the **Name** field, and then click **OK**.
   - To call a preset that was configured, double-click on the preset, or select the preset in the list and then click the **Call Preset** icon.
   - To modify a preset, select the preset in the list, and then click **Add/Edit Preset** icon.
   - To delete a preset, select the preset from the list and click the icon **Delete** icon.

6.2 Configuring the Pattern

A pattern is a memorized, repeating series of pan, tilt, zoom, and preset functions. Only one pattern can be configured. A newly-defined pattern will overwrite the previous one. Perform the following steps to add a pattern:

1. Click the **Pattern** tab to open the PTZ pattern configuration panel.



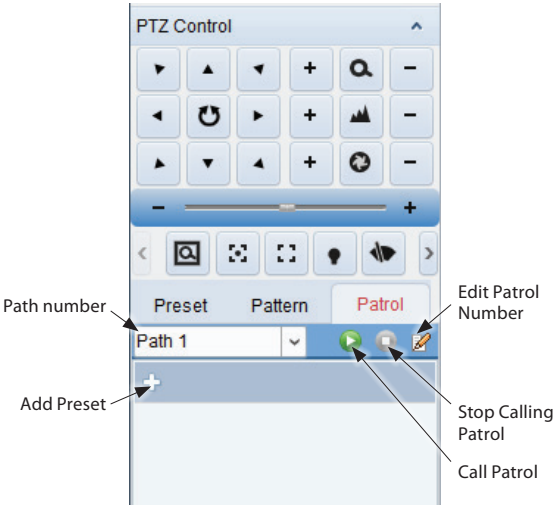
2. Open the **Pattern Number** drop-down list and select a pattern number.

3. Click the **Start Recording Pattern** icon to start recording of this pattern path.
4. Use the direction buttons to control the PTZ movement.
5. Click the **Stop Recording Pattern** icon to stop recording this pattern.
   - Click the **Call Pattern** icon to command the camera to move in the pattern.
   - To stop the pattern motion, click the Stop Calling Pattern icon.

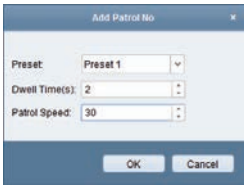
6.3 Configuring the Patrol

A patrol is a scanning track specified by a group of user-defined Presets, with the scanning speed between two presets and the dwell time at the preset separately configurable. To create a patrol, at least two presets must be configured. Up to 16 patrols can be configured. To configure and call a patrol:

1. Click the **Patrol** tab to open the PTZ Patrol configuration panel.



2. Select a **Path** number from the drop-down list.
3. Click the **Add Preset** icon to add a preset to the patrol and set the dwell time and patrol speed for the preset. The preset dwell time can be set to 1~255 seconds, and the patrol speed can be set to level 1 ~ 40.



4. Repeat the above operation to add additional presets to the patrol.
5. Click the **Edit Patrol** icon to edit or delete a preset in the patrol path.
   - Click the **Call Patrol** icon to call a patrol.
   - Click the **Stop Calling Patrol** icon to stop the patrol.