

## Security Management System Configuring Infinova V4215-J1 USB CCTV Keyboard

## (A) Introduction

This document explains the configuration of Configuring Infinova V4215-J1 USB CCTV Keyboard for use in the Security Management System.

The Infinova V4215-J1 USB CCTV Keyboard can be configured for the Security Management System server software or for the Security Management System client software.

Notes -

- 1. Infinova V4215-J1 USB CCTV Keyboard can be configured with only one software instance at a time. Hence it can be either Security Management System server software or Security Management System client software.
- During the deployments, no videos are expected to be opened in the server software, hence during the deployments, the Infinova V4215-J1 USB CCTV Keyboard is expected to be configured for the Security Management System client software. Hence this document explains the steps for using Infinova V4215-J1 USB CCTV Keyboard with Infinova 2217 VMS Client software
- 3. If CCTV Keyboard is expected to be used with multiple Security Management System client software instances (which would be installed on multiple client workstation computers), multiple Infinova V4215-J1 USB CCTV Keyboard devices need to be included in the solution; one for each client workstation computer.



# (B) Configuring 'Security Management System Client' software

- 1. Open and connect 'Security Management System Client' software to the 'Security Management System Server' software.
- 2. Click on the 'Settings->Settings' menu. This will pop up the 'Settings dialog box.
- 3. Navigate to the 'Keyboards and Joysticks (Client) -> Keyboards and Joysticks' page from the left-hand side navigation menu.
- 4. Click on the add button. This will pop up the 'Add Keyboard / Joystick' dialog box.

Sr No. Device ID		
	Device Description Device Trace	
		<b>D L</b> 1
	Device Description Device Type	Details
Add Keyboard /Joystick	×	
	Device001	
Device Description: Device0	01 description	
Device Type: Infinova	V4215-J1 USB CCTV Keyboard V	
Joystick movement for zoom:	Normal	
Enable		
	0	
	<u>v</u>	
<		>
	Device Description: Device Device Type: Infinova Select Joystick: Keyboar Joystick movement for zoom: IV Enable	Device Description: Device001 description Device Type: Infinova V4215-J1 USB CCTV Keyboard  Select Joystick: Keyboard  Joystick movement for zoom: Normal  F Enable

5. On the 'Add Keyboard/Joystick' dialog box,

Please type the 'Device Name', next to the 'ID\_' textbox; it can contain any characters or digits. Usually it's a short ID string. The 'Device Name' should be unique for every new keyboard/Joystick added to the system. You can also keep it default, as the software generates unique names automatically for every new device added

Please enter short description.



Please select 'Device Type' as 'Infinova V4215-J1 USB CCTV Keyboard' from the available options and select Joysticks as listed: 'Keyboard' as shown in above image.

6. Click on add button to complete adding the keyboard into the system, and to close the 'Add Keyboard/Joystick' dialog box.

'Security Management System Client' software will show the link related to the newly added device in the left-side navigation menu.

Security Management System settings		×
Test PC $\checkmark$	Keyboards and Joysticks (Client) – Keyboards and Joysticks – ID_Device001	
Video devices		
Audio devices	Device ID: ID_Device001	
Device groups	Device Decsription: Device001 description	
Alarm groups	Device Type: Infinova V4215-J1 USB CCTV Keyboard	
Status	Device Name: Keyboard	
Reports and Export		
Communication	Enable	
Keyboards and Joysticks (Client)	Supports variable PTZ speed	
Keyboards and Joysticks		
ID_Device001	Joystick movement for zoom: Normal	
Status		
Security devices		
Alarm management		
Data management		
Client settings		
External alarms		
Data indicators		
User interface settings(Client)		
Users and Privileges		
		$\bigcirc$

7. The CCTV keyboard is now configured and can be used with the 'Security Management System Client' software.



## (C) Using the Keyboard

### 1. CCTV keyboard control mode

Infinova V4215-J1 USB CCTV Keyboard can be used in one of the following three control modes –

- (a) 'Camera pan, tilt and zoom' mode in this mode, the joystick controls the pan, tilt and zoom for the selected camera. This is the default mode.
- (b) 'Digital pan, tilt, and zoom' mode in this mode, the joystick controls the pan, tilt and zoom digitally for the selected camera.
- (c) 'Screen/grid selection and invoke camera' mode in this mode, the joystick is used to select video screens and to select video grid panel. This mode also supports 'invoking target camera', which indicates starting video display of target camera in currently selected video grid panel.
- (d) 'Playback mode' in this mode, the joystick is used to control playback speed and direction.

To change the 'CCTV keyboard control mode' to 'Camera pan, tilt and zoom'; please press key number '1' and then press button 'SET'.

