HOW TO. Use the AXIS Q2901-E with

AXIS Camera Station



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Introduction

The following document highlights how to use AXIS Q2901-E with AXIS Camera Station in different scenarios:

The document explains how to:

- Use the spot measurement tool within AXIS Camera Station
- How to display the spot temperature as a text overlay
- Create alarms triggered by temperature

Prerequisites

AXIS Camera Station 5.20.007

AXIS Q2901 firmware 6.50.1.3

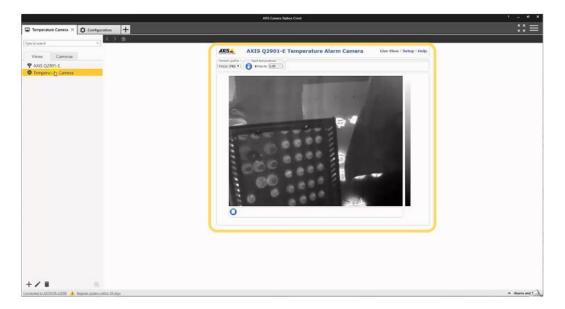
Please note that Axis doesn't take any responsibility for how this configuration may affect your system. If the modification fails or if you get other unexpected results, you may have to restore the settings to default.

Use the spot measurement tool within AXIS Camera Station

In the following example we will add the web page of the AXIS Q2901-E into AXIS Camera Station to enable the operator to use the spot measurement tool.

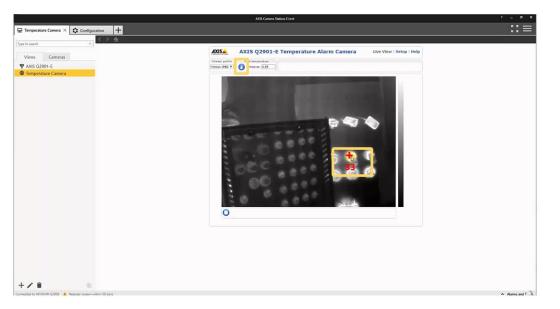


- 1. Select New View(+ icon) at the bottom right of the page.
- 2. Select New Web Page and insert the URL of the Live View of the AXIS Q2901-E.



3. You can then view the Live View of the camera within AXIS Camera Station.

4. Select the spot measurement tool and then you can click within the image to view the temperature.



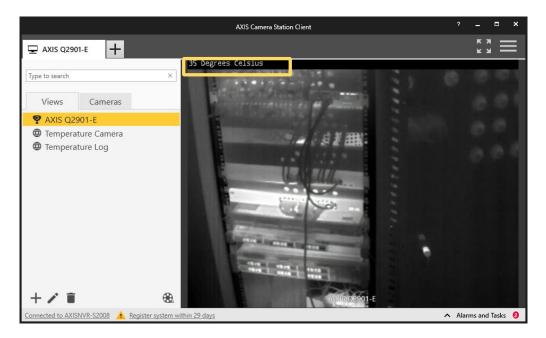
How to display the spot temperature as a text overlay

You can configure the spot temperature to be displayed as a text overlay.

Basic Setup	Video Stream Settings					
	Image Audio H.264 MJPEG					
Video & Audio Video Stream	Image Appearance					
Stream Promes	Resolution: 640x480 (4:3) V pixels					
ONVIF Media Profiles	Compression: 30 [0100]					
Camera Settings Overlay Image	Mirror image					
Privacy Mask	Rotate image: 0 V degrees					
Audio Settings	Video Stream					
Audio Clips	Maximum frame rate:					
hermal Settings	Unlimited					
	Limited to [19] fps per viewer					
ive View Config	Overlay Settings					
etectors	Include overlay image at the coordinates: X 0 [0] Y 0 [0]					
	Include date Include time					
pplications	✓ Include text: #JC Degrees Celsius					
vents	Text overlay size: small T					
	Text color: white V Text background color: black V					
ecordings	Place text/date/time at top v of image					
anguages	Place text/date/diffe at top + of image					
unguugus						
ystem Options						
bout	Preview					
ibout	View image stream while configuring. Video format: MJPEG V Open					

- 1. Enter the web interface of the AXIS Q2901-E, select Setup and then select Video Stream from the Video & Audio menu.
- 2. Tick the include text box and insert **#JC Degrees Celsius** and press Save. Note that other overlay options are available, click on the help icon to find out more.

3. Now the temperature of the spot measurement will be displayed in the top of the video image.



Alarms triggered by temperature

You can configure an alarm to be triggered when a zone rises above or falls below a certain temperature.

AXIS	AXIS Q2901-E Te	mperature Alarm Camera Live View	Setup Help
Basic Setup	Temperature Detection		0
Video & Audio	Detection Settings		
Thermal Settings Live View Config	Zone Namer New Delete	D6 Degrees	-00
• Detectors Temperature Detection		Contraction of the second	001
Audio Detection	Name: Rack_Plus_40		
 Applications Events Recordings 	Detection Type: Above V Detection Temperature: 40 [-40.,550]*C Advanced Settings: Save Reset	Rack_Plus_40	0.01
Languages	View All Zones View Selected Zone		
 System Options About 			

- 1. Enter the web interface of the camera, select set up and then Temperature Detection within the Detectors menu.
- 2. Give the alarm a descriptive name and select the detection type above or below a specific temperature or an increase in temperature.
- 3. Specify the detection temperature.
- 4. Position the detection box to the desired position and press Save.

