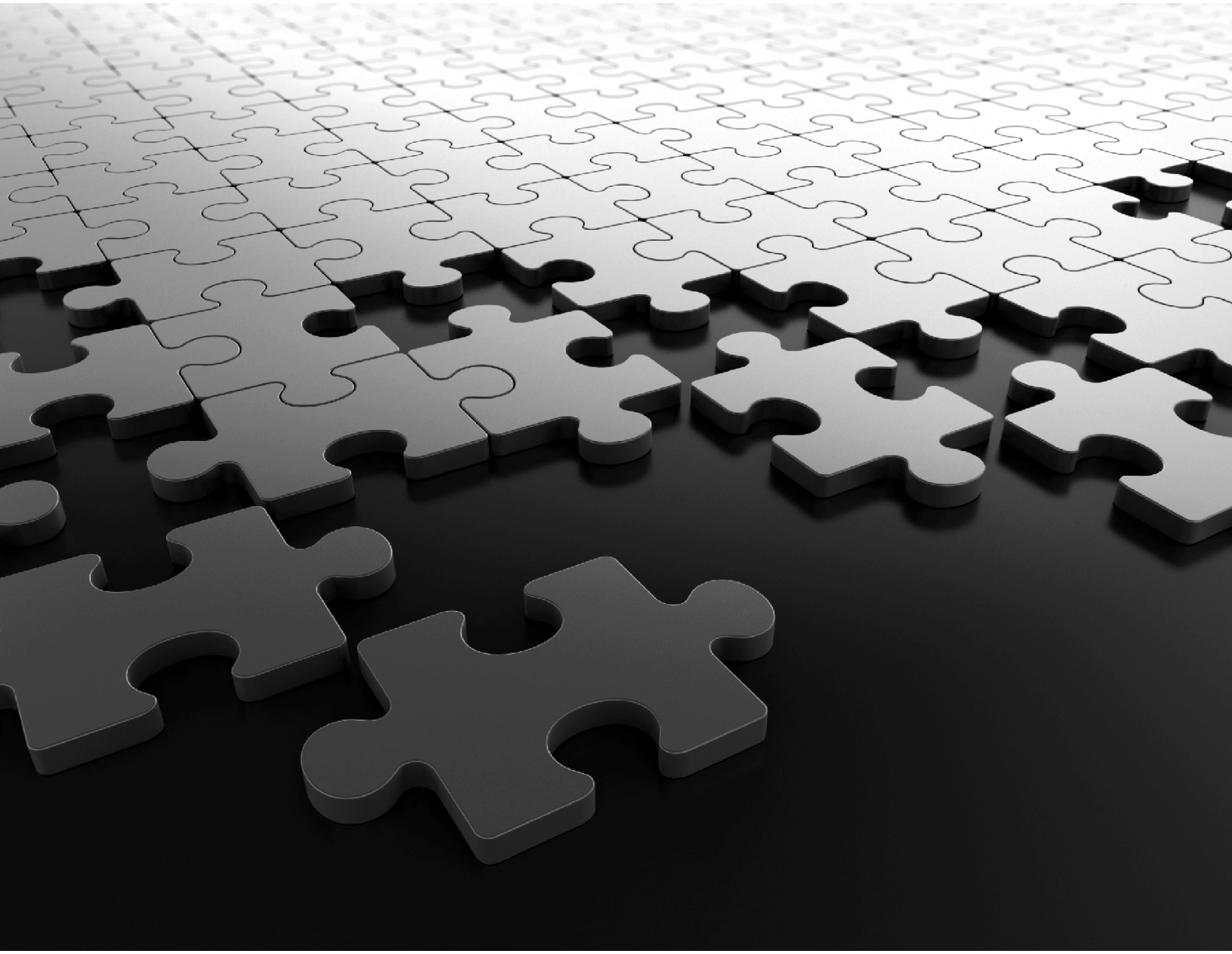
SATATYA SAMAS
Media Player Manual



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SATATYA SAMAS

Media Player Manual

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SAMAS Media Player

The Matrix SAMAS Media Player provides the user with an interface to view the records stored in Backup Storage. With the Media Player, user can scan the video records, perform basic playback functions — Play, Pause, Stop, Smooth Reverse Play, Speed-up, Speed-down, Previous Frame and Next Frame.

It is also sometimes desirable to play recorded videos from selected cameras in a synchronous manner, that is all videos will be played synchronously with reference to a single time instance. This feature is supported in the Media Player. IVA operations can also be performed with the SAMAS Media player.

The SATATYA SAMAS application is optimized with different languages. SAMAS Media Player application allows the user to access the following features with Multi-language support.

- It supports UTF-8 characters allowing the user to provide inputs in various languages wherever it is required.
- Files generated or recorded using other clients in different languages, can be searched, browsed, accessed and exported via Media Player.

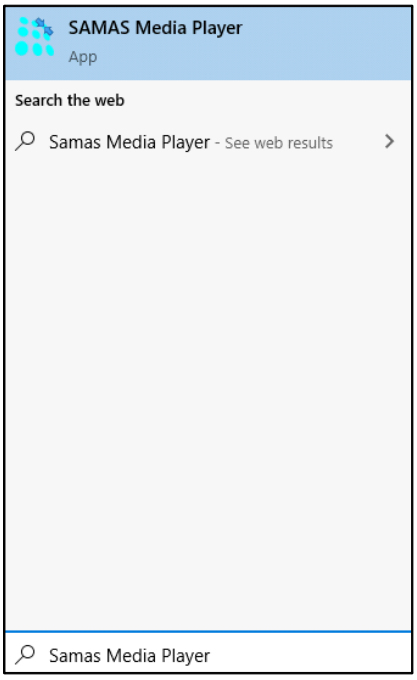
Static Labels of Media Player are supported in English language only.

To access the **Media Player** application,

Make sure you have provided full access rights (manually) to the SATATYA SAMAS Media Player Folder you installed.This is applicable for Software Release V5R4 and later only.

For other Software Releases, windows authentication pop-up will appear to provide administrative rights.

- Click on your PC Search option and enter **SAMAS Media Player**. Click the same.



OR

Double-click on SAMAS Media Player

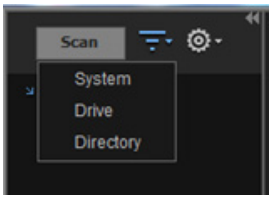
icon on the desktop.

The Media Player home page appears.

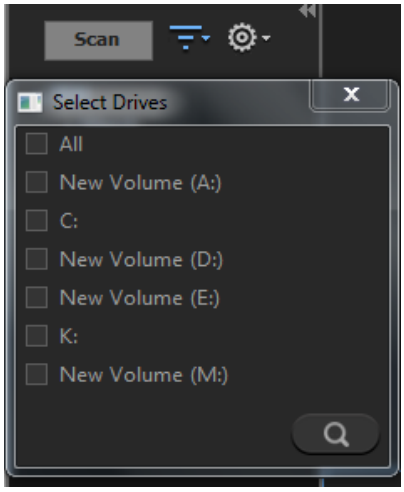
Click Yes to scan the system.