To change the 'CCTV keyboard control mode' to 'Screen/grid selection and invoke camera'; please press key number '2' and then press button 'SET'.

To change the 'CCTV keyboard control mode' to 'Digital pan, tilt, and zoom'; please press key number '3' and then press button 'SET'.

To change the 'CCTV keyboard control mode' to 'Playback mode'; please press key number '4' and then press button 'SET'.

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	U	SB C	ontrol KB
SET	PRESET	SHOT	
1	2	3	
4	5	6	
7	8	9	
CLR	0	CAM	
	SHIFT	LIGHT	WIPER FOCUS+ IRIS+ FOCUS- IRIS-

2. Select video screen – Using CCTV keyboard buttons

Every video screen in 'Security Management System Client' software has unique CCTV index associated with it. This index is mentioned onto the title bar of the video screen.



Security Managem	nent System - Client (l	Jser=op,Privilege=Operato	or) (CCTV keyboar	d screen index 1)			
Application	Layout	Settings	Screens	Active alarms	Video Panorama	Help	
		📒 🖬 🐝	S	🖪 🚱 🔎	🚳 🚳		
		1- Cam1498				🧧 🗶 🗅 🗶	2- Cam1515
	ips hannels 1498 (1 View)						
Lam Cam	1515 (1 View)						
		_					
Camera PTZ Digit	-1	3-					4
This feature	e is either not or currently not selected camera.						

To select video screen, type its index number using number keys and the press 'SHIFT' key and then 'CAM' key. The video screen will get selected. The selected video screen window will become active window on the display / monitor.

Please note that, to select any video screen, it has to be already opened by the user. This function does not open the requested video screen, instead it will pop up the error message which will be auto closed in sometime.

E.g., to select main screen in the client software, press number 1 in the keyboard and then press 'SHIFT' key and then 'CAM' key.

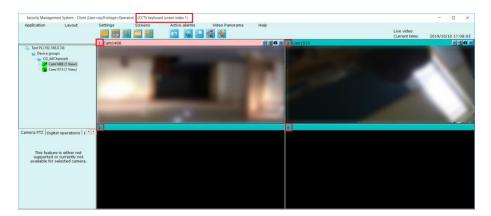


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## 3. Select video grid panel / Select camera

Each video window in the currently selected screen is numbered in the video screen. To select any camera, user needs to type the number and press 'CAM' button. Figure below shows four video windows with numbers written onto their title bar (see red color highlighed rectangles in below image).



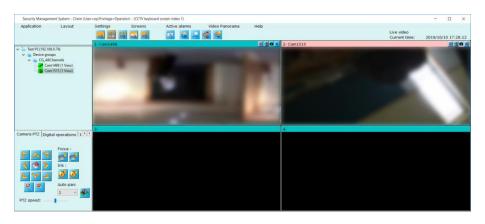
E.g. Currently, video grid panel 1 (which displays camera 'Cam1498') is selected. Selected video grid panel title is RED colored.

To select video grid panel 2 (which displays camera named 'Cam1515'), press number key 2 and then press CAM buuton.

	U	SB Co	ontrol KB
SET	PRESET	янот	
	2	3	
4	5	6	
7	8	9	
CLR	0	САМ	
	SHIFT	LIGHT	WIPER FOCUS+ IRIS+ IRIS-

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### 4. Screen/grid selection – Using joystick

Note – this feature is available only when the 'CCTV keyboard control mode' is set to 'Screen/grid selection and invoke camera'. Please refer to the 'CCTV keyboard control mode' section from this

document, for details about setting the 'Screen/grid selection and invoke camera'.

#### Selecting next video screen -

Use joystick knob and rotate it in **clockwise direction** to select next video screen. Release the knob to stop changing the selection and to finalize the currently selected screen.

#### Selecting previous video screen -

Use joystick knob and rotate it in **counter-clockwise direction** to select previous video screen. Release the knob to stop changing the selection and to finalize the currently selected screen.

#### Selecting video grid panel -

Use joystick knob and move to right / left / up or down, to select video grid panel. Release the knob to stop changing the selection and to finalize the currently selected video grid panel.



### 5. Camera pan, tilt, and zoom control

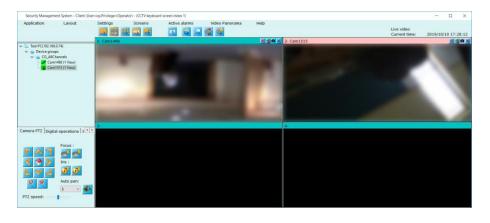
Note – this feature is available only when the 'CCTV keyboard control mode' is set to 'Camera pan, tilt and zoom'.

Please refer to the 'CCTV keyboard control mode' section from this document, for details about setting the 'CCTV keyboard control mode'.

