

#### Security Management System -Managing Infinova 307X NVR channels

This document describes steps to configure Infinova 307X NVR cameras in Security Management System software.

Note – 'Microsoft Visual C++ 2015 Redistributable (x86)' needs to be manually installed on all server computers and all client workstation computers, in the system which includes Infinova 307X NVR channels.

## Video display in Security Management System server software

By default, video display for 'Infinova 307X NVR' channels is disabled in the Security Management System server software; since most of the server computer hardwares do not have sufficient graphics capabilities.

To enable video display for 'Infinova 307X NVR' channels in Security Management System server software, please navigate to 'Server settings -> Preferences Camera 2' page from the left hand side navigation menu.

192.168.0.75	Server settings → Preferences (Camera 2)
Office103	<u> </u>
Alarm management	▲ Visable Infinova 306X DVR channel live video viewing
Data management	Disable Infinova 306X DVR channel playback video viewing
Remote backup	🔽 Disable Infinova 307X NVR channel live video viewing
Tasks	🔽 Disable Infinova 307X NVR channel playback video viewing
Linked servers	
Server settings	Enable encryption and tampering detection
Import and Export	
Resources	Advanced capture jitter control – major streams
Preferences	Advanced capture jitter control – minor streams
Preferences (Camera 1)	Advanced display jitter control – major streams
Preferences (Camera 2)	Advanced display jitter control – major screams
Preferences (Notifications)	
Preferences (Playback)	
Preferences (Logs)	Re-connection wait interval: 30 seconds
Computer maintenance	
Time synchronization	
Scheduled maintenance	
Resource monitoring	
Video paporama	

Click on 'Edit' button to enable controls.

Un-tick "Disable Infinova 307X NVR channel live video viewing" checkbox Un-tick "Disable Infinova 307X NVR channel playback video viewing" checkbox. And click on 'Save' button to save the settings.



Notes -

(a) When video viewing is disabled for 'Infinova 307X NVR' channels, the Security Management System server software displayed black video with 'Disabled' message embedded in it.

(b) Just enabling the video viewing for 'Infinova 307X NVR' channels in the Security Management System server software does not ensure video display.

Whether videos from 'Infinova 307X NVR' channels are displayed successfully, depends on the server computer hardware capabilities. If server computer hardware is not compatible, videos for 'Infinova 307X NVR' channels will not be displayed. Either black window or a blank window will be displayed in such cases. It is recommended to switch back to default configuration in such cases, to disable video viewing of 'Infinova 307X NVR' channels.



# Adding Infinova 307X NVR channels in Security Management System server software

Please navigate to 'Video devices-> Channels' page from the left hand side navigation menu.

192.168.0.75	2	Video	device	es → Channels						
Office103	2	_			<b>a</b> 1				00 00	
Video devices	^	1	7 9	7 🗶 🖉	<b>F</b>	Ψ	🍤 🖹 🗙		<b>7</b> X	
🕨 Channels		Si	r No.	Channel Name	Camera	Status	Channel ID	Description	Video Streai	Ъ
Sequences										_
Stream Profiles		_								-0
Audio devices										
Device groups										
Alarm groups		_								
Status										5
Reports and Export										^
Communication										Û
Security devices		<	_							J.
Keyboards and Joysticks		•							2	×
Users and Privileges		Lice	ense i	nformation:						
Alarm management				VMS ch	annels	VA add-o	on			
Data management			cense			1024				
Remote backup			sed alance	0 1024		0 1024				
Tasks		D	arance	1024		1024				
Linked servers										
Server settings	~									

Click on the 'Add video channel...' button to pop-up 'Add video channel' dialog box

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The Integra	tor's Manufacturer

Add video channel			×
Channel Name: Channel ID:	20007 00.	mera n055	
Channel Description:	Lobby Car		
Video Source Type:	Infinova N	VR 307X	~
IP address:	192 . 16	8.1.182	
User Name:	admin		
Password:	••••		
Channel number:	1		
Display stream 1		Display stream 2	
Stream type: H264-Minor stream	~	Select stream:	Use different stream $\lor$
		Stream type:	H264-Major stream V
Recording stream		Motion detection	and video analytics stream
Select stream: Use display stream 1	L ~	Select stream:	Use display stream 1 $$ $$ $$ $$ $$ $$
Stream type: H264-Major stream	$\sim$	Stream type:	H264-Major stream $\vee$
	<b>*</b>	0	20 M

Type 'Channel Name' – any string which identifies or shortly describes the camera. Keep 'Channel ID' unchanged, to use the default Type 'Channel Description'

Select 'Video Source Type' as 'Infinova NVR 307X' from the available options.