Media Player scans and display all the Records that are available in the Drives/folder configured in the PC where it is installed.

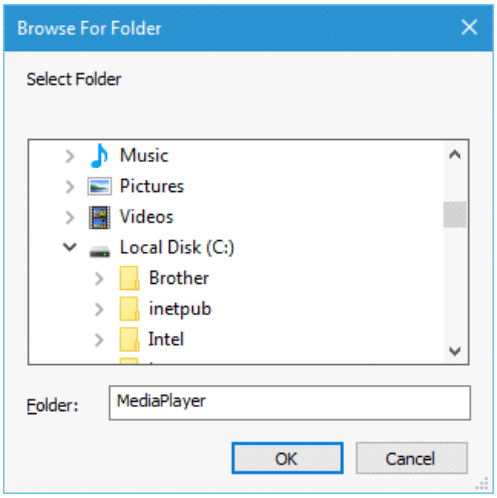
Click on Scan button. You have the option to scan **System, Drive** and **Directory**.



Select the option **Drive** and select the desired drive to scan. Then click on search button to search for the records.

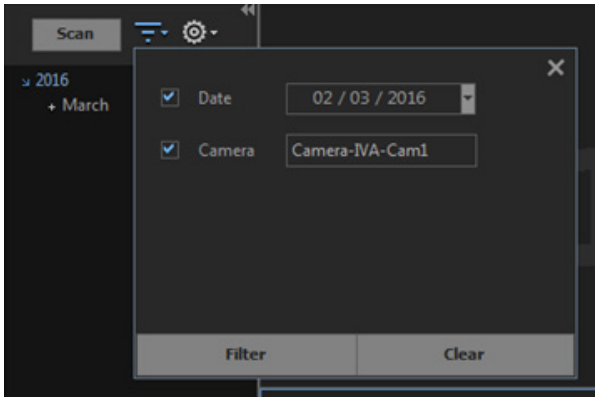


Select the option **Directory** and browse for the desired directory to scan.



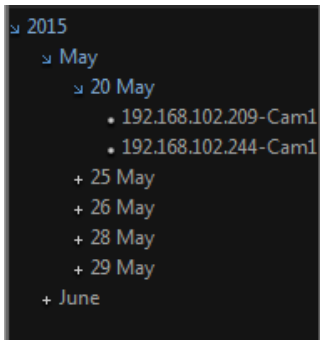
You can scan the **System** for Camera Records using multiple filter options.

Click on Filter to select the option of Date/Camera. By selecting a particular date and specifying the Camera name, the specific records of the camera for the selected date can be searched.



The Record tree will be listed as below:

>Year
>Month
>Date
>Camera



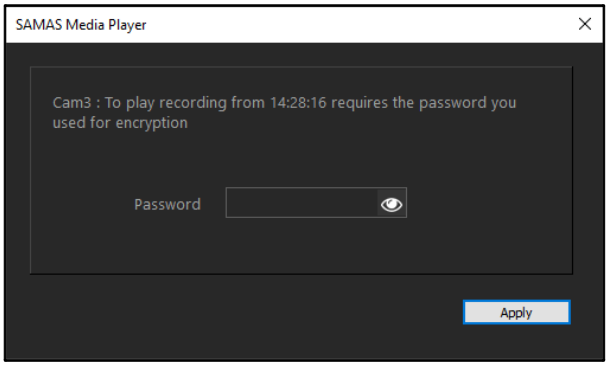
Recorded video streams can be played back over the Playback Windows.

To view the recorded video of a camera
(1) Single-click on the Camera name in the Records Tree, or
(2) Drag-and-drop the Camera name in the Records Tree on a Playback Window.

If the recorded video stream is encrypted from Smart Client, it is mandatory to decrypt the video to view the recording. For more details, refer to the SATATYA SAMAS Smart Client Manual.

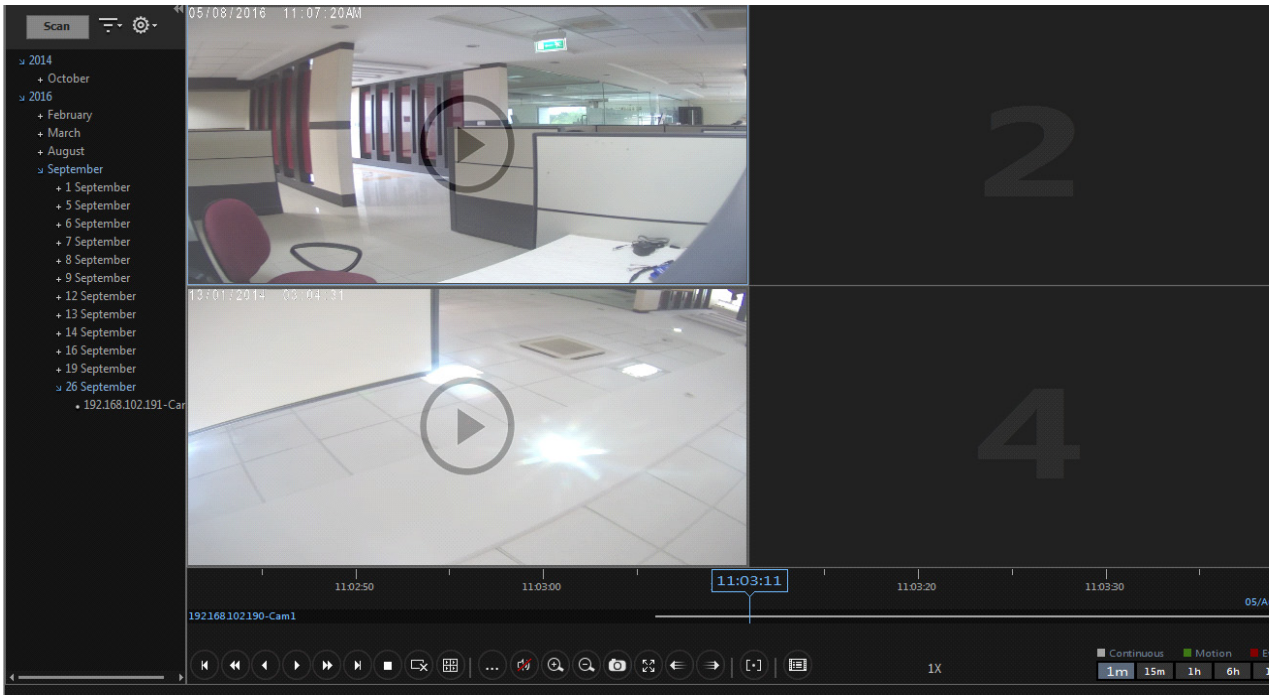
Make sure the Media Player and Management Server are upgraded to the latest and same version to access the encrypted recordings.

If the recorded video stream is encrypted, on selecting the camera the following pop-up appears.

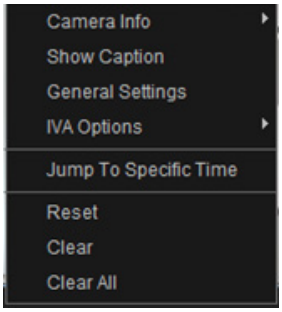


- Specify the same password used to encrypt the video recording in Smart Client. Click **Show** to view the password. The icon toggles to **Hide** . Click **Hide** to hide the password.