Camera PTZ control will work on the currently selected camera from the currently selected video screen in the 'Security Management System Client' software.

The selected camera is shown in the light RED color.

E.g., Camera 'Cam1515' is the currently selected camera in the currently selected video screen.



#### Camera Pan –

Use joystick knob and move it to left or right direction to move or pan camera in left or right direction

#### Camera Tilt -

Use joystick knob and move it to up or down direction to move or tilt camera in up or down direction

#### Camera Pan-Tilt –

Use joystick knob and move it diagonally to left-up or left-down or right-up or right-down directions to move camera diagonally in the desired direction.

#### Zoom in-

Use joystick knob and rotate it in **clock wise** direction to zoom-in in the selected camera.

#### Zoom out –

Use joystick knob and rotate it in **counter clock wise** direction to zoom-out in the selected camera.

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## 6. Digital pan, tilt, and zoom control

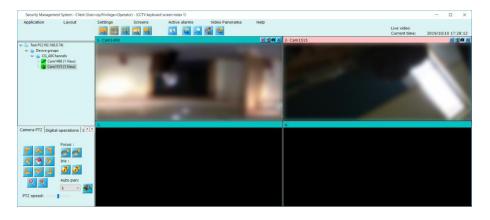
Note – this feature is available only when the 'CCTV keyboard control mode' is set to 'Digital pan, tilt and zoom'.

Please refer to the 'CCTV keyboard control mode' section from this document, for details about setting the 'CCTV keyboard control mode'.

Digital PTZ control will work on the currently selected camera from the currently selected video screen in the 'Security Management System Client' software.

The selected camera is shown in the light RED color.

E.g., Camera 'Cam1515' is the currently selected camera in the currently selected video screen.



This feature will control video display digitally. To start with, you should first use zoom in feature and then you can control zoomed in video further using pan, tilt and zoom operations.

#### Zoom in-

Use joystick knob and rotate it in **clock wise** direction to zoom-in video display for the selected camera.

#### Camera Pan –

Use joystick knob and move it to left or right direction to move or pan video display in left or right direction

#### Camera Tilt -

Use joystick knob and move it to up or down direction to move or tilt video display in up or down direction

#### Camera Pan-Tilt -

Use joystick knob and move it diagonally to left-up or left-down or right-up or right-down directions to move video display diagonally in the desired direction.

#### Zoom out –

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Use joystick knob and rotate it in **counter clock wise** direction to zoom-out in the selected video display.





#### 7. Invoke camera

Note – this feature is available only when the 'CCTV keyboard control mode' is set to 'Screen/grid selection and invoke camera'. Please refer to the 'CCTV keyboard control mode' section from this document, for details about setting the 'Screen/grid selection and invoke camera'.

This feature uses the 'camera number' from the "Camera Number for 'CCTV Keyboard - Invoke Camera'" configuration processed in 'Security Management System Server' software.

The "Camera Number for 'CCTV Keyboard - Invoke Camera" configuration involves assigning unique 'camera number' to each camera added to 'Security Management System Server' software.

By default, 'camera number' is NOT assigned to any of the cameras added to 'Security Management System Server' software. This one-time configuration needs to be done for each camera added to 'Security Management System Server' software. The configuration is described in the "Camera Number for 'CCTV Keyboard - Invoke Camera" section of this document.

Note – before using this feature from CCTV Keyboard, please configure 'camera number' for target cameras / all cameras in the 'Security Management System Server' software.

'Invoking target camera' indicates starting video display of target camera in currently selected video grid panel.

Please select the video screen and the video grid panel in it.

E.g., Image below shows selected video grid panel which does not have any camera assigned to it, and hence is not displaying video



	nent System - Client (Us							1071		>
Application	Layout	Settings	Screens	Active alarms	Video Panorama	Help	Live video Current time:	2019/10	10 10-1	
Test PC(192.16	ups Channels n1498 (1 View)	1- Cam 1498				9303 2-				
mera PTZ  Digi	tal operations   [ •	3-	-			4-				
This featur supported available for	re is either not or currently not selected camera.									

To invoke camera, type 'camera number' ("Camera Number for 'CCTV Keyboard - Invoke Camera") for the target camera and press 'CAM button'.

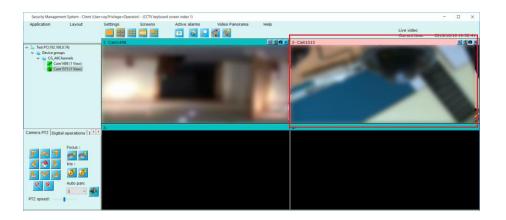
If 'camera number' '2' is configured for 'Cam1515' in 'Security Management System Server' software, press '2' key on the keyboard and then press 'CAM' button.



