

AiDANT Actions User Guide



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1. Overview

The AiDANT Actions application developed by AiDANT.ai is an AXIS ACAP application that can be used to monitor an area and notify the user if any of the following actions is detected:

- Walking
- Running
- Standing
- Sitting
- Lying Down
- Aggression

or if any combination of arms positions is detected: up, down, in, out.

This application can be installed into AXIS cameras with ARTPEC-9 architectures, excluding multi-sensor and fisheye.

2. Glossary

AI threshold	The sensitivity of the action detection.
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3. Requirements

In order to run the AiDANT Actions application, you will need:

1. An AXIS camera with an ARTPEC-9 chip, excluding fisheye lens and multisensors.
2. Update the AXIS camera firmware to the latest version.
3. Purchase a license from AiDANT.
4. Download and extract (unzip) the eap application file through the link <https://www.aidant.ai/downloads>

4. Effective Ranges

Artificial intelligence applications demand a lot of hardware processing power. This application analyses an optimized internal video stream which is separate from the stream selected by the user for viewing or recording.

As a result, selecting a higher resolution viewing stream (more megapixels) will not affect the detection results nor range. This means that using the PPF (pixel per foot) unit of measure can be misleading.

The effective detection range will be, accordingly: 10 meters* (~33 feet) for no optical zoom, and a multiple of the optical zoom factor for zoomed streams. eg: 20 meters (~65 feet) for zoom x2.

5. Installation

Once all the requirements are satisfied, please do the following:

1. Access the camera through any web browser.
2. Go to *Settings*→*Apps* .
3. Click on *Add* and install the .eap application file.
4. Click on *AiDANT Luggage* and install the license key file provided to you.

6. Main Controls

- The '*AI Threshold*' field can be modified to indicate how selective we want to be in identifying a action. (i.e. the higher the number, the more discriminate it becomes to determine if an action on the screen is the desired action and the less positives that we will have). A value of 0.60 is the default as it minimizes false positives and increases true positives for detection.
- Press the '*Update and Save*' (green checkmark ) button to save your configuration changes.

7. Actions Tab

Select the actions that you want to recognize. The options are: Walking, Running, Standing, Sitting, Lying Down, Aggression or any combination of arms positions detected: up, down, in, out.

Set the desired time for the alert.

Warning: The value of '*Alert*' should be at least 3 seconds, as the system needs some time to undersatnd the action. Setting less than this time might rresult in false positives.

8. Overlay

- When an action is detected, a bounding box can be shown on the stream of the application.
- The user can include the detection overlays or anonymized overlays into a stream of their choice.

- The skeletons and action probabilities can also be included, however adding to many overlays might slow down the application.

9. Advanced

Single person can trigger aggression

By default, more than one person is needed to trigger an aggression event. For demo purposes, this can be bypassed, by unchecking: Single person can trigger aggression.

Log

Use the buttons to view or get the application log. Users can also add a manual entry to the log.

10. Event Triggering

To setup event triggering:

1. Go to *System* → *Events*.
2. Click on + under *Rules* and give your new rule a name.
3. Select the correct condition under the *Condition* field.
4. In the *Action* field, select an action accordingly.

11. Connecting the events to VMS

Milestone

To receive events from AiDANT applications in Milestone XProtect:

1. In Milestone XProtect Management Client 'Site Navigation' panel, expand 'Servers/Recording Servers'.
2. In the 'Recording Server' panel select the desired camera and channel to open the 'Properties' dialog.
3. In the 'Properties' dialog, press the button 'Events' (at the bottom).
4. Press the button 'Add' for events to open the 'Select Driver Event' dialog.
5. In the dialog 'Select Driver Event', select the required events associated with your AiDANT product.
6. Create Alarms by selecting 'Alarms/Alarm Definitions', and configuring the definitions accordingly. Remember to save!

As events are 'Stateful', an 'on' event sent by the AiDANT application will appear in Milestone as 'Rising', while an 'off' event sent by the AiDANT application will appear in Milestone as 'Falling'.

Tip: If you cannot see the events associated to the camera, you might need to update the remote site hardware.

1. On the central site, expand Servers and select Recording Servers.
2. In the Overview panel, expand the required recording server, select the relevant remote system.
3. Right-click it.
4. Select Update Hardware. This opens the Update hardware dialog box.
5. The dialog box lists all changes (devices removed, updated and added) in the remote system since your Milestone Interconnect setup was established or refreshed last.
6. Click Confirm to update your central site with these changes.

Genetec

1. In 'Security Center' open the configuration tool and select the desired unit to configure.
2. In the properties tab, enable the desired AiDANT events by selecting the AiDANT application from the applications list, and choosing the events from the 'Application Events' list.
3. Configure your alarms or bookmarks using 'Genetec Actions': In 'General Settings', select 'Actions'. Configure your event-to-action accordingly.

Tip: If you cannot see the events associated to the camera, refresh the camera connection.

AXIS Camera Station

1. Select 'Recording and events/Action Rules'.
2. Click 'New'.
3. Click 'Trigger/Device Event/OK'.
4. Select Device and Event.
5. Filter Active Yes for the ON state and vice versa.
6. Press 'Next' and select your desired action. Finish.

12. Appendix

Troubleshooting

Question: How can I see the application log?

Answer: The application log can be accessed from the 'Advanced' Tab in the user interface.

Question: Why doesn't my application show the correct User Interface after I upgraded the application?

Answer: When upgrading from a previous version without uninstalling please press CTRL+F5 in your computer to refresh the browser contents. (in laptop: Function + Ctrl + F5)

Question: The application is not starting as expected, what can I do?

Answer: If the the installation completed successfully, please make sure that you have the latest AXIS OS firmware in your camera (in the camera user interface, select Maintenance from the lefthand menu panel, then choose AXIS OS Upgrade). Then restart the application and press Ctrl+F5 (in laptop: Fcn+Ctrl+F5) in your browser to clear the cache.

If the problem is not resolved:

1. Delete the application and install it again, apply license.
2. Start the application. Wait one minute before opening application page.

If the problem is still not resolved:

3. Restart the camera (in the camera user interface, select Maintenance from the lefthand menu panel, then choose Safe Restart). Then repeat steps 1 and 2.

If those steps do not resolve the issue, please contact us for a support meeting.

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