Click **Apply**. The video recording will begin in the selected monitoring window.



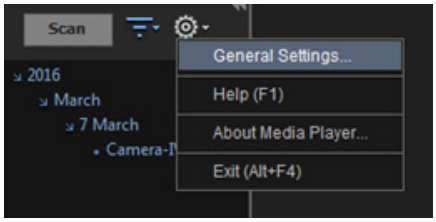
Following options are available on the right click over the playback window:



- **Camera Info:** To view the Name of the camera.
- **Show/Hide Caption (Toggle):** To view the camera name on the window.
- **General Settings:** To configure the Application and Media settings. See “General Settings” on page 6.
- **IVA Options:** To configure the IVA settings. See “IVA Options” on page 7.
- **Jump to Specific Time:** To jump the Media Player to the defined time.
- **Reset:** To stop the ongoing record, and move the seek mark of the timeline to the beginning of the record.
- **Clear:** To stop the playback and close the camera from the playback window.
- **Clear All:** To stop the playback and close the cameras from all the playback windows.

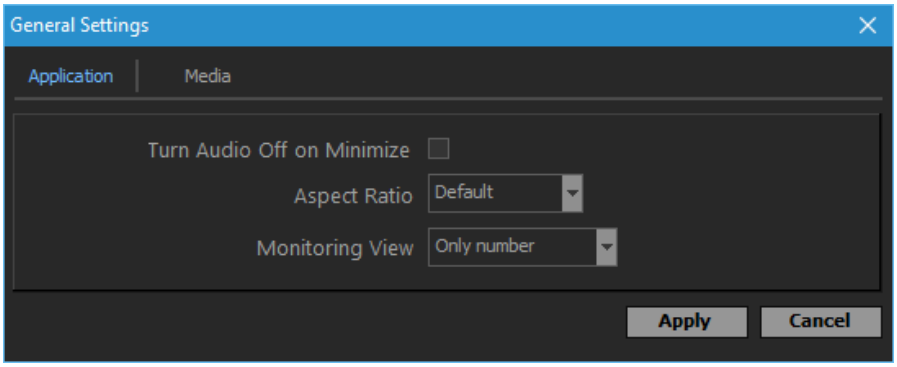
General Settings

To open the general setting right click on the **Setting** icon as shown below.



Application

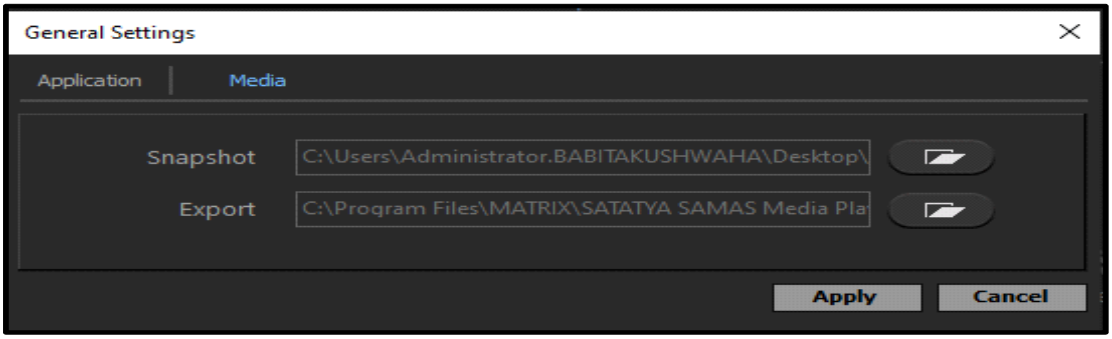
This section allows you to personalize the way the *SAMAS Media Player* can be used.



- Enable the **Turn Audio Off On Minimize** checkbox to turn the audio off when user minimizes the Media Player application and turn the audio on when user maximizes the application.
- Select the **Aspect ratio** of the video from the drop down options.
- Select the **Monitoring view** from the options of only number or logo with number.

Then Click on **Apply** to save the changes.

Media



- You can browse and define a path for storage of **snapshot** as shown in the screen below.
- You can browse and define a path where you want to store the **exported** files.

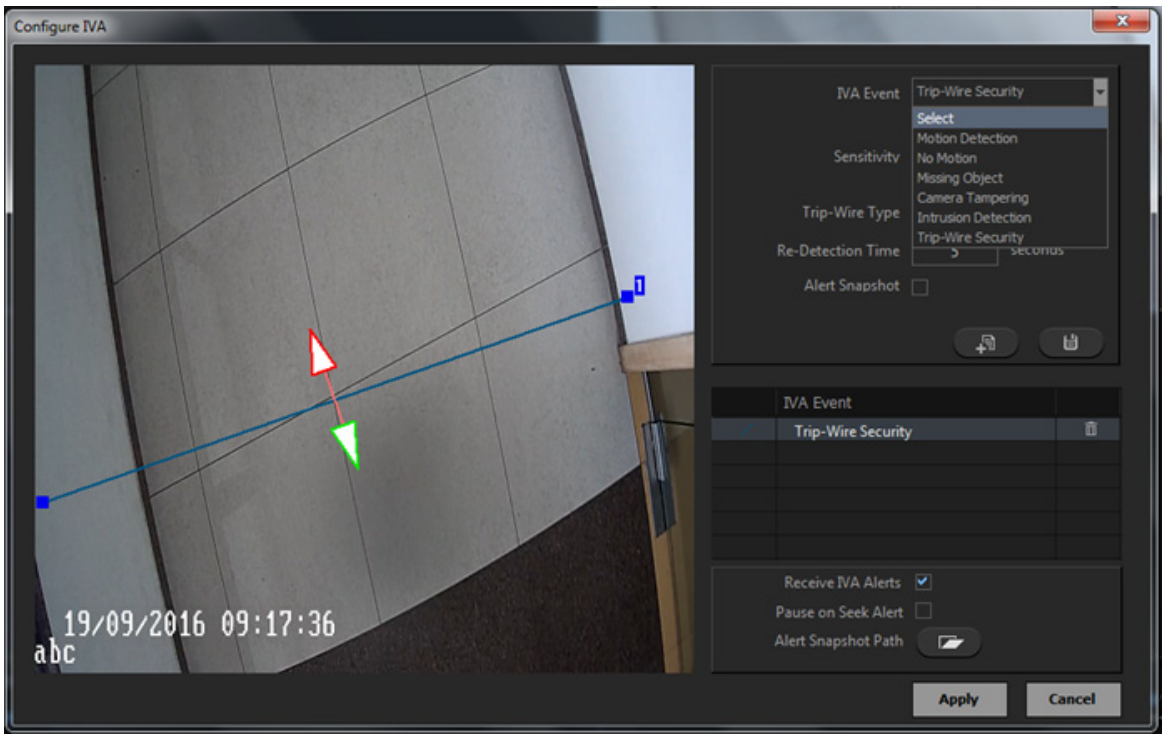
Once done click **Apply** to save the path.