The camera 'Cam1515' will be assigned to the selected video grid panel and video for 'Cam1515' will be displayed in the selected video grid panel

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### 8. Clear input

Number key will be used to control various operations, if you want to clear incorrect values and start a fresh, you can press 'CLR' button. This will clear all the number input currently entered by the user and allow to start a fresh with inputting numbers





### 9. Camera FOCUS control

For the currently selected camera -

Press SHIFT button and then FOCUS+ button – to control focus near. Press SHIFT button and then FOCUS- button – to control focus far. Press number key 107 and then press SET button to control focus auto



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## 10.Camera IRIS control

For the currently selected camera -Press IRIS+ button – to control open iris. Press IRIS- button – to control close iris. Press number key 106 and then press SET button to control focus auto





#### 11. Snapshot camera

For currently selected camera, press SHOT button, to take snapshot and save to the snapshot directory.

Alternatively, press numbers 110 and then press 'SET' button to take snapshot of currently selected camera and save to the snapshot directory.

#### 12. Snapshot all cameras

For all currently opened cameras in the selected screen, press SHIFT button and then press SHOT button, to take snapshots and save to the snapshot directory.

Alternatively, you can use press number 115 and then SHOT.

#### 13. Move to 'Home' preset

To move the currently selected camera to HOME preset, press SHIFT button and then press PRESET button, Alternatively, you can use press number 122 and then SHOT.



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## 14. IR On/Off/Auto

To control the IR function of the currently selected camera -

For IR ON – use key number combination of '101' and press 'SET' button

For IR OFF – use key number combination of '101' and press 'SHIFT' button and then press 'SET' button.

For IR AUTO – use key number combination of '102' and press 'SET' button

	U	28 C	ontrol KB
SET	PRESET	внот	
1	2	3	
4	5	6	
7	8	9	0 0
CLR	0	CAM	
	SHIFT	LIGHT	WIPER FOCUS+ IRIS+ FOCUS- IRIS-



## 15. Output1 On/Off

To control the 'Output relay 1' of the currently selected camera -

For Output1 ON - use key number combination of '103' and press 'SET' button

For Output1 OFF - use key number combination of '103' and press 'SHIFT' button and then press 'SET' button





## 16. Wiper On/Off

To control the wiper function of the currently selected camera -For Wiper ON - use key number combination of '104' and press 'SET' button For Wiper OFF - use key number combination of '104' and press 'SHIFT' button and then press 'SET' button





### 17. Wash-wipe Activate/Abort

To control the wash-wipe function of the currently selected camera -

#### For Wash-wipe Activate -

Use key number combination of '105' and press 'SET' button

#### For Wash-wipe Abort -

Use key number combination of '105' and press 'SHIFT' button and then press 'SET' button





## 18. High resolution window Open/Close

## To open high-resolution window associated with currently selected camera –

Use key combination of '201' and press 'SET' button

#### To close high-resolution window-

Use key combination of '201' and press 'SHIFT' button and press 'SET' button.

	U	SB C	ontrol KB
SET	PRESET	SHOT	
1	2	3	18
4	5	6	
7	8	9	
CLR	0	САМ	
	SHIFT	LIGHT	WIPER FOCUS+ IRIS+ FOCUS- IRIS-



#### 19. Move to preset

'Security Management System' software uses 'Preset name' while adding new preset for any camera. This is a text string.

The 'Infinova V4215-J1 USB CCTV Keyboard' however uses 'Preset index' for 'Move to preset' function.

Hence to use 'Move to preset' feature from 'Infinova V4215-J1 USB CCTV Keyboard, the 'Preset names' in the 'Security Management System' software should be configured, as per the pre-defined preset naming conventions for preset names.

Please refer to the 'Security Management System - Preset Name and Preset Index' section from this document for details about the pre-defined preset naming conventions for preset names.

Note – only the presets matching the pre-defined preset naming conventions for preset names, can be accessed from 'Infinova V4215-J1 USB CCTV Keyboard', 'Move to preset' feature

To move the currently selected camera to target preset -

- (a) Please extract the 'preset index' number, from the 'preset name' of the target preset defined for the currently selected camera.
- (b) On the 'Infinova V4215-J1 USB CCTV Keyboard', use the keyboard buttons to type the extracted 'preset index' number, and press the 'PRESET' button

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#### 20. Global home position

'Global home position' feature is targeted to all cameras accessible from the 'Security Management System Client' software. This means all cameras which are listed in the camera list tree in any video screen.

To move all the cameras to 'Home' preset, press key number combination of '123' and the press SET button.