5. The next step is to create an Action rule in AXIS Camera Station. Open the Configuration tab and select action rules from the Recording and events menu. Select New.....

		AXIS Camera Station Client		
🖵 Views 🌣 Configuration	× +			""
Type to search	×	Action rules		
🗣 Devices	~	Create and edit action rules by selecting triggers, actions, and schedules.	Type to search	×
Storage	\sim			
Recording and events	^			
Recording method				
I/O ports				
Action rules				
Schedules		Click new to create an advanced rule for recording, sending emails or raising alarms, etc.		
🖆 Client	~			
 Connected services 	~			
Server	~			
E Licenses	~			
C Security	~		New Edit	Remove
Connected to UK-LAPMATTMEADE			^	Alarms and Tasks

6. Select Add a trigger and select Device Event.

	Add Trigger	?	×		Edit Devic	e Event Trigge	er ? -	. • ×
Trigger	Description			Configu	ire device e	event t	riqqer	
Motion Detection	This type triggers on events			Device:	AXIS Q2901-E			-
Active Tampering Alarm AXIS Cross Line Detection	cameras and auxiliary devic trigger is for advanced user			Event:	Temperature I	Detection		•
System Event and Error	be used if no other trigger i	s		Trigger perio	d: 0 🔾 🦳			seconds
Input/Output	applicable.			Filters				
Device Event Action Button				Temperatu	ire Zone:	Rack_Plu	us_40	
External HTTPS				Video sou	rce configuration	1		•
				token:		Yes		
	Help OK	Cance	el	Alarm acti	ve:	Tes		-
				Activity:				
					_			
						Help	OK	Cancel

- 7. Select the AXIS Q2901-E as the device.
- 8. Select Temperature Detection as the Event.
- 9. Select the Temperature Zone that was configured in the AXIS Q2901-E web interface.
- 10. Select Yes to activate the alarm. Once activated you can see activations in the activity window.
- 11. Click OK.

12. The next step is to define the Actions, this is what happens when an alarm has been activated. Several options are available such as recording the event with pre-event recording to observe what occurred before the activation, sending an email, triggering a contact closure output to turn on a warning lamp or similar and Http triggers which can be used to activate audio messages on an Axis speaker such as the AXIS C3003-E. The example below will create an alarm alert message which is sent to the operator and the view will automatically change to the temperature alarm camera when the alarm temperature is reached.

	Add Action	?	×
Action Record Raise Alarm Send E-mail Live view Set Output Send HTTP Notification	Description Start recording to disk with recording profile. Recording searched at any time in the database and viewed in pla	gs can be recording	
	Help OK	Cance	

13.

14. To create an alarm event, Select Raise Alarm. Enter a message that will be shown to the AXIS Camera Station operator to inform them of the temperature alarm.

	Edit Alarm Action ? 🗙		Edit Rule	?	×
Title: Description: Alarm p	Temperature Alarm Rack has reached 40 degrees investigate Drocedure n show alarm procedure:	Steps Triggers Actions Schedule Details	Actions Define the actions that should be carried out when this rule is active. All the actions you specify here will be carried out every time. Raise alarm 'Temperature Alarm' .	Add Edit Remov	
File name: [Preview Upload Help OK Cancel		Help Cancel < Back Next >	Finis	h

15. Click Add... to add additional Actions.

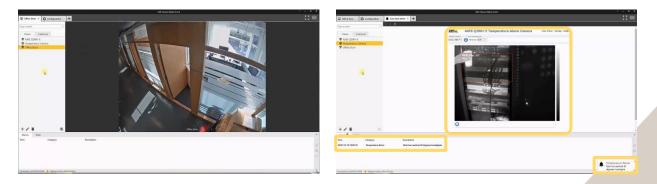
16. To automatically change the operators view select Live view. Choose the camera view to be shown when the alarm is activated.

Edit Live View Action ? 🗙	×	
		Edit Rule
Live view actions On trigger go to: View: Temperature Camera	<u>Steps</u> Triggers Actions	Actions Define the actions that should be carried out when this rule is active. All the actions you specify here will be carried out every time.
O Camera: AXIS Q2901-E -	Schedule	Raise alarm 'Temperature Alarm'
Go to preset:	Details	Go to view 'Temperature Camera' Bring application to front
Bring to front		
On trigger bring application to front		Help Cancel < Back Next >
Help OK Cancel		

- 17. Multiple action can be associated with the alarm, click Next when complete. The next option is to add a schedule, configure this if it is required.
- 18. The final step is to name the Action Rule. This is important especially if multiple rules are used.

	Edit Rule	?	x
<u>Steps</u> Triggers Actions Schedule Details	Details Entering a name and click 'Finish' to create the rule.		
	Name: Temperature Alarm Triggers: Device event trigger on AXIS Q2901-E (Temperature Detection) Schedule: Always on Actions: Raise alarm 'Temperature Alarm' Go to view 'Temperature Camera' Bring application to front		<
	Help Cancel < Back	Finis	h

19. You can then test your configuration. Is this case the view has changed and alarm message is presented to the operator.



Considerations and limitations

If you use the "Go to view" function then the views of all of the connected clients will change.

For more information:

https://www.axis.com/products/axis-q2901-e

https://www.axis.com/products/axis-camera-station/overview