Type 'IP address' of the target 'Infinova 307X NVR' Type 'User name' and 'Password' which will be used to connect to the target NVR Type 'Channel number' of the target camera

Select "Stream type" for "Display stream 1" and "Display stream 2" from available options. Select "Recording stream" and "Motion detection and video analytics stream". It is recommended to use these selections, exactly as per the screenshot above.

Click on the 'Add video channel' button, to finish adding the channel.

Software will connect to the target NVR channel and upon successfully connecting, it will popup recording settings dialog box.

	The Integrator's Manufacture
Recording settings - Lobby Camera	×
Channel details Channel ID: VC_Cam055 Channel Description: Lobby Camera Video Source Type: Infinova NVR 307X Recording Drive: E:\	
Recording mode         C Continuous       No recording         From video source       Rule based         Scheduled       V	
Recording schedule settings Scheduled recording is disabled	
Record on alarm settings Record on alarm is disabled	

Select 'Recording mode' as 'From video source'. The 'Security Management System' server software will NOT record camera video stream locally, instead it will access video recordings directly from Infinova 307X NVR when needed.

Click on 'Save' button to confirm recording settings update for the newly added channel.

Newly added channel will be visible in the 'Video channels' list page and separate link for this channel will be available in the left-hand side panel

192.168.0.75	2	Video devices →	Channels	•				
Office103	2					0		
Video devices	^	<b>~</b>	🥖 💉 🧃	₿ 📉	Y V	8== 🗡		* *
Channels		Sr No. Cha	nnel Name C	amera Stat	tus Char	nnel ID	Description	Video Strea
Lobby Camera		1 Lobl	by Camera 🛛 E	nabled	VC_0	Cam055	Lobby Cam	Infinova NVI
Sequences								
Stream Profiles								
Audio devices								
Device groups								
Alarm groups								
Status								
Reports and Export								
Communication		<				_		>
Security devices								,
Keyboards and Joysticks		License inform	nation:					
Users and Privileges			VMS char	nels VA	add-on			
Alarm management		Licensed	1024	10	24			
Data management		Used Balance	1 1023	0	24			
Remote backup		balance	1025	10	27			
Tasks								
Linked servers	~							

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Same steps can be used to add more Infinova 307X NVR channels to Security Management System server software.



# Adding multiple Infinova 307X NVR channels

Multiple Infinova 307X NVR channels can be added using 'Add multiple video channels...' button.

192.168.0.75	2	Video devi	ces → Channels						
Office103	2								
Video devices	^	- <b></b>		39		🍤 🖹 🗙		<b>~</b> X	
Channels		Sr No	Channel Name	Camera	Status	Channel ID	Description	Video Strea	٤
Lobby Camera		1	Lobby Camera	Enable	d	VC_Cam055	Lobby Cam	Infinova NVI	
Sequences									Ξ
Stream Profiles									
Audio devices									e
Device groups									
Alarm groups									Ŀ
Status									
Reports and Export									1
Communication									ſ
Security devices		<						>	
Keyboards and Joysticks		License	information:						
Users and Privileges			VMS	channels	VA add-o	n			
Alarm management		Licen			1024				
Data management		Used Balan	1 ce 1023		0 1024				
Remote backup		balan	1023		1024				
Tasks									
Linked servers	~								

Please click on the 'Add multiple video channel...' button. This will popup 'Add Multiple Video Channels' dialog box.

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Add Multiple	Video Channels					×
	Video Source Type:	Infinov	a NVR 307X		<b></b>	
	IP address	192 .	168 . 1 . 182			
	Channel number:	1		-		
	Configured channels:	Sr No.	IP address	Channel number	*	
	User Name:	admin				
	Password	•••••				
Display stre	eam 1		Display stream	n 2		
Stream t	E.	~	Select stream	1	n v	
			Stream typ	e: H264-Major stream	~	
Recording s	tream		Motion detect	ion and video analytics s	stream	
Select stre	-	1 ~	Select stream			
Stream t	ype: H264-Major stream	~	Stream typ	e: H264-Major stream	~	
					20	
		-			10	

Select 'Video Source Type' as 'Infinova 307X NVR' from available options Type 'User name' and 'Password'.