#### 21. Run Tour

To run first defined tour for selected camera, press key number combination of '108' and then press SET button.

To stop running tour, press key combination of '108' and then press SHIFT button and then press SET button.





## 22. Acknowledge alarm

Press key number combination "111" and press button "SET" to acknowledge currently active alarm.





## 23. Acknowledge all alarms

Press key number combination "112" and press button "SET" to acknowledge all active alarms in the system.

	US	SB C	ontrol KB
SET	PRESET	SHOT	
1	2	3	
4	5	6	
7	8	9	0
CLR	0	CAM	
	SHIFT	LIGHT	WIPER FOCUS+ IRIS+ FOCUS- IRIS-



### 24. Image property – color

Press key number combination "113" and press button "SET" to change the video image for selected camera to **color** image

	U	SB CI	ontrol KB
SET	PRESET	SHOT	
1	2	3	
4	5	6	
7	8	9	0 0
CLR	0	CAM	
	SHIFT	LIGHT	WIPER FOCUS+ FOCUS- IRIS+ FOCUS-



## 25. Image property – black and white

Press key number combination "114" and press button "SET" to change the video image for selected camera to **black and white** image

	US	SB CI	Datrol KB
SET	PRESET	SHOT	
1	2	3	
4	5	6	
7	8	9	0
CLR	0	CAM	
	SHIFT	LIGHT	WIPER FOCUS+ FOCUS- IRIS+ IRIS-



## 26. Layout change – 1x1

Press key number combination '202' and press key "SET" to switch to 1x1 video grid layout mode for selecting video.





### 27. Layout change – Reset

Press key number combination '203' and press key "SET" to reset video grid layout mode from 1x1 to previously selected video grid layout.

	US	SB C	Datrol KB
SET	PRESET	SHOT	
1	2	3	
4	5	6	
7	8	9	0 0
CLR	0	CAM	
	SHIFT	LIGHT	WIPER FOCUS+ IRIS+ IRIS-



## 28. Playback control – start playback

To start playback for selected screen, press key number combination "301" and press button "SET".

Playback from already configured timestamp in the user interface will be started.





### 29. Playback control – pause playback

To pause playback for selected screen, press key number combination "302" and press button "SET"

	U	28 C	ontrol KB
SET	PRESET	SHOT	
1	2	3	
4	5	6	
7	8	9	
CLR	0	CAM	
	SHIFT	LIGHT	WIPER FOCUS+ IRIS+ FOCUS- IRIS-



#### 30. Playback control – start playback with time

Note – this feature is available only when the 'CCTV keyboard control mode' is set to 'Playback mode'. To change the 'CCTV keyboard control mode' to 'Playback mode'; please press key number '4' and then press button 'SET.

To start playback for selected screen, you can define playback start time using CCTV keyboard using ACK key. Playback timestamp should be given in YYYYMMDDHHmmSS format where -

YYYY – year MM – month DD – day HH – hour mm – minute SS – seconds

After each field you should press SHOT button. Pressing SHOT button after seconds field will start playback if specified timestamp is valid timestamp.

E.g., If you want to start playback from 2023-01-13 12:23:02:55 seconds, following are the key combination you should use

2023<SHOT>01<SHOT>13<SHOT>12<SHOT>23<SHOT>02<SHOT>55<S HOT>

#### **Please note:**

- 1. If you need to correct current entry, press 'CLR' button which will clear last entry.
- 2. Any invalid entry like invalid year, invalid month, invalid day, invalid hour etc. will be cleared automatically when you press 'SHOT' button. You will have to re-enter the invalid entry.



#### 31. Playback control – speed and direction

Note – this feature is available only when the 'CCTV keyboard control mode' is set to 'Playback mode'. To change the 'CCTV keyboard control mode' to 'Playback mode'; please press key number '4' and then press button 'SET'.

Use joystick to control playback speed and directions as described below.

Only horizontal movements of joystick will be used to control speed and direction.

Use joystick knob and move it to **right** direction to control speed in **forward** direction. Speed can be set from quarter X, half X, 1X, 4X, 16X as per joystick movements. Greater the movement, larger the speed.

Use joystick knob and move it to **left** direction to control speed in **reverse** direction. Speed can be set from quarter X, half X, 1X, 4X, 16X as per joystick movements. Greater the movement, larger the speed.

Stop joystick movement and take it to zero position, playback will be **paused**.





#### 32. Playback control – frame by frame

Note – this feature is available only when the 'CCTV keyboard control mode' is set to 'Playback mode'. To change the 'CCTV keyboard control mode' to 'Playback mode'; please press key number '4' and then press button 'SET'.

This command works only when video is in playback paused mode and video grid layout is 1X1.

