

# Security Management System Infinova T series Camera IO Out Control MACRO Configuration for Motion Alarms

#### Introduction

Security Management System software supports executing custom MACROs as 'alarm handling option' for any of the alarms generated in / captured by Security Management System.

'Infinova T series Camera I/O Out Control MACRO' is one such readily available MACRO which can be configured as alarm handling option for one or more alarms, in Security Management System.

This document describes the steps to configure the 'Infinova T series Camera I/O Out Control MACRO' as alarm handling option in Security Management System.

This document describes the steps to configure 'Infinova T series Camera I/O Out Control MACRO' as alarm handling option for 'Motion detection' alarm generated from 'Cam664'.

The configuration targets for following working -

- 1. Whenever 'Motion detected' alarm is generated by 'Cam664', it will switch the associated Infinova T-series I/O output state to ON.
- 2. Whenever 'No Motion' alarm is generated by 'Cam664', it will switch the associated Infinova T-series I/O output state to OFF.

Notes -

- (a) Though this document explains the steps for 'Motion detection' alarm, similar steps can be followed for any other type of alarm available in Security Management System
- (b) This document explain steps for 'Cam664'. This is just an example and same can be configured for any camera available in the Security Management System deployment.



# MACRO package

'Infinova T series Camera I/O Out Control MACRO' is available as a ZIP file.

(a) Please download the ZIP file

(b) Unzip it maintaining the directory structure

(c) Copy the unzipped content to the computer where Security Management System Server software is installed.



#### Configuration steps 1 - Infinova T series camera IO out configuration

Please refer to a separate document available; which explains the 'Infinova T series camera IO out configuration' for control from the Security Management System software.

This will ensure that 'Camera IO out' is configured as expected and the control is working properly from the Security Management System software.

Please proceed with configurations described in this document, only if target Infinova T series camera 'Camera IO out' control from the Security Management System software is tested and confirmed to be working fine.

If any issue is observed in target Infinova T series camera 'Camera IO out' control from the Security Management System software, please resolve the issue before proceeding.



### Configuration Steps 2

- 1. Execute 'Security Management System server' software
- 2. Navigate to 'Alarm Management -> Alarm Rules' page from the left hand side navigation menu.

192.168.1.151	Alarm management - Alarm R	tules			
ite_645A04ABAEF6					
	🚺 💽 🗑 🥥 🖨				
Audio devices	Sr No. Source Name	Alarm Name	Status	Category	,
evice groups					
tatus					
eports and Export					- 65
ommunication					
ecurity devices					
eyboards and Joysticks					- 10
sers and Privileges	<				>
Narm management					
Alarm handling	Alarm details for 'Selected	l'alarm:			
Alarm Rules	Feature	Details			^
Generate test alarms	Category				188
ata management	Alarm acknowledgement				188
-	Acknowledgement type Indicate on live video				- 10
emote backup	Show alert on map				
isks	Play sound				
nked servers	Digital output				
erver settings	Save image				~
ideo panorama					
nder Vehicle Surveillance					

- 3. Click on 'Add new alarm rule' button.
- 4. This will pop up the 'All new alarm rule' wizard.
- 5. Select alarm source as the name of the camera for which this new rule will be effective. As per the example used in this document, it is 'Cam664'.
- 6. Select desired 'Alarm Type' from the list available. As per the example used in this document, it is 'Motion detection'.



	Ado	d new alarm rule	
Select alarm source a	and type		
Select Rule			
	Alarm Source:	Cam664	v
	Alarm Type:	Motion detection	~
	-		

7. Click on 'Next' button to proceed to next page in the configuration wizard.

ommunicatio Execute Macr		Preset And Tours Multi	channel Recordi	ng
Macro pa	ath:	Out_150408\svMacroLa	uncher.exe	
XML File	Path:	D:\InfinovaTSeriesIOOu	t_150408	
Argumer	nt Name:			
Sr No.	Argume	nt Name		
1	IP="19	2.168.1.103"		
2	RelayNu			
3	OpenS	vitch="1"		
_				
<u> </u>				

- 8. Select 'Macro' tab from this page, click on 'Execute Macro' checkbox to enable/select it.
- 9. Specify 'Macro path' as path to svMacroLauncher.exe. The svMacroLauncher.exe is available in the 'Infinova T series Camera I/O Out Control MACRO' package.