Click on 'Add cameras from IP range' button. This will popup 'Add cameras in IP range' dialog box.

Add cameras in IP range		×
Start IP address:	192.168.1.182	
End IP address:	192.168.1.182	
	els from the devices address will be added	
4		



Type the IP address range.

Here in this example we kept 'Start IP address and 'End IP address' same so that all channels from single Infinova 307X NVR (IP: 192.168.1.182) will get selected

Click on the 'Add' button which will connect to the specified Infinova 307X NVRs, and will connect to the NVRs and add all available channels to the list.

IP address:		Video Source Type:	Infinova	NVR 307X		×
Channel number: Configured channels: Sr No. IP address 60 192.168.1.182 60 61 192.168.1.182 61 62 192.168.1.182 62 63 192.168.1.182 63 64 192.168.1.182 64 User Name: admin Password: User Name: Admin Password: Stream type: H264-Minor stream Stream type: H264-Minor stream Stream type: H264-Minor stream Stream type: H264-Minor stream Stream type: H264-Major stream Select stream: Use display stream 1 Select stream: Use display stream 1 Select stream: Use display stream 1 Stream type: H264-Major stream Select stream: Use display stream 1 Select stream: Use display stream 1 Selec		IP address:				
Sr No.       IP address       Channel number         60       192.168.1.182       60         61       192.168.1.182       61         62       192.168.1.182       63         64       192.168.1.182       64         User Name:       admin         Password:       •••••         Display stream 1       Stream type:       H264-Minor stream         Stream type:       H264-Minor stream       Stream type:       H264-Major stream         Select stream:       Use display stream 1       Motion detection and video analytics stream         Select stream:       Use display stream 1       Select stream:       Use display stream 1		Channel number:			<b>50</b>	
60       192.168.1.182       60         61       192.168.1.182       61         62       192.168.1.182       63         64       192.168.1.182       64         User Name: admin         Password:       •••••         Display stream 1       Display stream 2         Stream type:       H264-Minor stream       Stream type:         H264-Minor stream       Motion detection and video analytics stream         Select stream:       Use display stream 1       Select stream:		Configured channels:	Sr No.	ID address	Chappel number	^ <b>2</b>
61       192.168.1.182       61         62       192.168.1.182       62         63       192.168.1.182       63         64       192.168.1.182       64         User Name: admin         Password:       •••••         Display stream 1       Stream type:       H264-Minor stream v         Stream type:       H264-Minor stream v       Stream type:       H264-Major stream v         secording stream       Stream type:       H264-Major stream v       Stream type:         Select stream:       Use display stream 1       v			2005-00 0 CONT			
62       192.168.1.182       62         63       192.168.1.182       63         64       192.168.1.182       64         User Name: admin         Password:       •••••         Display stream 1       Display stream 2         Stream type:       H264-Minor stream v         Stream type:       H264-Minor stream v         Stream type:       H264-Major stream v         Select stream:       Use different stream v         Select stream:       Use display stream 1						_
64       192.168.1.182       64         User Name:       admin         Password:       •••••         isplay stream 1       Display stream 2         Stream type:       H264-Minor stream v         H264-Minor stream       Stream type:         H264-Major stream       v         Stream type:       H264-Major stream v         Stream type:       H264-Major stream v         Select stream:       Use display stream 1         Select stream:       Use display stream 1						
User Name: admin Password: ••••• Stream type: H264-Minor stream v Eccording stream Select stream: Use different stream v Stream type: H264-Major stream v Motion detection and video analytics stream Select stream: Use display stream 1 v			63	192.168.1.182	63	
Password: •••••  iisplay stream 1 Stream type: H264-Minor stream  Stream type: H264-Minor stream  Gtream type: H264-Major stream  Stream type: H264-Major stream  Select stream: Use display stream 1 Select stream: Use display stream 1			64	192.168.1.182	64	v 🔀
bisplay stream 1       Display stream 2         Stream type:       H264-Minor stream         H264-Minor stream       Select stream:         Use different stream       Stream type:         H264-Major stream       Motion detection and video analytics stream         Select stream:       Use display stream 1         Select stream:       Use display stream 1		User Name:	admin			
bisplay stream 1 Stream type: H264-Minor stream v Stream type: H264-Minor stream v Stream type: H264-Major stream v Stream type: H264-Major stream v Motion detection and video analytics stream Select stream: Use display stream 1 v		Deceword				
Select stream: Use display stream 1 v Select stream: Use display stream 1 v	bu com cy					
	lecording st	ream		Motion detection	on and video analytics	stream
Stream type:     H264-Major stream     Stream type:     H264-Major stream		am: Use display stream 1	~	Select stream	n: Use display stream	n 1 ~
	Select strea	DO: UDEA Major stroom	~	Stream type	H264-Major stream	n 🗸
		Pe. H204-Major stream				
		Pe. H204-Major stream				
		Pe. H204-Major suream				
		Pe. E204-Major suream				
		Pe. H204-Major stream				