Pause video playback using any control (user interface, CCTV keyboard command or CCTV joystick.

Select any video and change video grid layout to 1X1 mode and then you can control playback 'frame by frame' in forward or reverse direction using CCTV keyboard commands

Press IRIS + to display next frame. Press IRIS - to display previous.

Use above keys to go to desired playback direction.





# (F) Keyboard/Joystick - Status

Status of all the commands executed for the added keyboards and joysticks can be viewed using 'Settings->Settings' menu. Select 'Keyboards and Joysticks (Client) -> Status' tab.

)	Infinova(R) 2217 Securit	y Management System se	ettings				
Site_645A04ABAEF6 V	Keyboards and Joysticks (Cli	ent) – Status					
Video devices							
Audio devices	Joystick/Keybaord logs						
Device groups							
Status	Timestamp	Command	Parameter	Status	Comment		
Reports and Export	2014/07/02 13:15:37	PTZ		Error	Invalid se		
	2014/07/02 13:15:37	PTZ		Error	Invalid se		
Keyboards and Joysticks (Client)	2014/07/02 13:15:37	PTZ	Move left	Error	Invalid se		
Keyboards and Joysticks	2014/07/02 13:16:06	Select live video screen	1	Success			
ID_KBD000	2014/07/02 13:16:11	Select camera	2	Success			
	2014/07/02 13:16:13	Select camera	1	Success			
Status	2014/07/02 13:16:14	PTZ	Move left	Success			
Security devices	2014/07/02 13:17:32	Select live video screen	1	Success			
Alarm management	2014/07/02 13:28:23	PTZ	Move right	Success			
-	2014/07/02 15:09:14	PTZ	Move right	Error	Invalid se		
Client settings	2014/07/02 15:09:20	Select live video screen	1	Success			
User interface settings(Client)	2014/07/02 15:09:22	Select camera	1	Success			
	2014/07/02 15:09:22	PTZ	Move right	Success			
Users and Privileges	2014/07/02 15:41:40	Select camera	2	Success			
	<				>		



## (G) Keyboard/Joystick – Error Status Window

'Security Management System Client' software can display error status window when any error is observed from operations from CCTV keyboard.

This error status window can be 'Enabled' and duration for which error status should be displayed can be configured.

- 1. In the 'Security Management System Client' software, plaese click on the 'Settings' menu from main screen and click on the 'Settings' sub-menu.
- 2. This will open the 'Settings' dialog box.
- 3. Please navigate to 'User interface settings (Client) -> Display settings' page from the left hand side navigation panel.

Security Management System settings		×
Test PC 🗸	User interface settings(Client) → Display settings	
Device groups  Aarm groups Status Reports and Export Communication Keyboards and Joysticks (Clien Security devices Alarm management	User interface settings(Client) – Display settings	
Data management Client settings	Disable camera state update in tree control     ✓     Show error status for CCTV keyboard commands     Auto-close in: 3 seconds	
External alarms Data indicators	☞ Switch to 'Show UI' mode when ESC button is pressed while in 'Hide UI' mode	
User interface settings(Client) Alarm settings Display settings	Tree control channel list:     Display Site Name       Image: Control channel list:     Image: Control channel list:       Image: Control channel list:     Image: Control channel list:	
Display settings (High res) Map settings Screen settings		
Overlay settings Custom layouts		
		2

- 4. Enable checkbox for 'Show error status for CCTV keyboard commans' and enter time duration (in seconds) for which the error status window should be displayed under 'Auto-close in'.
- 5. Click on the 'Save' button to save the changes to the configuration.
- 6. Close the 'Settings' dialog box.

After this configuration, whenever error is observed in any operation from CCTV keyboard, 'Security Management System Client' software will display error status window.



For example, if user is trying to PTZ camera which does not support PTZ; the error status window will be displayed as follows -

CCTV Keyboard/Joystick Command status	×
Error Command: PTZ Unable to PTZ	
Closing in 02 second(s)	



## (H) Camera Number for 'CCTV Keyboard - Invoke Camera'

For using 'Invoke camera' feature from CCTV keyboard, unique 'Camera number' needs to be assigned to each camera. This can be configured from 'Security Management System Server' software.

This section describes the steps to configure 'Camera number' for 'CCTV keyboard – Invoke camera' feature.