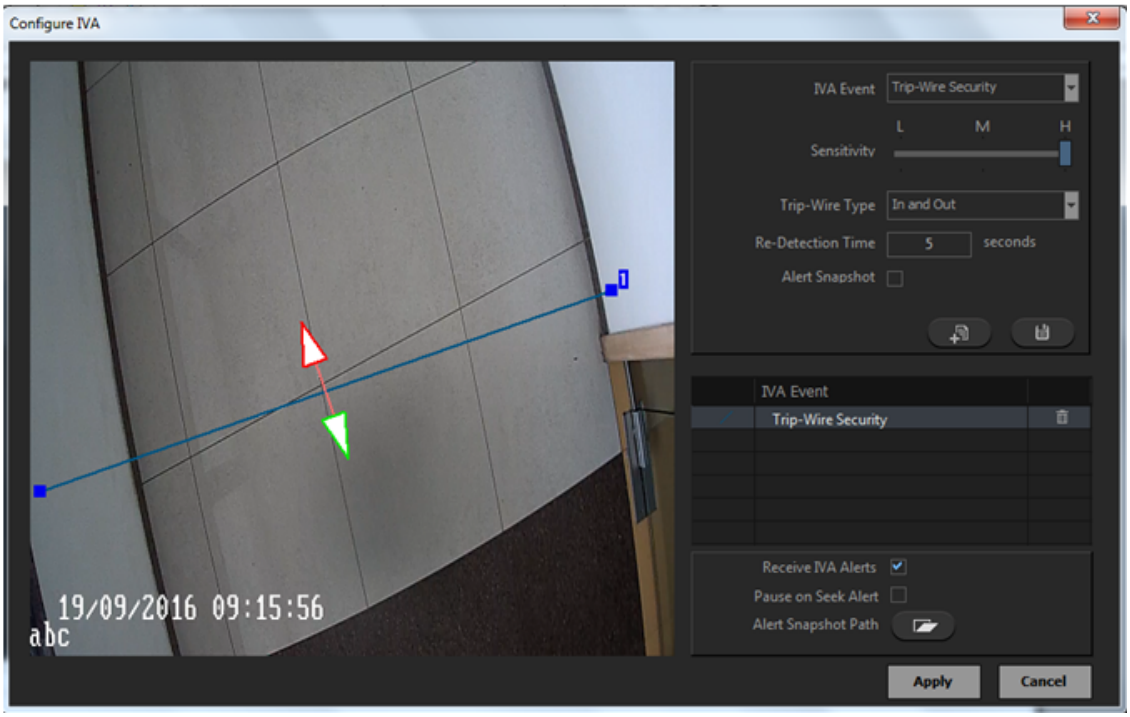
IVA Options

The Intelligent Video Analytics (IVA) provides analytics of **motion detection, no motion, missing object, camera tampering, intrusion detection** and **trip wire security.**

The IVA processing will not be done for the custom resolution. i.e If a user has configured custom resolution into camera then, all the (video) frames will be discarded by IVA and the events will not be generated.

For IVA options, click on Configure IVA. The IVA operations page appears as shown below.





The IVA operations of Motion detection, No Motion, Missing Object, Camera tampering, Intrusion detection and Trip-wire Security can be selected from the dropdown list of IVA feature.

Then Specify the **Minimum detection area** for the video analytics zone. The default minimum width and minimum height is 10 pixels and **Sensitivity** from the options of High, Medium and Low.

Check the **Alert Snapshot** box if the snapshot is to be taken.

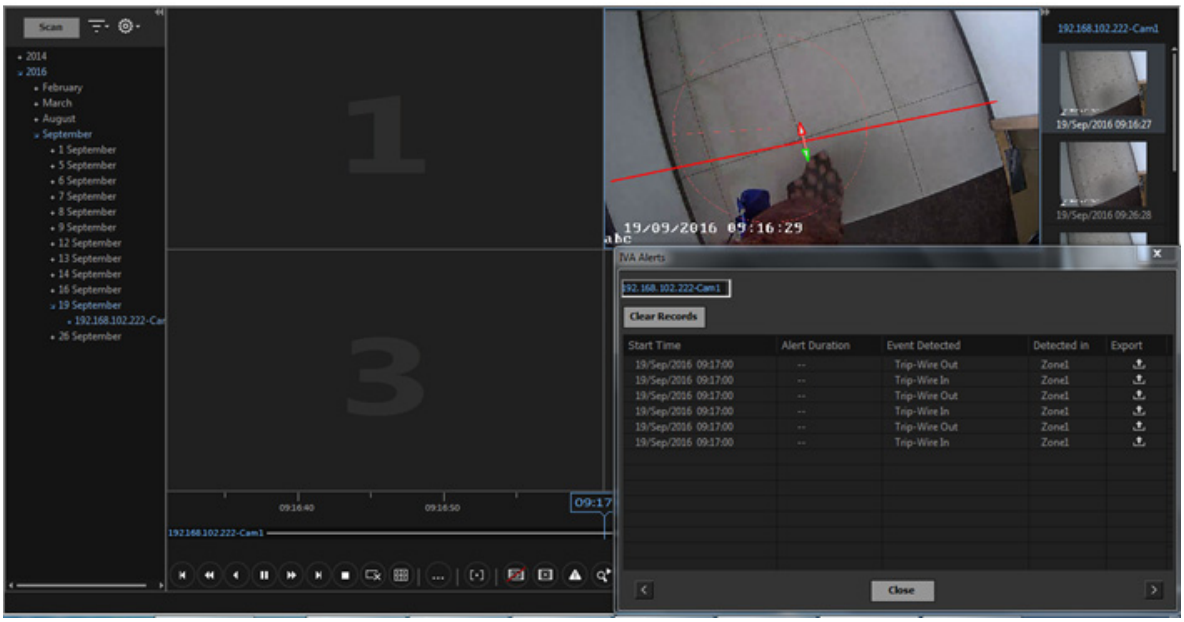
Then select the area from the window where the IVA feature is to be detected. Click **Add to list** to add the features to the list. Then Click **Apply**.

Check the **IVA Alerts** box to receive the video analytics alerts.
Check the **Pause on Seek Alert** box. This can be enabled only when IVA alert is enabled.

The Alert snapshots can be viewed by browsing the **Alert Snapshot path**.Then Click on **OK** to save the settings.

The set zone can be deleted by right clicking on the box. Clicking on **Delete All** will delete all the set zones.

When playback of video is started, then IVA alert if generated will be shown at the set zone.