Click on 'Add' button to complete adding all selected channels to the Security Management System server software.

Newly added channels will be visible in the 'Video channels' list page and separate link for each of these channels will be available in the left-hand side panel



192.168.0.75	2	Video devic	es → Channels						
Office103	2		1 × ×					20 20	
Video devices	^	<b>*</b>	🍃 🙋 🧖	<b>B</b>	\[         \]     \[	<b>%</b> 🗄	<u>~</u>	4 🗙	
Channels		Sr No.	Channel Name	Camera	a Status	Channel ID	Description	Video Str ^	٣,
Lobby Camera		54	Cam108	Enable	d	VC_Cam108	3 Cam108	Infinova I	
Cam056		55	Cam109	Enable		VC_Cam109	9 Cam109	Infinova I	-0
		56	Cam110	Enable		VC_Cam110		Infinova I	
Cam057		57	Cam111	Enable		VC_Cam111		Infinova I	
Cam058		58	Cam112	Enable		VC_Cam112		Infinova I	
Cam059		59	Cam113	Enable		VC_Cam113		Infinova I	
Cam060		60 61	Cam114 Cam115	Enable		VC_Cam114 VC Cam115		Infinova I Infinova I	
Cam061		62	Cam116	Enable		VC_Cam116		Infinova I	
Cam062		63	Cam117	Enable	d	VC_Cam117		Infinova I	$\mathbf{\hat{c}}$
Cam063		64	Cam118	Enable	d	VC_Cam118	3 Cam118	Infinova I	
		<						>	÷
Cam064									
Cam065		License	information:						
Cam066			VMS	channels	VA add-	on			
Cam067		License		Ļ	1024				
Cam068		Used	64		0				
Cam069		Balanc	e 960		1024				
Cam070									
Cam071									



#### Security Management System client software

Execute 'Security Management System' client software and login to the server using user credentials for any of the 'Operator' privilege user configured in the Security Management System server software

Securi	ty Management S	ystem - Client (User	op,Privilege=C	Operator) - (CCTV k	eyboard screen index 1)						-	
Applic	ation	Layout	Navigation	Setting		Active alarms	Video Panorama	Help		Live video Current time:	2018/11/1	19 18:21:27
< Camera	- 5° Cam0 - 5° Cam0	els 182 Camera (1 View) 57 (1 View) 58 (1 View) 59 51 52 53 54 55 55 55 55 56 56 57 58 58 58 58 58 58 58 58 58 58	1- Lobby Ca Gamu220 2018-11		//				X         2: Cam037           2: Cam037         2: Cam039           3: Cam039         2: Cam039           Yearch         2: Cam039           Yearch         2: Cam039           Yearch         2: Cam039           Yearch         3: Yearch           Yearch         3: Yearch           Yearch         3: Yearch           Yearch         3: Yearch			×
Alarms	Notifications											
	Alarm Type	Alarm Name	Alarm ti	me	Site ID	Site Name	Source ID	Source Name	Generator ID	No acti	ve alarm.	
<									>			

After successful login, main screen will be displayed.

Click on the 'Settings -> Settings...' menu.

Application	Layout	Navigat	tion	Settings		Scree	ns
				Settings			Da
				Server infor	mati	ion	
		 1-		Clear alarm	list		
<ul> <li>Site_2C44FD7BI</li> </ul>	EC7B(192.168.0.76)			Local seque	ence	s	
🗸 🖣 Device grou	ips			Local camer			
> 🕒 CG_AIIC	hannels			Local caller	a yı	oups	

This will pop up the 'Settings' dialog box.