- 1. In 'Security Management System' server software, navigate to the 'Keyboards and Joysticks -> Keyboards and Joysticks' page from the left side navigation panel
- 2. Click on the 'Camera number for CCTV Keyboard invoke camera...' button

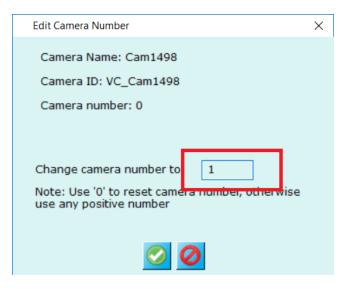
192.168.0.74	🧷	Keyboards and Joysticks →	Keyboards and Joysticks		
Test PC	2				
Video devices	^	🐨 🖭 🗡			
Audio devices		Sr No. Device ID	Device Description	Device Type	Details
Device groups					
Alarm groups					
Status					
Reports and Export					
Communication					
Security devices					
Keyboards and Joysticks					
Keyboards and Joysticks					
Status	-				
Users and Privileges					
Alarm management					
Data management					
Remote backup					
Tasks		<			
Linked servers					>
Server settings					
Video panorama	~				

- 3. This will open 'Camera number for CCTV Keyboard invoke camera' dialog box.
- 4. Select a camera from the list and click on the 'Change camera number' button.



2				
	Channel Name	Channel ID	Camera Number	
1	Cam1498	VC_Cam1498		
2	Cam1515	VC_Cam1515		

5. This will pop up the 'Edit Camera Number' dialog box.



6. Type 'Camera number' and click 'Ok' button to save; and to close the 'Edit Camera Number' dialog box.

Note – The 'Camera number' should be unique for each camera. 'Security Management System Server' software validates the camera number uniqueness across all cameras added to the server software. However, if the deployment site has multiple server computers; the user needs to manually manage the uniqueness of camera numbers across all the servers.

7. This will set 'Camera number' for a single camera. Follow the same steps to set 'camera number' for additional cameras.



Camera nu	Camera number for CCTV Keyboard invoke camera X					
2						
Sr No.	Channel Name	Channel ID	Camera Number			
1	Cam1498	VC_Cam1498	1			
2	Cam1515	VC_Cam1515	2		_	
					_	
					_	
					_	
					_	
					_	
					_	
					_	
					_	

8. Click on the 'Ok' button to close the 'Camera number for CCTV Keyboard invoke camera' dialog box

The camera numbers configured in 'Security Management System Server' software will get reflected in the connected 'Security Management System Client' software too.

- 1. To view the camera numbers in the 'Security Management System Client' software, Click on the 'Settings->Settings' menu.
- 2. This will pop up the 'Settings' dialog box.
- 3. Navigate to the 'Keyboards and Joysticks (Client) -> Keyboards and Joysticks' page.

oplication	Layout	Settings	Screens	Active a	alarms	Video Panorama	Help		
	I		ii 🔤 👫		<b>S</b>	st 🔹			
		1- Cam1498						Cam1515	
Test PC(192.168		Security Ma	nagement System setti	ngs					
V CG_AIIC	hannels	Test PC	~		Keyboards	and loysticks (Client	) – Keyboards and Joyst	ticks	
	n1498 (1 View) n1515 (1 View)	Video de	vices						
Con		Audio de	vices		4	E 🗙 🕒	•		
		Device g	roups			Device ID	Device Description	Dealer Tree	Details
		Alarm gr			1	ID_Device001		Device Type Infinova CCTV Keyboard	192.168
		Status		_	-	10_Deviceoo1	Deviceout descript	Innova CCIV Reyboard	192.100
		Reports	and Export	_	_				
		Commun							
			ds and Joysticks						
			ards and Joystic	cs					
era PTZ  Digit	al operations I		Device001	_					
	Focus :	Status	-	_	_				
			anagement	_					
			nagement		_				
s 💌 🔊	Iris :	Client se							
• V 4	🥑 💕	External	alarms						
छ 🥥	Auto pan:	Data ind	icators						
1	1 v 🕘	User inte	erface settings(C	lient)	<				>
speed:	-	Users an	d Privileges						
ns Notificatio	and l								
In Alarm T		-							



- 4. Click on the 'Camera number for CCTV keyboard invoke camera...' button.
- 5. This pop up the 'Camera number for CCTV keyboard invoke camera' dialog box.

Site Nan	ne: Tes	t PC	~	
Sr No. 1 2	Channel Name Cam1498 Cam1515	Channel ID VC_Cam1498 VC_Cam1515	Camera Number 1 2	
_				

6. Select 'Site Name' to view list of cameras and associated camera numbers, for the selected site



### (I) Security Management System - Preset Name and Preset Index

To use 'Move to preset' feature from 'Infinova V4215-J1 USB CCTV Keyboard', the 'preset names' for presets configured for the PTZ cameras should follow pre-defined preset naming convention.