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- 10. Specify XML file path as any valid path available on the computer. It can the path of the unzipped directory which has 'Infinova T series Camera I/O Out Control MACRO' package files
- 11. Configure the arguments to the MACRO, as follows -
- (a) IP="aaa.bbb.ccc.ddd" where 'aaa.bbb.ccc.ddd' is the IP address of the target Infinova T series camera.
- (b) RelayNum="x" where 'x' is the target IO out number from the target camera. In most of the cases this will be '1'
- (c) OpenSwitch="y" where 'y' is the state of the IO out. 0 indicates 'closed' state, and '1' indicates 'open' state.

Please note that the format of the argument should be as mentioned above, including double quote characters (") and uppercase and lower case letters.

It is advisable to copy the strings below and modify the parameters and use them during configuration –

Sr	Argument	Example	Variables
No			
1	Argument 1	IP="192.168.1.103"	Please replace 192.168.1.103 by the IP address of the target Infiniva T-series camera
2	Argument 2	RelayNum="1"	Please replace 1 by target IO out number. Most of the Infinova T- series camera models support only one IO out, hence this will always be 1
3	Argument 3	OpenSwitch="1"	Please replace 1 by 0, if the IO out state needs to be switched to 'closed', as part of MACRO operation

The OpenSwitch parameter controls the state of the IO out. Using 0 (close state) or 1 (open state) depends on the device connected to the camera IO out and the overall integration.

- 12. MACRO configuration in rule for 'Cam664' and 'Motion detected' alarm is completed now.
- 13. Similar steps are required for MACRO configuration in rule for 'Cam664' and 'No Motion' alarm. Only difference would be in the Argument3 specified during MACRO configuration.

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- (a) If in the 'Cam664 and Motion detection' rule, argument 3 was specified as OpenSwitch="1", then in the 'Cam664 and No Motion' rule, specify argument 3 as OpenSwitch="0"
- (b) If in the 'Cam664 and Motion detection' rule, argument 3 was specified as OpenSwitch="0", then in the 'Cam664 and No Motion' rule, specify argument 3 as OpenSwitch="1"

All other arguments remain the same.

14. To generate the 'NO MOTION' alarms, please enable 'Add no motion alerts to alarms list' from 'User interface settings -> Alarm Settings' page.

192.168.1.151	User interface settings – Alarm settings
Site_645A04ABAEF6	
Reports and Export ^	Alarm type indicator
Communication	Log:
Security devices	Warning:
Keyboards and Joysticks	
Users and Privileges	Alarm: 🔽 🕢
Alarm management	Alarm acknowledgement window type
Data management	
Remote backup	ODetailed
Tasks	Compact
Linked servers	
Server settings	Add motion detection alerts to alarms list
Video panorama	Add no motion alerts to alarms list
Under Vehicle Surveillance	Add 'Delay in writing video data' alarm to alarms list
User interface settings	Enable object counting alerts
Alarm settings	Auto close alarm acknowledgement window when no active alarms exist
Display settings	Add object counting logs to external DB
Display settings (High res)	
Map settings	
Overlay settings	
Language settings	

15. After configuring the alarm rules, they will be listed in 'Alarm Rules' list.

192.168.1.151	Alarm mar	nagement → Alarm F	Rules			
ite_645A04ABAEF6						
/ideo devices		😸 🕢 😂				
Audio devices	Sr No	. Source Name	Alarm Name	Status	Category /	
Device groups	1	Cam664	Motion detection	Enabled	Alarm	
Status	2	Cam664	No motion	Enabled	Log I	
Reports and Export						
Communication						
Security devices						
Keyboards and Joysticks						
Users and Privileges	<				>	
Alarm management			lateration to			
Alarm handling		details for 'Motion o			0	
Alarm Rules	Featu		Details			
Generate test alarms		Category Alarm acknowledgement		Alarm Yes		
Data management		Adam acknowledgement Acknowledgement type		Auto (after 10 seconds)		
Remote backup		Indicate on live video		No		
Tasks		alert on map		Yes (Primary channel only)		
Linked servers		al output	No	No		
Server settings	and the second se	image	Yes			
Video panorama						
Under Vehicle Surveillance						

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16. Whenever the 'Infinova T series Camera I/O Out Control MACRO' gets executed, it pops up a status message for 5 seconds. This helps in understanding the status of the MACRO execution.