Navigate to the 'User interface settings (Client) -> Screen settings' menu. Click on the 'Edit' button which will enable the GUI elements.

Ensure that 'Use main screen as live screen' is ON.

Click on the 'Save' button to save the changes.

Click on the 'Close' button to close the Settings dialog box.

Close the client software and re-start it, to get the latest updated applied.



Site_2C44FD7BEC7B V	User interface settings(Client) → Screen settings	
Video devices		
Audio devices		
Device groups		
Alarm groups	Total live video screens:	
Status	Total playback video screens:	
Reports and Export	Maximum number of cameras in live screen:	16
Communication	Maximum number of cameras in playback screen:	4
Keyboards and Joysticks (Clien	✓ Use main screen as live screen	
Security devices		
Alarm management	Total map screens:	1
Data management	Total 'playback from video souce' screens:	1
Client settings		
External alarms		
User interface settings(Client)		
Alarm settings		
Display settings		
Display settings (High res)		
Map settings		
Screen settings		
Overlay settings		
Hanna and Dai da ana 🔤		

From the 'Menu' bar available at the top, please use the 'Screens' menu, for accessing live video, playback video, export video.

Security Management System - Client (User=op,Privilege=Operator) - (CCTV keyboard screen index 1)

198	1000		10 10				
Application	Layout	Navigation	Settings	Screens	Active alarms	Video Panorama	Help
	(0.0.70)	1- Lobby Camer		Live screens Playback (vide Map screens	o source)		
<ul> <li>Office103(192.1)</li> <li>Device group</li> </ul>		A Cam029		Export (video			
🗸 🦕 CG_AIIC			/	Search bookm Forensic video			
	.168.1.182 Lobby Camera (1 View	2018-11-19	18:24:38	Object countin		_	
	Cam057 (1 View)			Search alarm i	-		
	Cam058 (1 View)			Offline data vi		Com	
	Cam059			Remote Backu	p (Local file)		No.
	Cam060 Cam061						
	Cam062					0	

Following is the list of menus available under 'Screens', which are relevant to 'Infinova 307X NVR' channels -

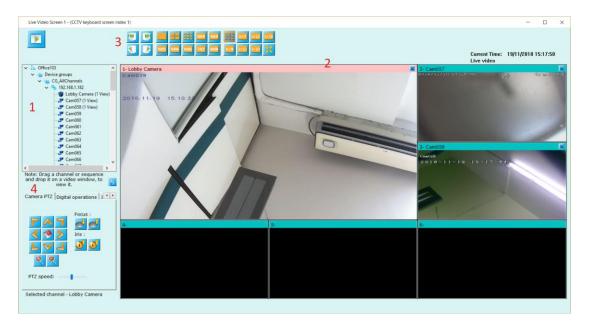
1. Live screens – popup menu which has sub-menus for opening screens which display live videos. This screen is described in detail in next sections in this document.

2. Playback (video source) - popup menu which has sub-menus for opening screens which display recorded videos and provide playback controls. This screen is described in detail in next sections in this document.

3. Export (video source) – menu which opens 'Export (video source)' screen. This screen is described in detail in next sections in this document.



## Live video screen



Clicking on 'Screens -> Live screens -> Screen <n>' pops up live video screen.

On left hand side, a tree control (marked with number 1 in above image) listing video channels available in the software.

Please click on any video channel from tree and drag it to the 'Video window panel' (marked with number 2 in above image) to see live video for the target video channel.

One video can be selected at a time. The color of the selected video is different than other videos.

Camera control for the camera associated with the selected video, is available on the left bottom corner (marked with number 3 in the above image)



## Playback video screen

Office103	^		
V Device groups			
CG_AllChannels			
✓ 😚 192.168.1.182			
Lobby Camera			
- <b>J</b> Cam058			
- 🚰 Cam059			
- 🖵 Cam060			
- 🖵 Cam061			
- 🚰 Cam066			
- 🖵 Cam067			
- 🚰 Cam068			
- 🚰 Cam069			
- 🖵 Cam070			
	~		
ote: Drag a channel or sequence	and		

Clicking on 'Screens -> Playback (video source) -> Screen <n>' pops up playback video screen, for NVR channels

On left hand side, a tree control listing NVR video channels available in the software. Please click on any video channel from tree and drag it to the 'Video window panel' to see recorded video for the target video channel.