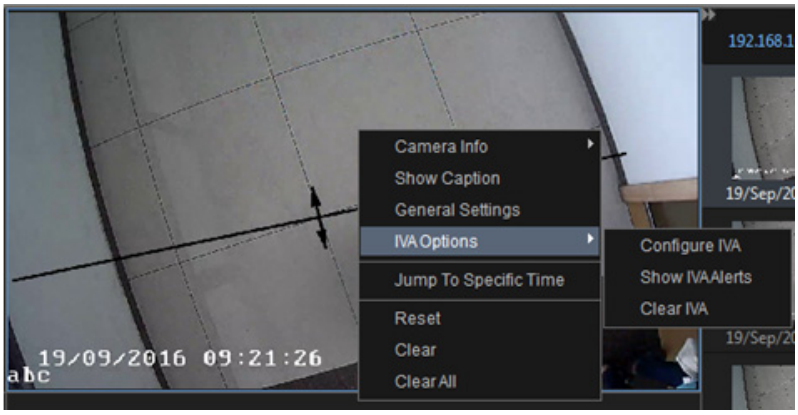
The **Motion Detection** is to detect any type of motion. The object detection includes 2 scenarios: First, if an object is present at the place and after some time object is removed, then **object missing** is detected. Second, if nothing is present at a place and after some time an object is kept at that place, then **presence of object** is detected.

The **Intrusion Detection** generates alerts upon detecting people or vehicle intrusions into a secure area.

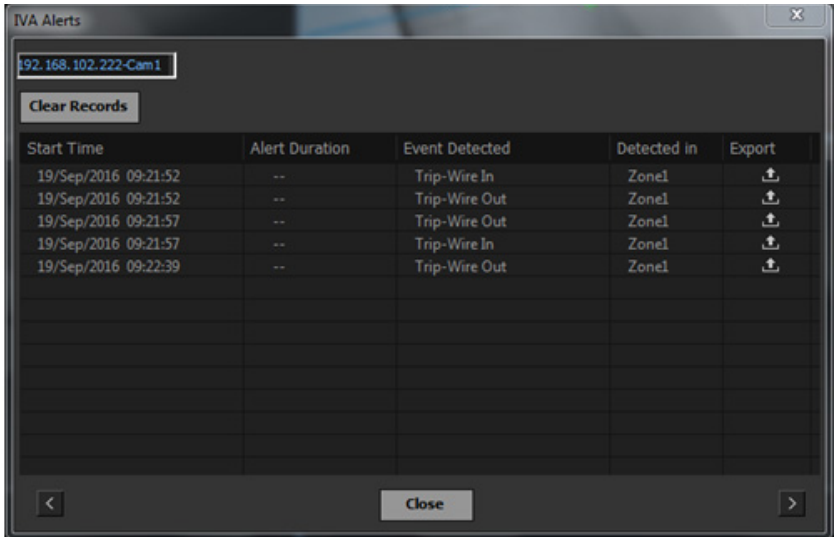
The **Trip Wire security** detects if an Object Moves from inside the selected Perimeter to the region outside it and vice versa.

Now once an IVA event is configured, right click on the screen. The IVA Settings displays three options.

The IVA Options for all the events will work with the video speed of 1x only. The speed will automatically changed to 1x if user is trying to configure the analytics with any other video speed.



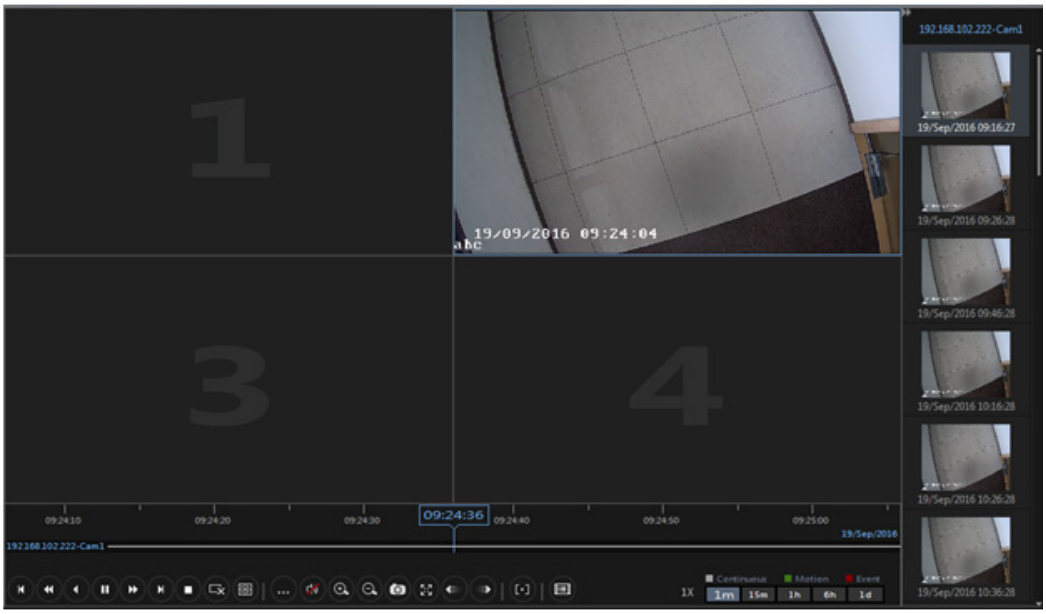
- **Configure IVA**- To Stop all the IVA operations so that user can reconfigure the IVA operations.
- **Show IVA Alerts**- To view the IVA alerts window as shown below.



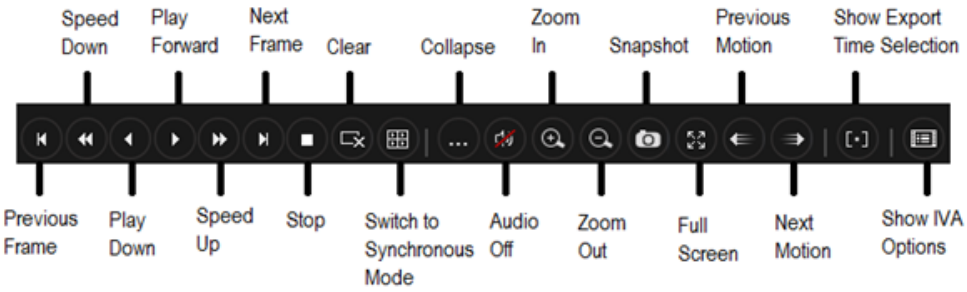
- **Clear IVA-** To Remove the IVA zones and clear the IVA configuration. When IVA Alerts window is open then Right Click menu displays the Clear IVA Alerts option.