Following is the preset naming convention

'P<XXX>-<Text>' – where <XXX> is any number and <Text> is any text Example 1 – P1-Lobby is a valid preset name Example 2 – P21-Parking is a valid preset name Example 3 – P1921-Floor1 is a valid preset name

Note – there should be no 0 characters before the preset number, in the preset name text configured in Infinova 2217 VMS server software. Example – 'P02-Basement' is incorrect preset name. It should be 'P2-Basement'

'Security Management System Server' software provides 'Preset secondary name' feature; which may be useful in easier management of preset names to follow the predefined preset naming convention

Following are the steps to configure 'Preset secondary names'

1. Preset 'Secondary name' feature is disabled by default. It needs to be enabled in the 'Security Management System Server' software. To enable it, please access 'Server settings->Preferences (Camera 2)' page from the left side navigation panel.

192.168.0.74	Server settings – Preferences (Camera 2)
Test PC 📝	
Data management	✓ Disable Infinova 306X DVR channel live video viewing
Remote backup	Disable Infinova 306X DVR channel playback video viewing
Tasks	Disable Infinova 307X NVR channel live video viewing
Linked servers	Disable Infinova 307X NVR channel playback video viewing
Server settings	Enable encryption and tampering detection
Resources	✓ Display secondary preset names
Preferences	
Preferences (Camera 1)	Re-connection wait interval: 30 seconds
Preferences (Camera 2)	Custom boot
Preferences (Notifications)	
Preferences (Playback)	Enable
Advanced jitter removal	Number of iterations: 3
Preferences (Logs)	Expected camera reboot time: 120 seconds
Computer maintenance	
Time synchronization	
Scheduled maintenance	
Resource monitoring	
Video panorama 🔍 🗸	



- 2. Click on the 'Edit' button to enable the GUI Enable 'Display preset secondary names' check-box Click on the 'Save' button to save the settings
- 3. Preset secondary names are configured for one camera at a time. Please navigate to the camera details page from the left side navigation panel 'Video devices -> Channels -> <Camera name>'. The <Camera name> is the camera name of the target camera.

192.168.0.74	Video devices - Channels - Cam1515				
Test PC 🧷	Channel Name Cam1515	Image: A state of the state			
Video devices	Parameter Name	Parameter Value	•		
Channels	Channel ID	VC Cam1515			
Cam1498	Channel Description	Cam1515			
Cam1515	Video Source Type	Infinova IP Camera T Series			
	Display Resolution (Stre	1280x720/1920x1080 pixels			
Sequences	Recording Resolution	1280x720 pixels			
Stream Profiles	Recording Mode	Continuous	E v fin sides		
Audio devices	Manual Recording State	Off	✓ Y flip video ✓ Show analytics status		
Device groups	Recording Drive	E:\			
	Video Parameters -		Motion detection off $\sim$		
Alarm groups	- IP address	192.168.1.101	Camera PTZ		
Status	- User name	admin			
Reports and Export	- Connection Mode	Unicast	Send audio to camera		
Communication	- Audio support	No	Track DT7 assister		
	- Lens	Normal lens	<ul> <li>Track PTZ position</li> <li>Supports wiper</li> </ul>		
Security devices	GPS co-ordinates		Supports wiper		
Keyboards and Joysticks	Use GPS co-ordinates		Supports light		
Users and Privileges	Latitude: 0		Supports aux focus		
Alarm management					
	Longitude: 0		Enable video capture logs		
Data management			Enable video capture logs		
Remote backup	🥖 🕃 🧶 💰 🚺	II 🔹 🛃 🖬	🕄 📸 🔀 🤿 🔿 🚱		
Tasks 🗸					

4. Click on 'Camera PTZ...' button and select 'Preset' tab.

Camera PTZ - Cam1515		×
PTZ Presets Tours Patter Preset name : Preset list: S. Preset name Seco 1 Home 2 Preset2	m Preferences	
< , , , , , , , , , , , , , , , , , , ,	Preset - Home	

- 5. Select a preset from the list of presets and click on 'Change secondary name for selected preset...' to set secondary name.
- 6. This will pop up the 'Edit Secondary Name for Preset' dialog box



Edit Secondary Name for Preset		$\times$
Preset Name:	Home	
Secondary Name:	P1-Home	]
Note: Secondary name format 'P <xxx>-<text>' where <xxx> is any number and <text> is any text There should be no 0 characters before the number.</text></xxx></text></xxx>		
Example: Example 1: 'P1-Lobby' is a valid name Example 2: 'P02-Parking' is a invalid name, it should be 'P2-Parking'		
Secondary Name can be kept blank to reset it		

- Type the 'Secondary name'. The preset secondary name should follow the preset naming convention. Click 'Okay' button to save the secondary name.
- 8. Please follow the same steps to set 'Preset secondary names' for other presets.
- 9. Alternatively, click on 'Change secondary names for all presets' button to automatically set secondary names for all available presets.