When any Infinova 307X NVR channel is selected for playback view, the playback controls are displayed below the video, as per the image below.



Playback speed can be controlled using controls buttons available below the video.

Playback 'Start time' can be set in the user interface and clicking on the 'Go to specified time' starts playback from selected start time.

Export video button, when clicked will open separate 'Export video' dialog box. 'Export video' dialog box features are described in detail in the next section of this document.



## Export video screen

Clicking on 'Screens -> Export (video source)' pops up 'Export from Video Source' dialog box

						_
xport p	C:\Progra	im Files (x86)\Infinova	Security Management S	/stem\Server\Exported	Videos\	⊻
<u>_</u>						
xport o						
Sr No	-	Link Name	Channel Name	Start time	End time	
51110	Sice Hame	Link Hume	channer Name	Start time	Lind diffe	
<						

Select 'Export path' using 'browse' button.

Click on 'Add to export queue' button. This will open the 'Add to Export Queue' dialog box



Add to Export Queue					×
Start time:	19-Nov-1		2:30:00 PM	÷	
End time:	19-Nov-1	.8 💵 🔻	2:40: <mark>00</mark> PM	•	
Site name:	Office103			$\sim$	
Channel list:					
Link Name		Channel	Name	^	
☑ 192.168.1.182	2	Lobby Ca			
192.168.1.182	2	Cam057 Cam058 Cam059			
☑ 192.168.1.182	2				
192.168.1.182	2				
192.168.1.182	2 Cam060				
192.168.1.182					
192.168.1.182	-	Cam062			
192.168.1.182		Cam063			
192.168.1.182	-	Cam064			
192.168.1.182		Cam065			-
192.168.1.182		Cam066		<b>a</b>	
192.168.1.182		Cam067	-		
192.168.1.182	2	Cam068		~	
	÷	0			

Please specify the start time and end time for the required video export.

Please select the 'Site name'. This is the 'Site name' associated with the Security Management System server software. For deployments involving only single server, only one option will be available for this.

All Infinova 307X NVR channels, available in the selected Security Management System server will be listed. Please select the target channels for the video export.

Click on the 'Add' button to add these selections to the export queue.

							rator's Manufactu
xport fro	om Video Source					- 🗆 🗙	
xport p	oath: C:\	Program Files (x86)	\Infinova\Security M	anagement System\Serve	r\ExportedVideos\	<b>V</b>	
÷							
xport o Sr No	queue: Site Name	Link Name	Channel Name	Start time	End time	Status	
1	Office103	192.168.1.182	Lobby Camera	2018/11/19 14:30:00	2018/11/19 14:40:00		
2	Office103	192.168.1.182	Cam057	2018/11/19 14:30:00	2018/11/19 14:40:00		
3	Office103	192.168.1.182	Cam058	2018/11/19 14:30:00	2018/11/19 14:40:00		
<						>	
×				1			

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It is possible to add multiple channels with different export duration to the export que, by clicking in 'Add to export queue' button multiple times and selecting required export parameters in each iteration.

After configuring export queue, click on 'Process export queue' button, to start video export.

Exp	oort path:	C:\Program Files (	x86)\Infinova\Secur	ity Management System\S	ierver\ExportedVideos\	
Exp Io	ort queue: Site Name Office103	Link Name 192.168.1.182	Channel Name Lobby Camera Cam057	Start time 2018/11/19 14:30:00	End time 2018/11/19 14:40:00	Status 80% Completed
	Office103 Office103	192.168.1.182 192.168.1.182	Cam058	2018/11/19 14:30:00 2018/11/19 14:30:00	2018/11/19 14:40:00 2018/11/19 14:40:00	Waiting Waiting
<	_					
<				<b>M O</b>		

The export queue will be processed item by item and status will be displayed and updated for each of the item.



Once export queue is processed completely, 'Export completed' dialog box will be displayed.

Export completed	$\times$
Export Directory Path	
C:\Program Files (x86)\Infinova\Security Manage	
Closing in 56 second(s)	

Click on 'Browse' button to go to the exported video location from standard Windows Explore. A separate sub-folder is available for each item in the export queue.

A player application named 'Infinova307XPlayer.exe' is also copied along with the exported video. The player application can be used to playback the exported files.