Thumbnail Objects

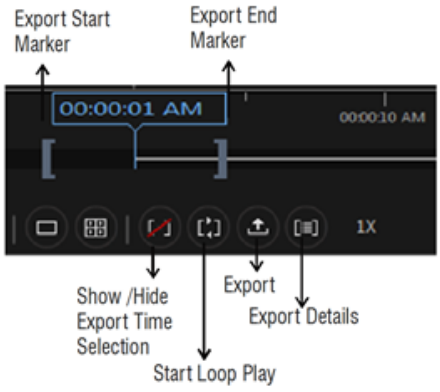
Thumbnail Objects for the selected Camera are created approximately after every 10 minutes for the available Records depending upon the first available Record. The user can play the video using the thumbnail objects by double-clicking on the same as shown below:



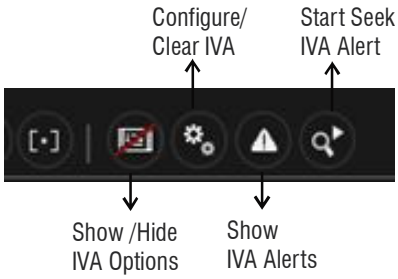
Playback Toolbar



Export Time Selection



IVA Options



Playback Controls	Description
Previous Frame	Display I-frame previous to the current frame
Speed Down	Decrease playback speed of video being played in either directions (forward or reverse). Reduce the speed by half at each click i.e. to 1/2x, 1/4x, 1/8x, 1/16x, etc. for playback in forward direction and to -1/2x, -1/4x, -1/8x, -1/16x, etc. for playback in reverse direction
Play Reverse	Play recorded video in reverse direction at normal speed.
Play Forward	Play/Resume video in forward direction at normal speed
Pause	Pause video at the current frame.
Speed Up	Increase playback speed of video being played in either direction (forward or reverse). Double the speed at each click i.e. to 2x, 4x, 8x, 16x, etc. for playback in forward direction and to -2x, -4x, - 8x, -16x, etc. for playback in reverse direction.
Next Frame	Display I-frame next to the current frame
Reset	Stop the ongoing record, and move the seek mark of the timeline to the beginning of the record
Clear	Stop the playback and close the camera from the playback window
Audio On/Off	Start or Stop the audio of the recording. *The Audio On will work at 1x speed of the video only. If a user increases the video speed then, the audio will turn of automatically till the speed is again changed to 1x.*
Zoom In	Digital Zoom In the live view.
Zoom Out	Digital Zoom Out the live view.
Snapshot	Capture the snapshot of the current video being displayed
Full Screen	Switch the current layout to the full screen view of the camera in the selected monitoring window
Previous Motion	View the previous motion
Next Motion	View the next motion
“Switch to Synchronous Mode”	Start the Synchronous playback of the videos

Playback Controls	Description
“Show Export Time Selection”	Display the export markers on the timeline to mark the start and end time for the video to be exported
“Start Loop Play”	Play the video between start marker and end marker repetitively
“Export”	Export the video clip in AVI format
“Export Details”	View the export details of the recording
Show IVA Options	Shows the IVA options along with Playback Controls
“Configure IVA”	Configure or Clear the IVA feature
Show IVA Alerts	View the IVA Alerts
“Start Seek IVA Alert”	To start the IVA Alert

Click on the respective links in the table for more details.

Switch to Synchronous Mode

The synchronous playback of all the videos being played is started in time synchronism with the selected playback window (master window). Click on **Switch to Synchronous mode** from the Playback toolbar to start the playback in Synchronous mode. In this mode you can export the recording clips of multiple cameras when the playback is being played. For export in synchronous mode See “Export” on page 13.

By default, all the videos are played in Asynchronous mode.

The asynchronous playback can be resumed by clicking **Switch to Asynchronous mode** button.

Show Export Time Selection

This is available in Asynchronous playback only.

To play the video in loop or repetitive playback and export the playback recording, click on Show Export Time selection.

Start Loop Play

The Export time selection places the export start marker and export end marker on the timeline. Clicking on Start Loop Play button will start the video within the marker range i.e. the video between export start marker and export end marker will be played repetitively in a loop.

For example: the start marker is at 00:00:20 AM and end marker is at 00:00:26 AM as shown below. So the loop playback will run for the marker range.

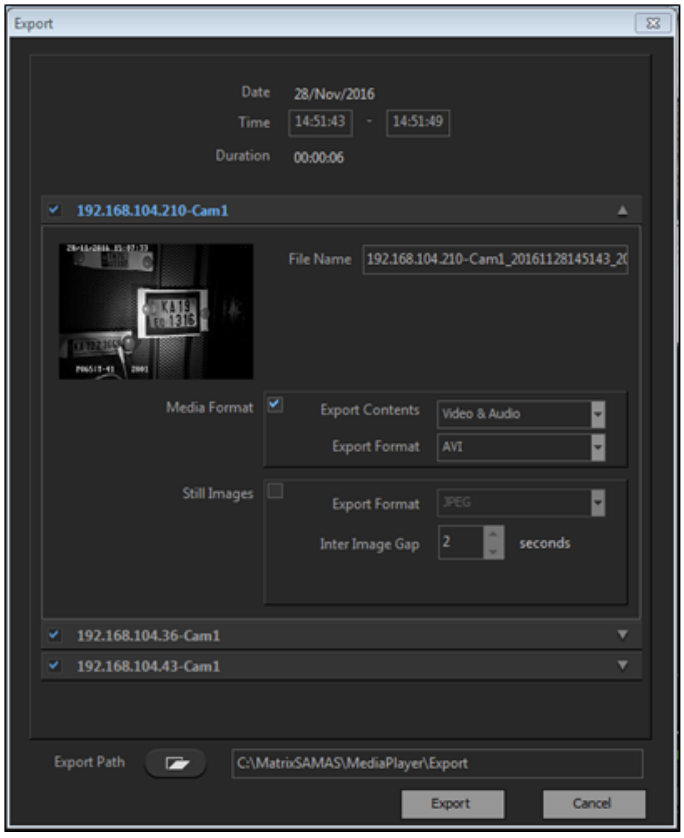
Export

The Export feature is useful when a user wants to export a portion of a video that has recorded a critical incident so that immediate action can be initiated by the recipient to counter the incident. Click on **Export** button to export the playback recording.

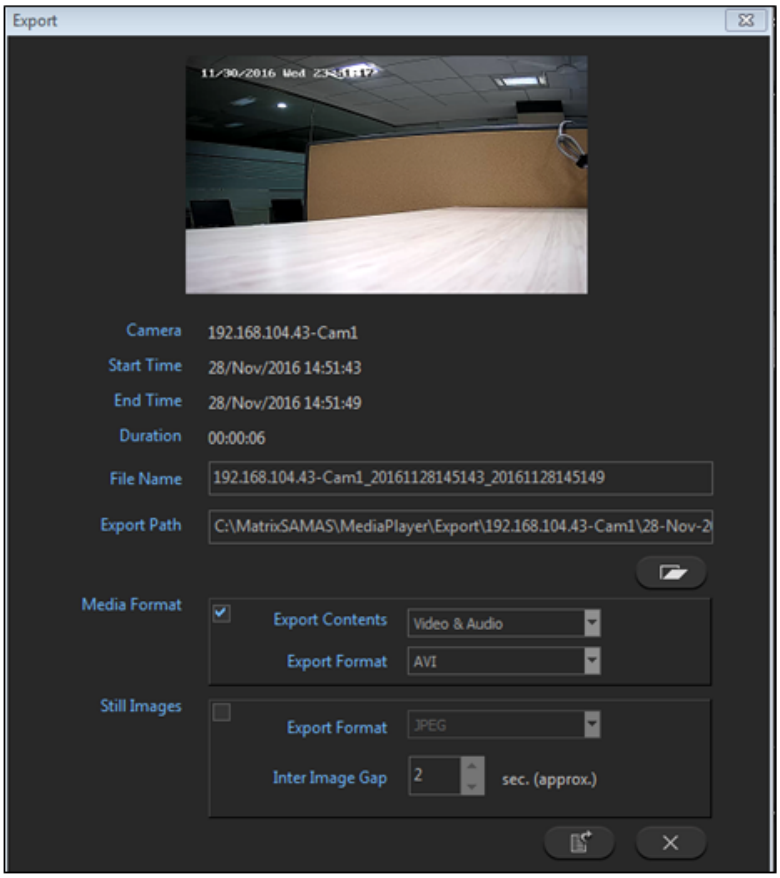
You can export the playback of multiple cameras at a same time into the exported file in the **Synchronous** as well as in **Asynchronous Mode.**

For **Synchronous Mode**, the playback for all the selected cameras will be exported for the same time duration. Whereas in **Asynchronous Mode,** you can configure the different time duration for each selected cameras individually.

The Export window for **Synchronous mode** appears as shown below. Clips of multiple cameras can be exported with Synchronous mode as shown below.



The export window for **Asynchronous mode** is as below.



- **Camera**: This displays the name of the camera whose clip is to be exported.
- **Start Time**: This displays the Start Time of the playback to be exported.
- **End Time**: This displays the End Time of the playback to be exported.
- **Duration**: The total duration according to the configured Start Time and End Time is displayed here.
- **File Name**: Specify the desired File Name.
- **Export Path**: Click **Export Path** to select the desired folder to save the exported file.

Media Format

Select the check box to export the playback file as a Video.

- **Export Contents**: Select the Export Content format from the drop-down list—Video & Audio or Video only.
- **Export Format**: This displays the AVI option.

Still Images

Select the check box to export the playback file as still images.

- **Export Format:** Select the Export Format from the drop-down list — JPEG or PDF.

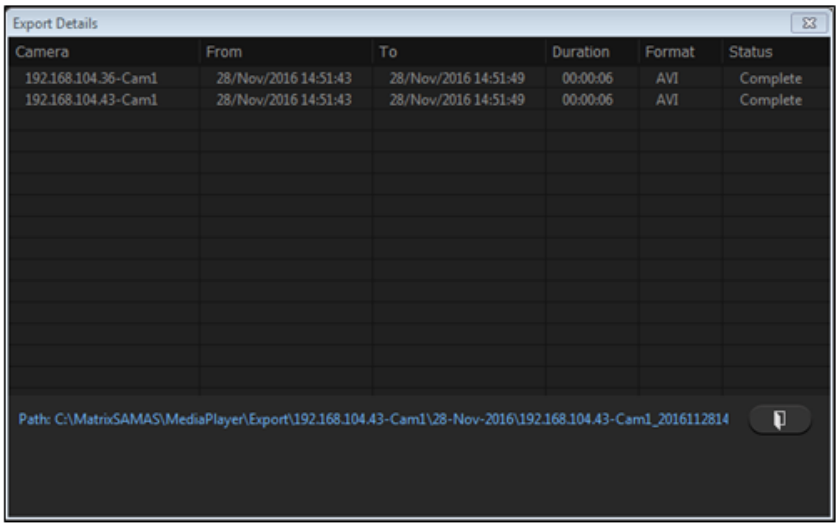
- **Inter Image Gap:** Specify the time in seconds as a gap after which images will be extracted from the playback.

The customized logo will be reflected in pdf file instead of MATRIX logo only if it is configured in Admin Client.

- Click **Export** to export the file on specified path.

Export Details

Click on Export Details buttons to view the details of the video exported. It shows the camera details, Start and End Date-Time, Duration of recording, format of the video exported and the status of export.



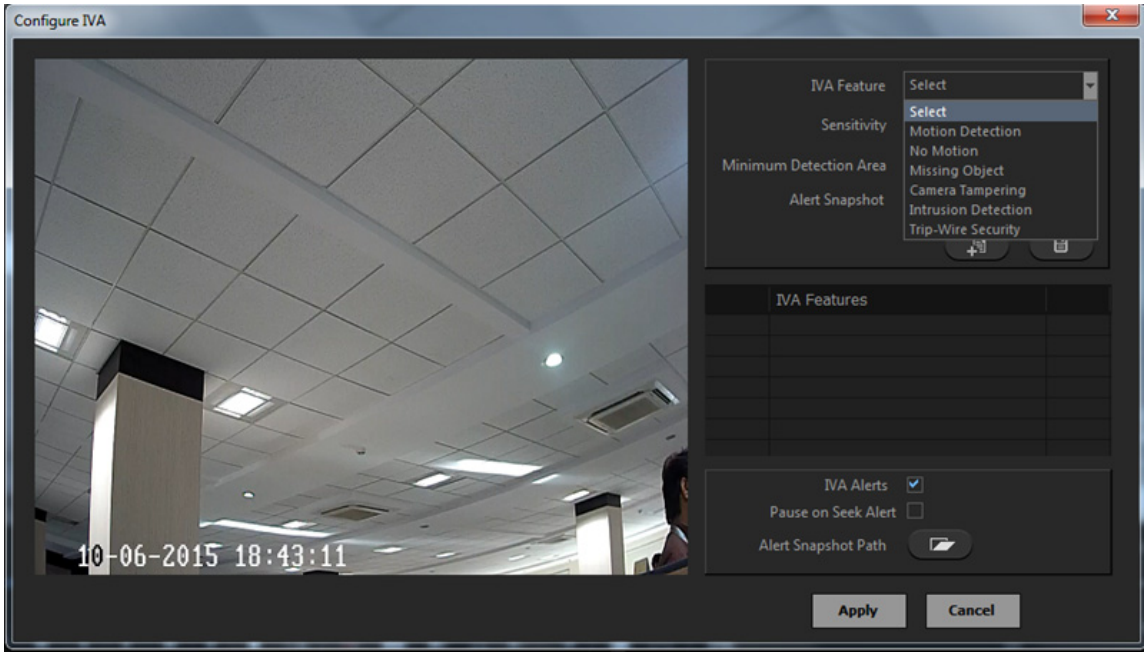
Click on **Open Export Directory** to open the folder location of the exported file.

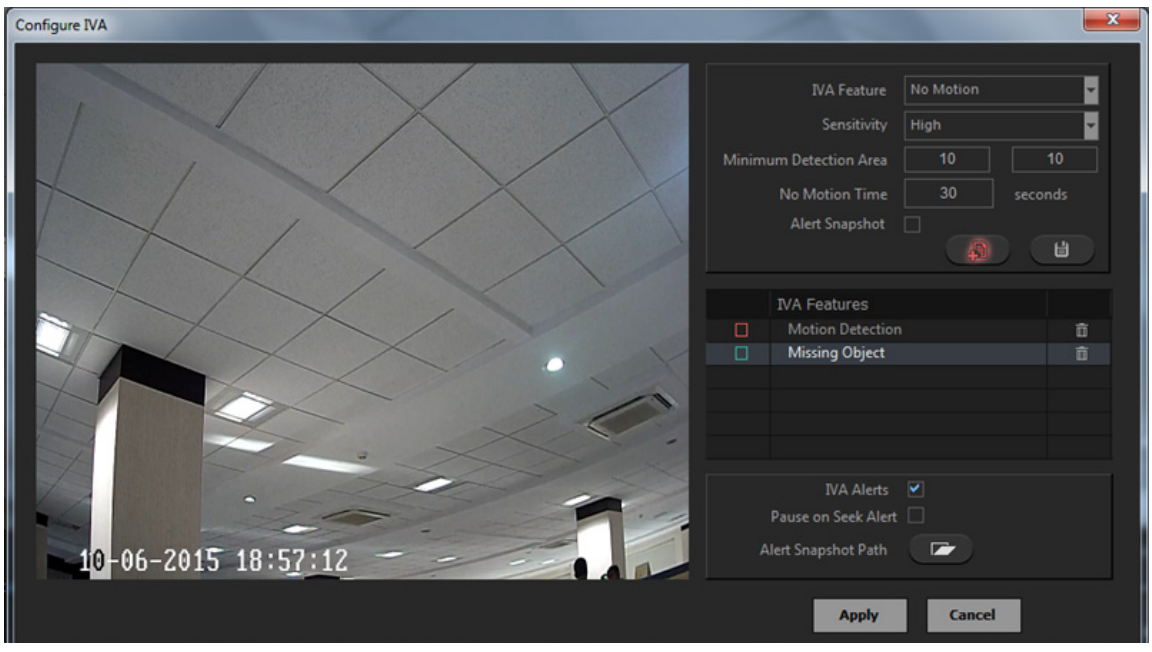
Configure IVA

The Intelligent Video Analytics (IVA) provides analytics of IVA features such as **motion detection**, **no motion, object detection, camera tampering, intrusion detection** and **trip wire security**.

The IVA processing will not be done for the custom resolution. i.e If a user has configured custom resolution into camera then, all the (video) frames will be discarded by IVA and the events will not be generated.

Click on **Configure IVA** from the Playback Toolbar. The IVA operations page appears as shown.





The IVA Options for all the events will work with the video speed of 1x only. The speed will automatically changed to 1x if user is trying to configure the analytics with any other video speed.

Select the IVA feature from the drop down list.Then Specify the **Minimum detection area** for the video analytics zone. The default minimum width and minimum height is 10 pixels and **Sensitivity** from the options of High, Medium and Low.

In case of No Motion feature, set the **No motion time** in seconds which is the time for which if no motion is detected then IVA Alert for No motion will be generated.

Check the **Alert Snapshot box** if the snapshot is to be taken.

Then select the area from the window where the IVA feature is to be detected.
Click Add to list to add the features to the list. Then Click Apply.

Check the **IVA Alerts** box to receive the video analytics alerts.
Check the **Pause on Seek Alert** box. This can be enabled only when IVA alert is enabled.

The Alert snapshots can be viewed by browsing the **Alert Snapshot path**.

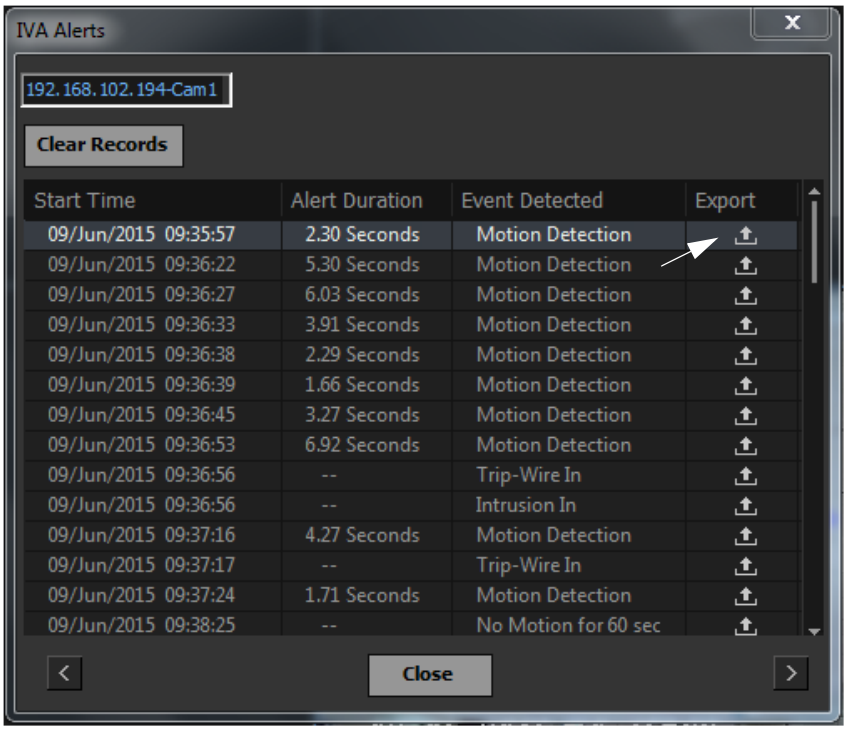
Then Click on OK to save the settings.

The set zone can be deleted by right clicking on the box. Clicking on Delete All will delete all the set zones.

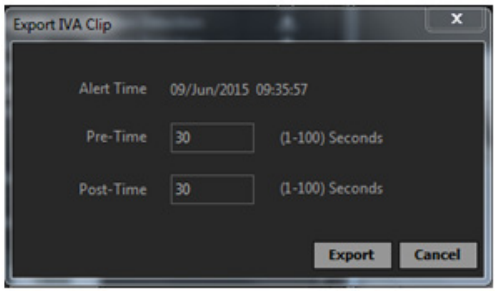
When playback of video is started, then IVA alert if generated will be shown at the set zone.

Exporting IVA Clips

All IVA alerts and their details can be viewed on the IVA Alerts pop-up as shown below.



User can export the clip pertaining to an IVA alert using the **Export** button. The exported IVA clip shall start number of seconds preceding the Alert Time as specified in **Pre-Time** and end number of seconds after the alert time expires, as specified in **Post-Time**. The clip can then be saved at a desired location in the AVI format.



Start Seek IVA Alert

Once the IVA Operations are configured and applied on the Record to seek IVA Alerts for the configured IVA Operations.

When User clicks on Start Seek IVA Alert, then Playback Record will start at the maximum possible speed and pause the Playback when first IVA Alert is triggered as per configuration if the checkbox of Pause on Alert is enabled, if this checkbox is not enabled then Seek IVA Alert would continue playing the records in fast mode and would just populate the list of IVA Alerts if the checkbox of IVA Alerts is enabled in configuration of IVA Settings.

When user selects the Stop Seek IVA Alert option then Play speed for the record should be switched from fast forward mode to 1x.

*While IVA operation is running, the playback speed of the video may not increase as per the speed selected via **Speed Up** option from the toolbar.*

Timeline Compressor

The timeline can be compressed by selecting the timeline compressor. The options available are

- 1 minute
- 15 minutes
- 1 hour
- 6 hour
- 1 day

To view the small details of recording set the timeline at 1 minute. To view the broad details set the timeline at hourly basis or daily basis.

MATRIX COMSEC

Head Office
394-GIDC, Makarpura, Vadodara - 390010, India.
Ph:(+91)18002587747
E-mail: Tech.Support@MatrixComSec.com

Website: www.matrixcomsec.com